Full wwPDB EM Validation Report

Mar 20, 2026 – 02:54 AM UTC

PDB ID	:	8UOX / pdb_00008uox
EMDB ID	:	EMD-42439
Title	:	Cryo-EM structure of a Counterclockwise locked form of the Salmonella enterica Typhimurium flagellar C-ring, with C34 symmetry applied
Authors	:	Johnson, S.; Deme, J.C.; Lea, S.M.
Deposited on	:	2023-10-20
Resolution	:	4.60 Å(reported)

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

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

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

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

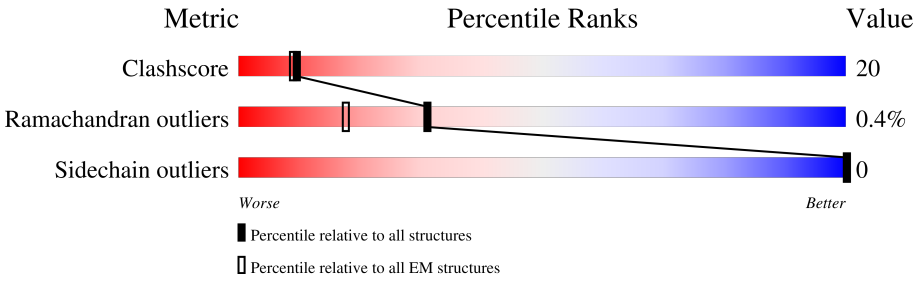
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A1	560	92%
1	A2	560	92%
1	A3	560	92%
1	A4	560	92%
1	A5	560	92%
1	A6	560	92%
1	A7	560	92%
1	A8	560	92%
1	A9	560	92%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	AA	560	92%
1	AB	560	92%
1	AC	560	92%
1	AD	560	92%
1	AE	560	92%
1	AF	560	92%
1	AG	560	92%
1	AH	560	92%
1	AI	560	92%
1	AJ	560	92%
1	AK	560	92%
1	AL	560	92%
1	AM	560	92%
1	AN	560	92%
1	AO	560	92%
1	AP	560	92%
1	AQ	560	92%
1	AR	560	92%
1	AS	560	5% 92%
1	AT	560	92%
1	AU	560	92%
1	AV	560	5% 92%
1	AW	560	92%
1	AX	560	5% 92%
1	AY	560	92%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	B1	331	60% 39%
2	B2	331	61% 38%
2	B3	331	61% 39%
2	B4	331	62% 37%
2	B5	331	64% 35%
2	B6	331	59% 40%
2	B7	331	62% 38%
2	B8	331	60% 39%
2	B9	331	63% 36%
2	BA	331	60% 40%
2	BB	331	60% 39%
2	BC	331	62% 38%
2	BD	331	63% 36%
2	BE	331	63% 36%
2	BF	331	63% 37%
2	BG	331	60% 40%
2	BH	331	59% 40%
2	BI	331	62% 38%
2	BJ	331	64% 36%
2	BK	331	61% 38%
2	BL	331	62% 37%
2	BM	331	65% 35%
2	BN	331	62% 38%
2	BO	331	62% 37%
2	BP	331	59% 41%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	BQ	331	60% 40%
2	BR	331	59% 41%
2	BS	331	60% 40%
2	BT	331	61% 38%
2	BU	331	61% 39%
2	BV	331	62% 38%
2	BW	331	62% 37%
2	BX	331	63% 37%
2	BY	331	58% 41%
3	C1	334	52% 35% 13%
3	C2	334	50% 37% 13%
3	C3	334	51% 36% 13%
3	C4	334	49% 38% 13%
3	C5	334	52% 35% 13%
3	C6	334	50% 37% 13%
3	C7	334	50% 37% 13%
3	C8	334	52% 35% 13%
3	C9	334	50% 37% 13%
3	CA	334	51% 35% 13%
3	CB	334	51% 36% 13%
3	CC	334	51% 35% 13%
3	CD	334	50% 37% 13%
3	CE	334	51% 36% 13%
3	CF	334	50% 37% 13%
3	CG	334	51% 36% 13%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	CH	334	51% 35% 13%
3	CI	334	52% 35% 13%
3	CJ	334	51% 36% 13%
3	CK	334	53% 34% 13%
3	CL	334	52% 34% 13%
3	CM	334	50% 37% 13%
3	CN	334	52% 35% 13%
3	CO	334	53% 34% 13%
3	CP	334	51% 36% 13%
3	CQ	334	48% 39% 13%
3	CR	334	51% 36% 13%
3	CS	334	50% 37% 13%
3	CT	334	52% 35% 13%
3	CU	334	50% 37% 13%
3	CV	334	50% 37% 13%
3	CW	334	53% 34% 13%
3	CX	334	51% 36% 13%
3	CY	334	50% 37% 13%
4	D1	137	33% 26% 41%
4	D2	137	34% 25% 41%
4	D3	137	34% 26% 41%
4	D4	137	32% 27% 41%
4	D5	137	33% 26% 41%
4	D6	137	31% 28% 41%
4	D7	137	34% 26% 41%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	D8	137	32% 27% 41%
4	D9	137	31% 28% 41%
4	DA	137	33% 26% 41%
4	DB	137	34% 25% 41%
4	DC	137	32% 27% 41%
4	DD	137	31% 28% 41%
4	DE	137	31% 28% 41%
4	DF	137	33% 26% 41%
4	DG	137	34% 26% 41%
4	DH	137	34% 26% 41%
4	DI	137	32% 27% 41%
4	DJ	137	34% 26% 41%
4	DK	137	33% 26% 41%
4	DL	137	34% 26% 41%
4	DM	137	32% 27% 41%
4	DN	137	34% 25% 41%
4	DO	137	36% 23% 41%
4	DP	137	32% 27% 41%
4	DQ	137	33% 26% 41%
4	DR	137	31% 28% 41%
4	DS	137	33% 26% 41%
4	DT	137	32% 27% 41%
4	DU	137	34% 26% 41%
4	DV	137	34% 26% 41%
4	DW	137	31% 28% 41%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	DX	137	33% 26% 41%
4	DY	137	29% 30% 41%
4	E1	137	30% 28% 41%
4	E2	137	32% 26% 41%
4	E3	137	34% 25% 41%
4	E4	137	33% 26% 41%
4	E5	137	36% 23% 41%
4	E6	137	29% 29% 41%
4	E7	137	34% 24% 41%
4	E8	137	34% 25% 41%
4	E9	137	30% 28% 41%
4	EA	137	33% 26% 41%
4	EB	137	31% 26% 41%
4	EC	137	33% 26% 41%
4	ED	137	31% 27% 41%
4	EE	137	32% 26% 41%
4	EF	137	30% 28% 41%
4	EG	137	28% 31% 41%
4	EH	137	29% 29% 41%
4	EI	137	31% 27% 41%
4	EJ	137	34% 25% 41%
4	EK	137	33% 26% 41%
4	EL	137	33% 26% 41%
4	EM	137	31% 27% 41%
4	EN	137	31% 28% 41%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	EO	137	34% 24% 41%
4	EP	137	31% 28% 41%
4	EQ	137	32% 26% 41%
4	ER	137	30% 28% 41%
4	ES	137	31% 28% 41%
4	ET	137	34% 25% 41%
4	EU	137	31% 27% 41%
4	EV	137	34% 25% 41%
4	EW	137	35% 23% 41%
4	EX	137	29% 29% 41%
4	EY	137	31% 27% 41%
4	F1	137	28% 31% 41%
4	F2	137	28% 31% 41%
4	F3	137	31% 28% 41%
4	F4	137	28% 31% 41%
4	F5	137	29% 30% 41%
4	F6	137	29% 30% 41%
4	F7	137	33% 26% 41%
4	F8	137	27% 32% 41%
4	F9	137	31% 28% 41%
4	FA	137	28% 31% 41%
4	FB	137	29% 30% 41%
4	FC	137	29% 30% 41%
4	FD	137	28% 31% 41%
4	FE	137	26% 33% 41%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	FF	137	28% 31% 41%
4	FG	137	28% 31% 41%
4	FH	137	27% 32% 41%
4	FI	137	31% 28% 41%
4	FJ	137	30% 29% 41%
4	FK	137	28% 31% 41%
4	FL	137	31% 28% 41%
4	FM	137	28% 31% 41%
4	FN	137	30% 29% 41%
4	FO	137	29% 30% 41%
4	FP	137	28% 31% 41%
4	FQ	137	29% 30% 41%
4	FR	137	27% 32% 41%
4	FS	137	28% 31% 41%
4	FT	137	29% 30% 41%
4	FU	137	28% 31% 41%
4	FV	137	27% 32% 41%
4	FW	137	28% 31% 41%
4	FX	137	28% 31% 41%
4	FY	137	28% 31% 41%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 244834 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 M-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A2	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A3	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A4	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A5	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A6	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A7	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A8	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	A9	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AA	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AB	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AC	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AD	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AE	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AF	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AG	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AH	47	Total	C	N	O	S	0	0
			393	233	81	76	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AI	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AJ	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AK	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AL	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AM	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AN	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AO	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AP	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AQ	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AR	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AS	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AT	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AU	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AV	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AW	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AX	47	Total	C	N	O	S	0	0
			393	233	81	76	3		
1	AY	47	Total	C	N	O	S	0	0
			393	233	81	76	3		

- Molecule 2 is a protein called Flagellar motor switch protein FliG.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B2	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B3	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B4	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B5	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B6	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B7	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B8	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	B9	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BA	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BB	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BC	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BD	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BE	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BF	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BG	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BH	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BI	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BJ	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BK	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BL	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BM	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BN	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
2	BO	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BP	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BQ	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BR	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BS	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BT	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BU	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BV	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BW	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BX	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		
2	BY	331	Total	C	N	O	S	0	0
			2583	1605	455	513	10		

- Molecule 3 is a protein called Flagellar motor switch protein FliM.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C2	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C3	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C4	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C5	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C6	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C7	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	C8	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C9	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CA	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CB	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CC	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CD	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CE	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CF	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CG	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CH	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CI	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CJ	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CK	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CL	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CM	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CN	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CO	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CP	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CQ	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CR	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CS	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CT	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
3	CU	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CV	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CW	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CX	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		
3	CY	290	Total	C	N	O	S	0	0
			2348	1497	424	422	5		

- Molecule 4 is a protein called Flagellar motor switch protein FliN.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E1	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F1	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D2	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E2	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F2	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D3	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E3	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F3	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D4	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E4	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F4	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D5	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E5	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F5	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D6	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E6	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F6	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D7	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E7	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F7	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D8	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E8	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F8	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	D9	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	E9	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	F9	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DA	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EA	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FA	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DB	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EB	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FB	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DC	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EC	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	FC	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DD	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	ED	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FD	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DE	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EE	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FE	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DF	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EF	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FF	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DG	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EG	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FG	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DH	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EH	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FH	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DI	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EI	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FI	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DJ	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EJ	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	FJ	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DK	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EK	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FK	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DL	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EL	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FL	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DM	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EM	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FM	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DN	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EN	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FN	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DO	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EO	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FO	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DP	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EP	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FP	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DQ	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EQ	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	FQ	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DR	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	ER	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FR	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DS	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	ES	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FS	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DT	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	ET	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FT	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DU	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EU	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FU	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DV	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EV	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FV	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DW	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EW	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FW	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DX	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EX	81	Total	C	N	O	S	0	0
			625	398	108	116	3		

Continued on next page...

Continued from previous page...

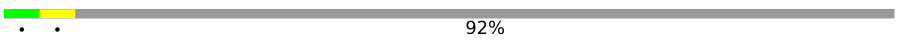
Mol	Chain	Residues	Atoms					AltConf	Trace
4	FX	81	Total	C	N	O	S	0	0
			627	397	111	116	3		
4	DY	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	EY	81	Total	C	N	O	S	0	0
			625	398	108	116	3		
4	FY	81	Total	C	N	O	S	0	0
			627	397	111	116	3		

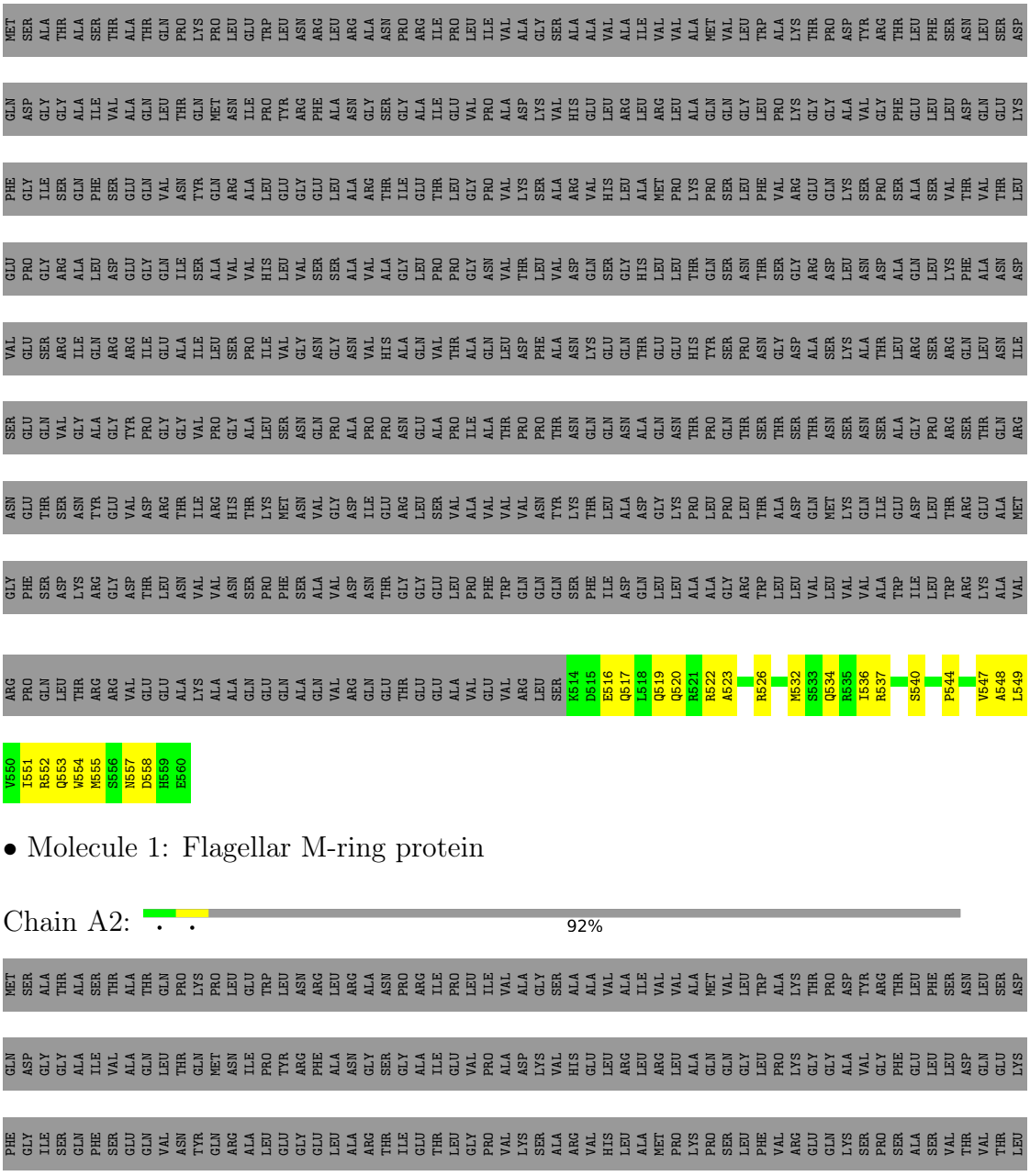
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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 M-ring protein

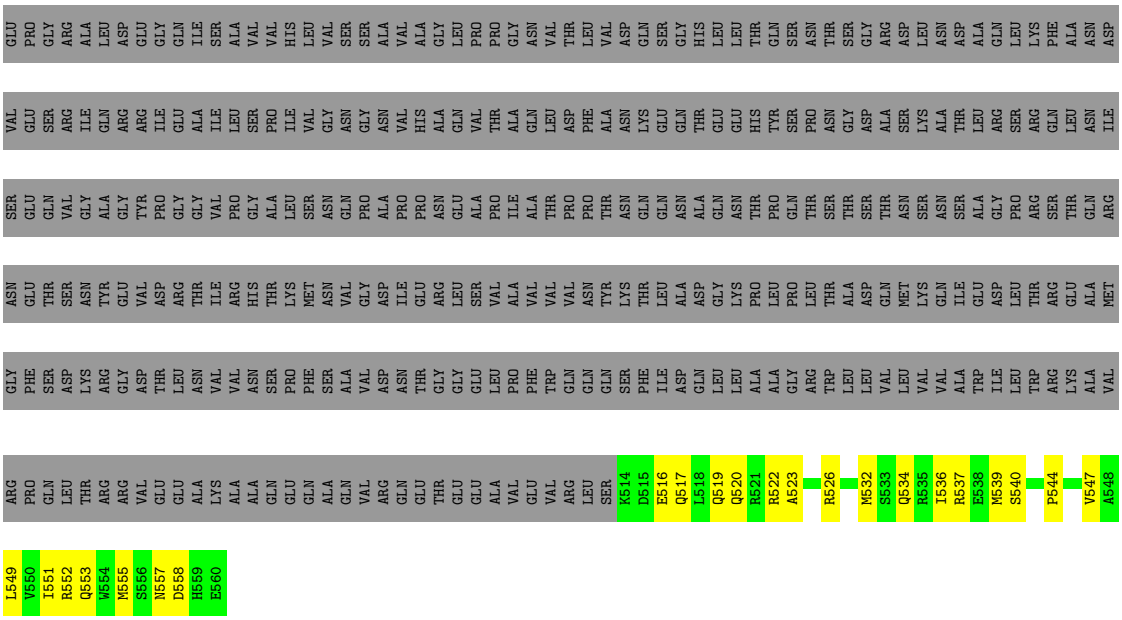
Chain A1:





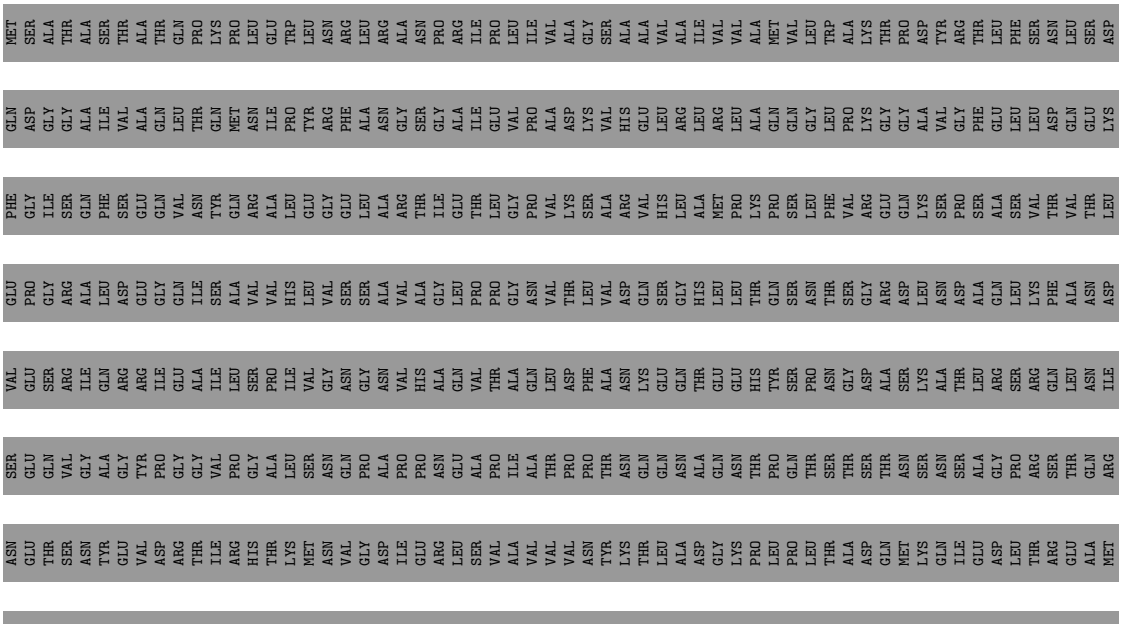
- Molecule 1: Flagellar M-ring protein

Chain A2:



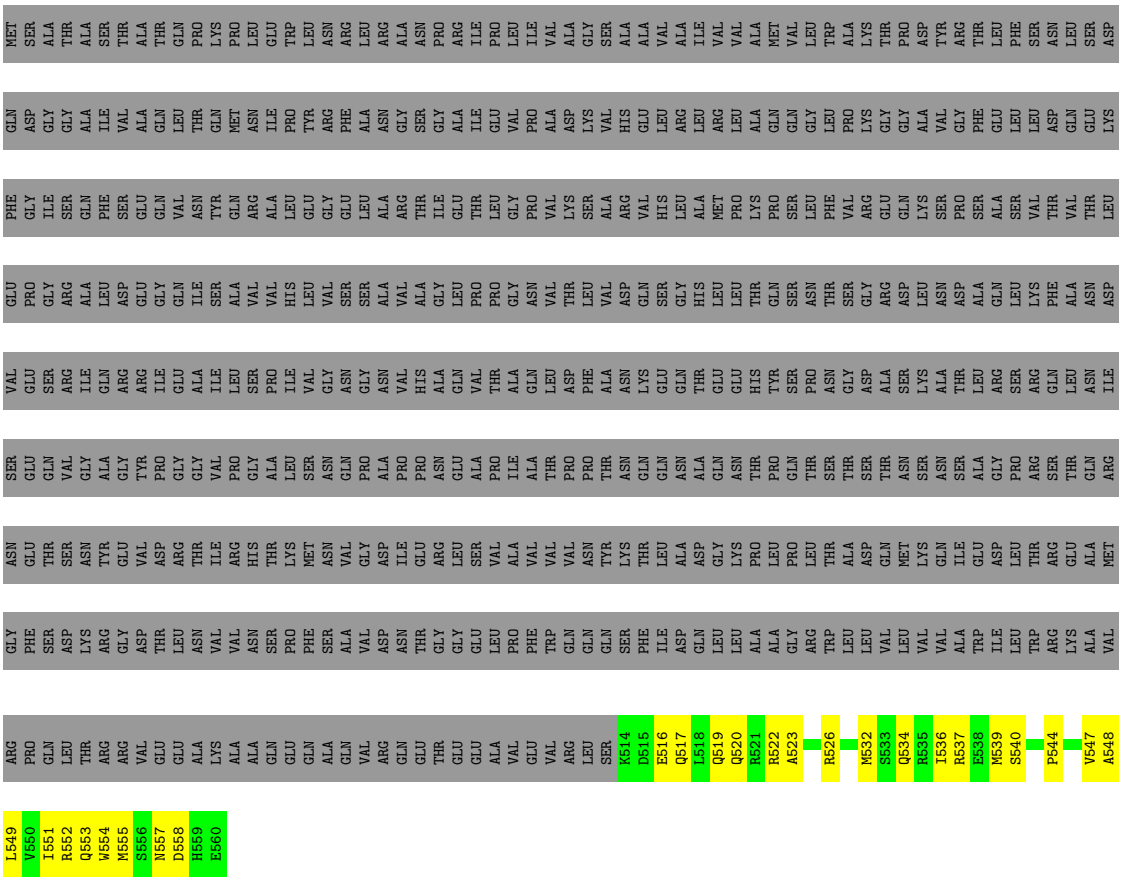
• Molecule 1: Flagellar M-ring protein

Chain A3:



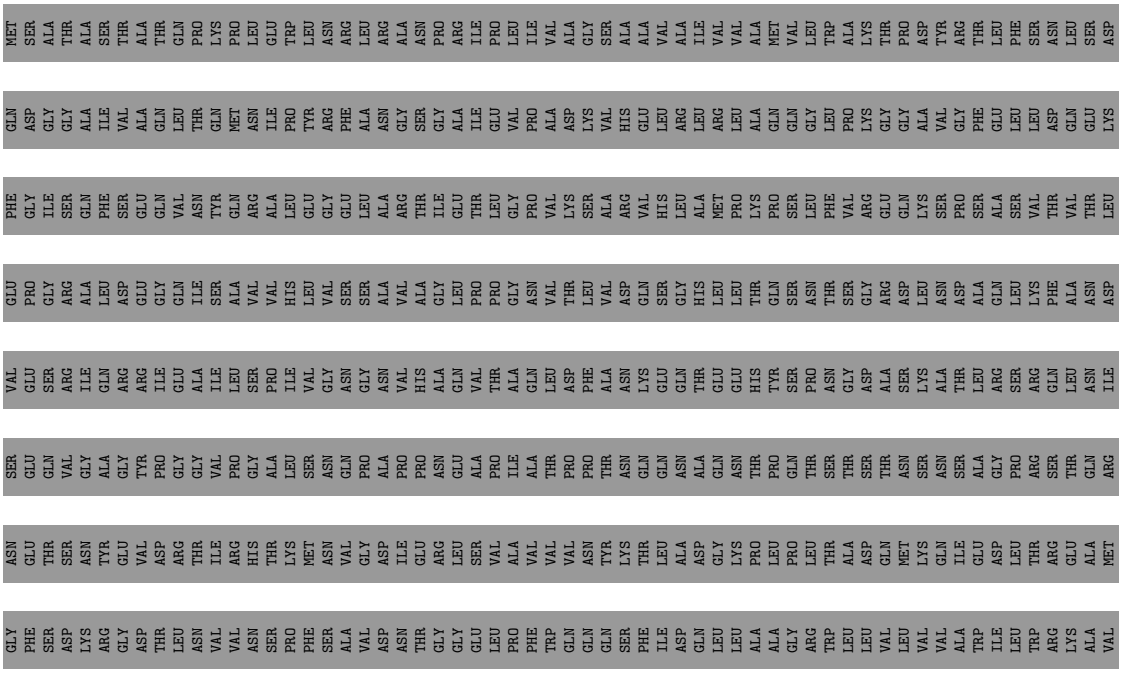
• Molecule 1: Flagellar M-ring protein

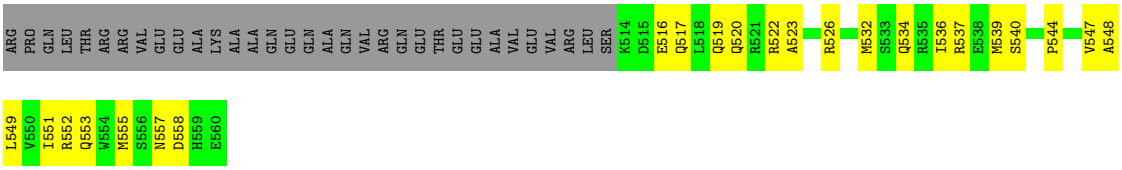
Chain A4:



• Molecule 1: Flagellar M-ring protein

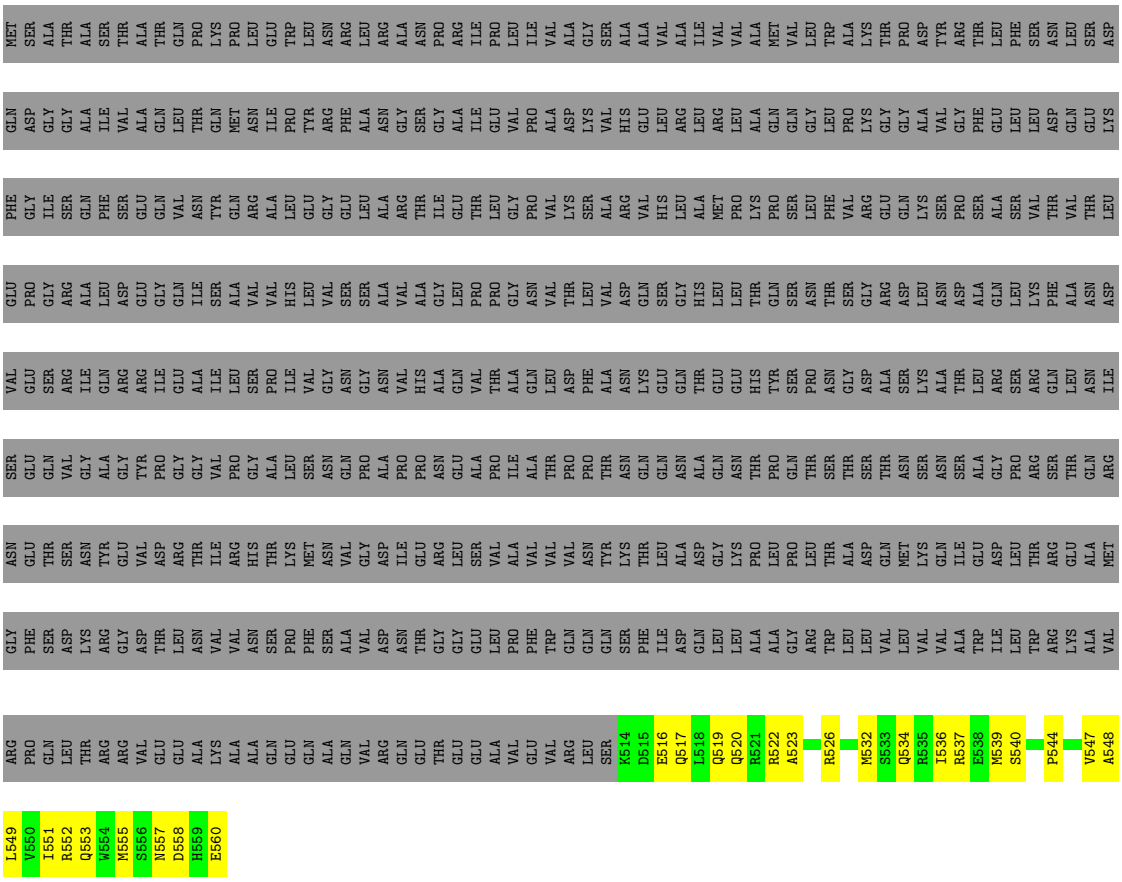
Chain A5: 92%





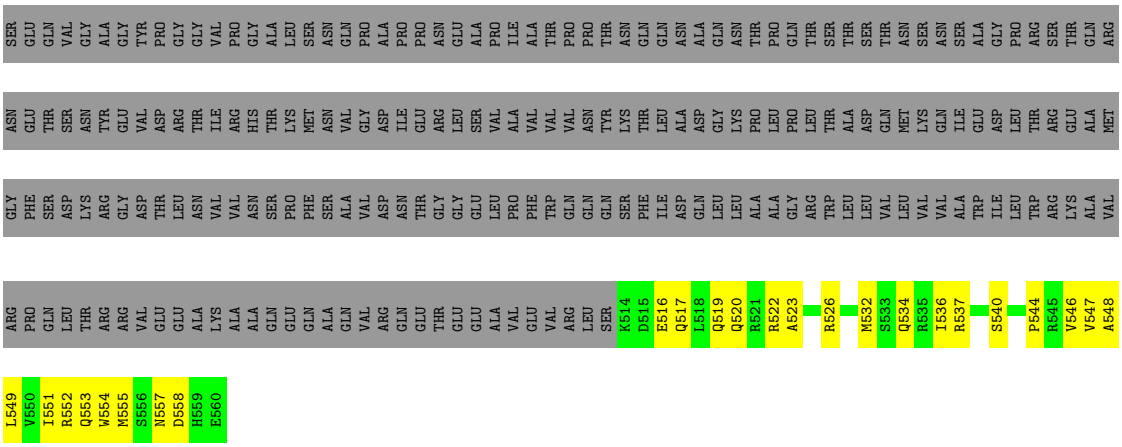
• Molecule 1: Flagellar M-ring protein

Chain A6:



• Molecule 1: Flagellar M-ring protein

Chain A7:

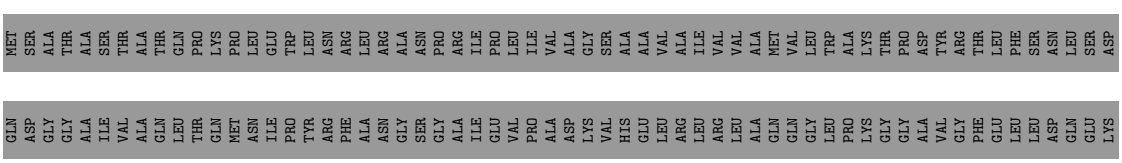


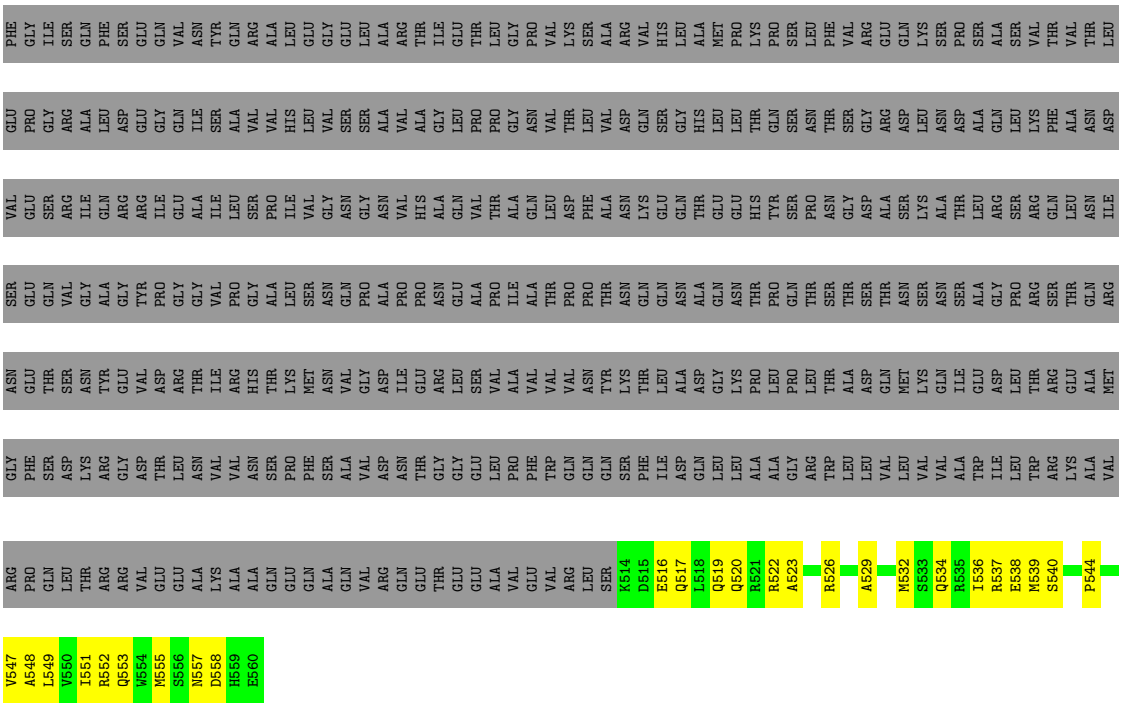
• Molecule 1: Flagellar M-ring protein

Chain A8: 92%

• Molecule 1: Flagellar M-ring protein

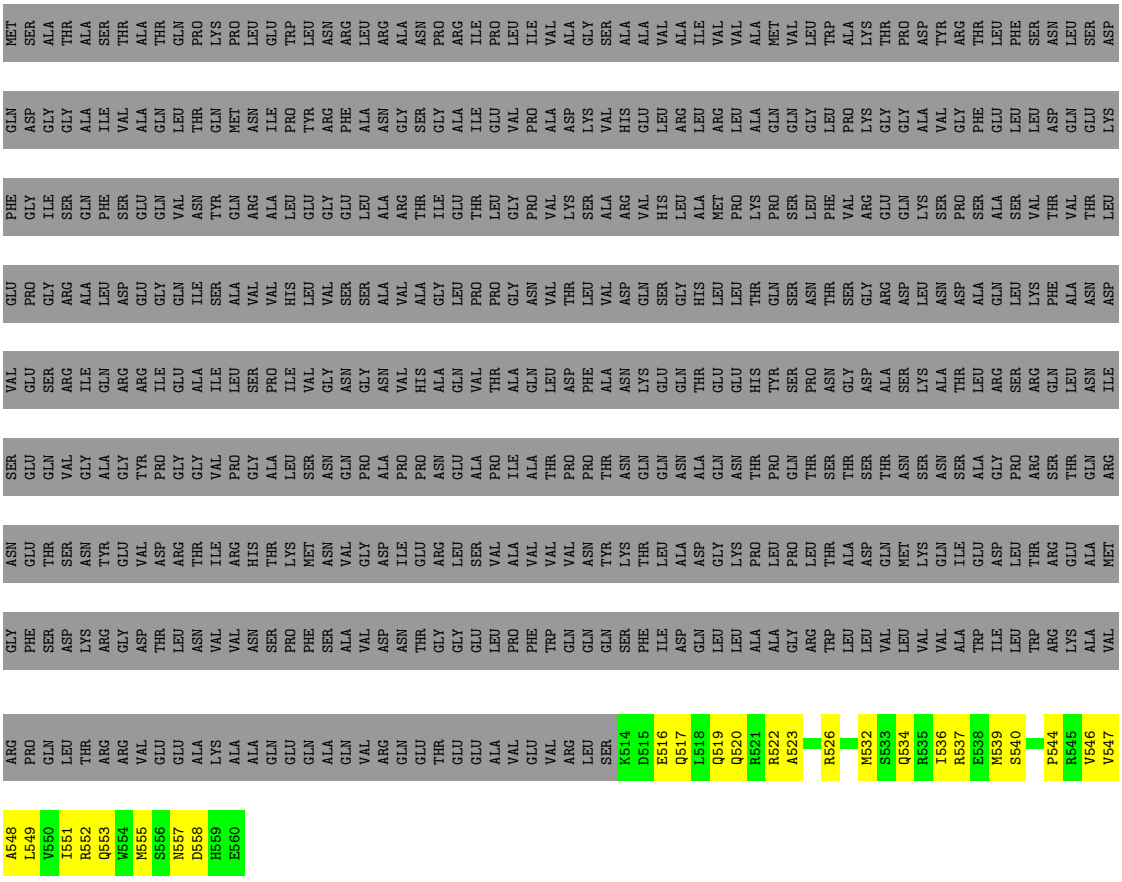
Chain A9: 92%





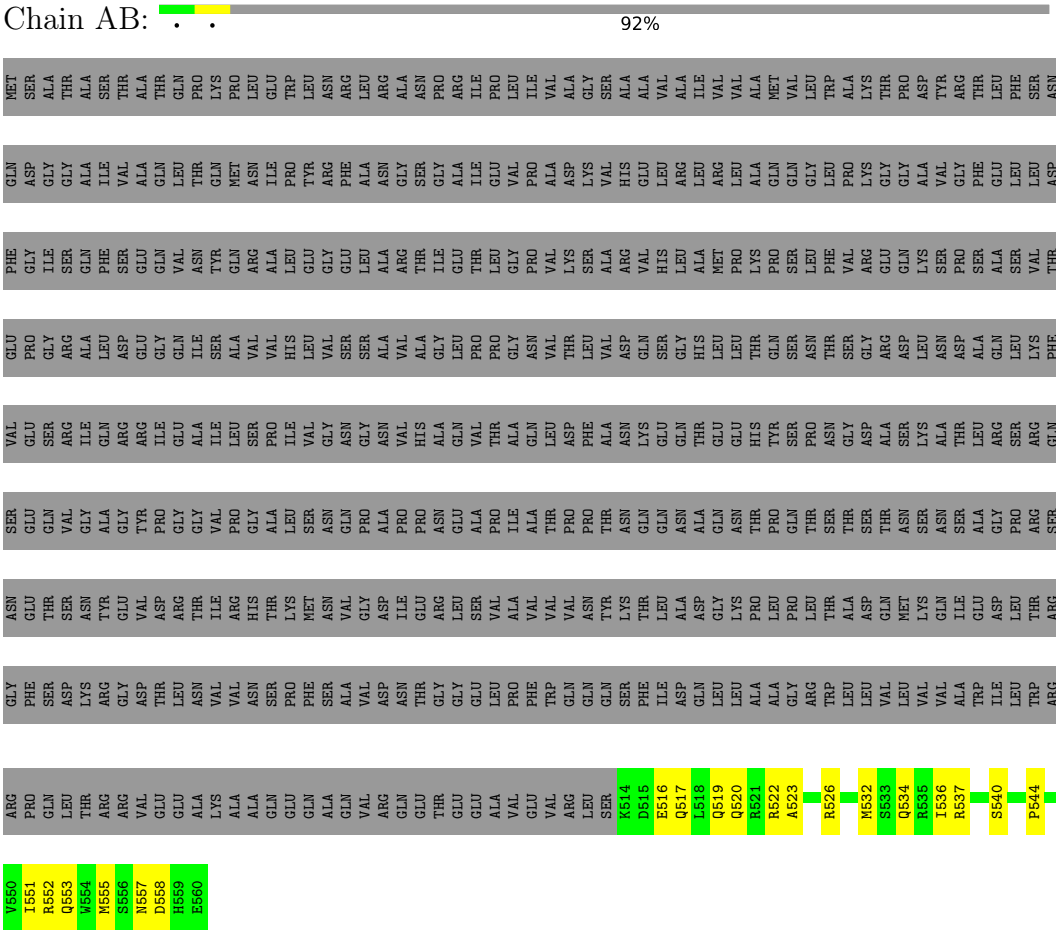
• Molecule 1: Flagellar M-ring protein

Chain AA: 92%



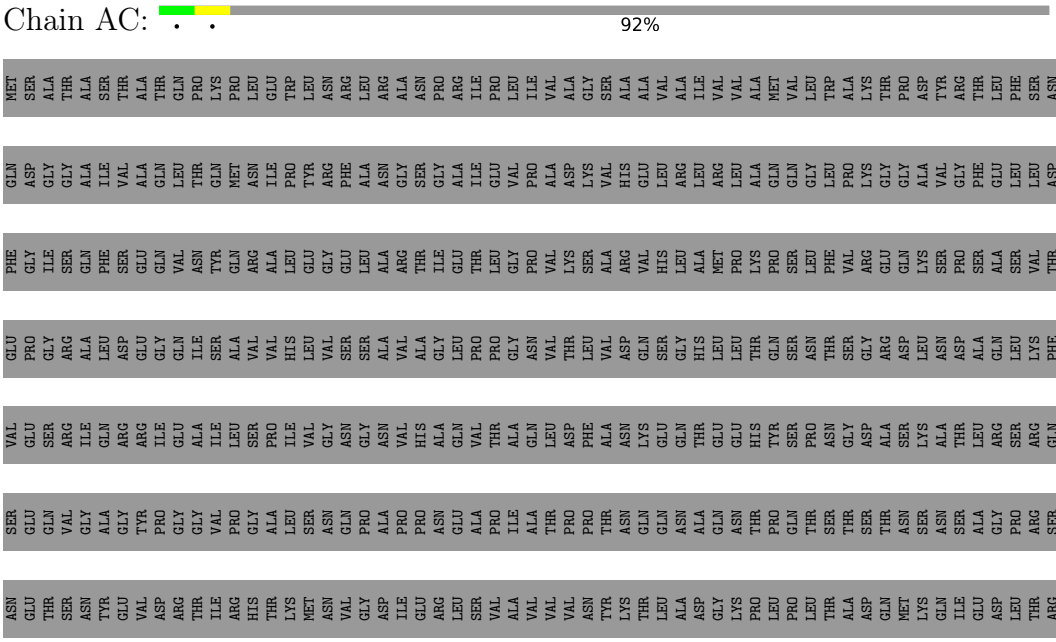
• Molecule 1: Flagellar M-ring protein

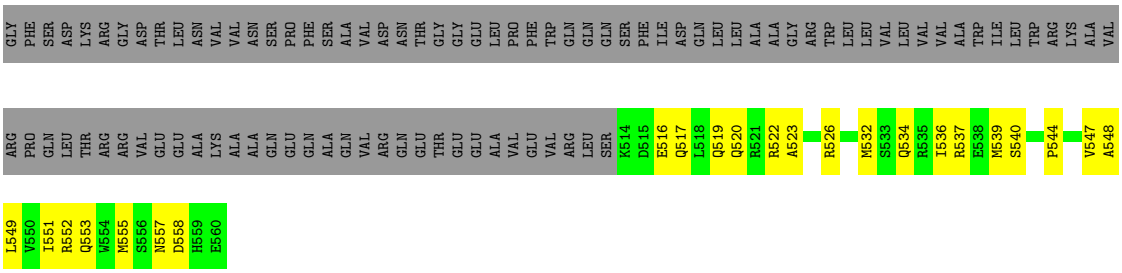
Chain AB:



• Molecule 1: Flagellar M-ring protein

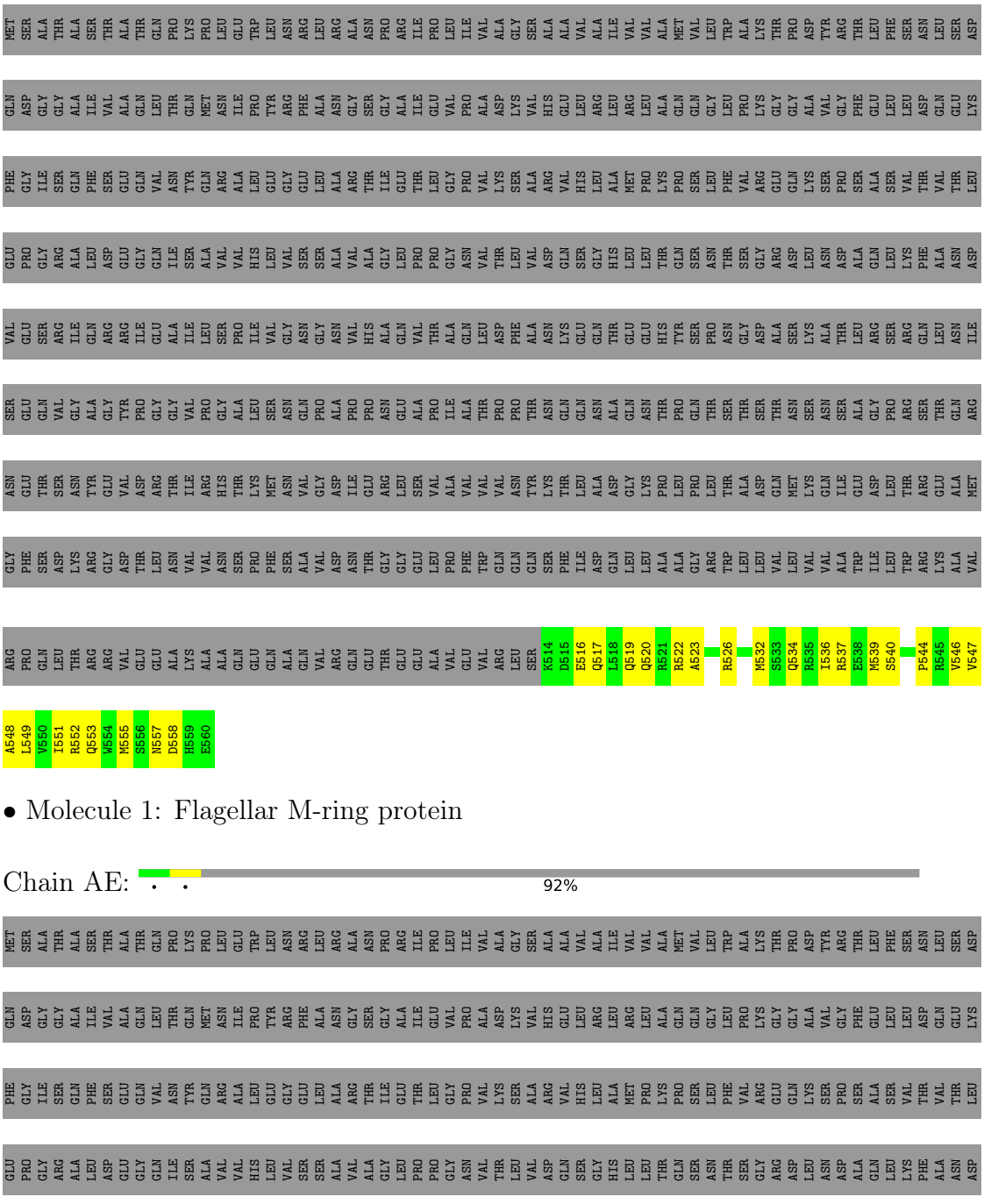
Chain AC:





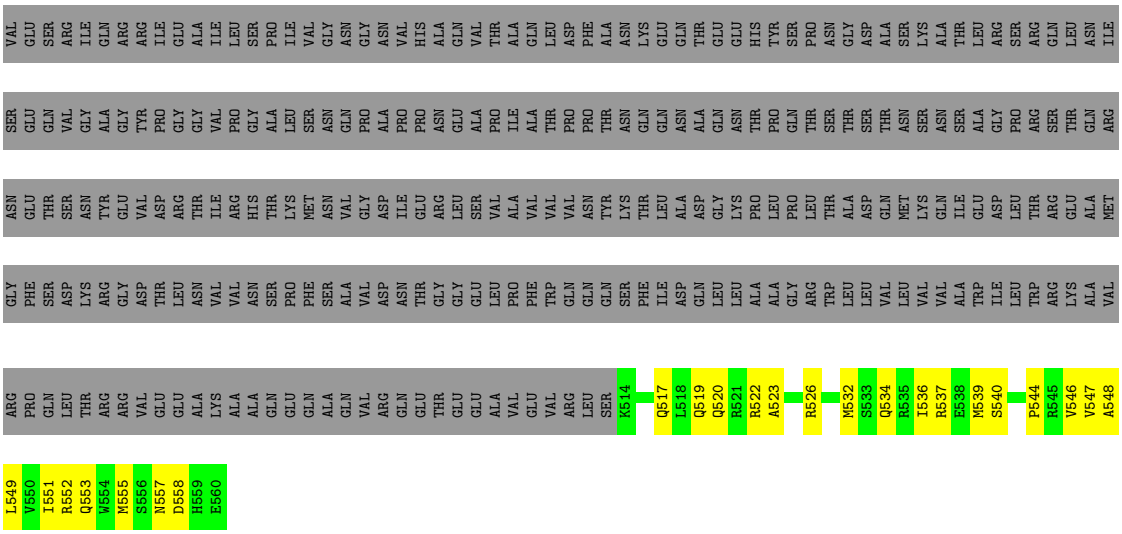
• Molecule 1: Flagellar M-ring protein

Chain AD: 92%



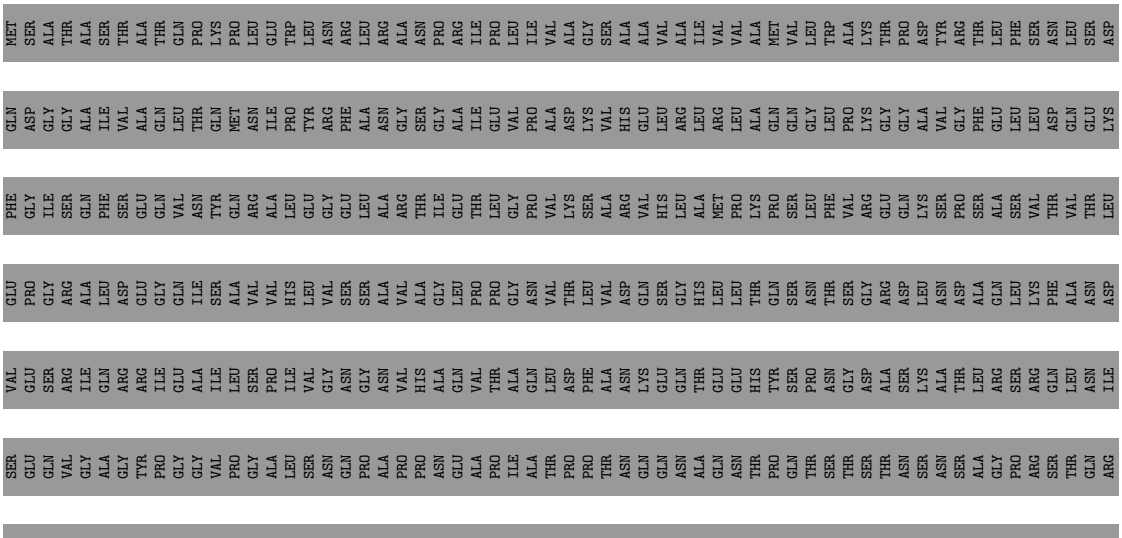
• Molecule 1: Flagellar M-ring protein

Chain AE: 92%



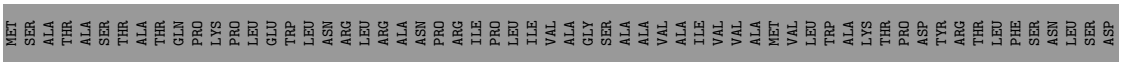
• Molecule 1: Flagellar M-ring protein

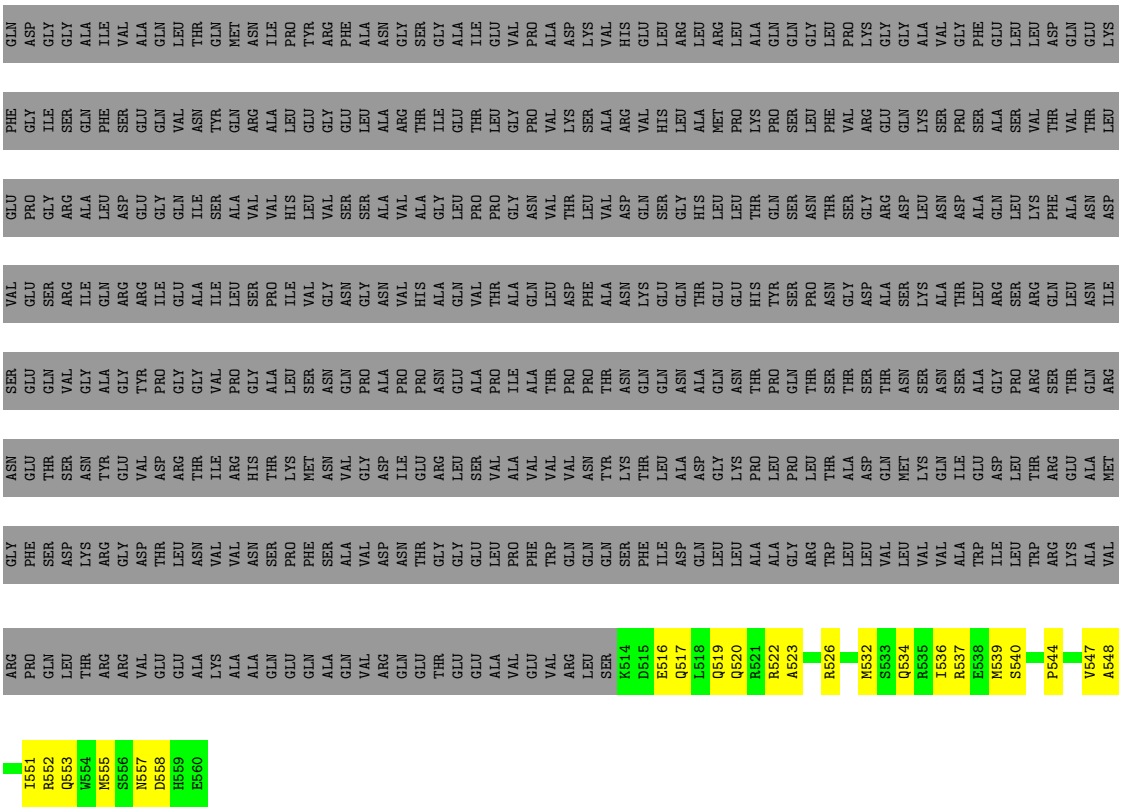
Chain AF: 92%



• Molecule 1: Flagellar M-ring protein

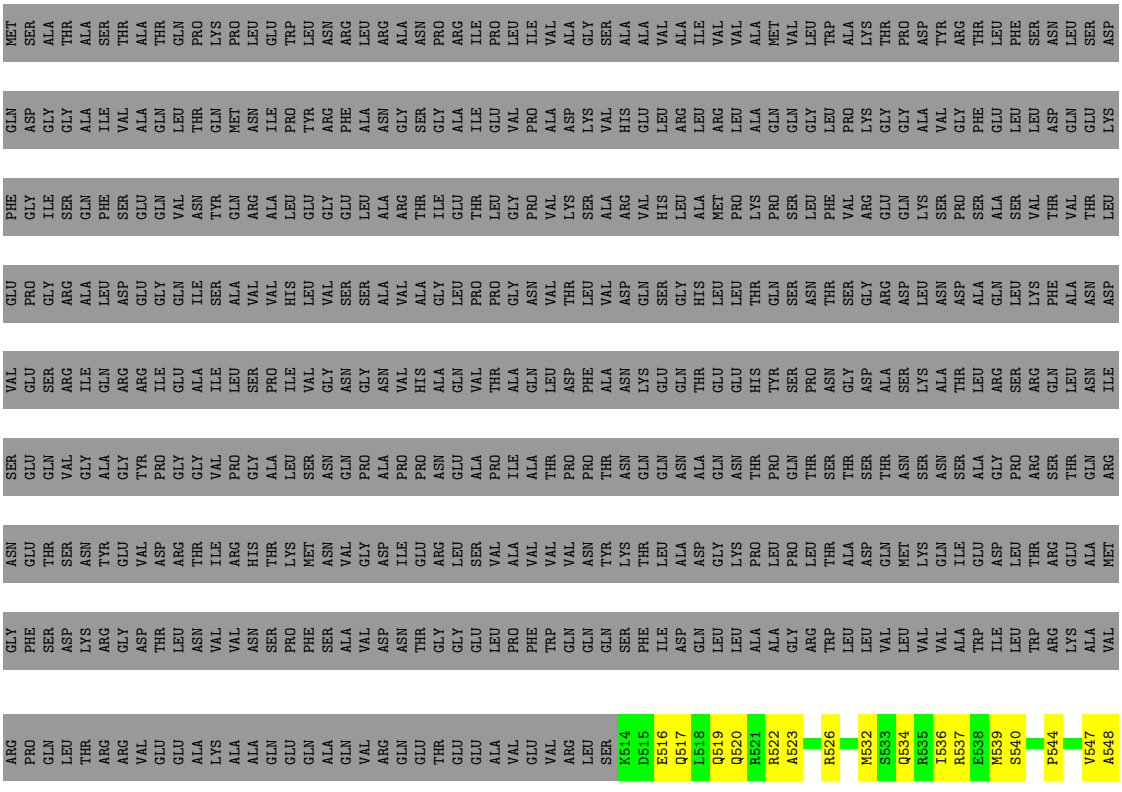
Chain AG: 92%





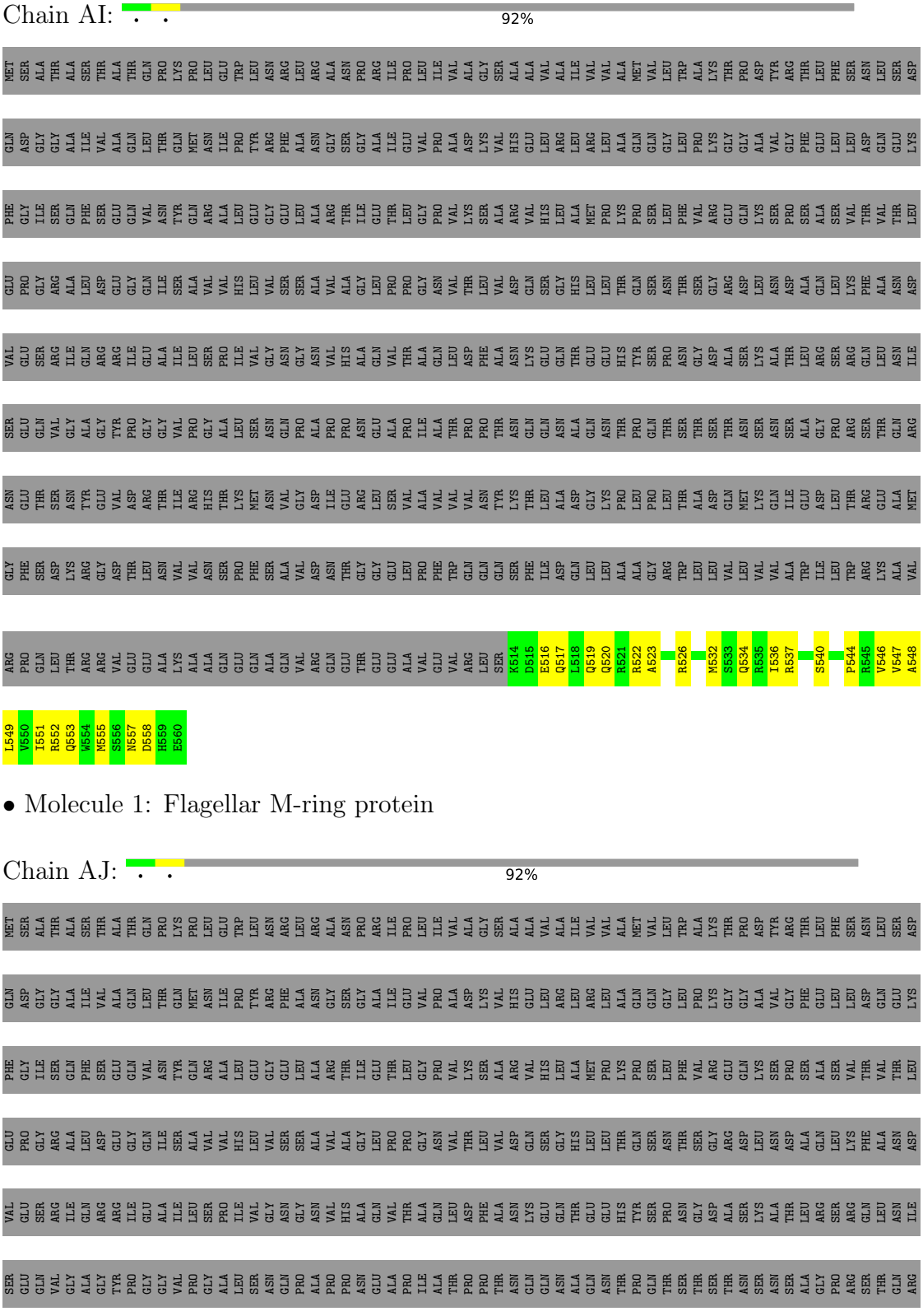
• Molecule 1: Flagellar M-ring protein

Chain AH: 92%



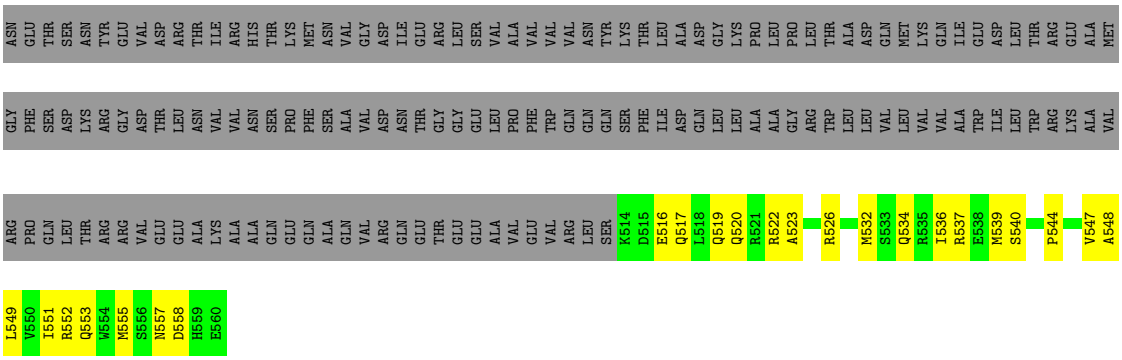
• Molecule 1: Flagellar M-ring protein

Chain AI:



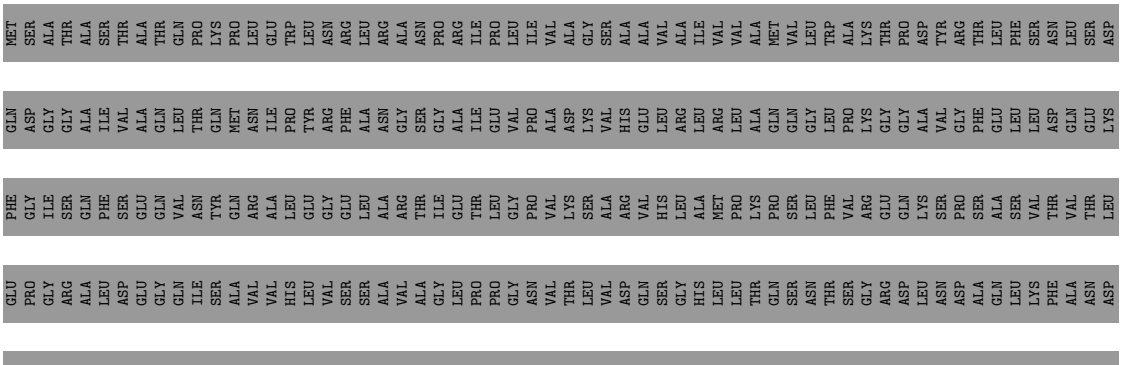
• Molecule 1: Flagellar M-ring protein

Chain AJ:



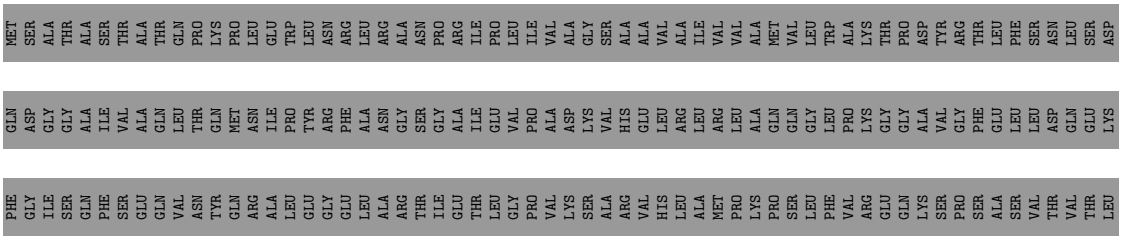
• Molecule 1: Flagellar M-ring protein

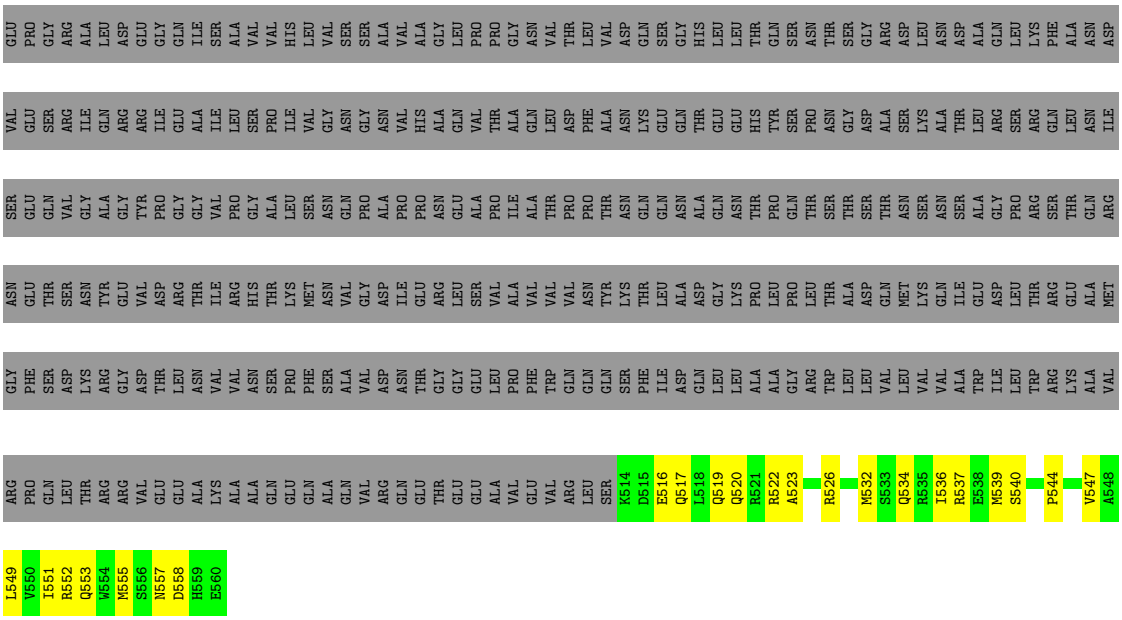
Chain AK: 92%



• Molecule 1: Flagellar M-ring protein

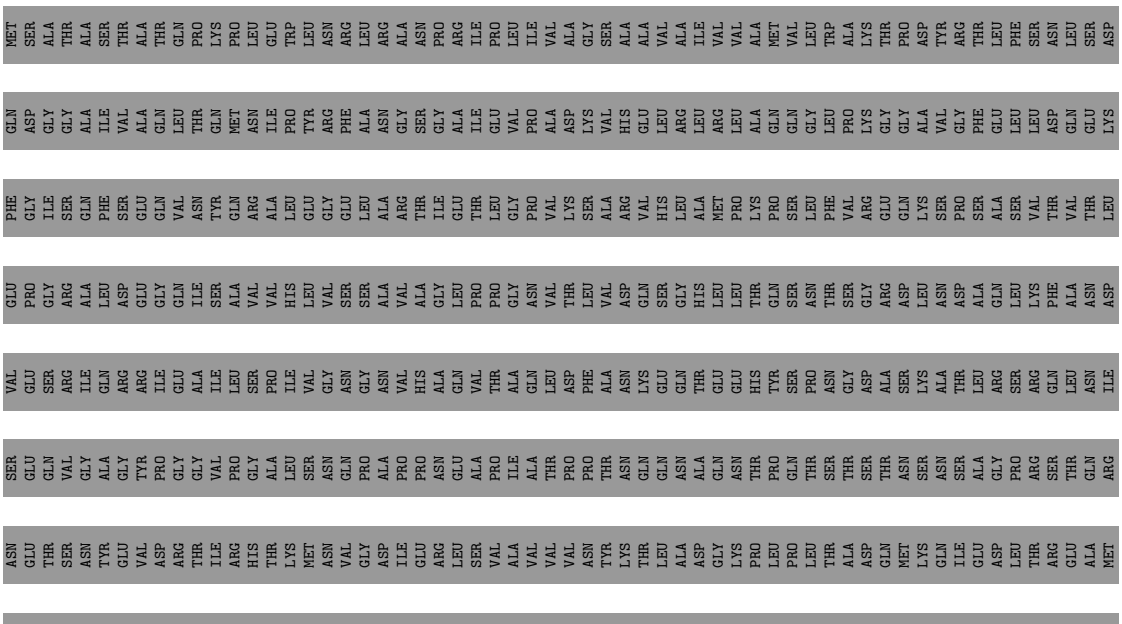
Chain AL: 92%





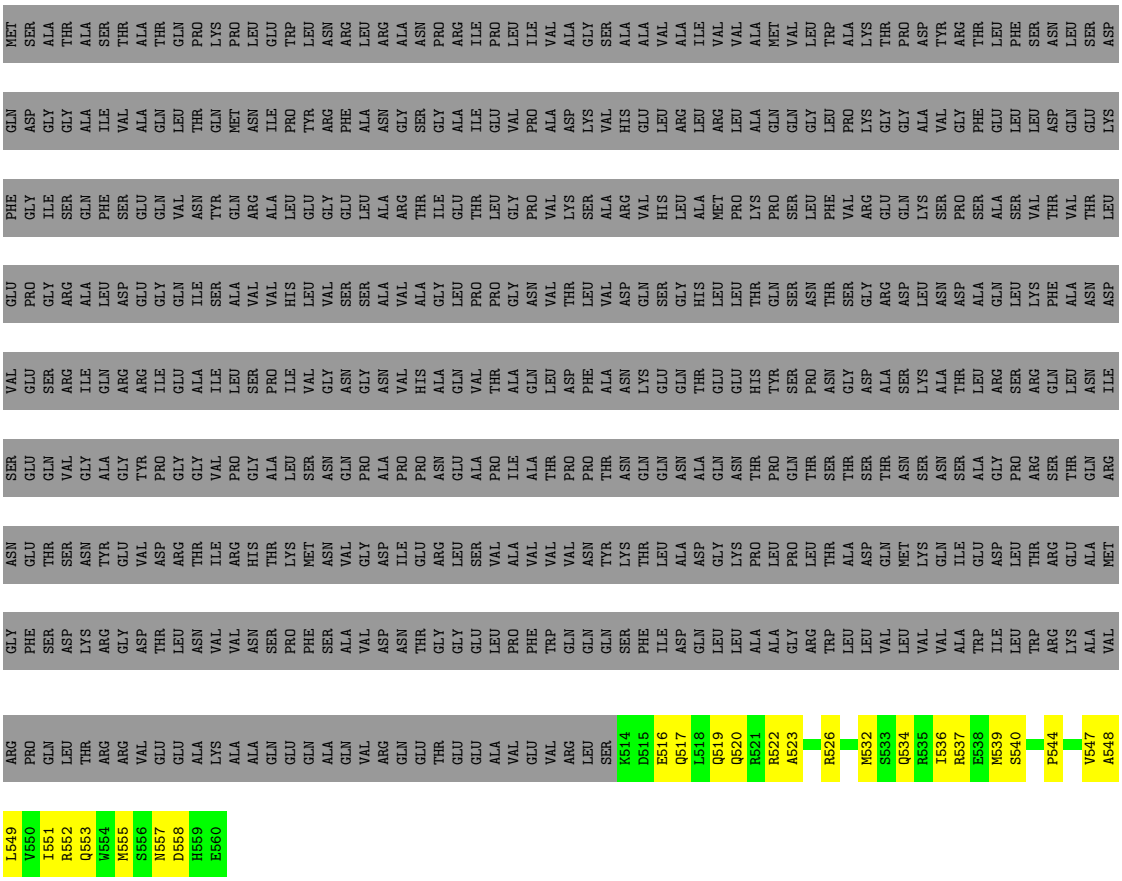
• Molecule 1: Flagellar M-ring protein

Chain AM: 92%



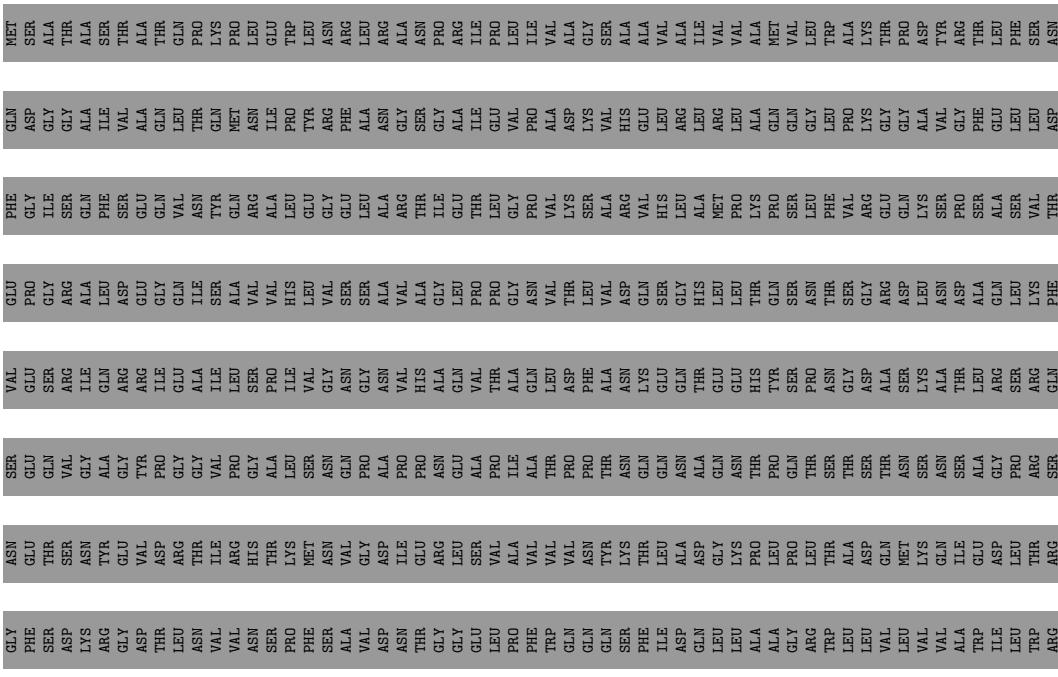
• Molecule 1: Flagellar M-ring protein

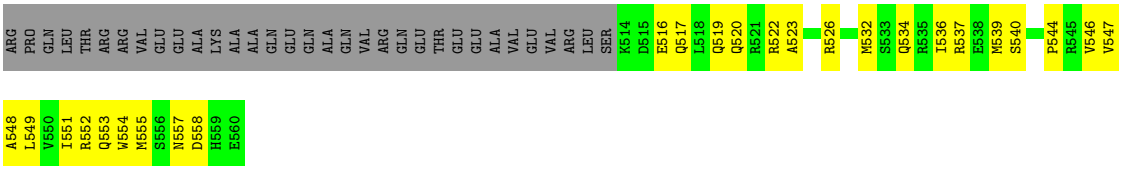
Chain AN: 92%



• Molecule 1: Flagellar M-ring protein

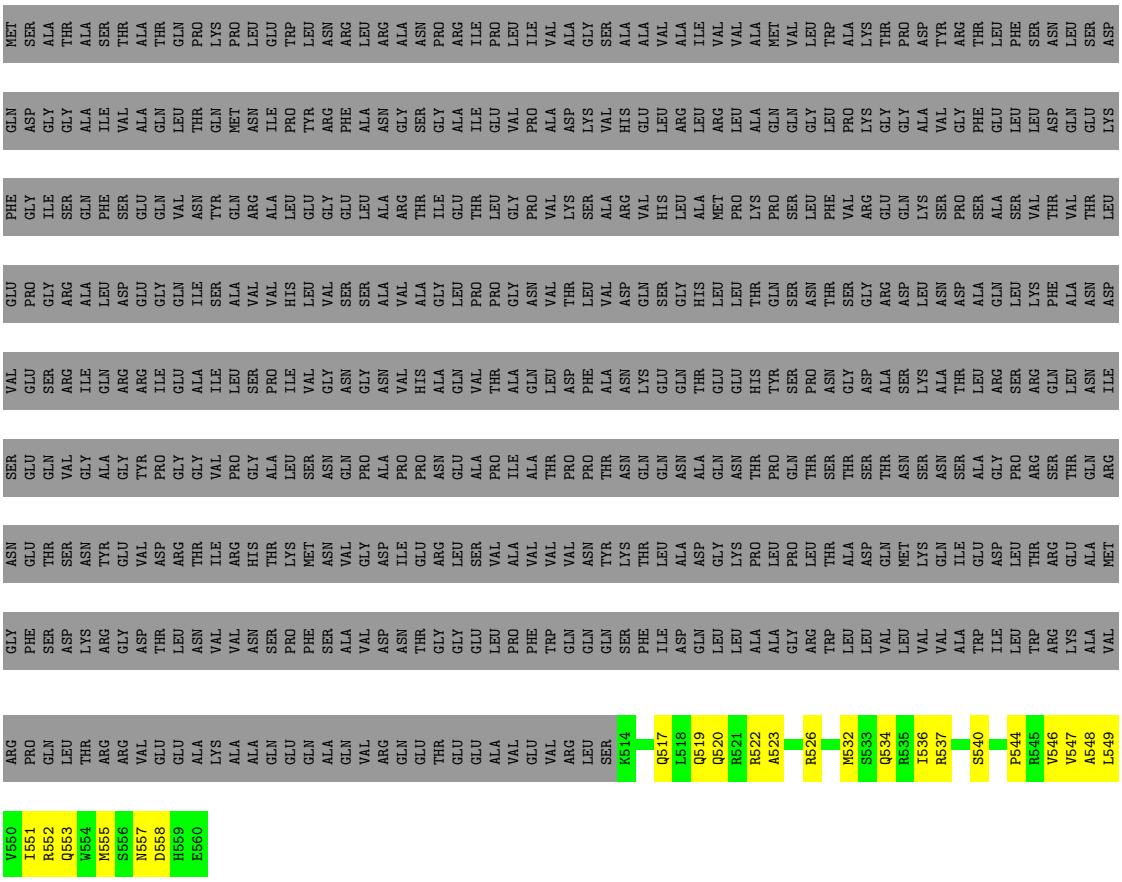
Chain AO: 92%





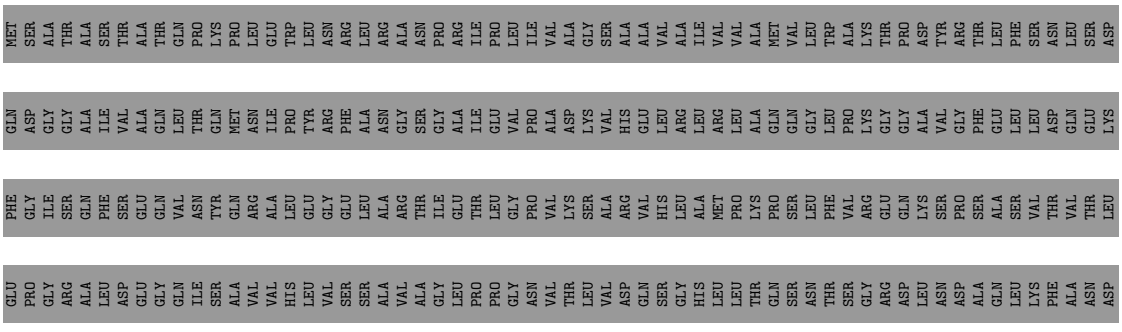
• Molecule 1: Flagellar M-ring protein

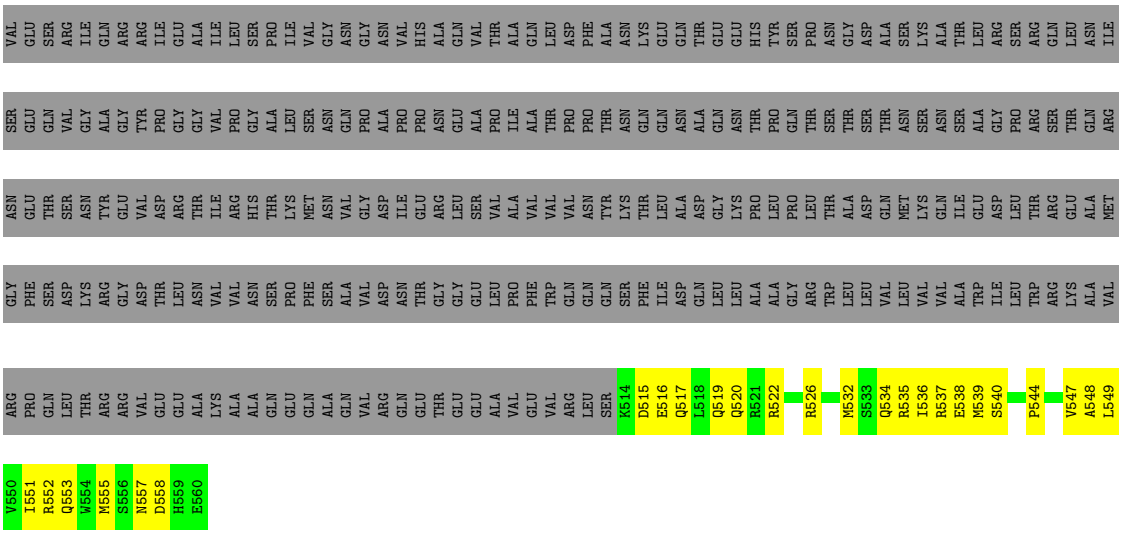
Chain AP: 92%



• Molecule 1: Flagellar M-ring protein

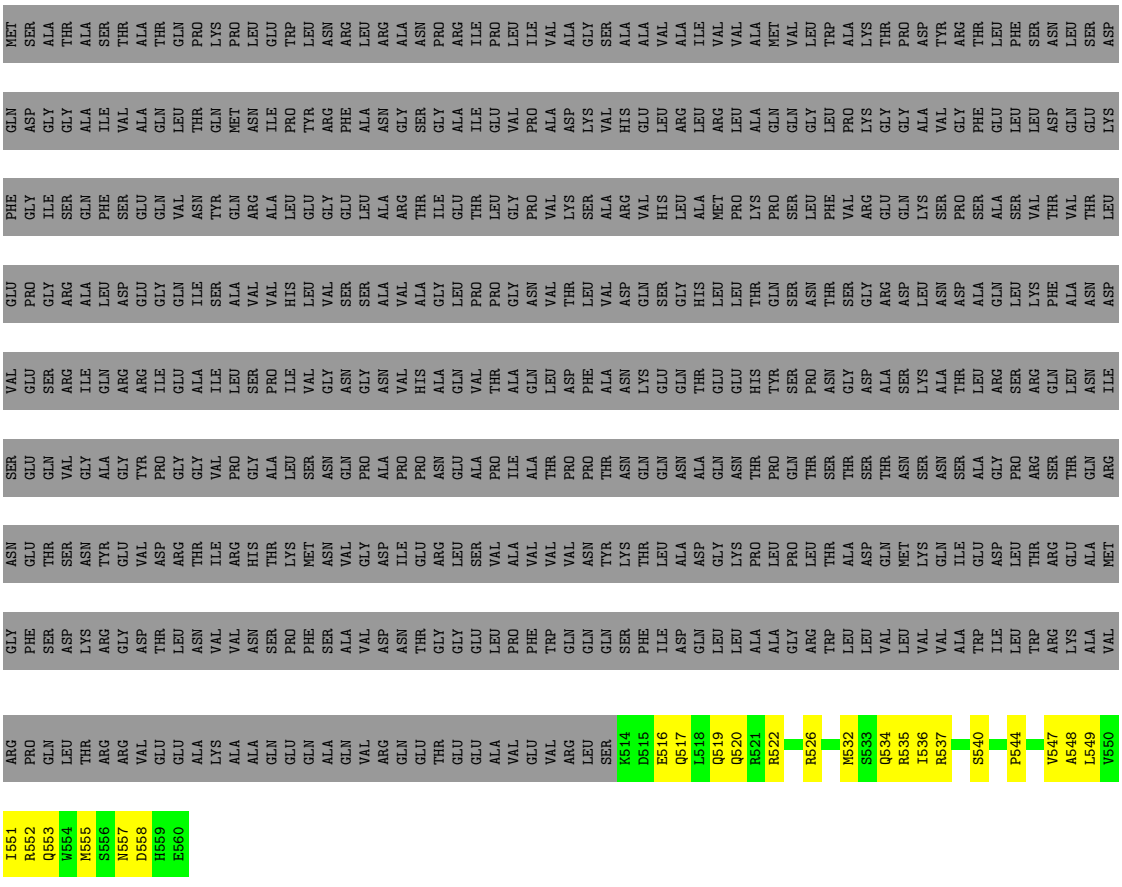
Chain AQ: 92%





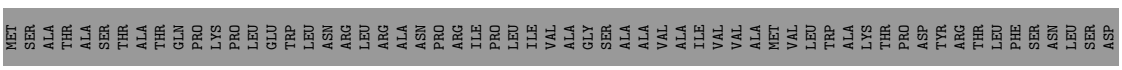
• Molecule 1: Flagellar M-ring protein

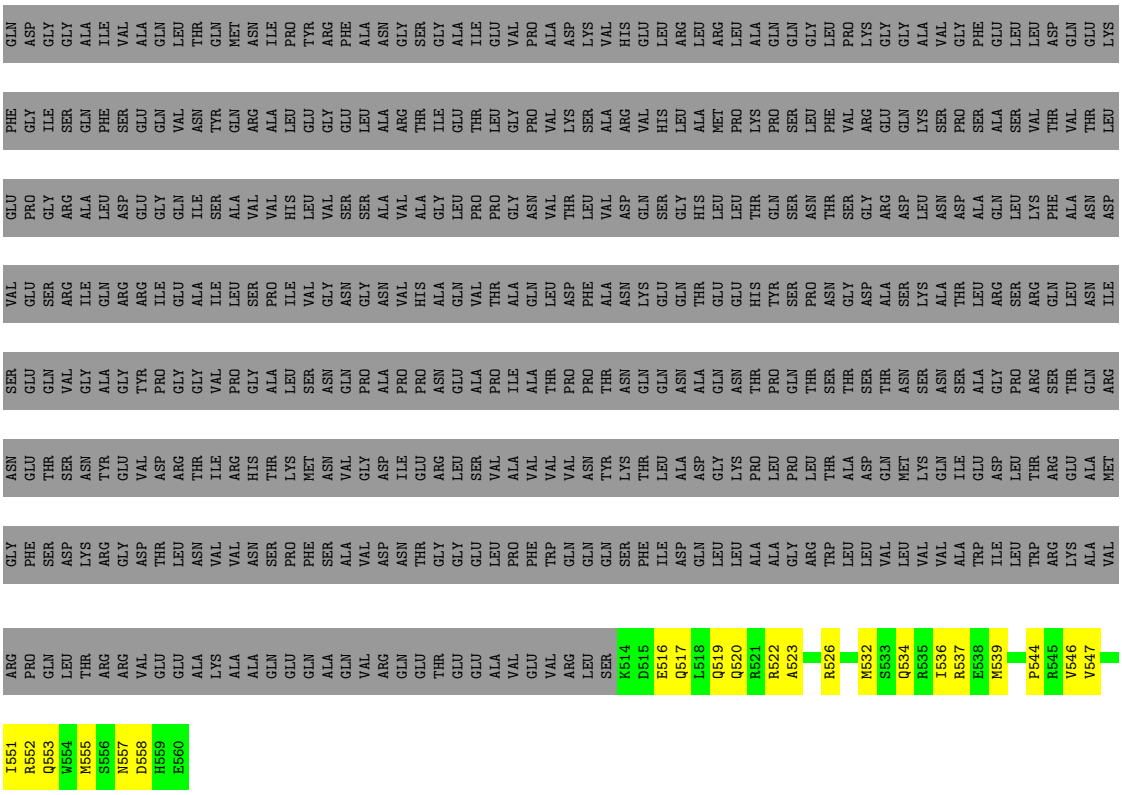
Chain AR:



• Molecule 1: Flagellar M-ring protein

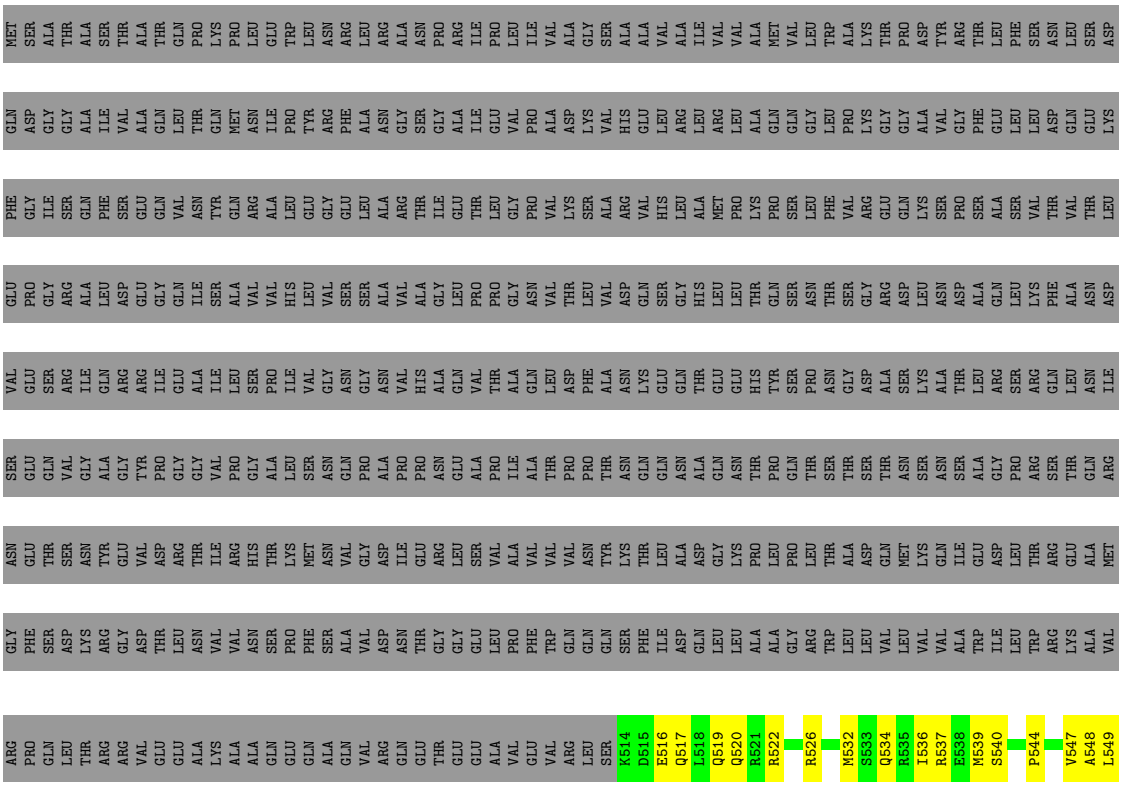
Chain AS:





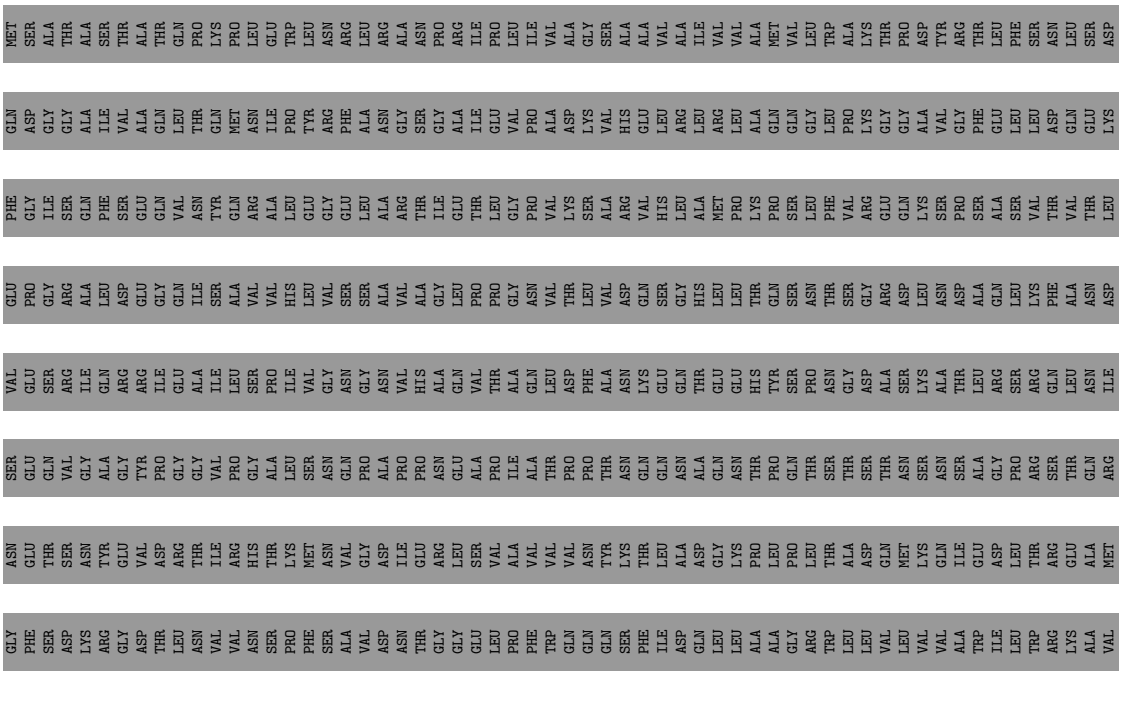
• Molecule 1: Flagellar M-ring protein

Chain AT: 92%



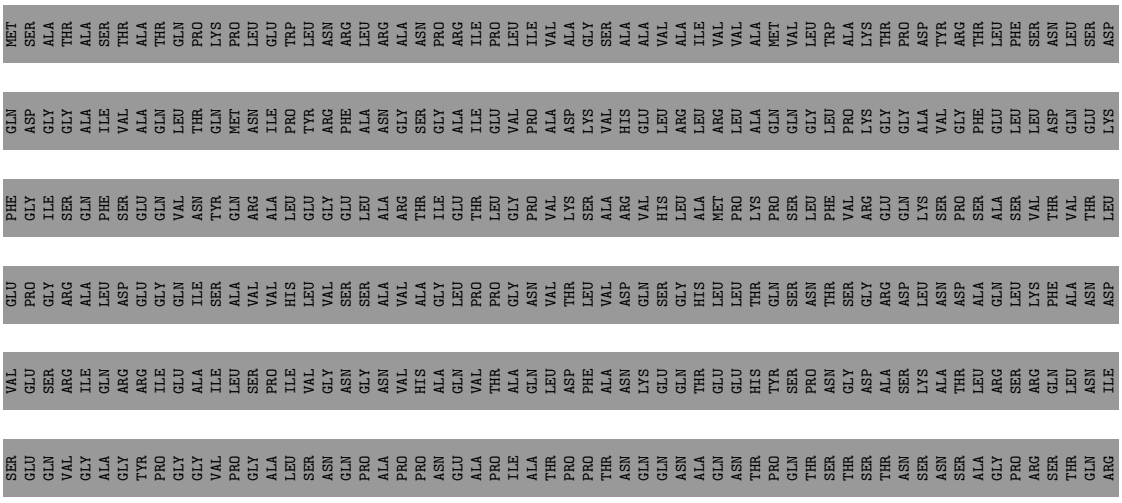
• Molecule 1: Flagellar M-ring protein

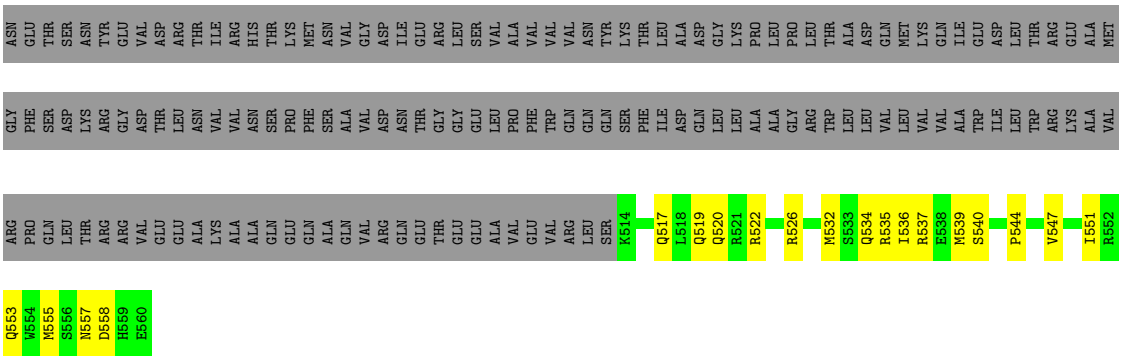
Chain AU:



• Molecule 1: Flagellar M-ring protein

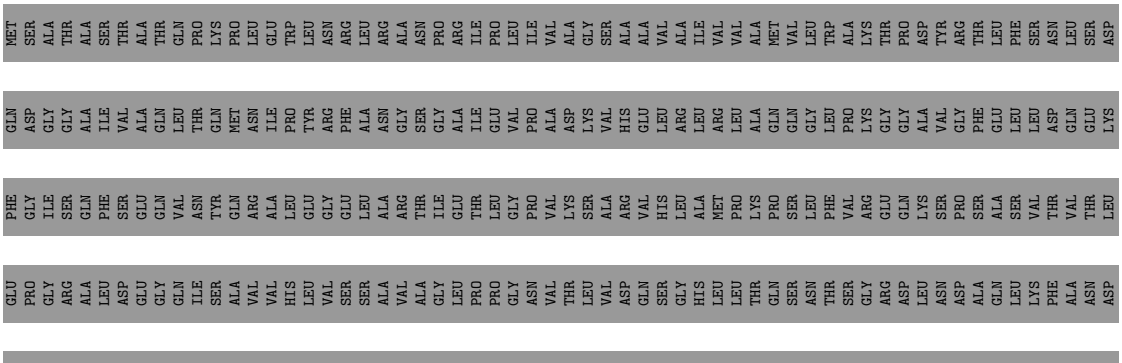
Chain AV:





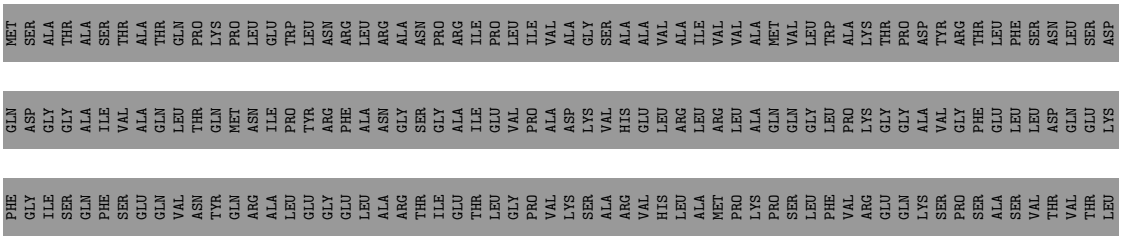
• Molecule 1: Flagellar M-ring protein

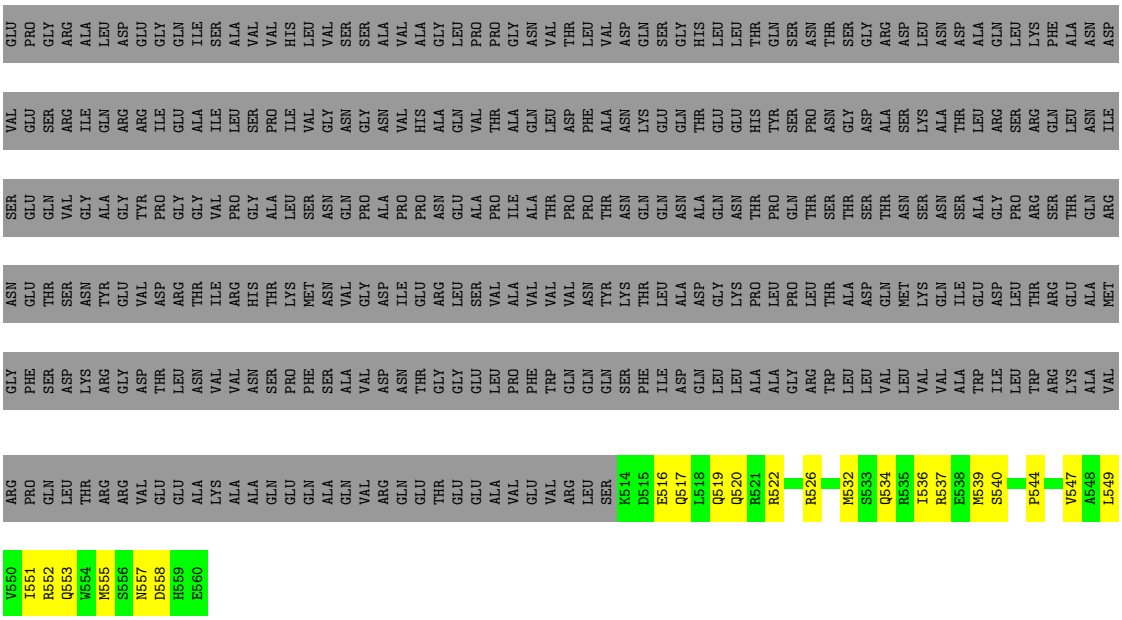
Chain AW: 92%



• Molecule 1: Flagellar M-ring protein

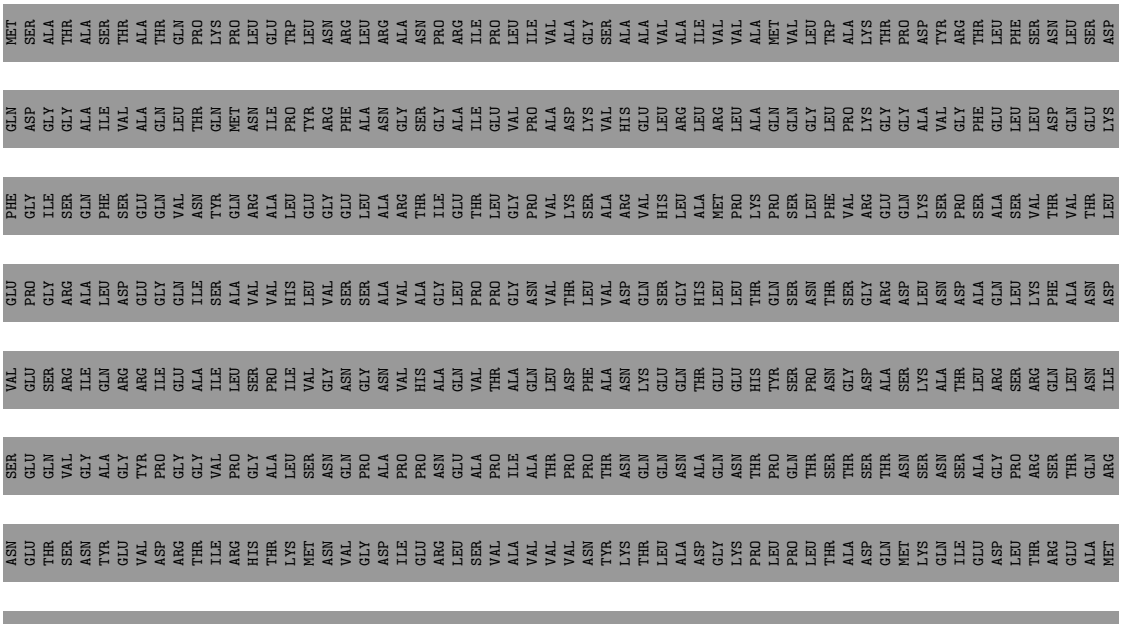
Chain AX: 5% 92%





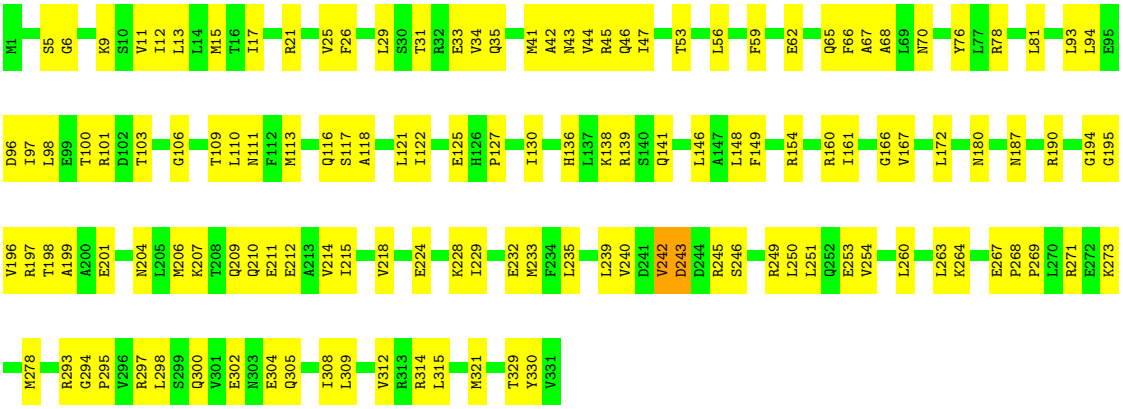
• Molecule 1: Flagellar M-ring protein

Chain AY:



• Molecule 2: Flagellar motor switch protein FliG

Chain B1:

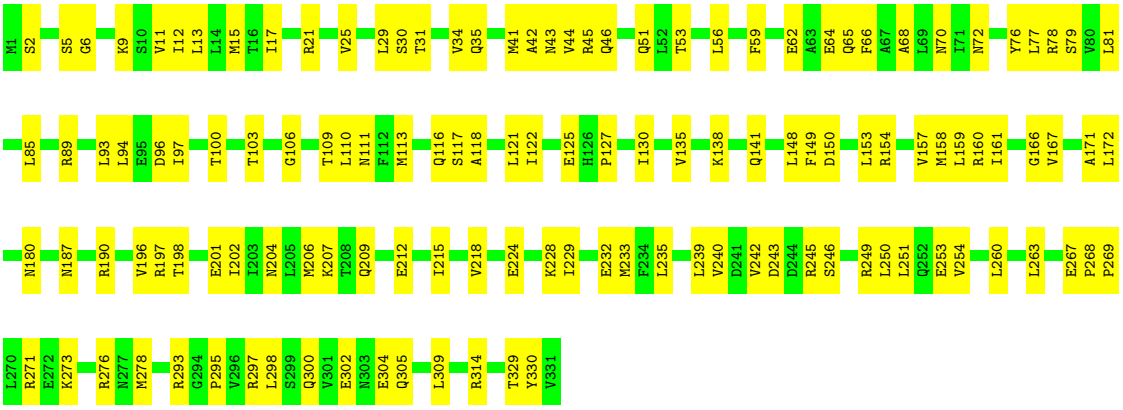


• Molecule 2: Flagellar motor switch protein FliG

Chain B2:

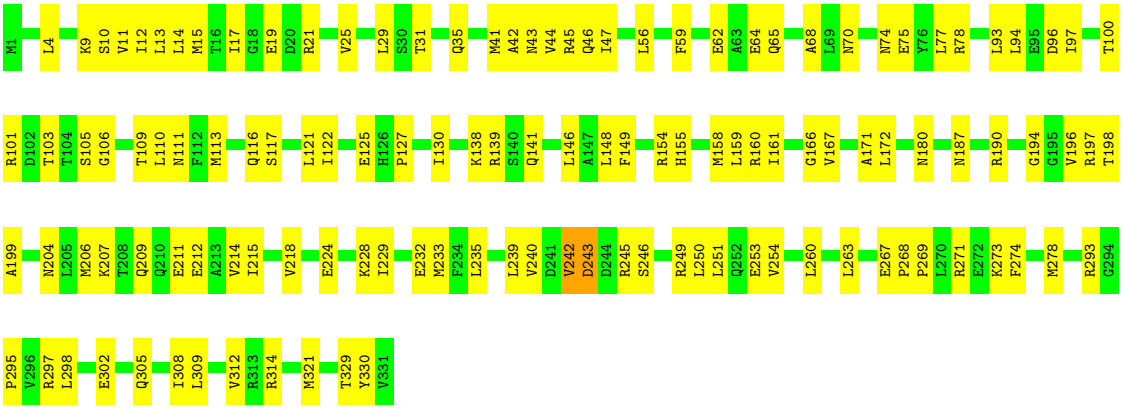
• Molecule 2: Flagellar motor switch protein FliG

Chain B3:



• Molecule 2: Flagellar motor switch protein FliG

Chain B4:

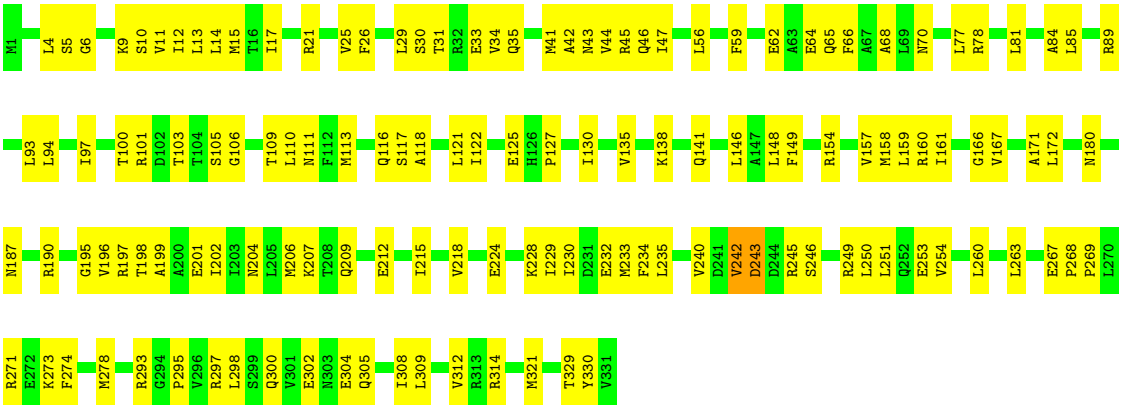


• Molecule 2: Flagellar motor switch protein FliG

Chain B5:

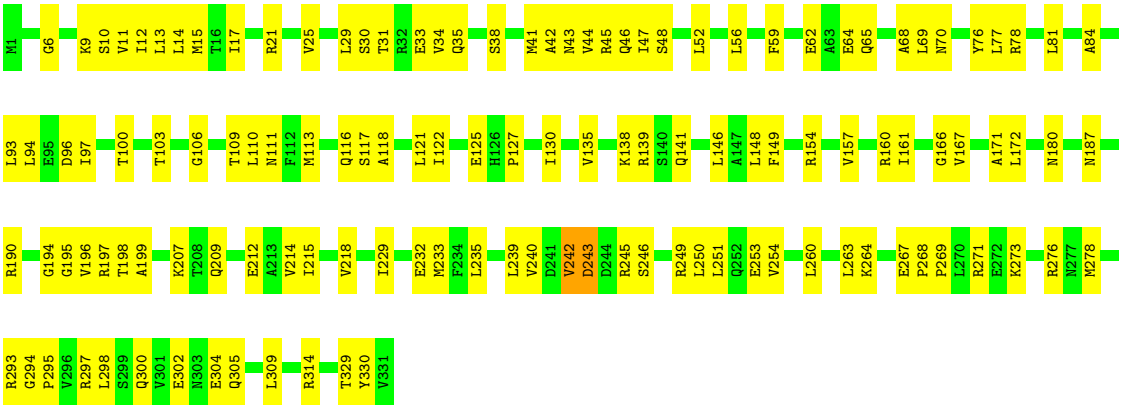
• Molecule 2: Flagellar motor switch protein FliG

Chain B6:



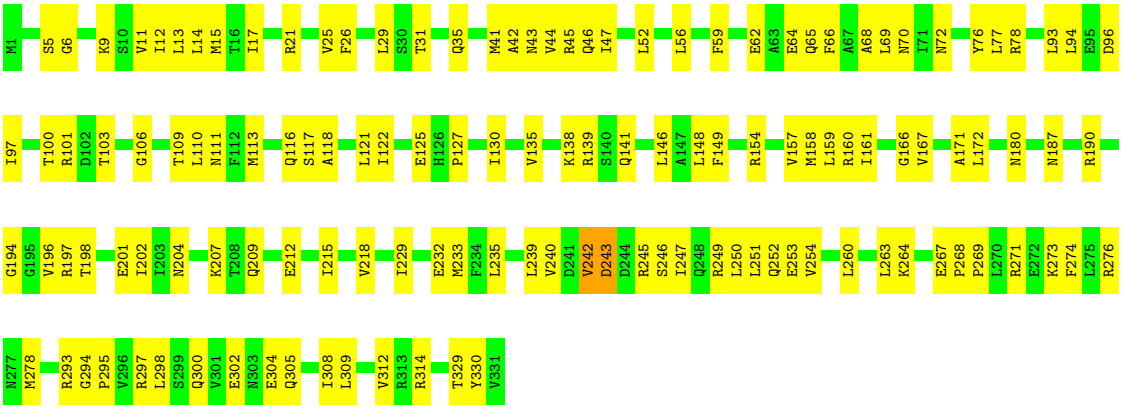
• Molecule 2: Flagellar motor switch protein FliG

Chain B7:



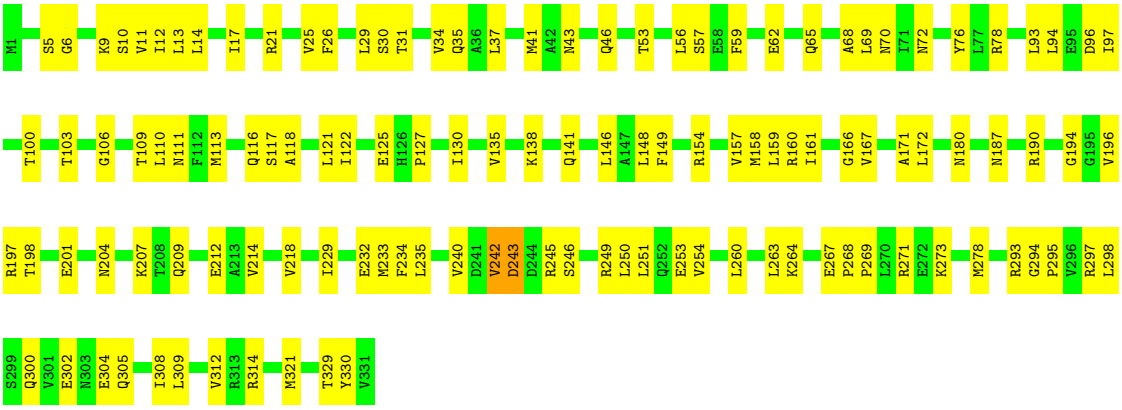
• Molecule 2: Flagellar motor switch protein FliG

Chain B8:



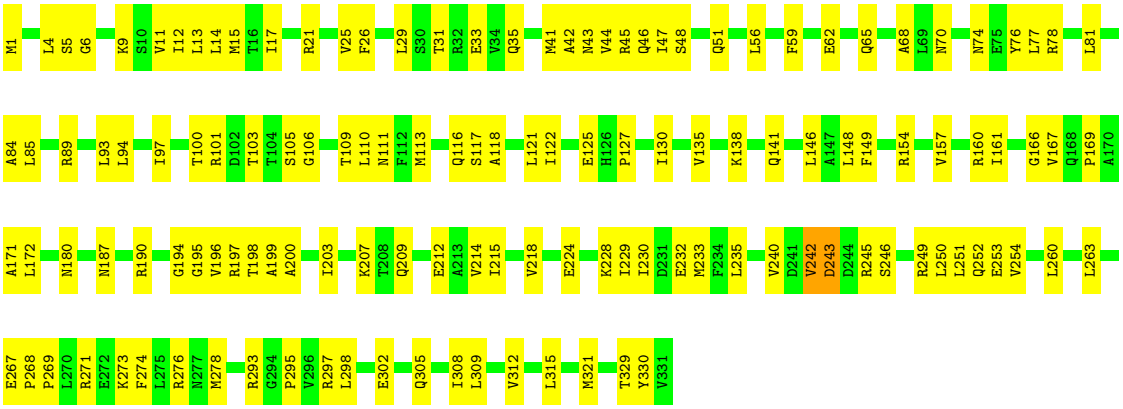
• Molecule 2: Flagellar motor switch protein FliG

Chain B9:



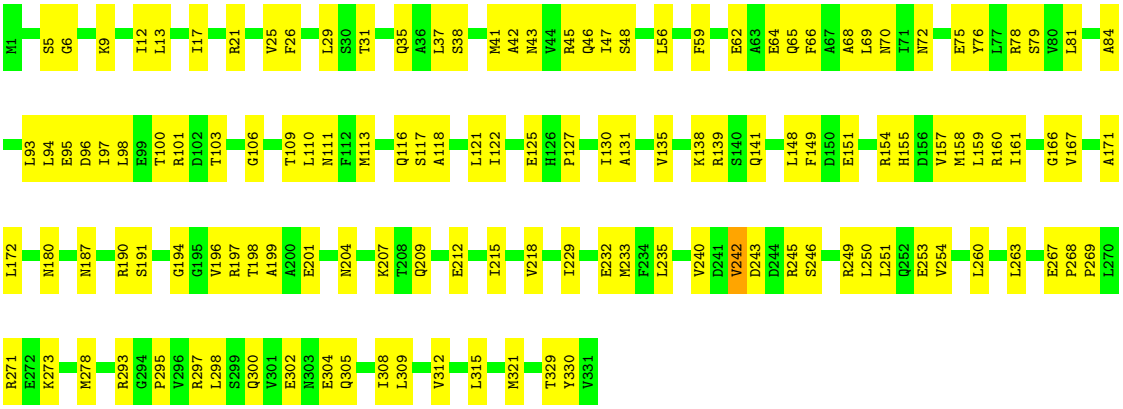
• Molecule 2: Flagellar motor switch protein FliG

Chain BA:



• Molecule 2: Flagellar motor switch protein FliG

Chain BB:

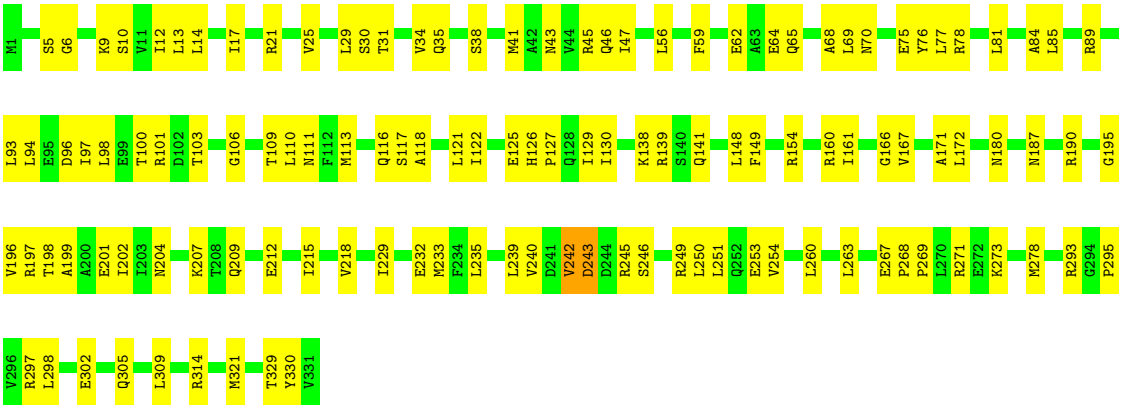


• Molecule 2: Flagellar motor switch protein FliG

Chain BC:

• Molecule 2: Flagellar motor switch protein FliG

Chain BD:

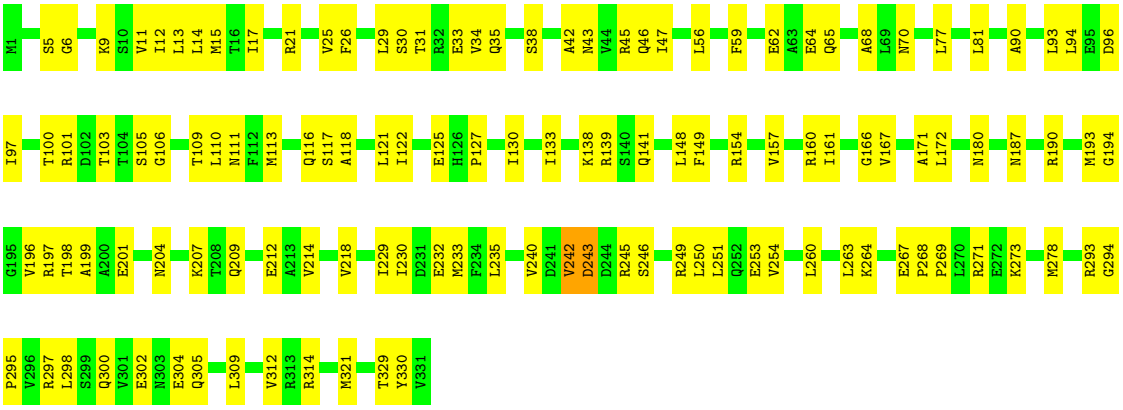


• Molecule 2: Flagellar motor switch protein FliG

Chain BE:

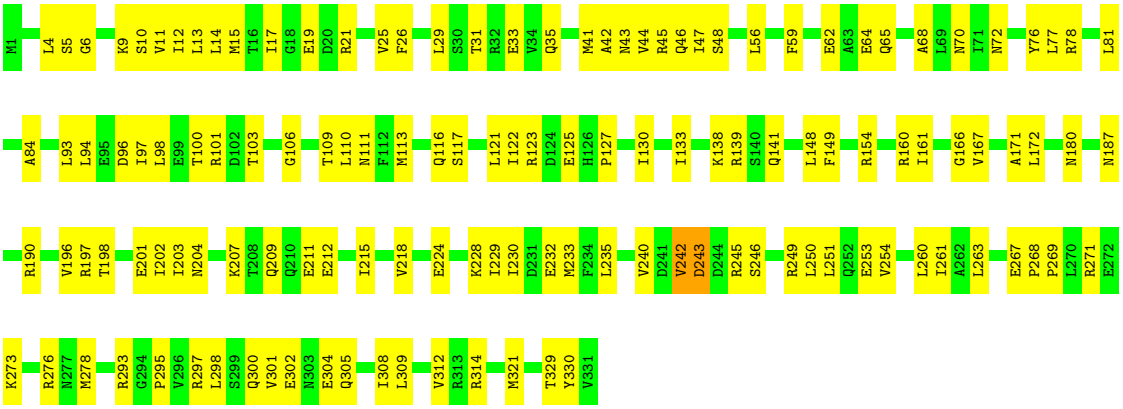
• Molecule 2: Flagellar motor switch protein FliG

Chain BF:



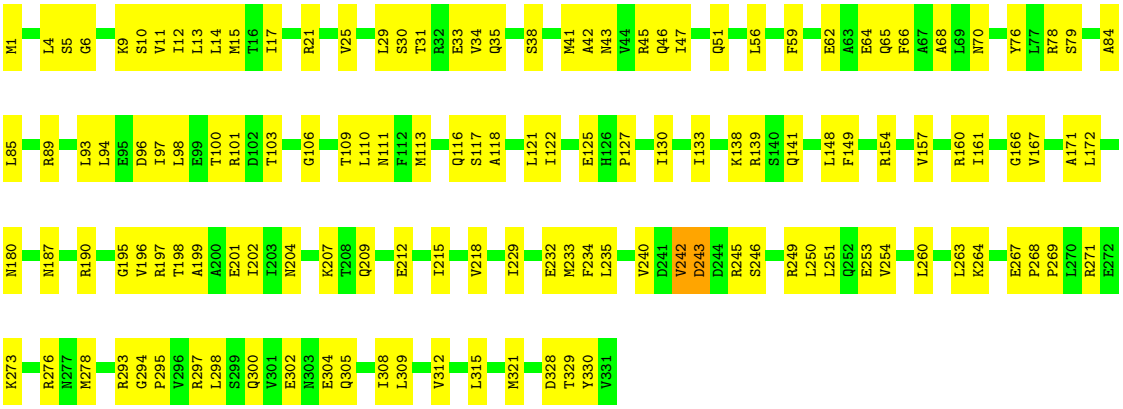
• Molecule 2: Flagellar motor switch protein FliG

Chain BG:



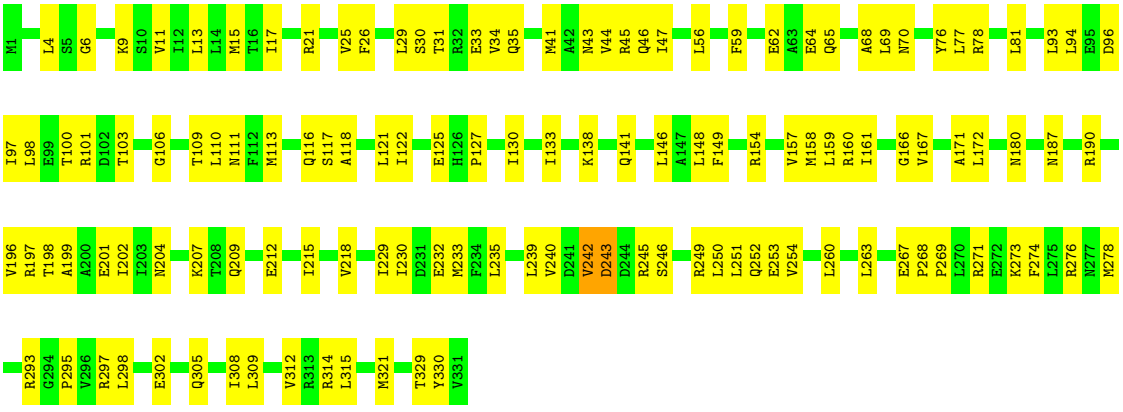
• Molecule 2: Flagellar motor switch protein FliG

Chain BH:



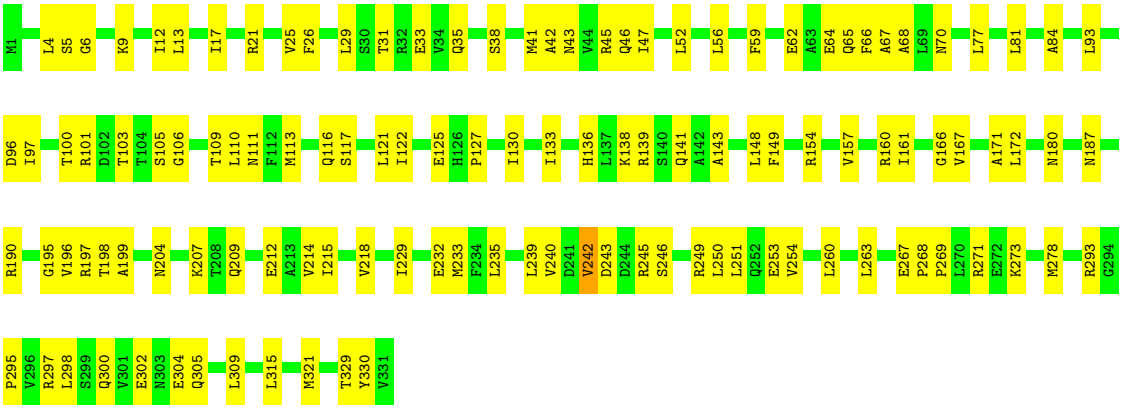
• Molecule 2: Flagellar motor switch protein FliG

Chain BI:



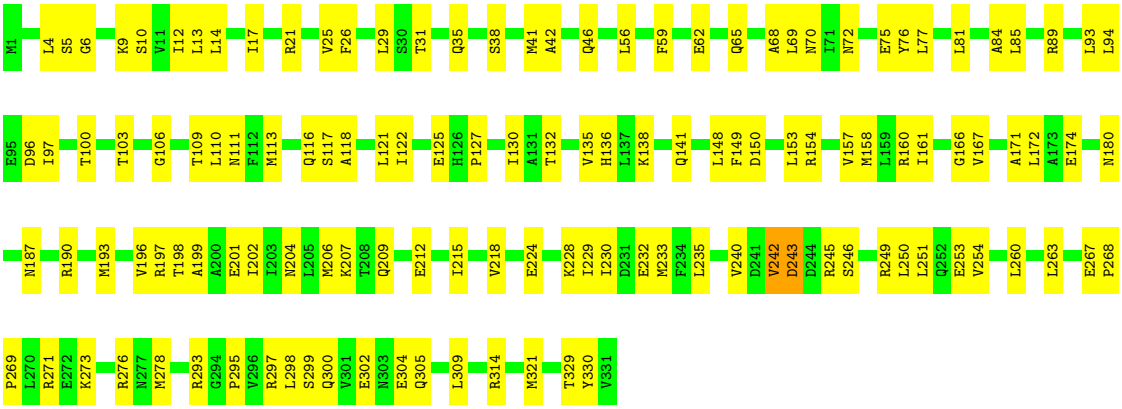
• Molecule 2: Flagellar motor switch protein FliG

Chain BJ:



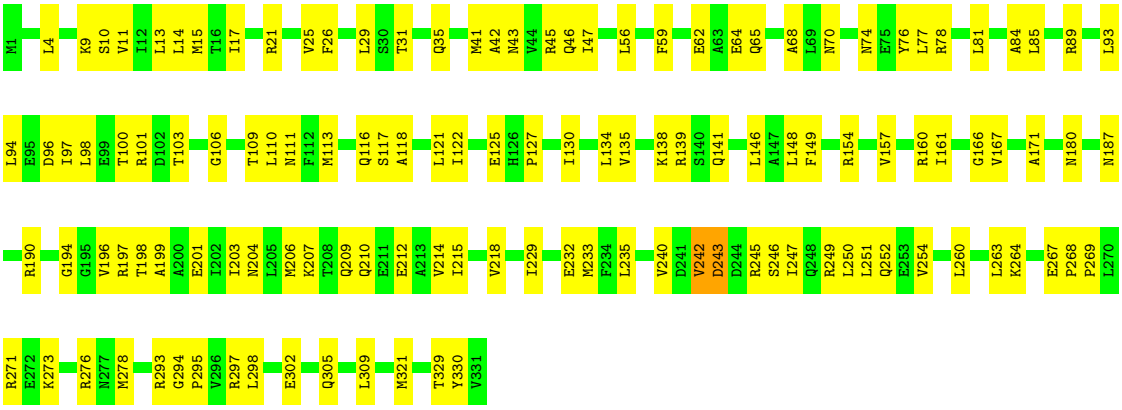
• Molecule 2: Flagellar motor switch protein FliG

Chain BK:



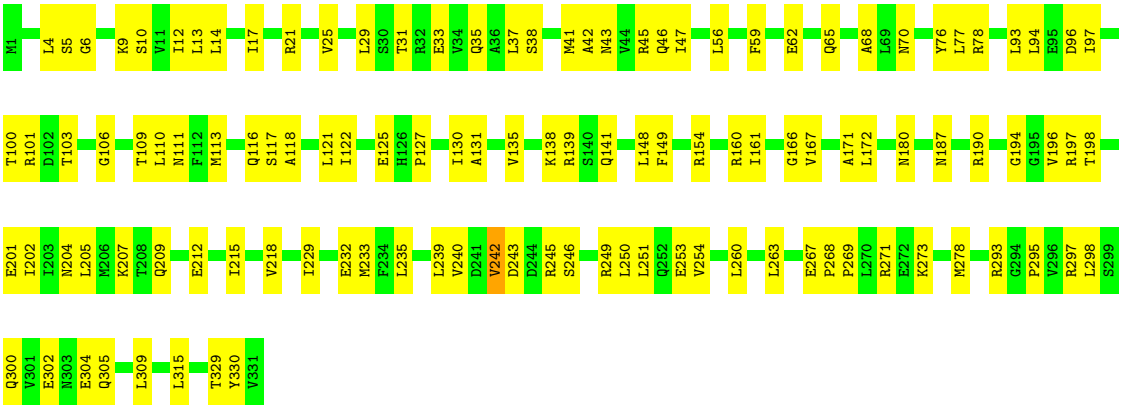
• Molecule 2: Flagellar motor switch protein FliG

Chain BL:



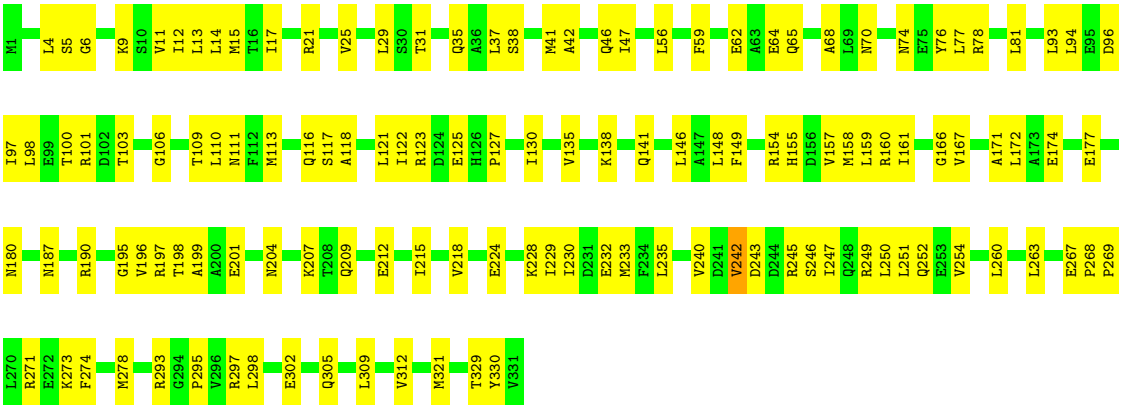
• Molecule 2: Flagellar motor switch protein FliG

Chain BM:



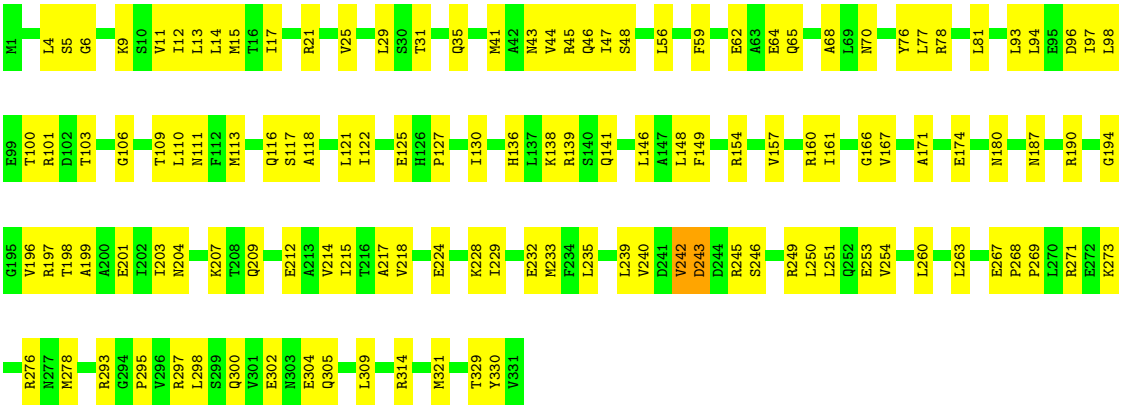
• Molecule 2: Flagellar motor switch protein FliG

Chain BN:



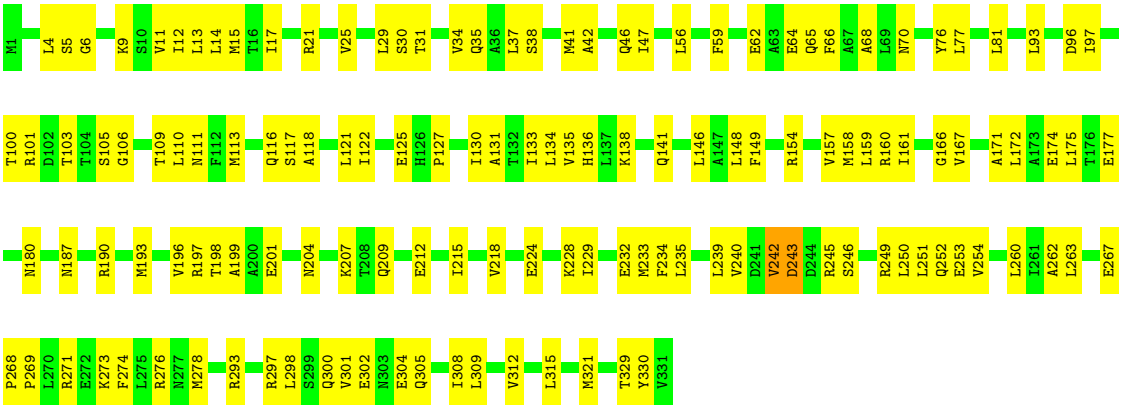
• Molecule 2: Flagellar motor switch protein FliG

Chain BO:



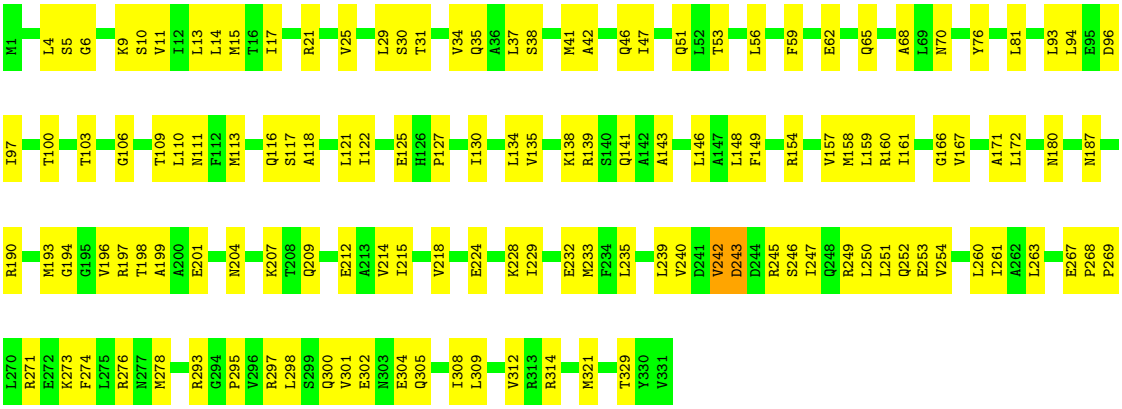
• Molecule 2: Flagellar motor switch protein FliG

Chain BP:



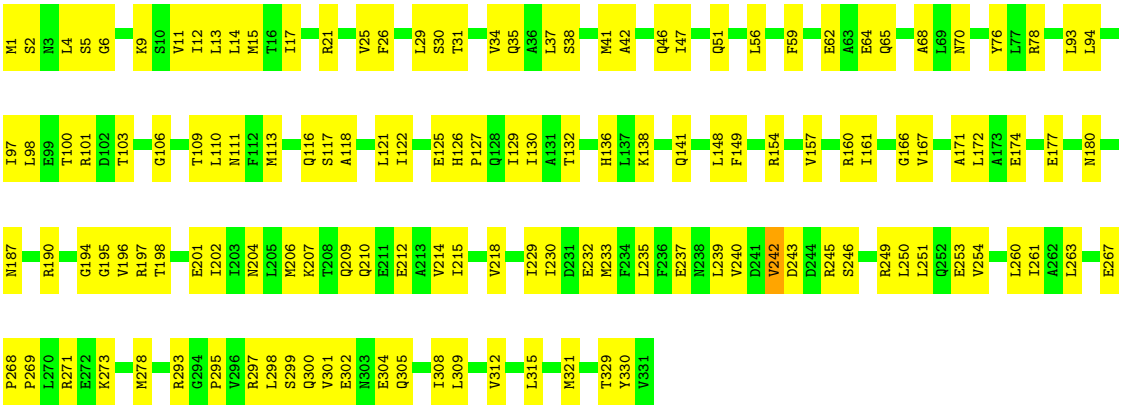
• Molecule 2: Flagellar motor switch protein FliG

Chain BQ:



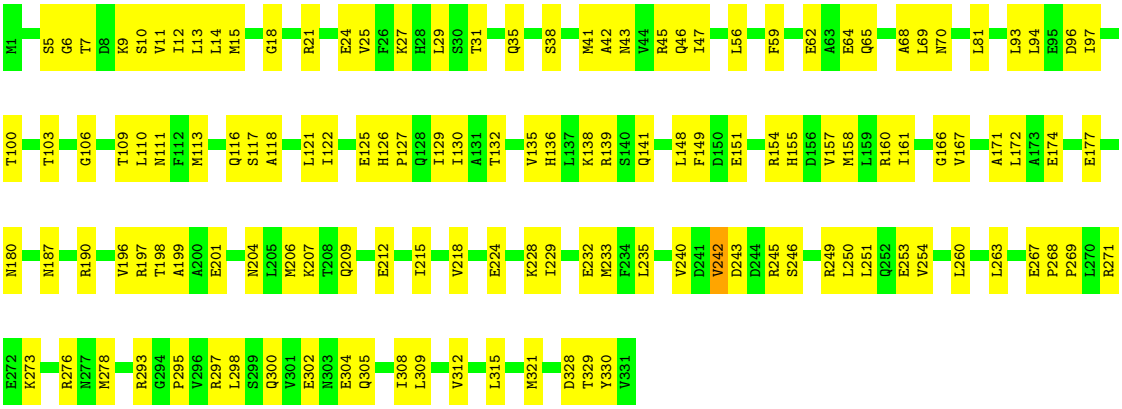
• Molecule 2: Flagellar motor switch protein FliG

Chain BR:



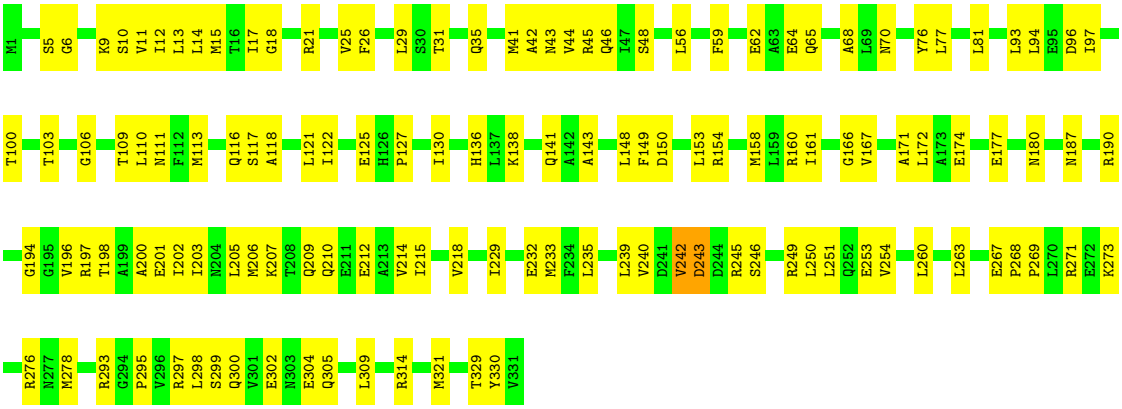
• Molecule 2: Flagellar motor switch protein FliG

Chain BS:



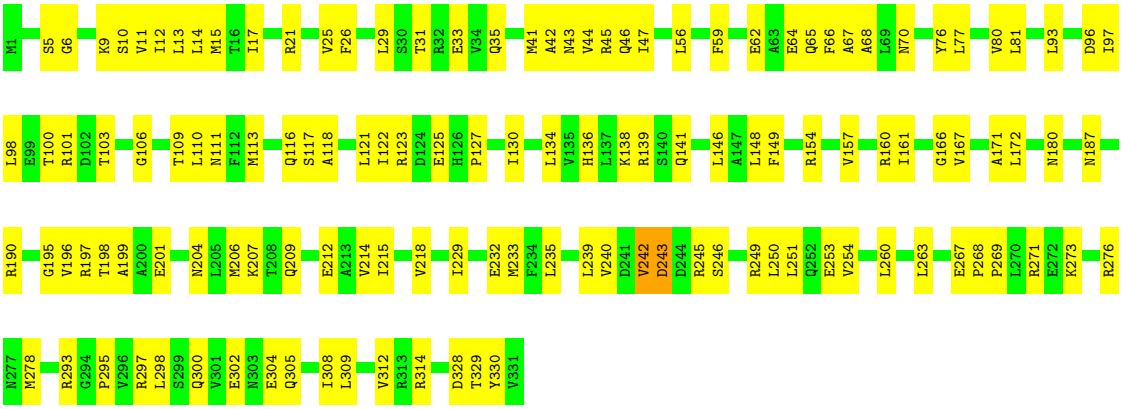
• Molecule 2: Flagellar motor switch protein FliG

Chain BT:



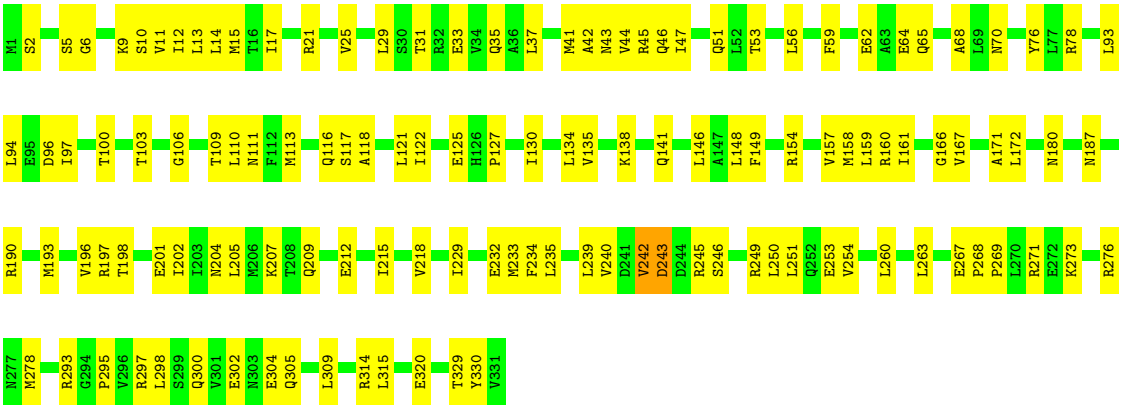
• Molecule 2: Flagellar motor switch protein FliG

Chain BU:



• Molecule 2: Flagellar motor switch protein FliG

Chain BV:

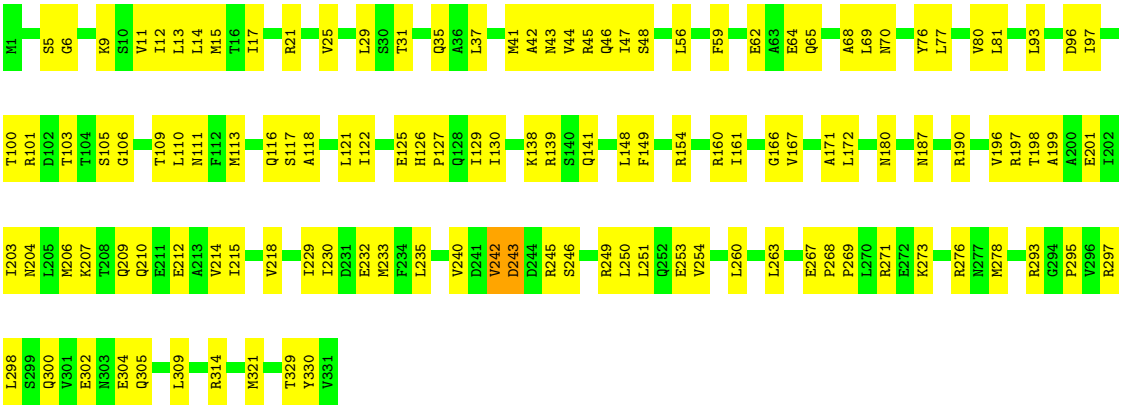


• Molecule 2: Flagellar motor switch protein FliG

Chain BW:

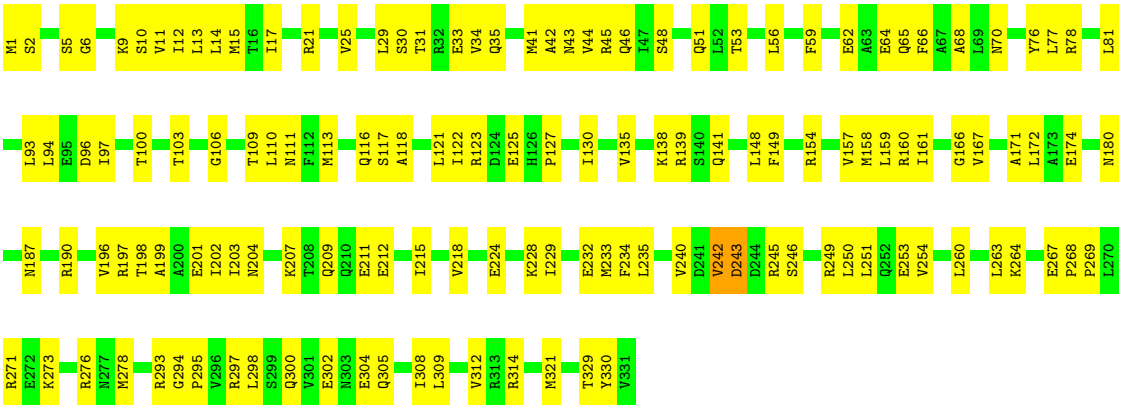
• Molecule 2: Flagellar motor switch protein FliG

Chain BX:



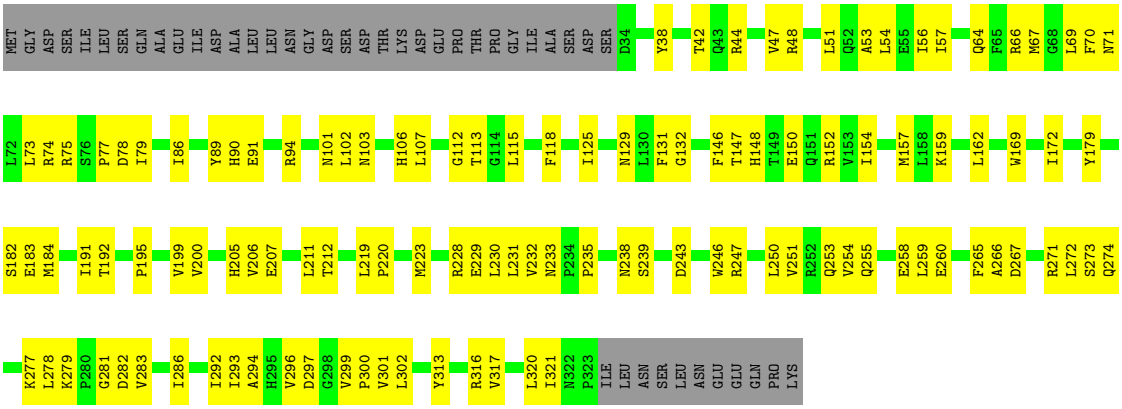
• Molecule 2: Flagellar motor switch protein FliG

Chain BY:



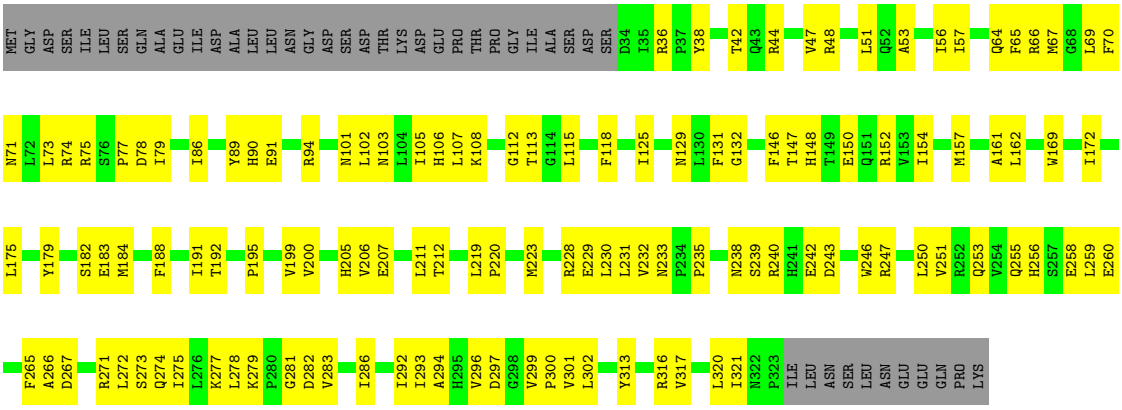
• Molecule 3: Flagellar motor switch protein FliM

Chain C1:



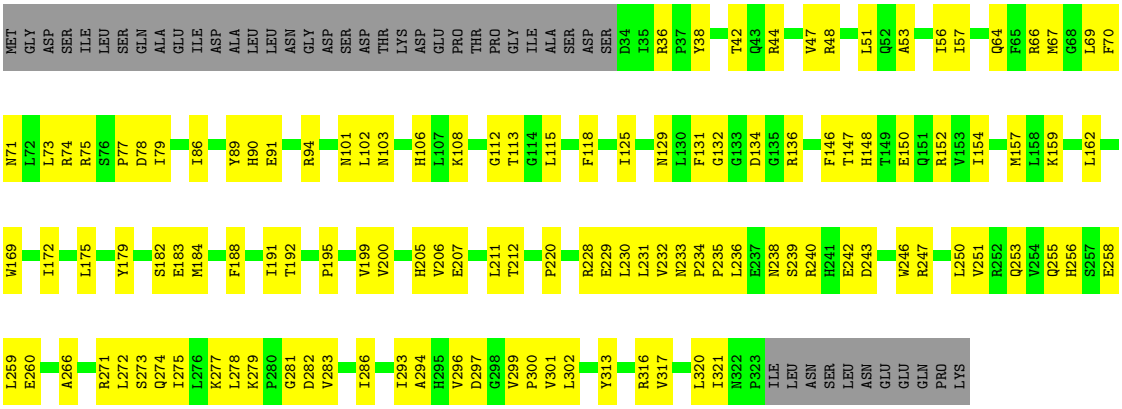
• Molecule 3: Flagellar motor switch protein FliM

Chain C2:



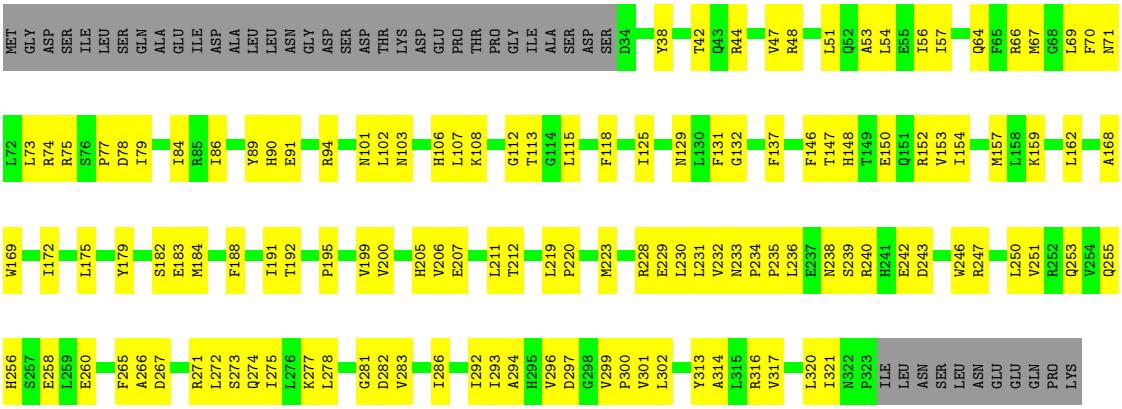
• Molecule 3: Flagellar motor switch protein FliM

Chain C3:



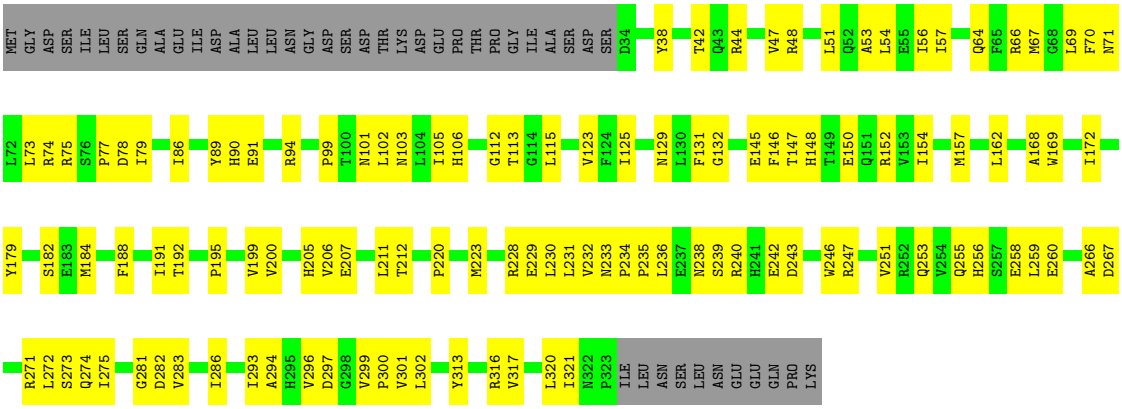
• Molecule 3: Flagellar motor switch protein FliM

Chain C4:



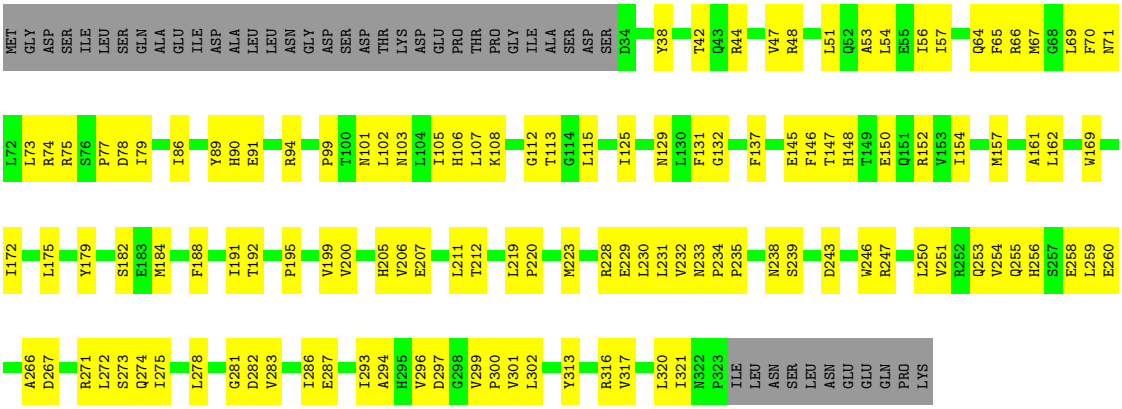
• Molecule 3: Flagellar motor switch protein FliM

Chain C5:



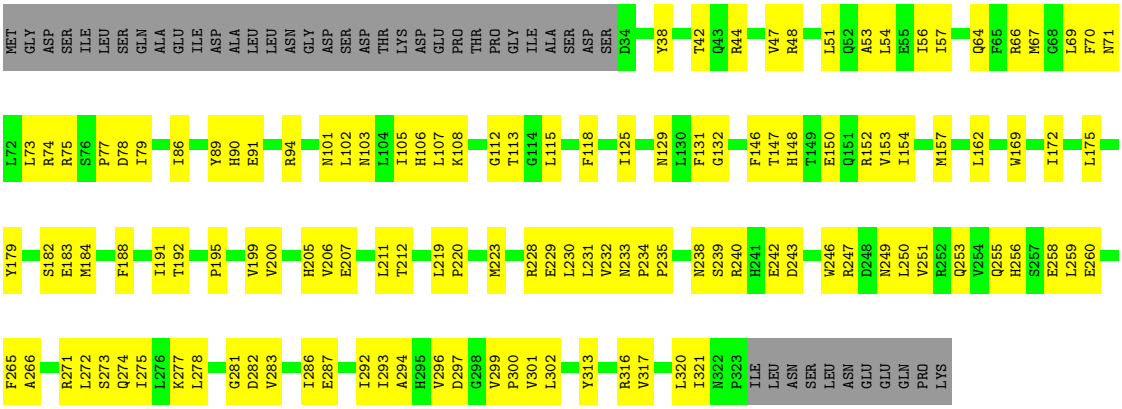
• Molecule 3: Flagellar motor switch protein FliM

Chain C6:



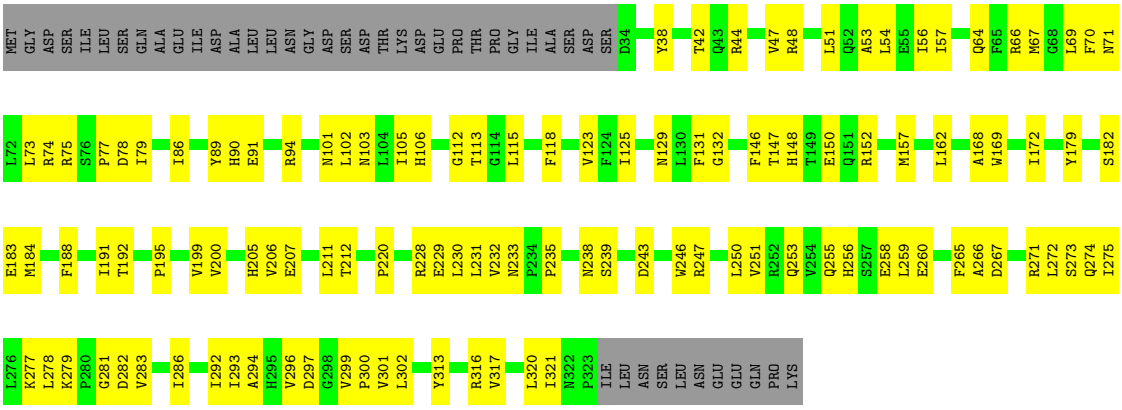
• Molecule 3: Flagellar motor switch protein FliM

Chain C7:



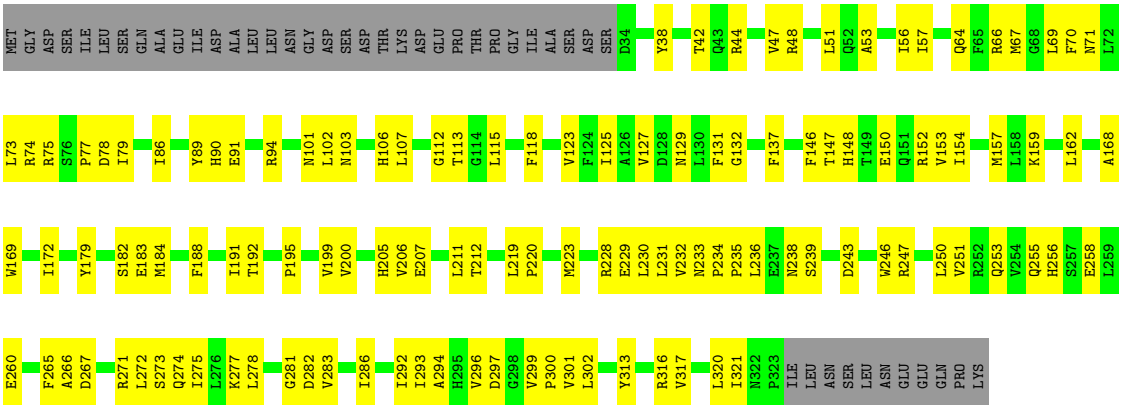
• Molecule 3: Flagellar motor switch protein FliM

Chain C8:



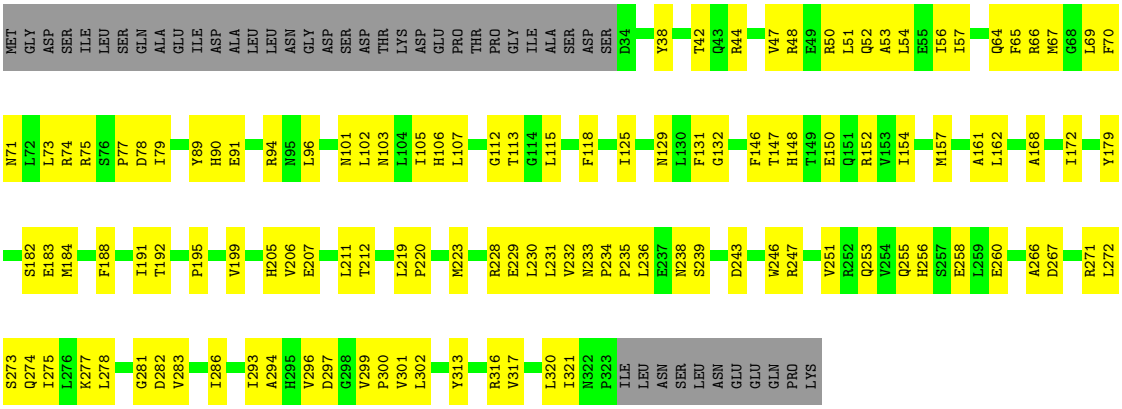
• Molecule 3: Flagellar motor switch protein FliM

Chain C9:



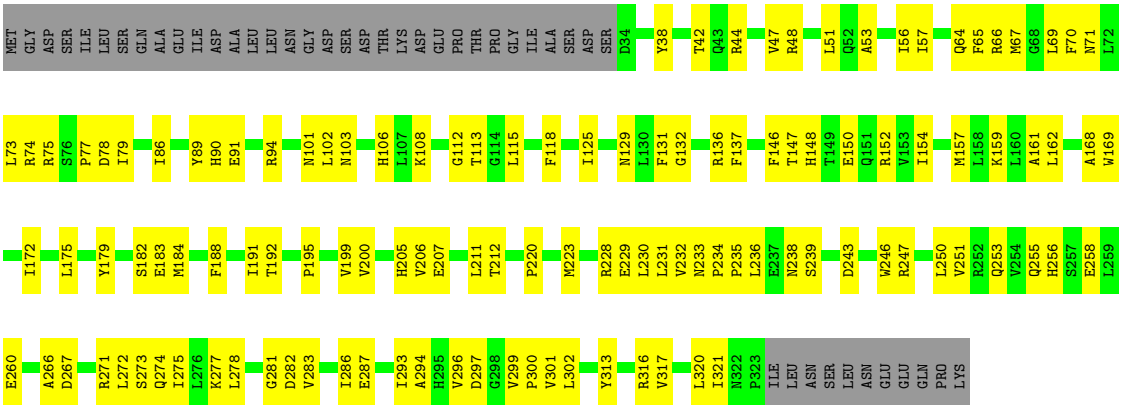
• Molecule 3: Flagellar motor switch protein FliM

Chain CA:



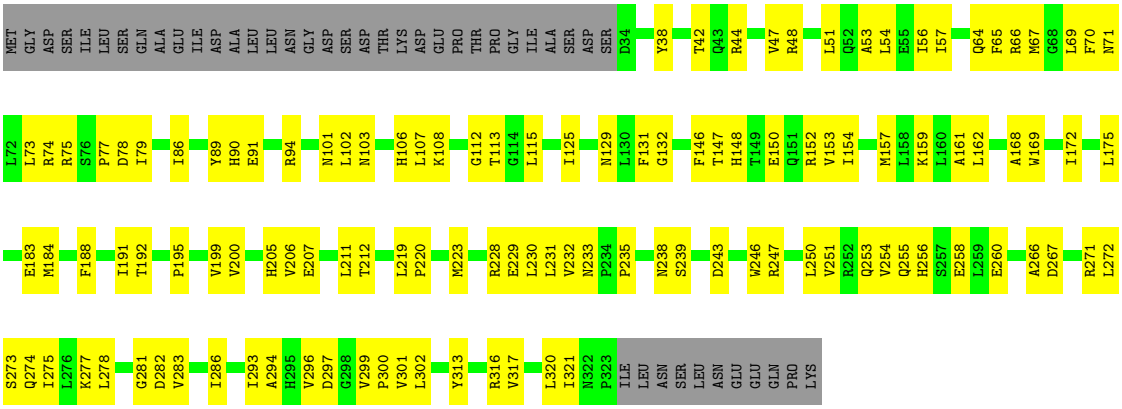
• Molecule 3: Flagellar motor switch protein FliM

Chain CB:



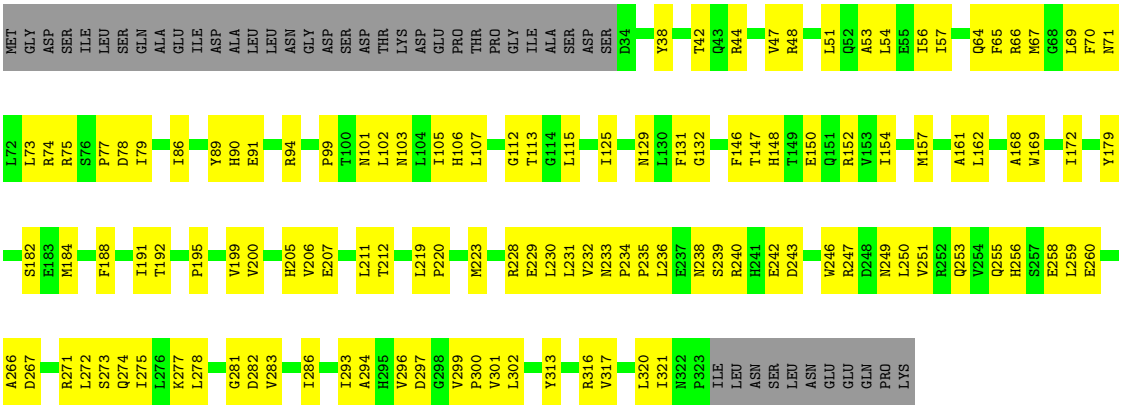
• Molecule 3: Flagellar motor switch protein FliM

Chain CC:



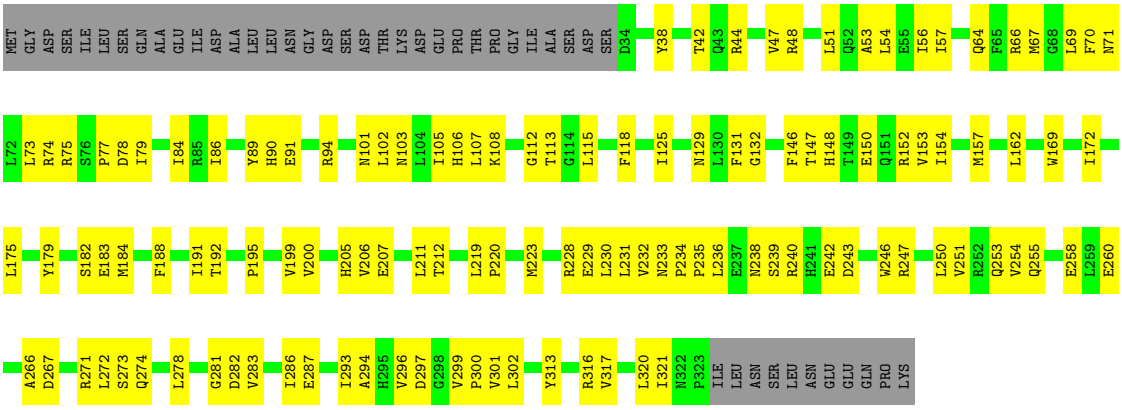
• Molecule 3: Flagellar motor switch protein FliM

Chain CD:



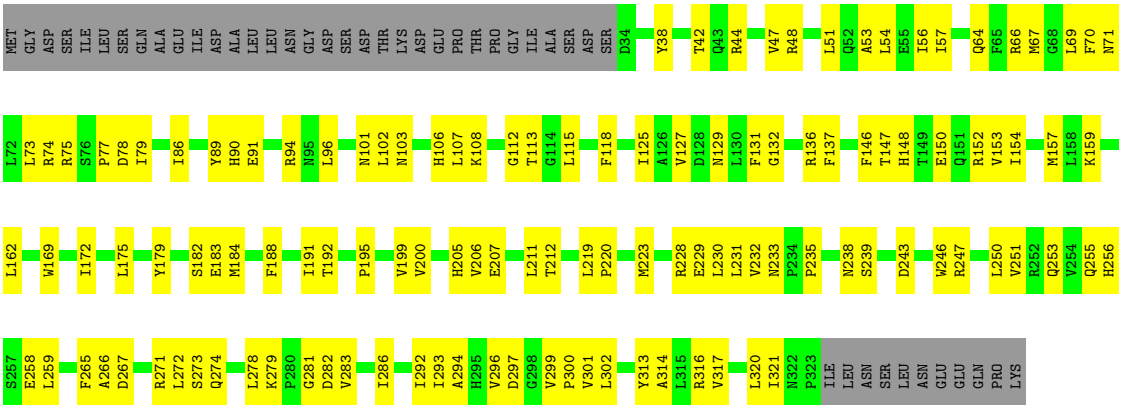
• Molecule 3: Flagellar motor switch protein FliM

Chain CE:



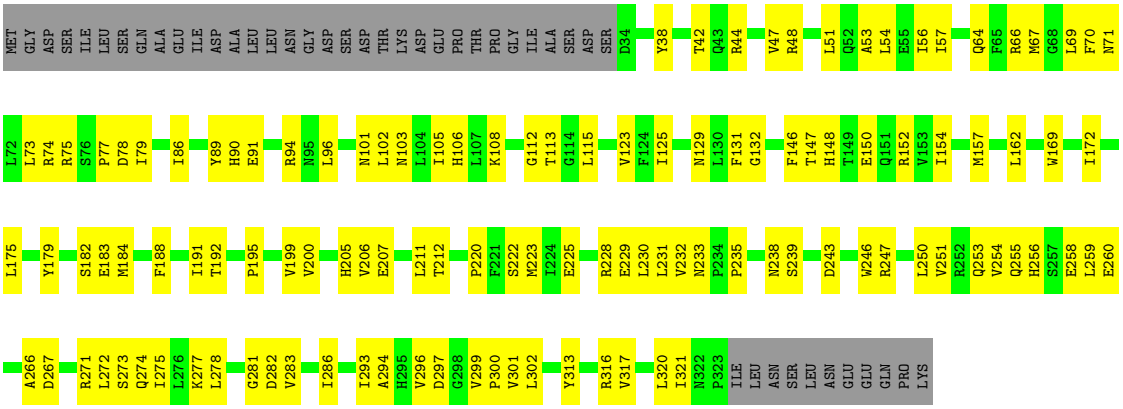
• Molecule 3: Flagellar motor switch protein FliM

Chain CF:



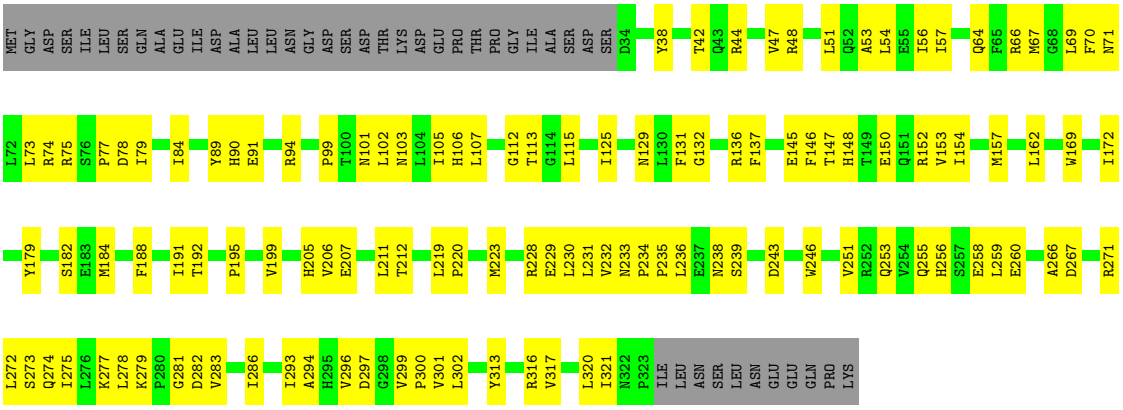
• Molecule 3: Flagellar motor switch protein FliM

Chain CG:



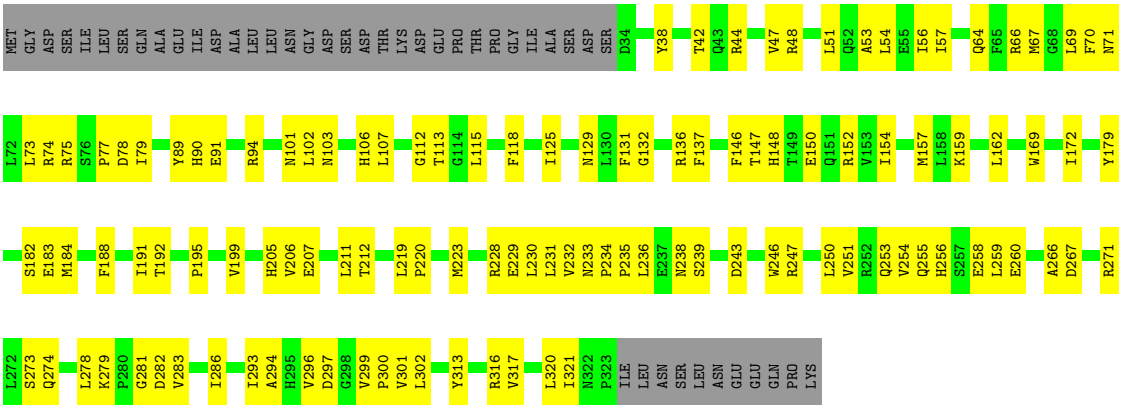
• Molecule 3: Flagellar motor switch protein FliM

Chain CH:



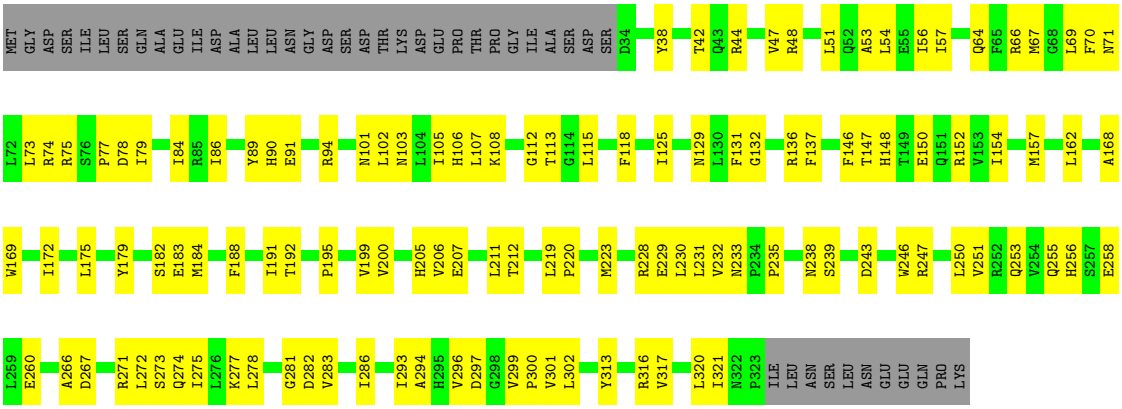
• Molecule 3: Flagellar motor switch protein FliM

Chain CI:



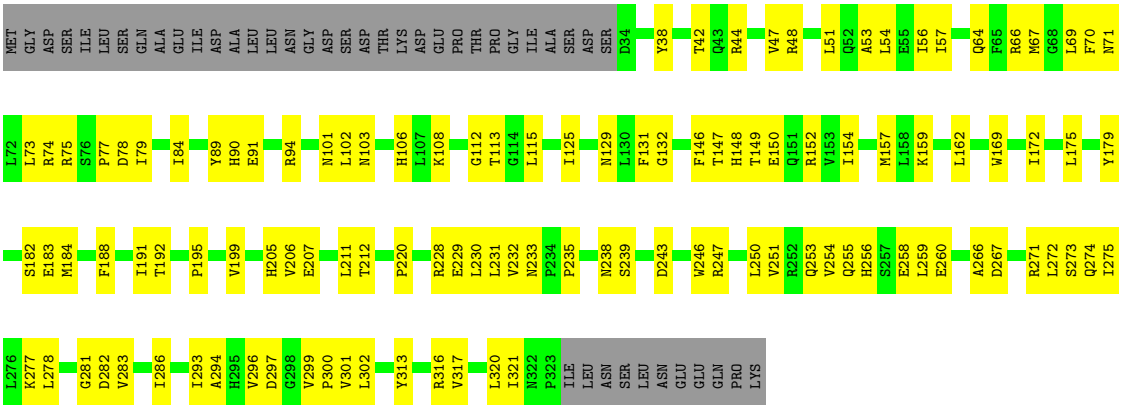
• Molecule 3: Flagellar motor switch protein FliM

Chain CJ:



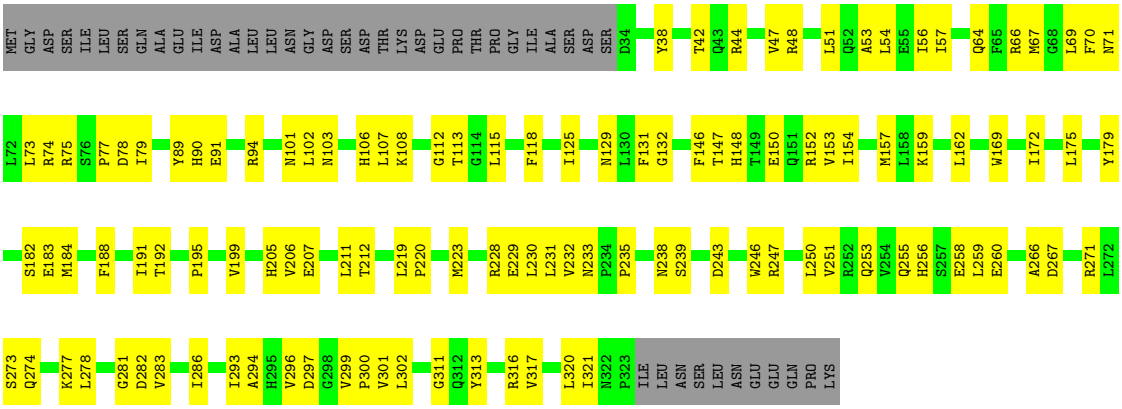
• Molecule 3: Flagellar motor switch protein FliM

Chain CK:



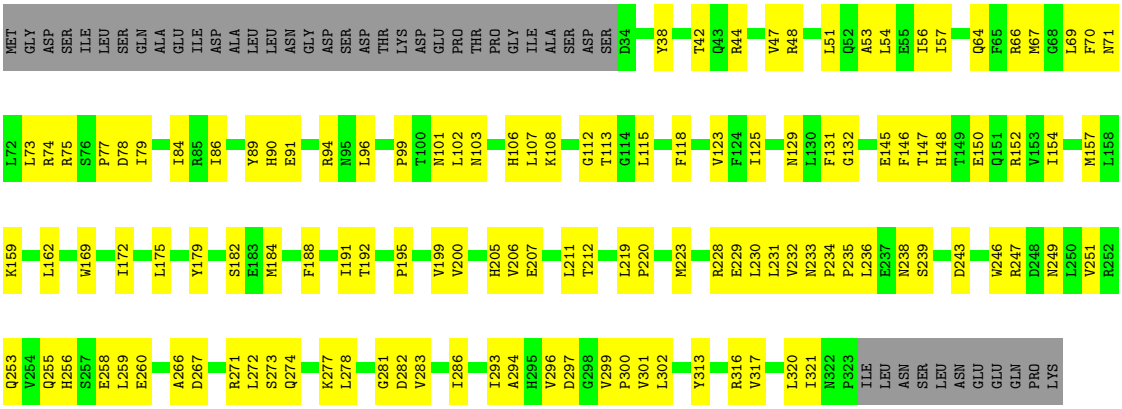
• Molecule 3: Flagellar motor switch protein FliM

Chain CL:



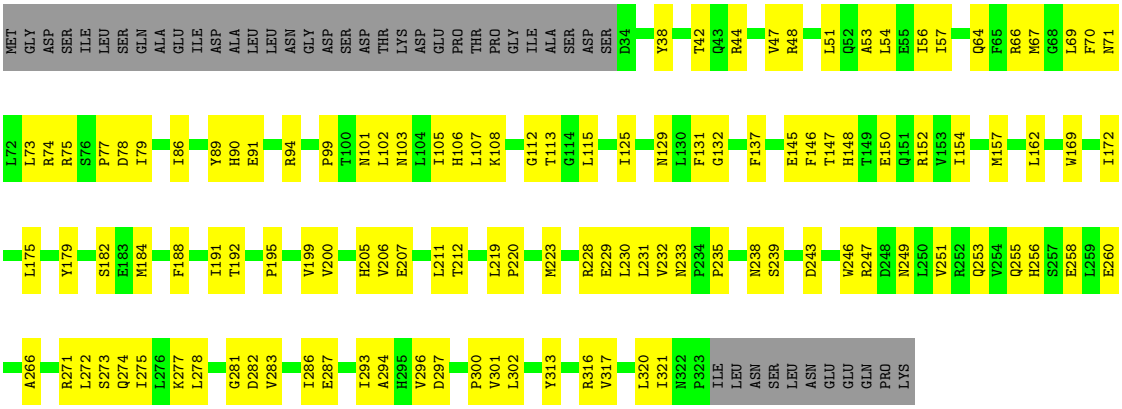
• Molecule 3: Flagellar motor switch protein FliM

Chain CM:



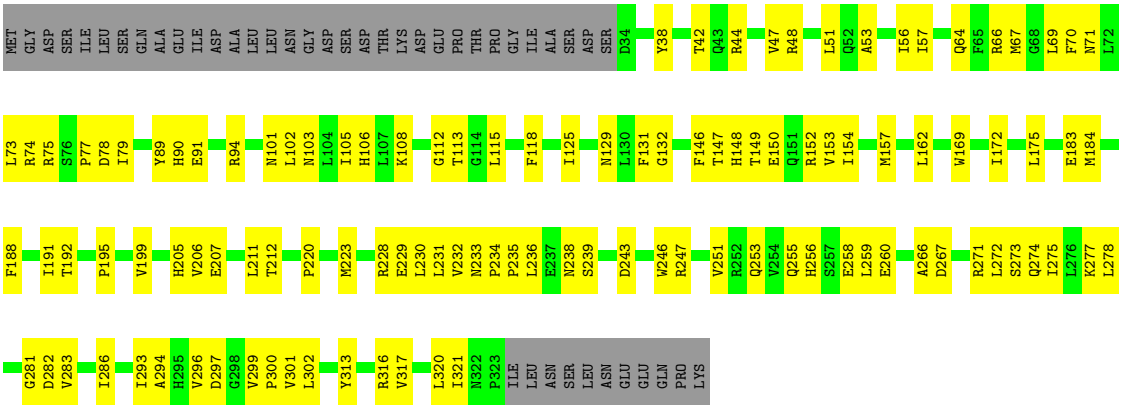
• Molecule 3: Flagellar motor switch protein FliM

Chain CN:



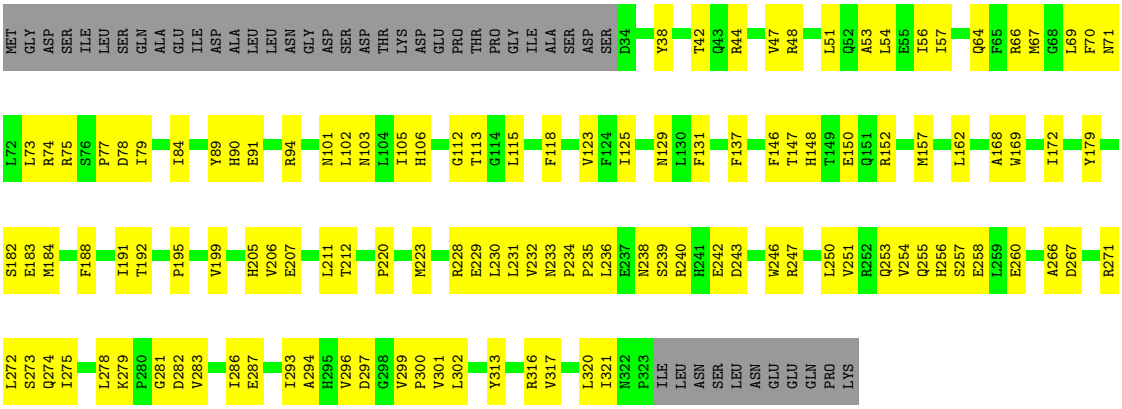
• Molecule 3: Flagellar motor switch protein FliM

Chain CO:



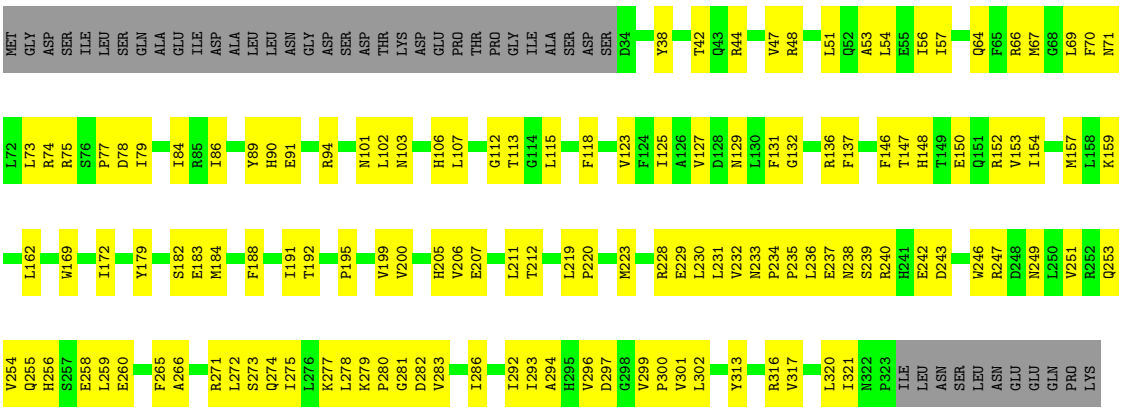
• Molecule 3: Flagellar motor switch protein FliM

Chain CP:



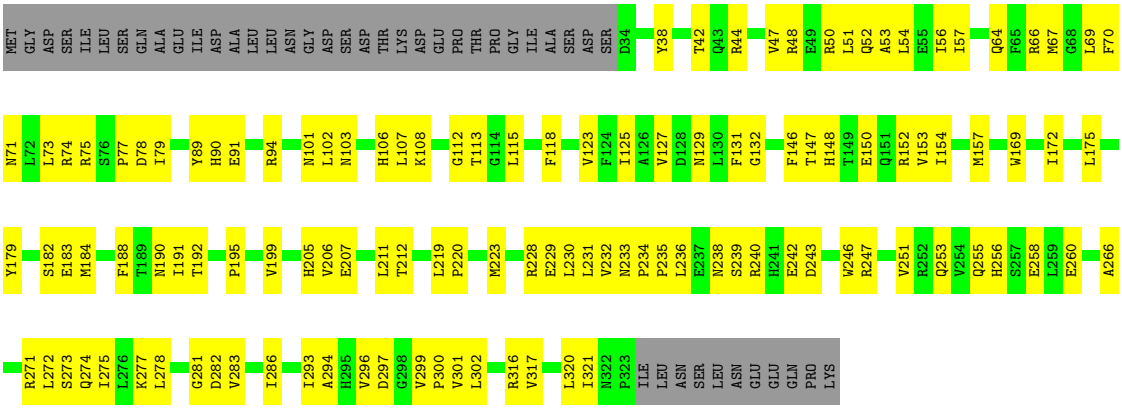
• Molecule 3: Flagellar motor switch protein FliM

Chain CQ:



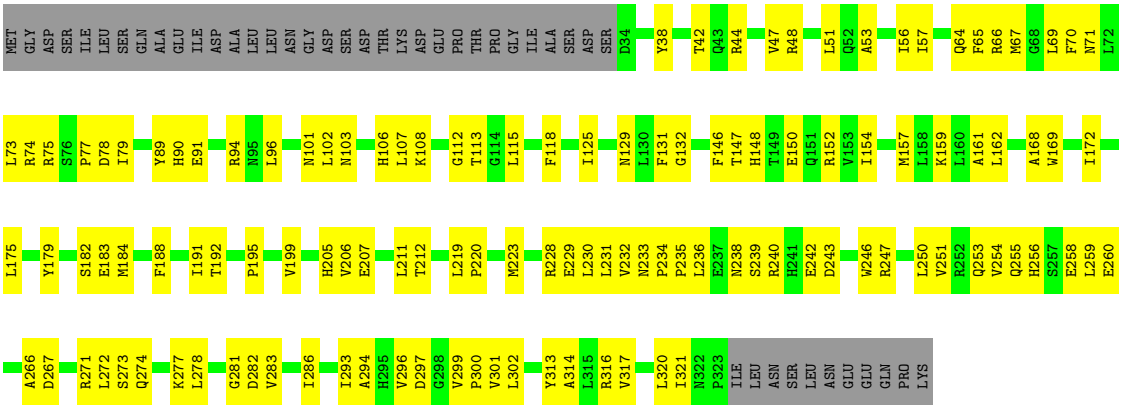
• Molecule 3: Flagellar motor switch protein FliM

Chain CR:



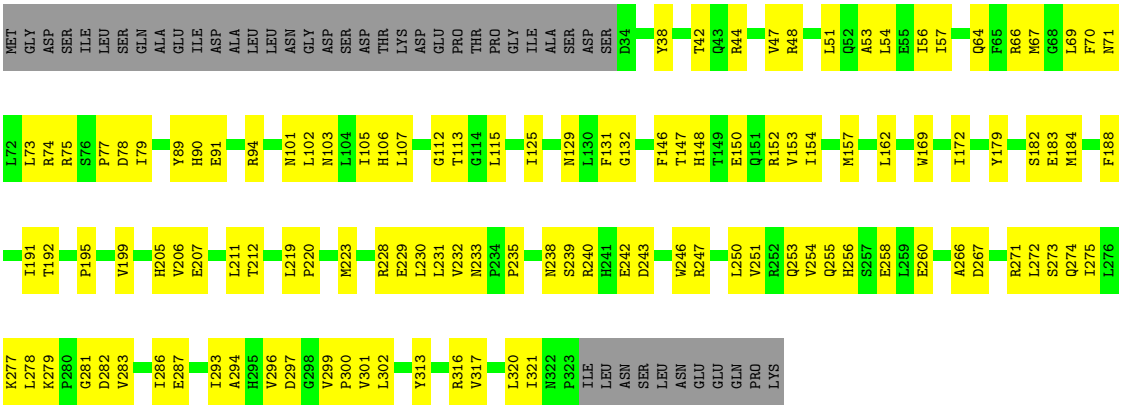
• Molecule 3: Flagellar motor switch protein FliM

Chain CS:



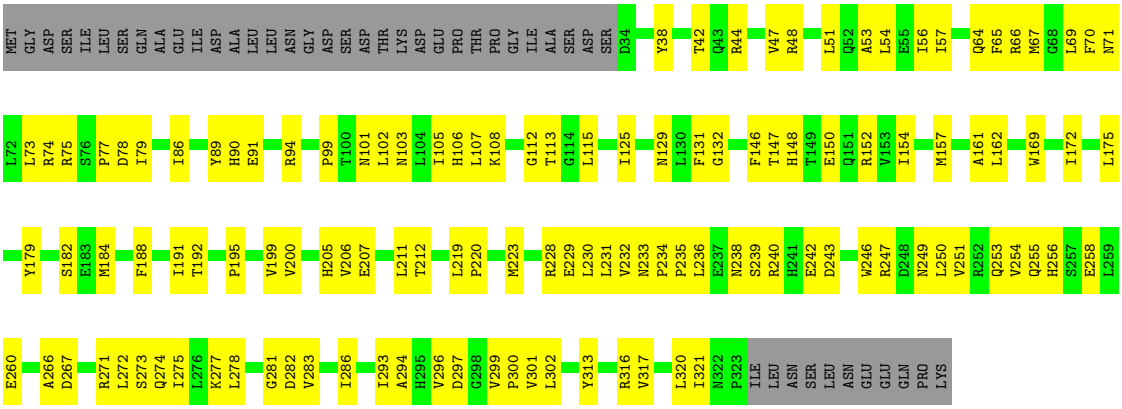
• Molecule 3: Flagellar motor switch protein FliM

Chain CT:



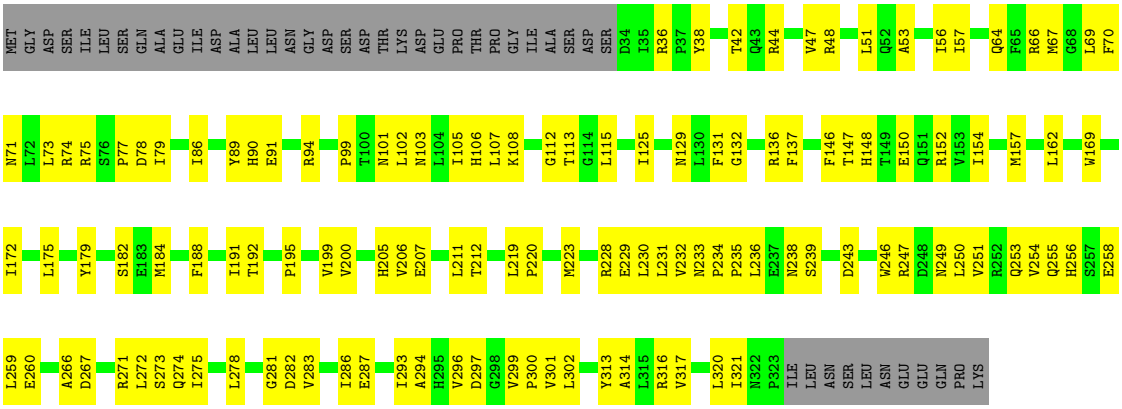
• Molecule 3: Flagellar motor switch protein FliM

Chain CU:



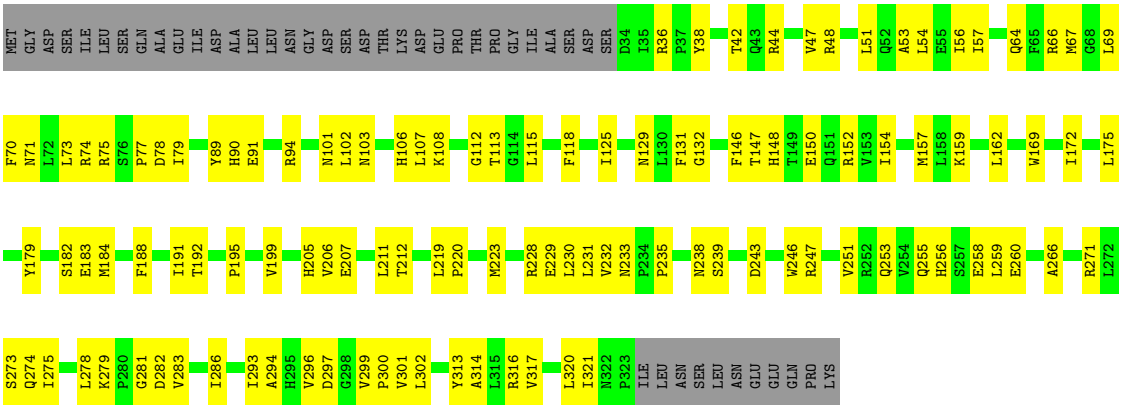
• Molecule 3: Flagellar motor switch protein FliM

Chain CV:



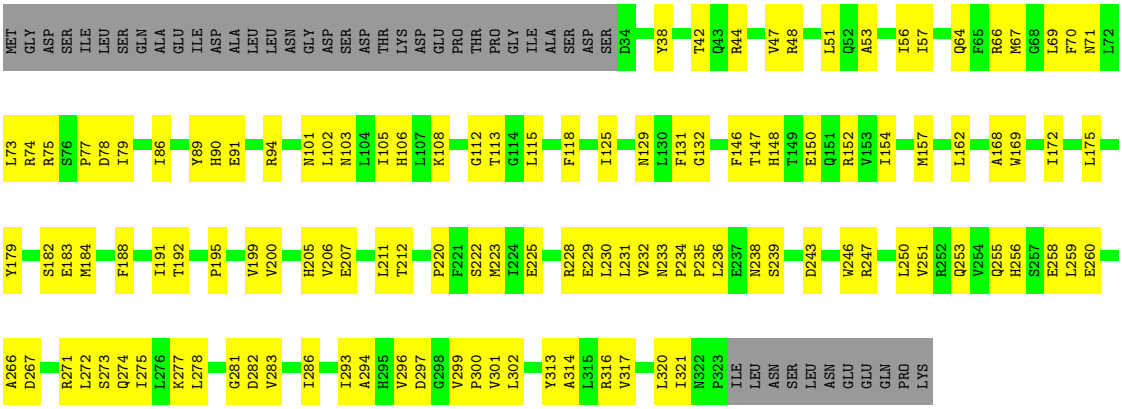
• Molecule 3: Flagellar motor switch protein FliM

Chain CW:



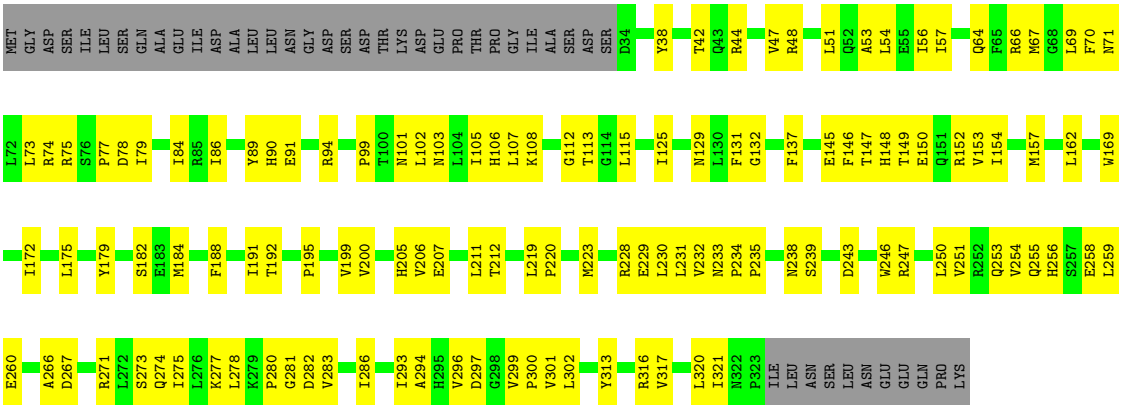
• Molecule 3: Flagellar motor switch protein FliM

Chain CX:



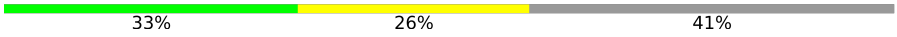
• Molecule 3: Flagellar motor switch protein FliM

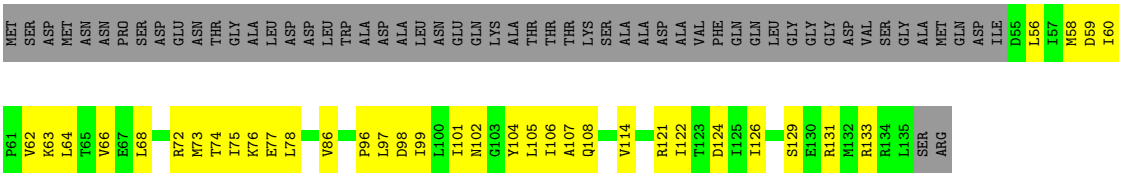
Chain CY:



• Molecule 4: Flagellar motor switch protein FliN

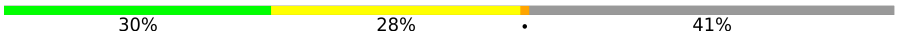
Chain D1:

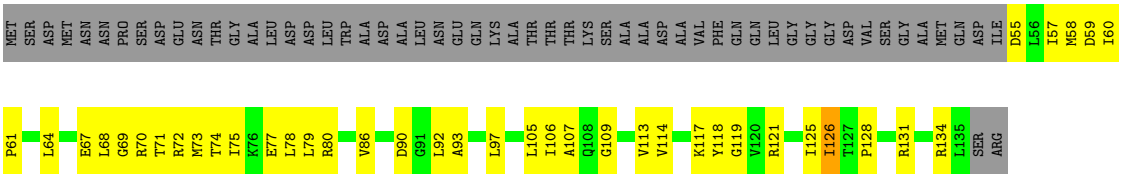




• Molecule 4: Flagellar motor switch protein FliN

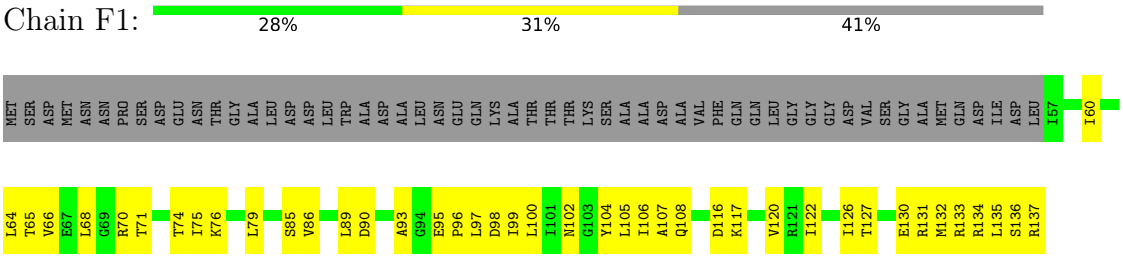
Chain E1:





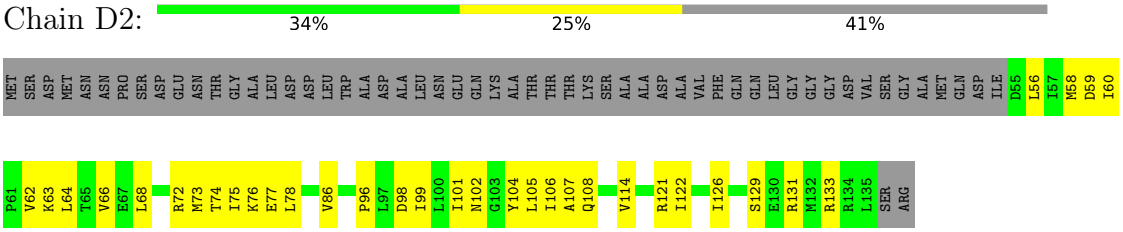
• Molecule 4: Flagellar motor switch protein FliN

Chain F1:



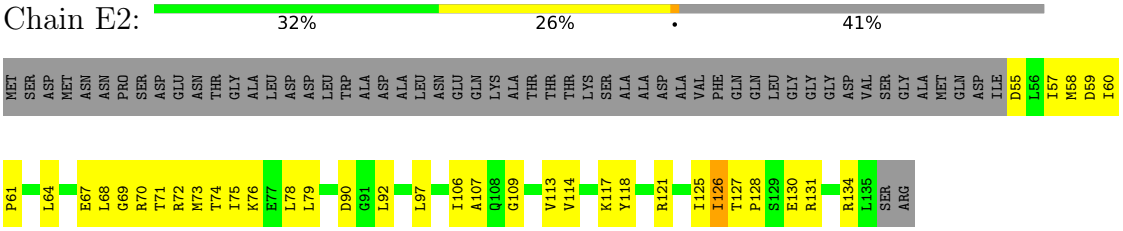
• Molecule 4: Flagellar motor switch protein FliN

Chain D2:



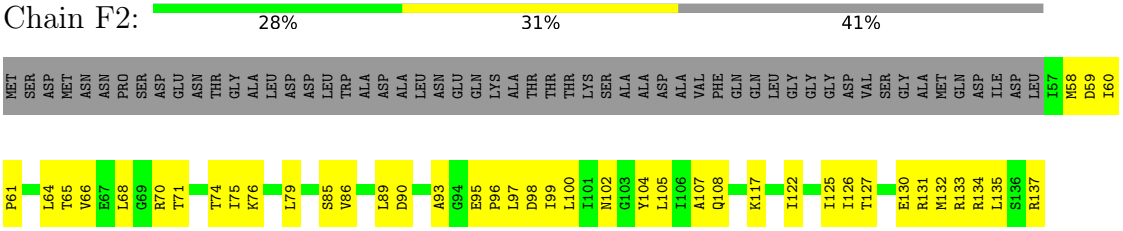
• Molecule 4: Flagellar motor switch protein FliN

Chain E2:



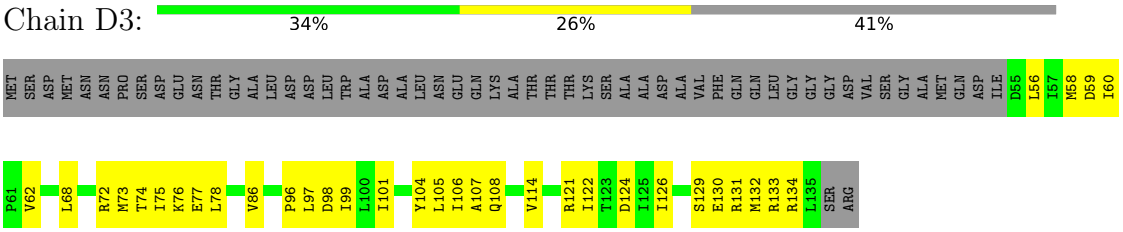
• Molecule 4: Flagellar motor switch protein FliN

Chain F2:



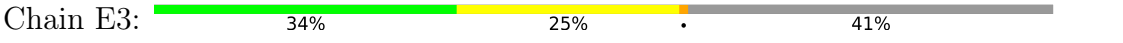
• Molecule 4: Flagellar motor switch protein FliN

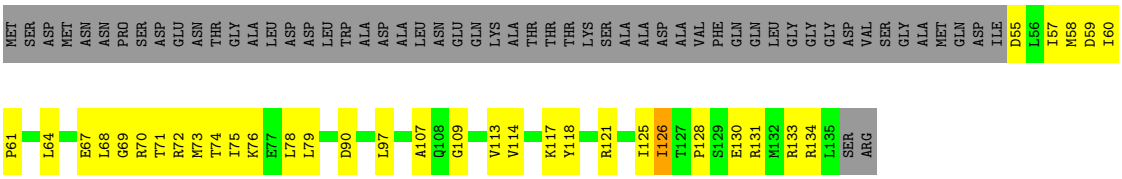
Chain D3:



• Molecule 4: Flagellar motor switch protein FliN

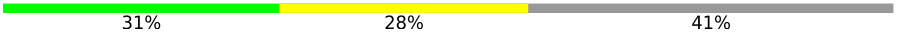
Chain E3:

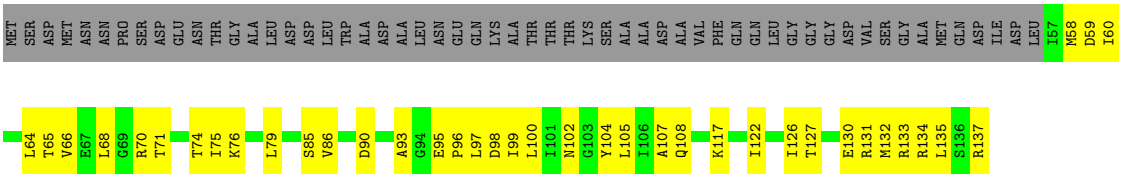




• Molecule 4: Flagellar motor switch protein FliN

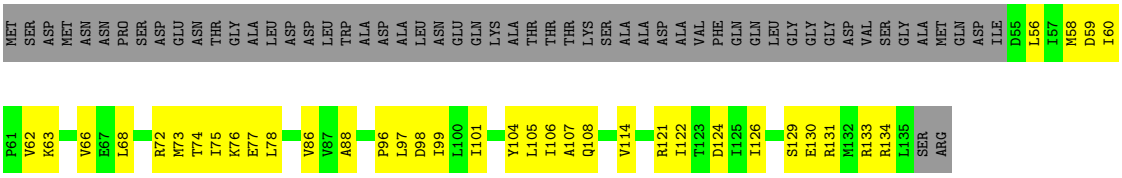
Chain F3:





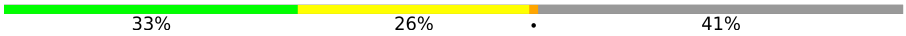
• Molecule 4: Flagellar motor switch protein FliN

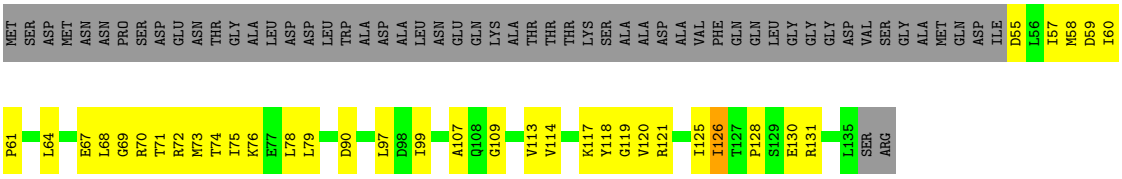
Chain D4:



• Molecule 4: Flagellar motor switch protein FliN

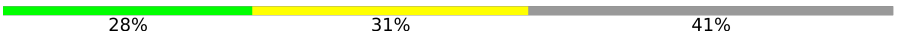
Chain E4:

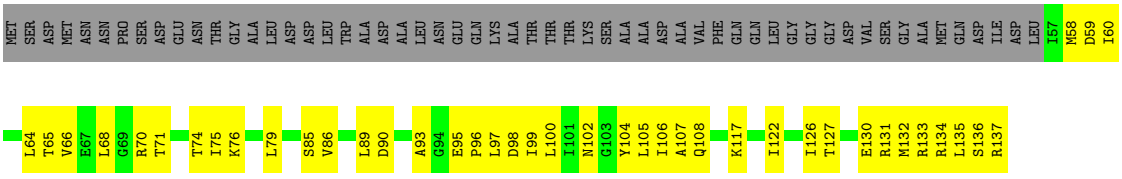




• Molecule 4: Flagellar motor switch protein FliN

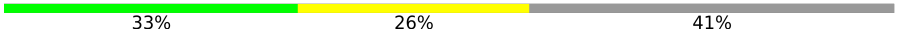
Chain F4:





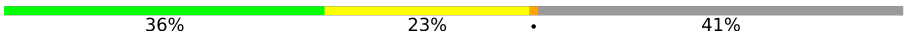
• Molecule 4: Flagellar motor switch protein FliN

Chain D5:



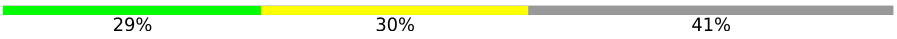
• Molecule 4: Flagellar motor switch protein FliN

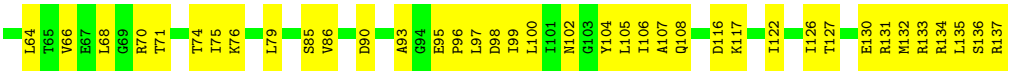
Chain E5:



• Molecule 4: Flagellar motor switch protein FliN

Chain F5:



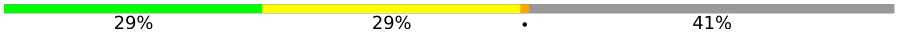


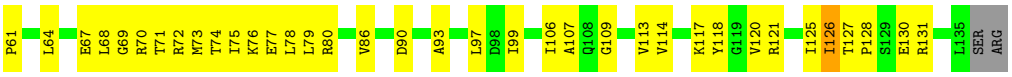
• Molecule 4: Flagellar motor switch protein FliN

Chain D6:

• Molecule 4: Flagellar motor switch protein FliN

Chain E6:



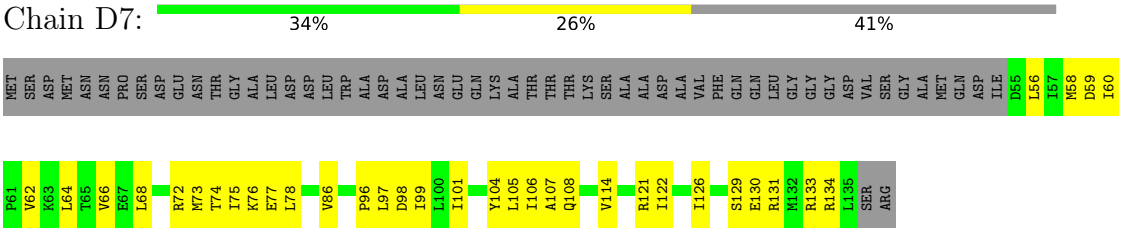


• Molecule 4: Flagellar motor switch protein FliN

Chain F6:

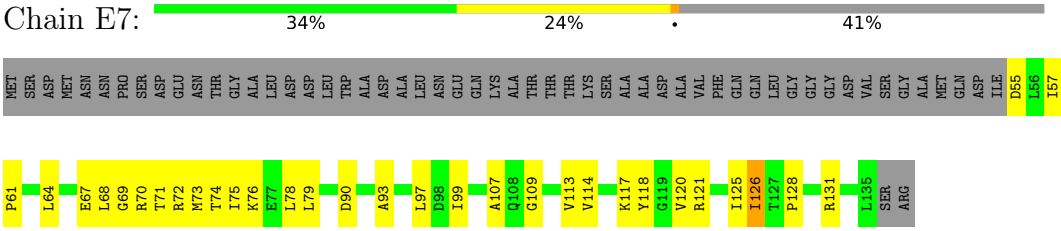
• Molecule 4: Flagellar motor switch protein FliN

Chain D7:



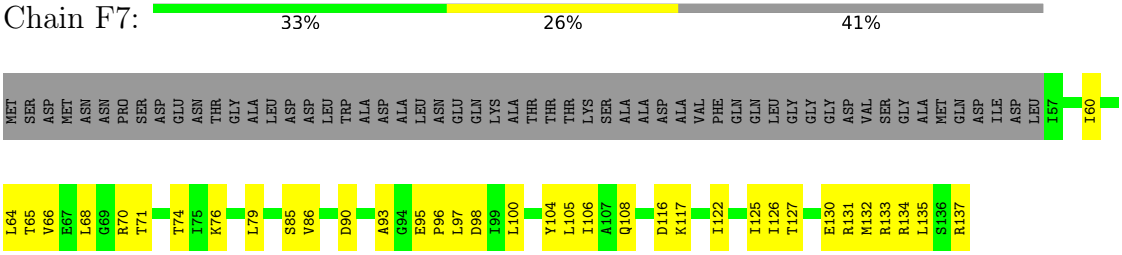
• Molecule 4: Flagellar motor switch protein FliN

Chain E7:



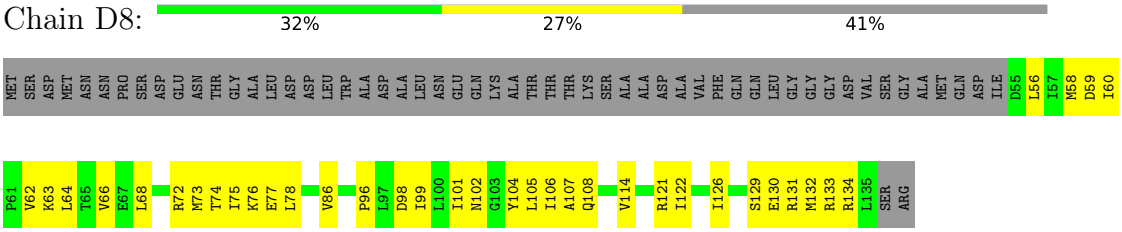
• Molecule 4: Flagellar motor switch protein FliN

Chain F7:



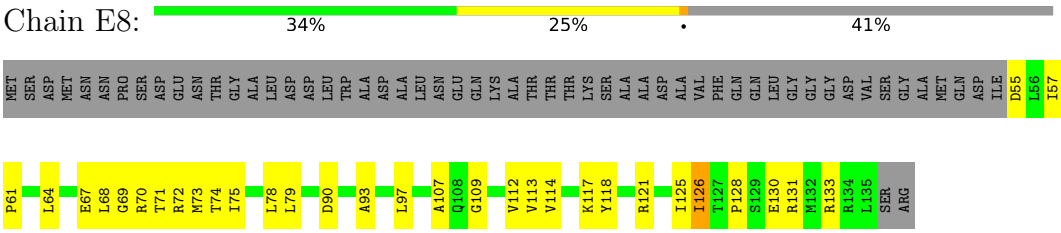
• Molecule 4: Flagellar motor switch protein FliN

Chain D8:



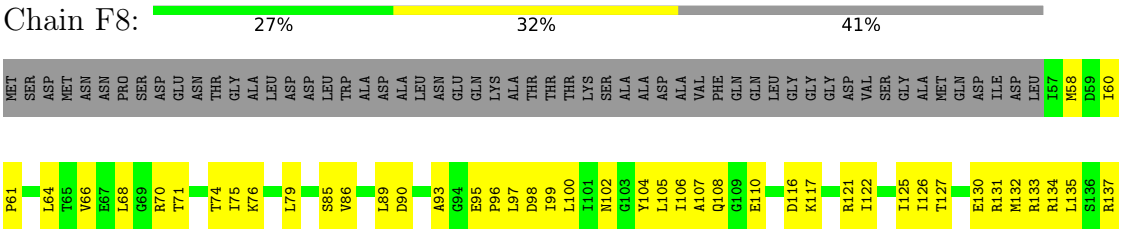
• Molecule 4: Flagellar motor switch protein FliN

Chain E8:



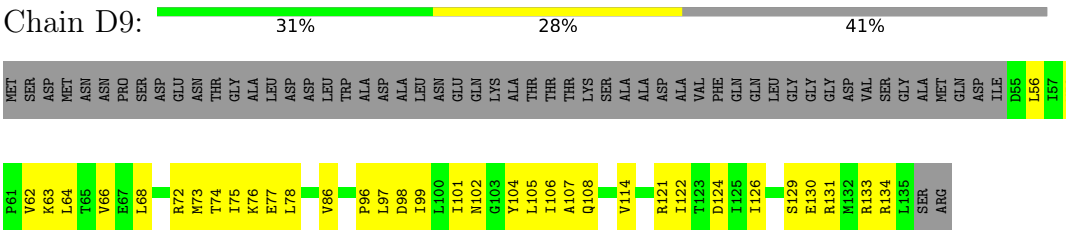
• Molecule 4: Flagellar motor switch protein FliN

Chain F8:



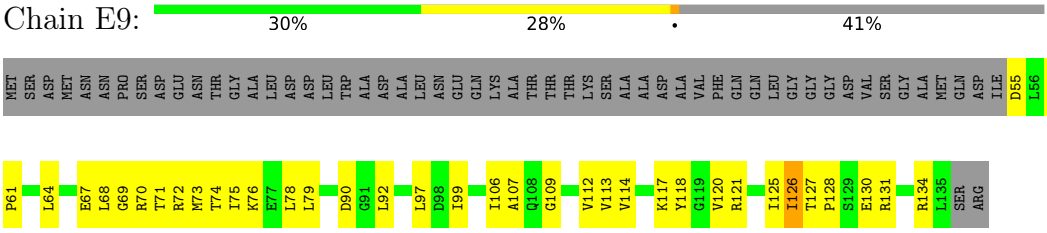
• Molecule 4: Flagellar motor switch protein FliN

Chain D9:



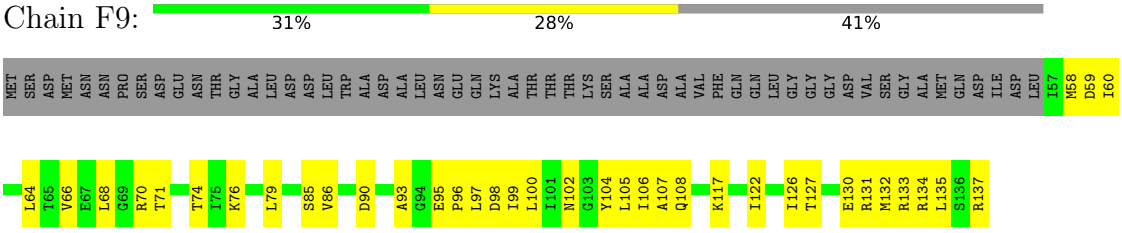
• Molecule 4: Flagellar motor switch protein FliN

Chain E9:



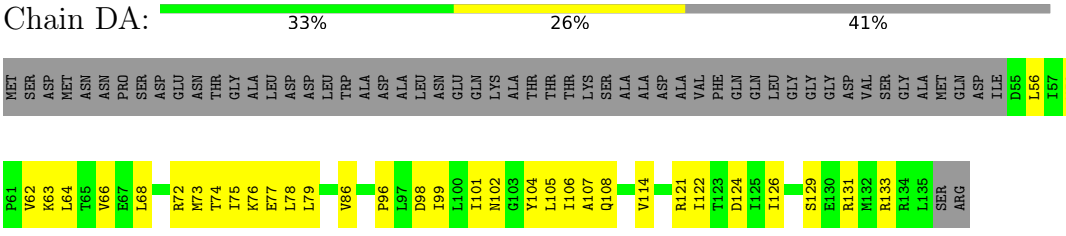
• Molecule 4: Flagellar motor switch protein FliN

Chain F9:



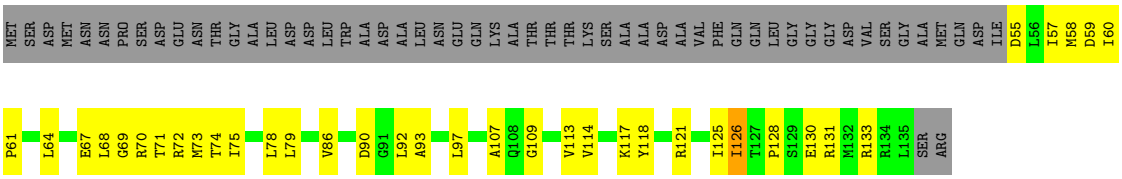
• Molecule 4: Flagellar motor switch protein FliN

Chain DA:



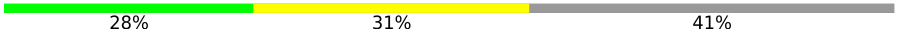
• Molecule 4: Flagellar motor switch protein FliN

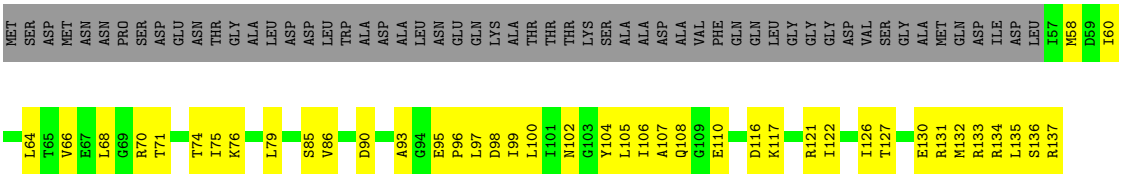
Chain EA:



• Molecule 4: Flagellar motor switch protein FliN

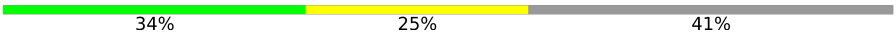
Chain FA:

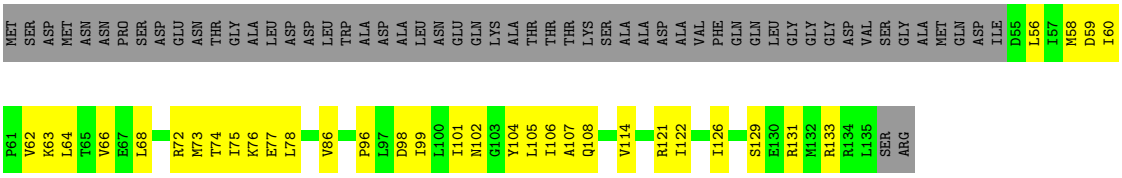




• Molecule 4: Flagellar motor switch protein FliN

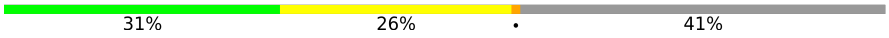
Chain DB:

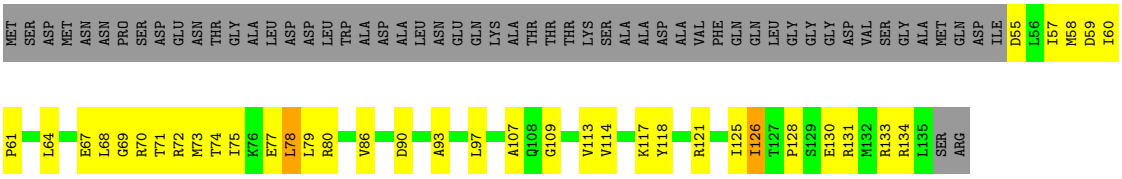




• Molecule 4: Flagellar motor switch protein FliN

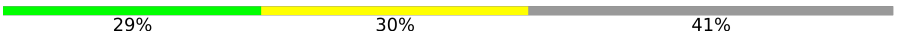
Chain EB:

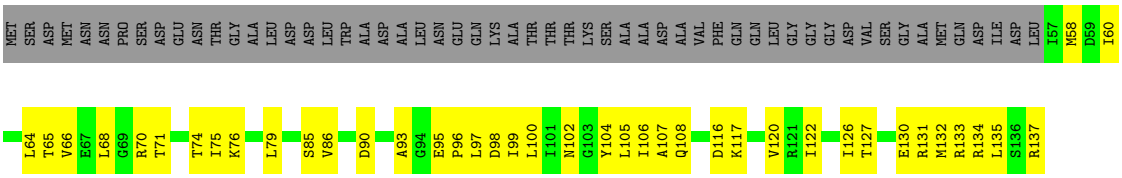




• Molecule 4: Flagellar motor switch protein FliN

Chain FB:



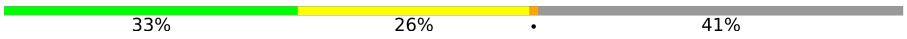


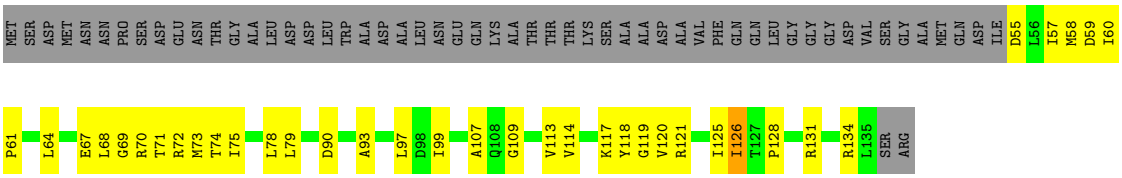
• Molecule 4: Flagellar motor switch protein FliN

Chain DC:

• Molecule 4: Flagellar motor switch protein FliN

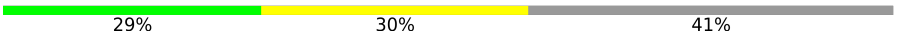
Chain EC:

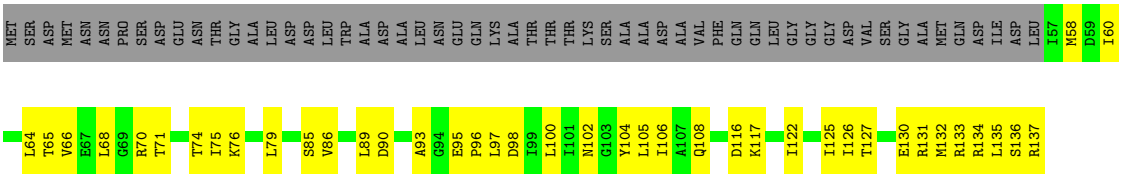




• Molecule 4: Flagellar motor switch protein FliN

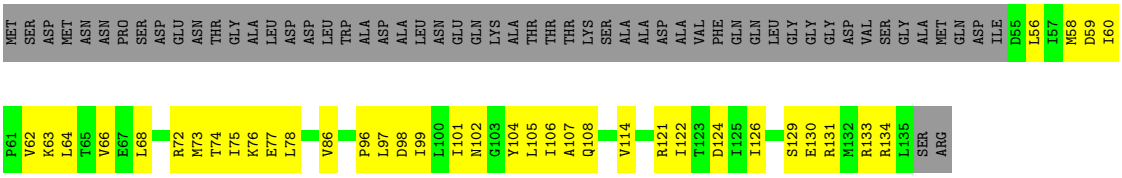
Chain FC:





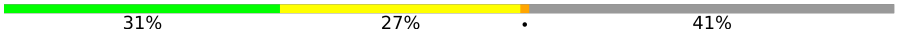
• Molecule 4: Flagellar motor switch protein FliN

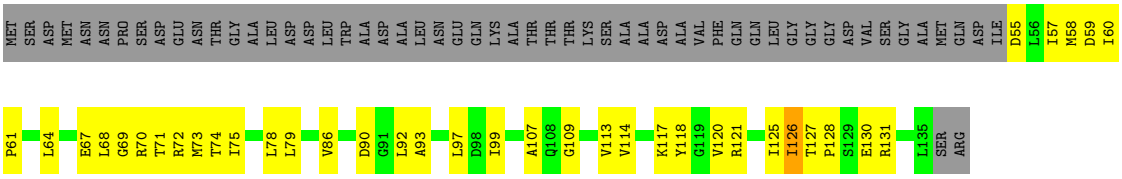
Chain DD:



• Molecule 4: Flagellar motor switch protein FliN

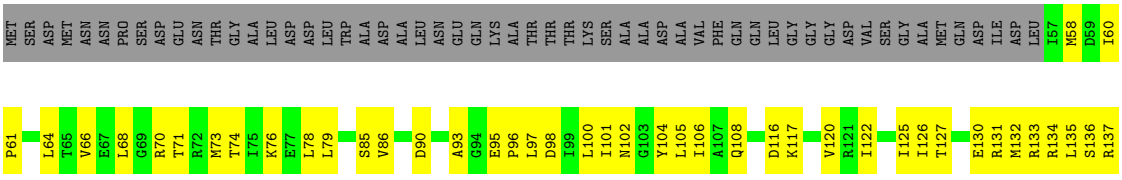
Chain ED:





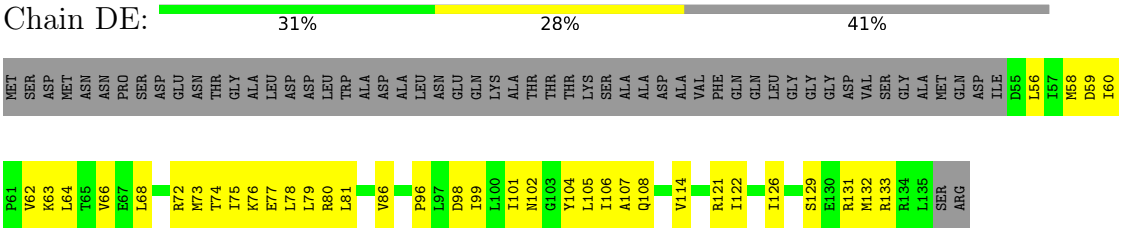
• Molecule 4: Flagellar motor switch protein FliN

Chain FD:



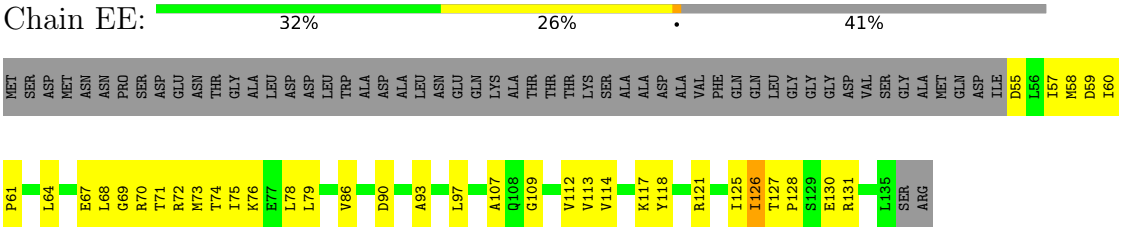
• Molecule 4: Flagellar motor switch protein FliN

Chain DE:



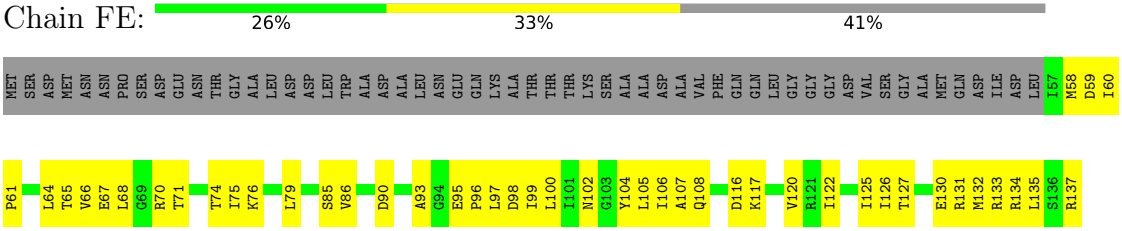
• Molecule 4: Flagellar motor switch protein FliN

Chain EE:



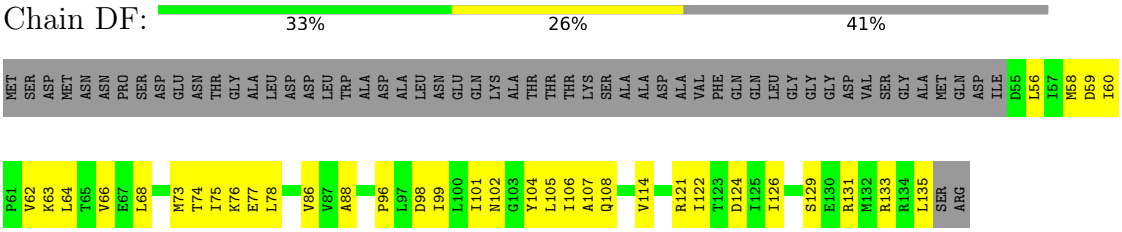
• Molecule 4: Flagellar motor switch protein FliN

Chain FE:



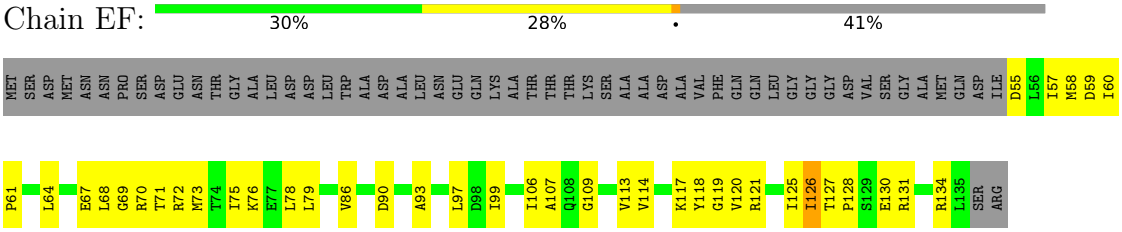
• Molecule 4: Flagellar motor switch protein FliN

Chain DF:



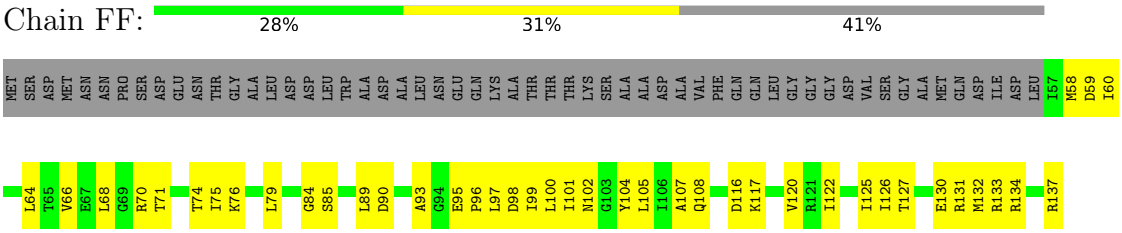
• Molecule 4: Flagellar motor switch protein FliN

Chain EF:



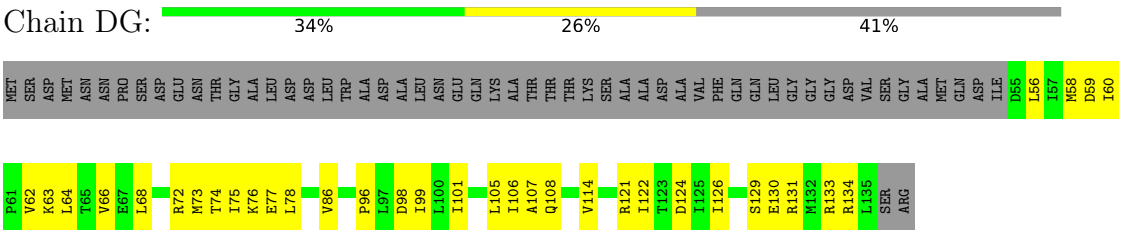
• Molecule 4: Flagellar motor switch protein FliN

Chain FF:



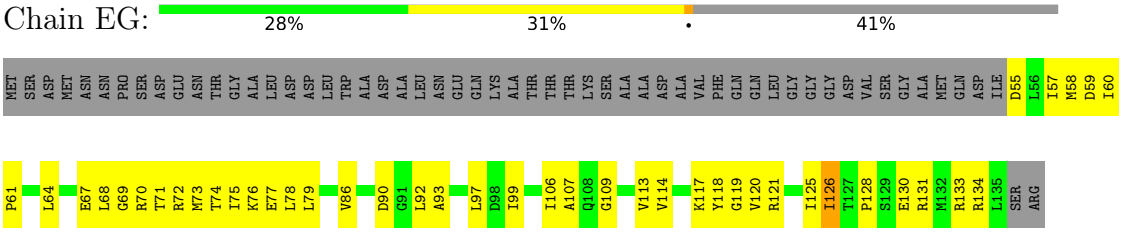
• Molecule 4: Flagellar motor switch protein FliN

Chain DG:



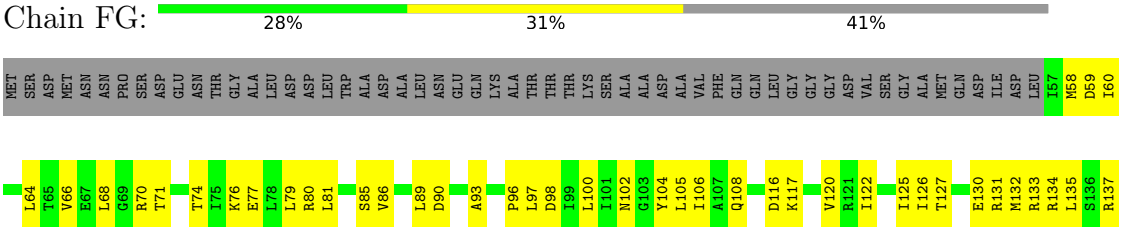
• Molecule 4: Flagellar motor switch protein FliN

Chain EG:



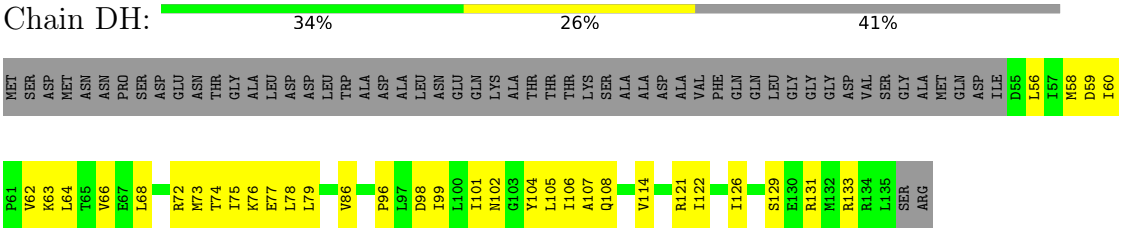
• Molecule 4: Flagellar motor switch protein FliN

Chain FG:



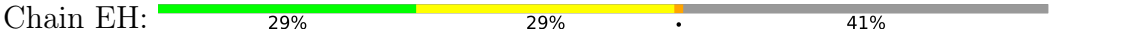
• Molecule 4: Flagellar motor switch protein FliN

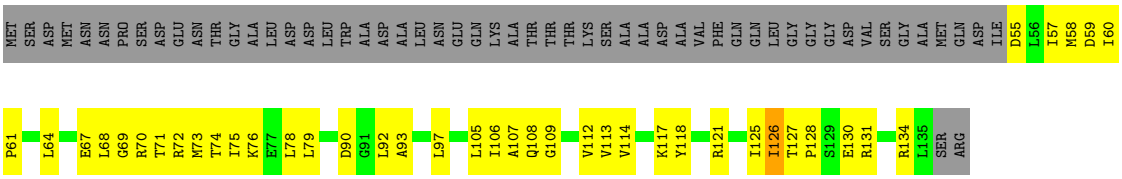
Chain DH:



• Molecule 4: Flagellar motor switch protein FliN

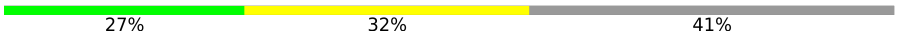
Chain EH:

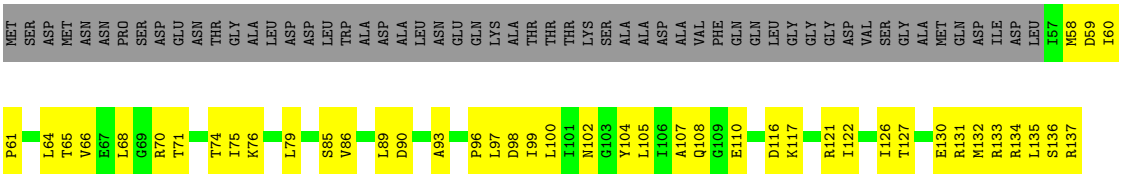




• Molecule 4: Flagellar motor switch protein FliN

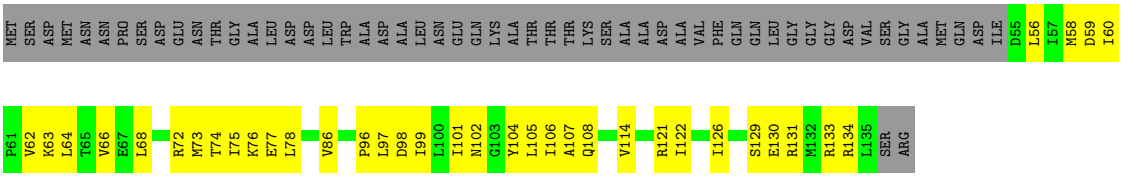
Chain FH:





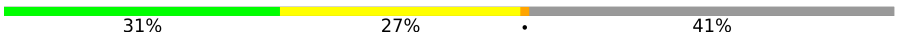
• Molecule 4: Flagellar motor switch protein FliN

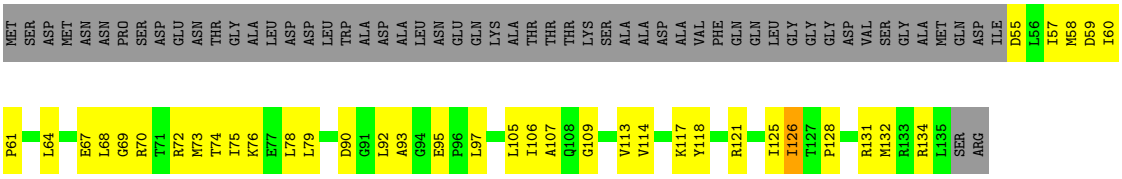
Chain DI:



• Molecule 4: Flagellar motor switch protein FliN

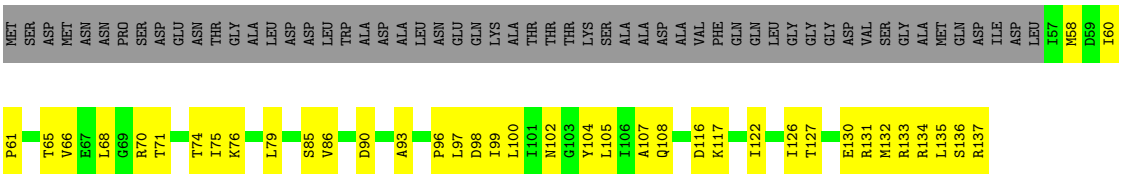
Chain EI:





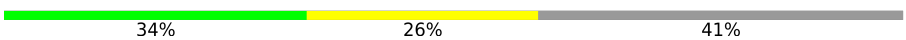
• Molecule 4: Flagellar motor switch protein FliN

Chain FI:



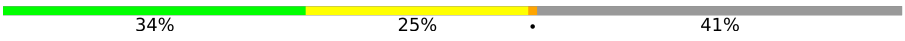
• Molecule 4: Flagellar motor switch protein FliN

Chain DJ:



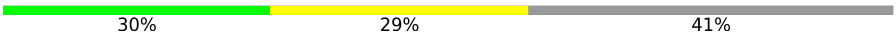
• Molecule 4: Flagellar motor switch protein FliN

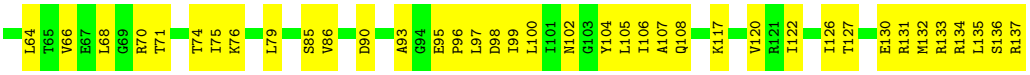
Chain EJ:



• Molecule 4: Flagellar motor switch protein FliN

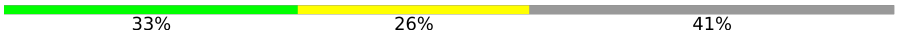
Chain FJ:





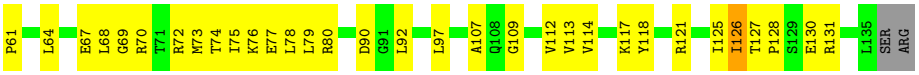
• Molecule 4: Flagellar motor switch protein FliN

Chain DK:



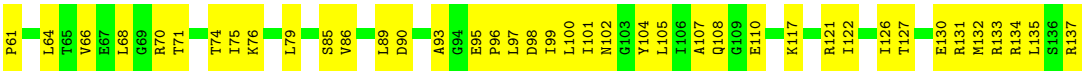
• Molecule 4: Flagellar motor switch protein FliN

Chain EK:



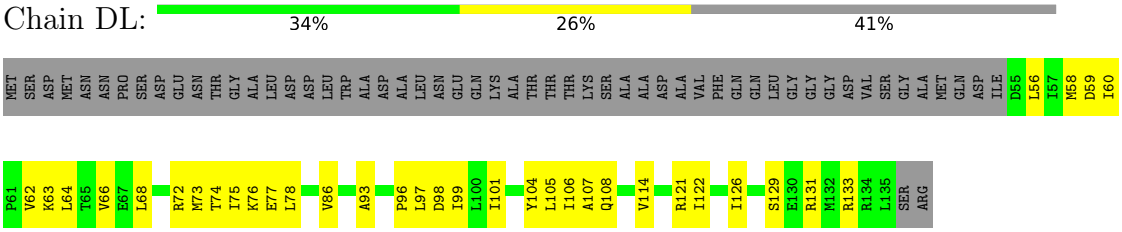
• Molecule 4: Flagellar motor switch protein FliN

Chain FK:



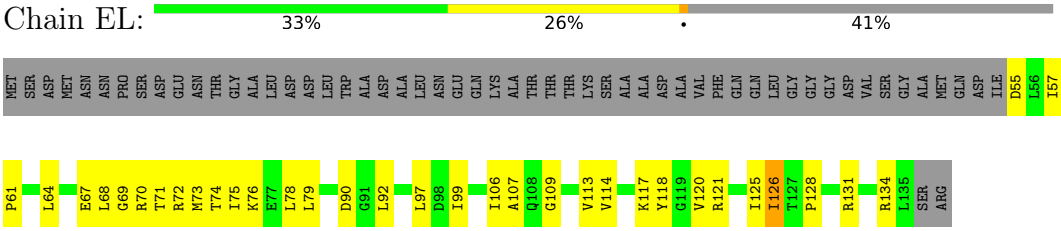
• Molecule 4: Flagellar motor switch protein FliN

Chain DL:



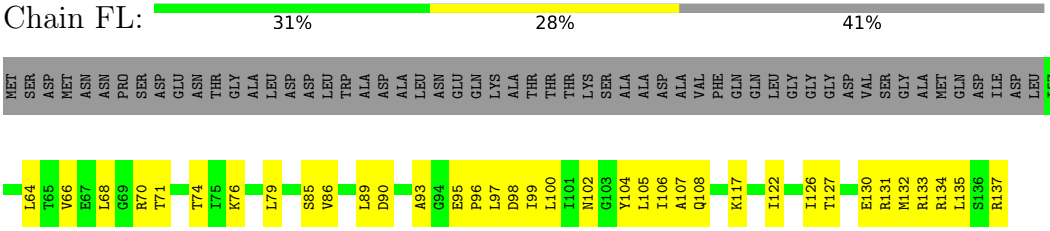
• Molecule 4: Flagellar motor switch protein FliN

Chain EL:



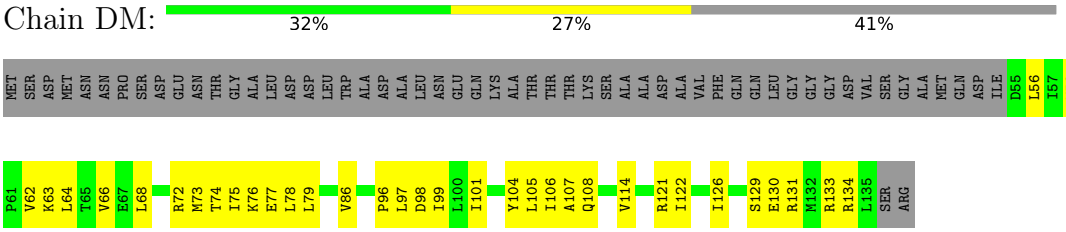
• Molecule 4: Flagellar motor switch protein FliN

Chain FL:



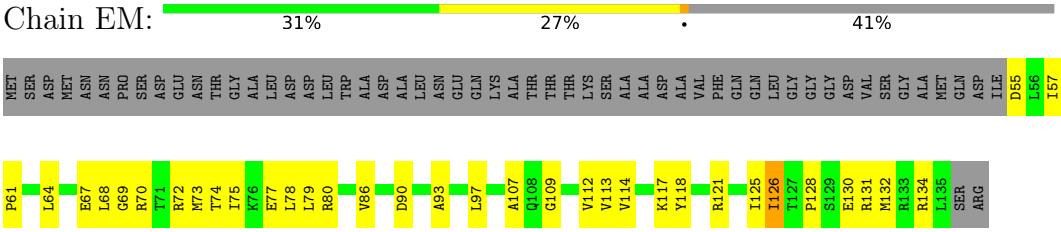
• Molecule 4: Flagellar motor switch protein FliN

Chain DM:



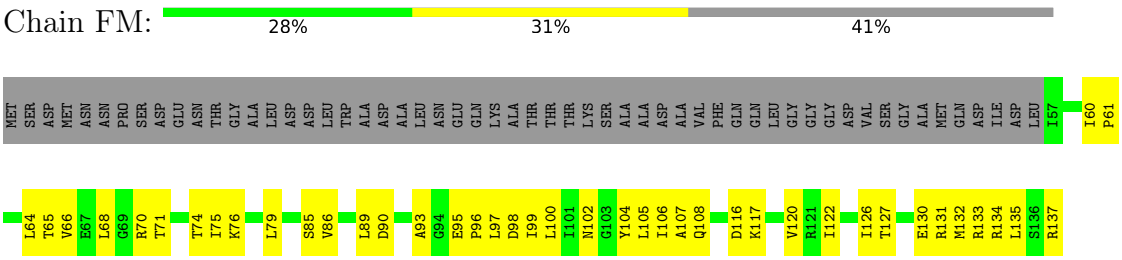
• Molecule 4: Flagellar motor switch protein FliN

Chain EM:



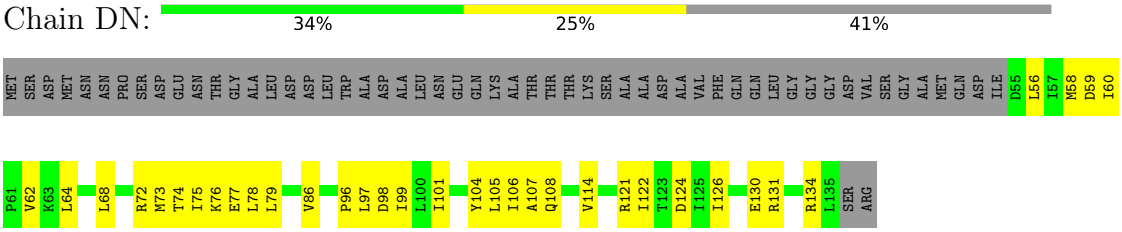
• Molecule 4: Flagellar motor switch protein FliN

Chain FM:



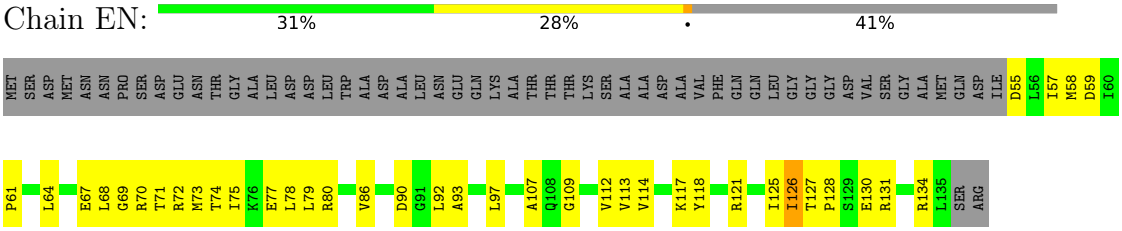
• Molecule 4: Flagellar motor switch protein FliN

Chain DN:



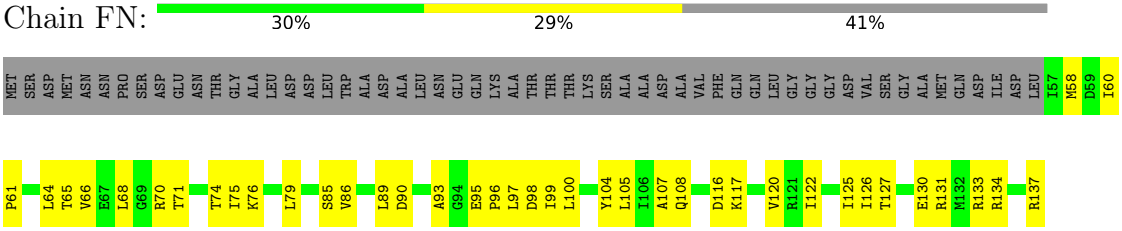
• Molecule 4: Flagellar motor switch protein FliN

Chain EN:



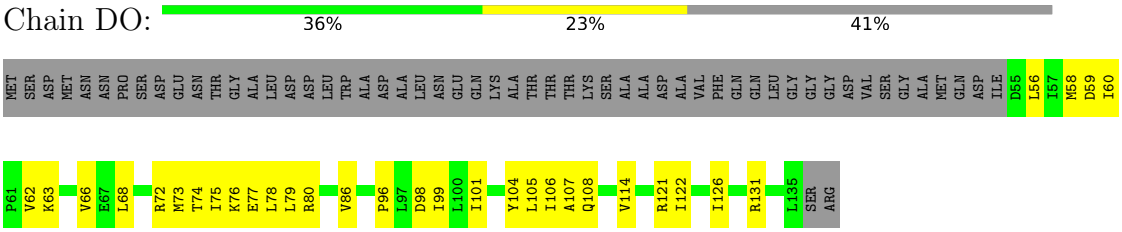
• Molecule 4: Flagellar motor switch protein FliN

Chain FN:



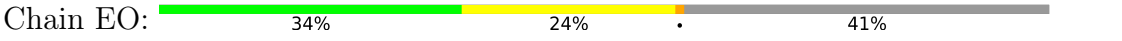
• Molecule 4: Flagellar motor switch protein FliN

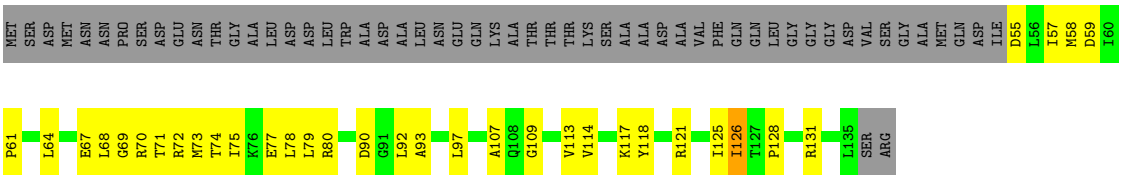
Chain DO:



• Molecule 4: Flagellar motor switch protein FliN

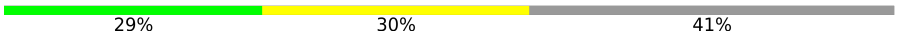
Chain EO:

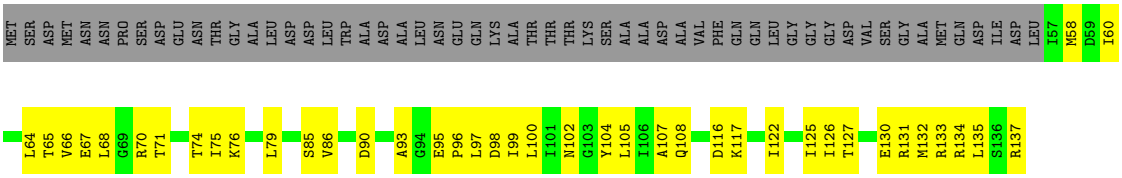




• Molecule 4: Flagellar motor switch protein FliN

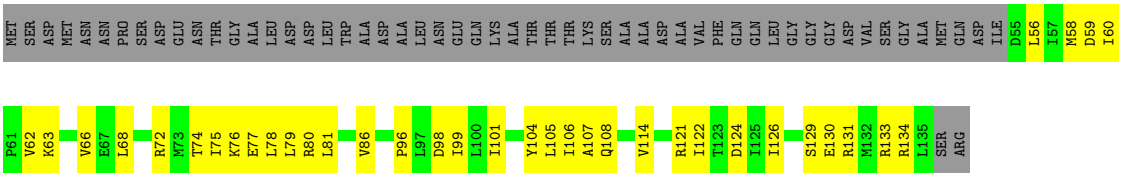
Chain FO:





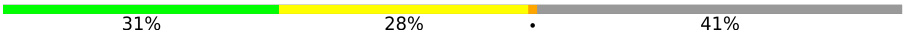
• Molecule 4: Flagellar motor switch protein FliN

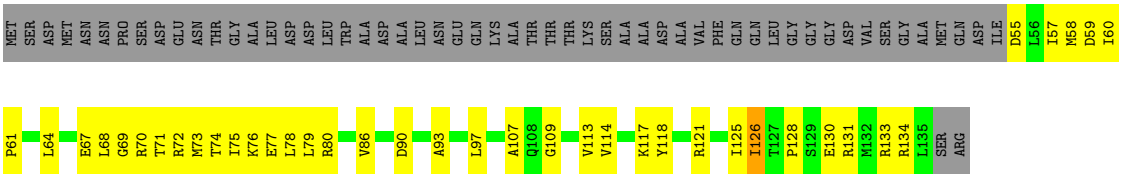
Chain DP:



• Molecule 4: Flagellar motor switch protein FliN

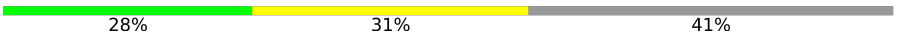
Chain EP:

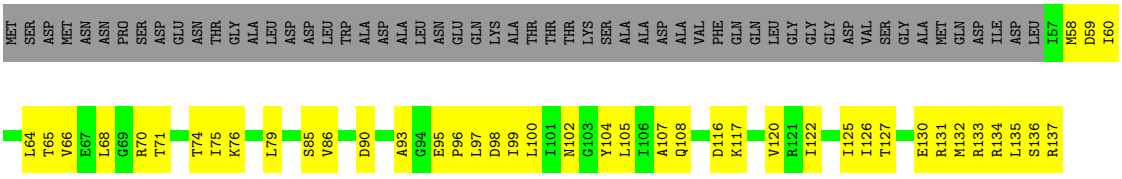




• Molecule 4: Flagellar motor switch protein FliN

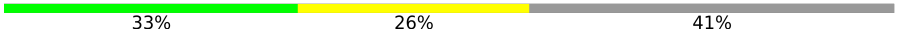
Chain FP:

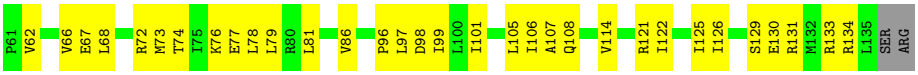




• Molecule 4: Flagellar motor switch protein FliN

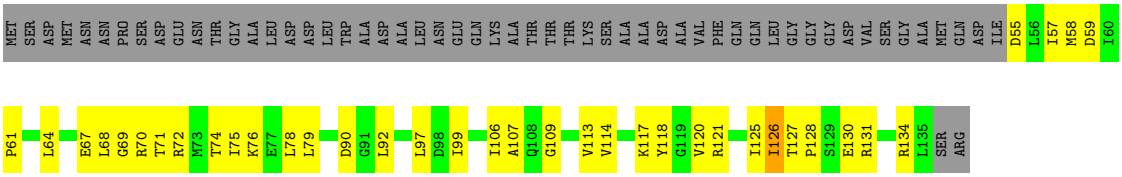
Chain DQ:





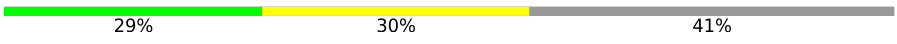
• Molecule 4: Flagellar motor switch protein FliN

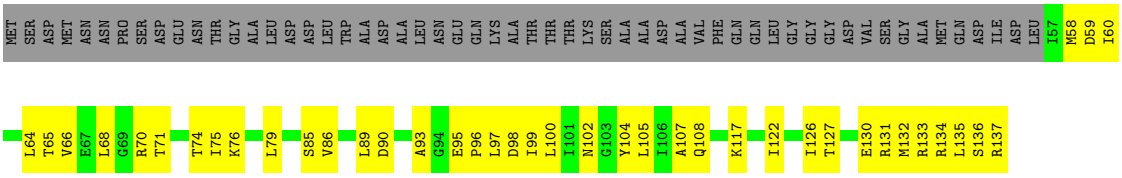
Chain EQ:



• Molecule 4: Flagellar motor switch protein FliN

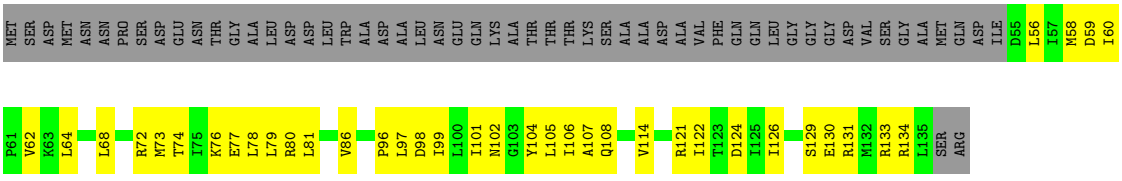
Chain FQ:





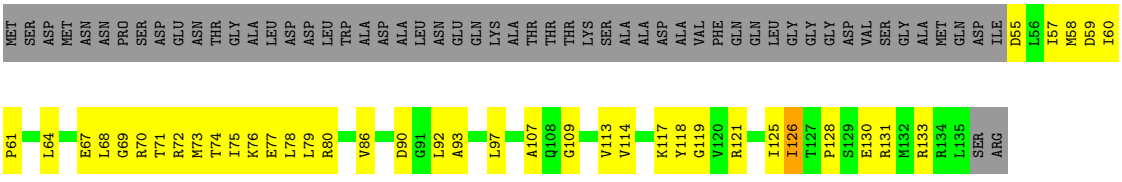
• Molecule 4: Flagellar motor switch protein FliN

Chain DR:



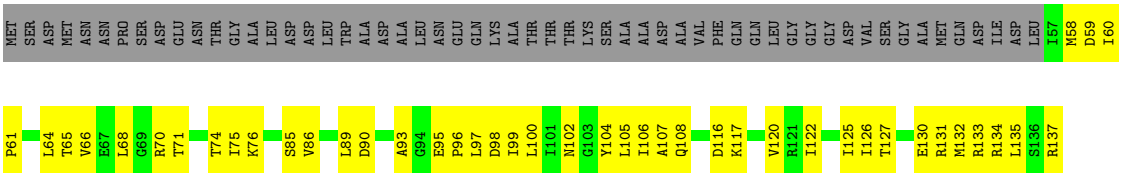
• Molecule 4: Flagellar motor switch protein FliN

Chain ER:



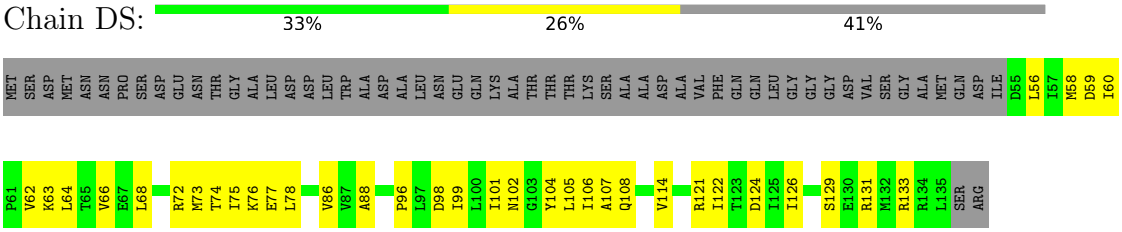
• Molecule 4: Flagellar motor switch protein FliN

Chain FR:



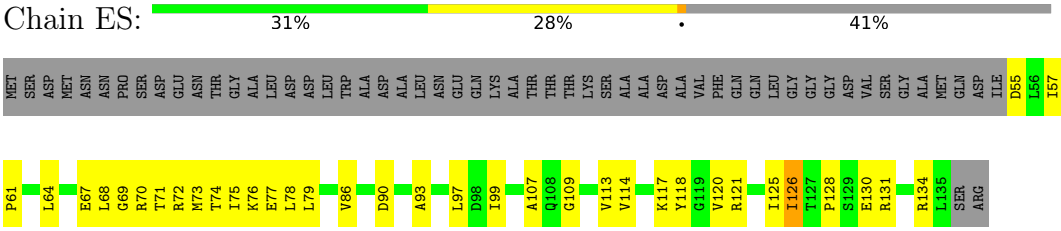
• Molecule 4: Flagellar motor switch protein FliN

Chain DS:



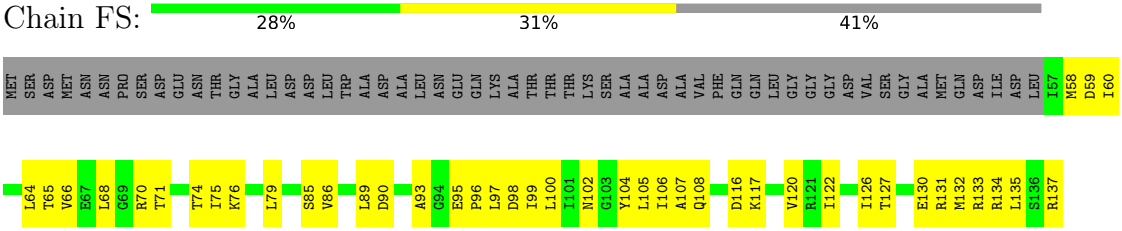
• Molecule 4: Flagellar motor switch protein FliN

Chain ES:



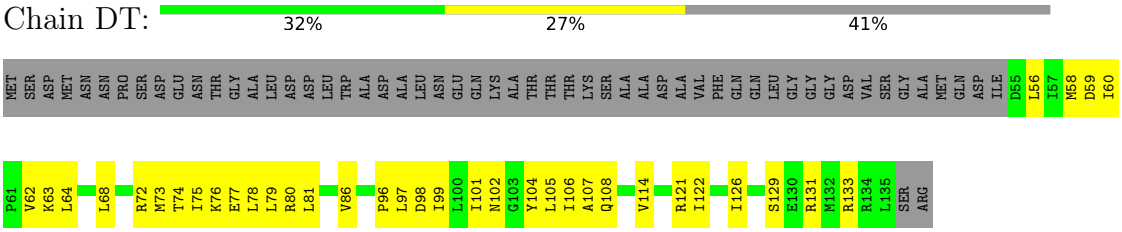
• Molecule 4: Flagellar motor switch protein FliN

Chain FS:



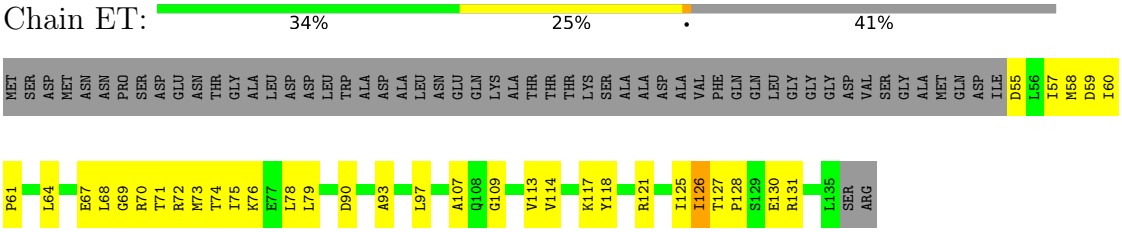
• Molecule 4: Flagellar motor switch protein FliN

Chain DT:



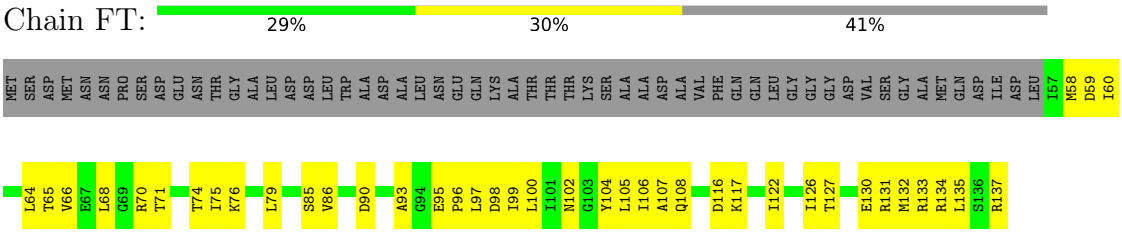
• Molecule 4: Flagellar motor switch protein FliN

Chain ET:



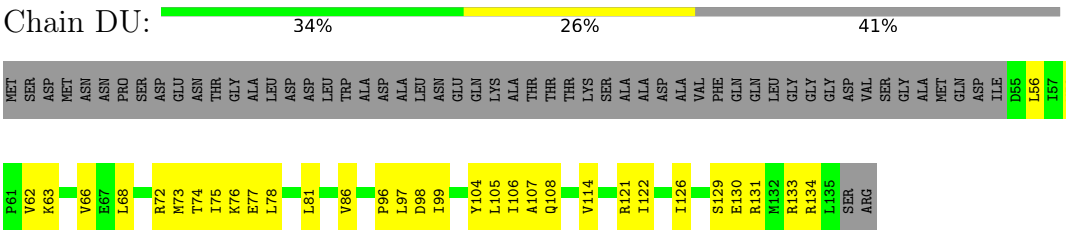
• Molecule 4: Flagellar motor switch protein FliN

Chain FT:



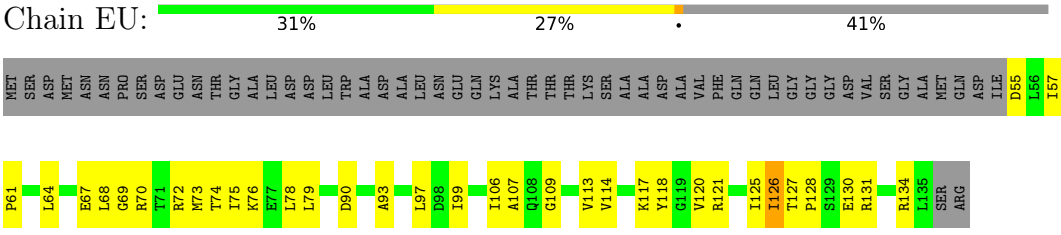
• Molecule 4: Flagellar motor switch protein FliN

Chain DU:



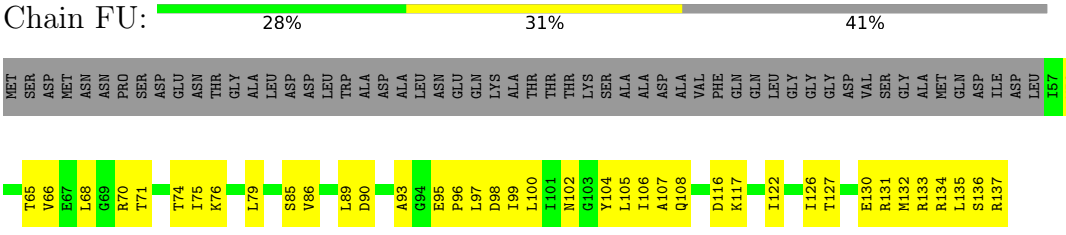
• Molecule 4: Flagellar motor switch protein FliN

Chain EU:



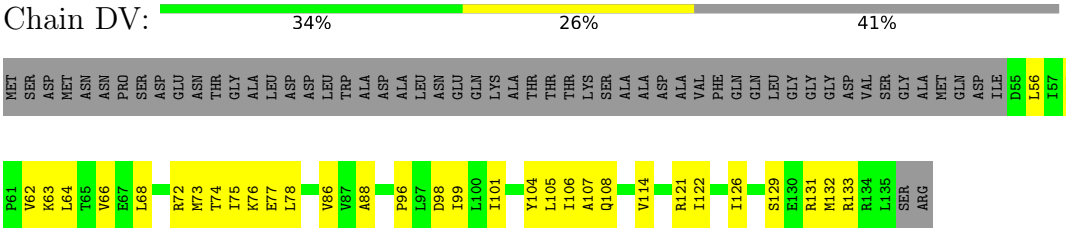
• Molecule 4: Flagellar motor switch protein FliN

Chain FU:



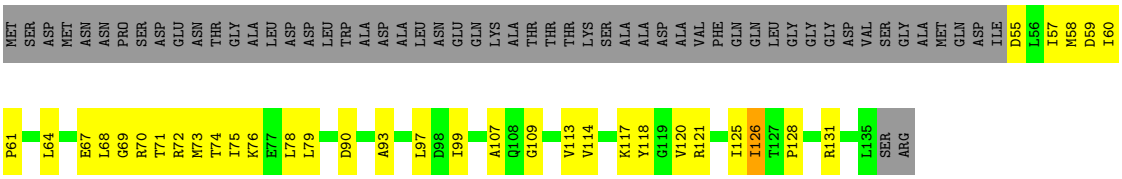
• Molecule 4: Flagellar motor switch protein FliN

Chain DV:



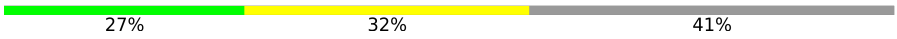
• Molecule 4: Flagellar motor switch protein FliN

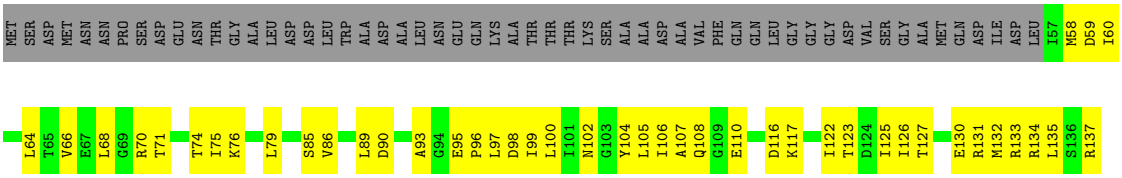
Chain EV:



• Molecule 4: Flagellar motor switch protein FliN

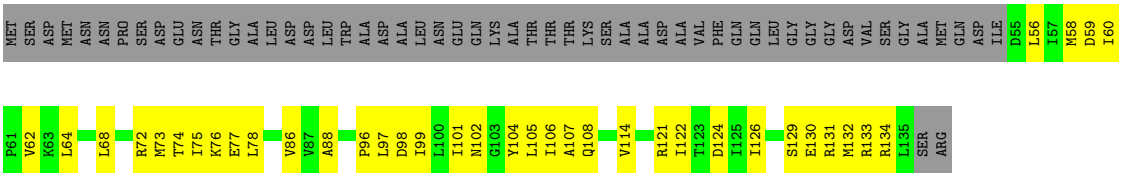
Chain FV:





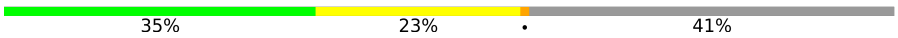
• Molecule 4: Flagellar motor switch protein FliN

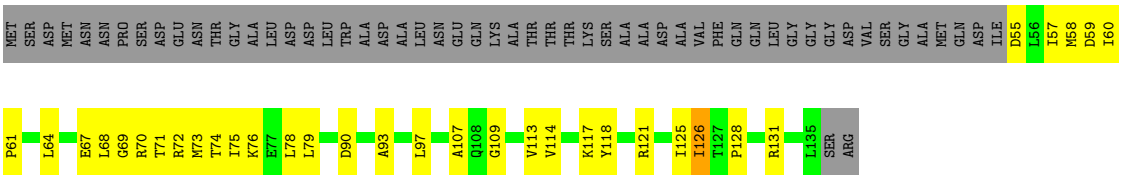
Chain DW:



• Molecule 4: Flagellar motor switch protein FliN

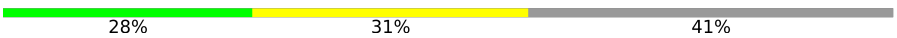
Chain EW:

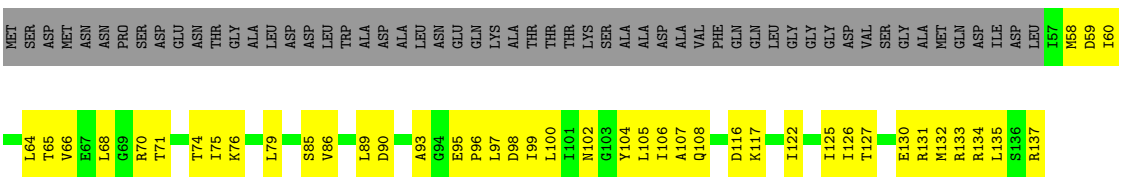




• Molecule 4: Flagellar motor switch protein FliN

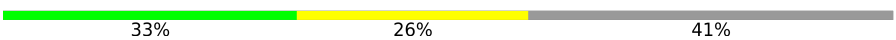
Chain FW:

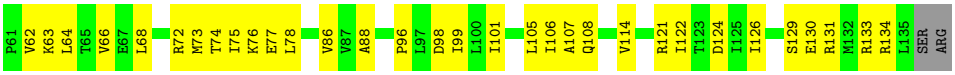




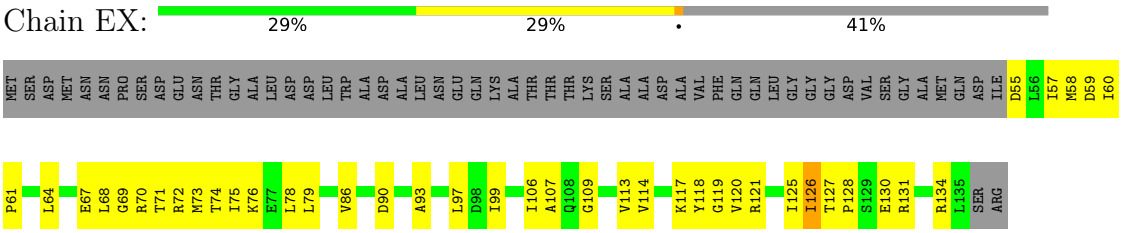
• Molecule 4: Flagellar motor switch protein FliN

Chain DX:

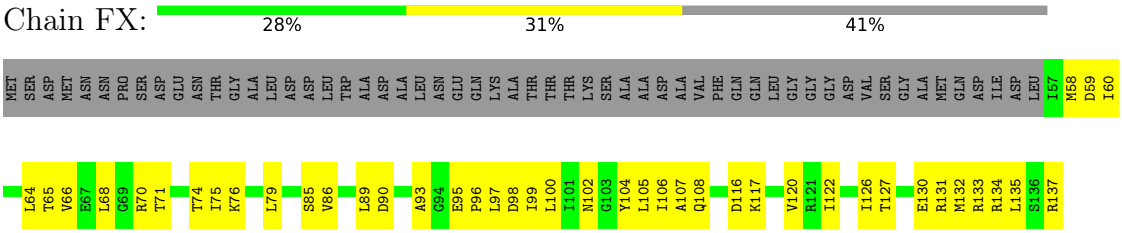




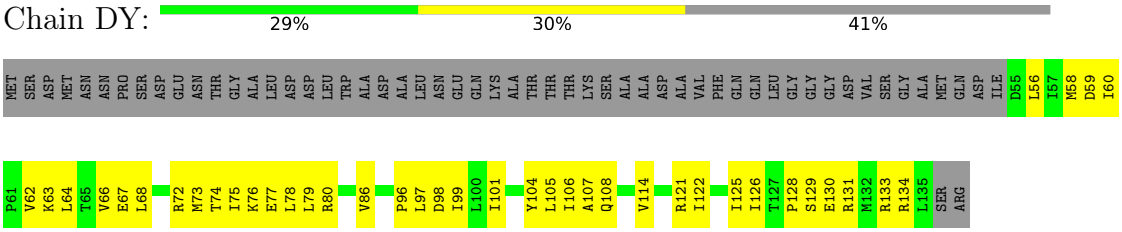
• Molecule 4: Flagellar motor switch protein FliN



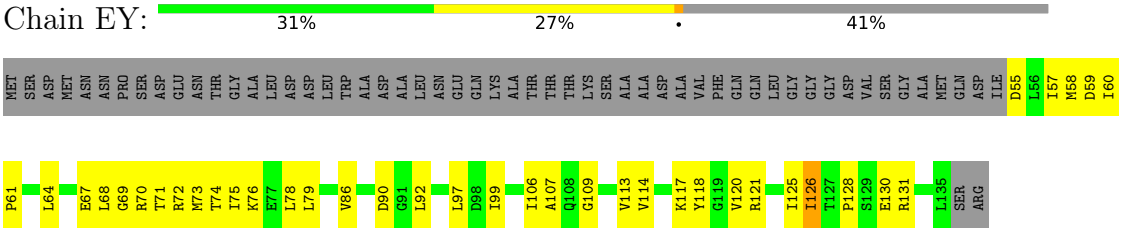
• Molecule 4: Flagellar motor switch protein FliN



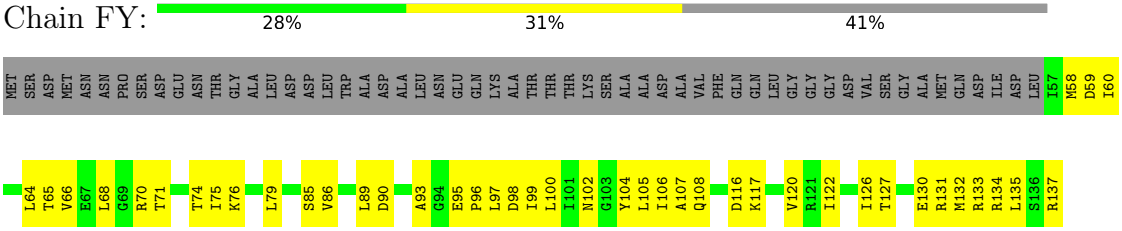
• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15952	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 ($e^-/Å^2$)	58.5	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	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	A1	0.16	0/396	0.39	0/528
1	A2	0.14	0/396	0.43	0/528
1	A3	0.18	0/396	0.40	0/528
1	A4	0.16	0/396	0.43	0/528
1	A5	0.16	0/396	0.45	0/528
1	A6	0.15	0/396	0.46	0/528
1	A7	0.15	0/396	0.42	0/528
1	A8	0.16	0/396	0.46	0/528
1	A9	0.15	0/396	0.42	0/528
1	AA	0.15	0/396	0.42	0/528
1	AB	0.14	0/396	0.43	0/528
1	AC	0.15	0/396	0.41	0/528
1	AD	0.14	0/396	0.40	0/528
1	AE	0.16	0/396	0.42	0/528
1	AF	0.14	0/396	0.41	0/528
1	AG	0.15	0/396	0.42	0/528
1	AH	0.15	0/396	0.43	0/528
1	AI	0.16	0/396	0.43	0/528
1	AJ	0.15	0/396	0.45	0/528
1	AK	0.15	0/396	0.43	0/528
1	AL	0.16	0/396	0.44	0/528
1	AM	0.15	0/396	0.47	0/528
1	AN	0.14	0/396	0.41	0/528
1	AO	0.15	0/396	0.44	0/528
1	AP	0.15	0/396	0.44	0/528
1	AQ	0.18	0/396	0.41	0/528
1	AR	0.15	0/396	0.46	0/528
1	AS	0.14	0/396	0.44	0/528
1	AT	0.14	0/396	0.44	0/528
1	AU	0.14	0/396	0.41	0/528
1	AV	0.21	0/396	0.45	0/528
1	AW	0.14	0/396	0.43	0/528
1	AX	0.14	0/396	0.40	0/528
1	AY	0.19	0/396	0.46	0/528

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	B1	0.16	0/2604	0.42	2/3511 (0.1%)
2	B2	0.15	0/2604	0.40	2/3511 (0.1%)
2	B3	0.16	0/2604	0.41	0/3511
2	B4	0.16	0/2604	0.41	2/3511 (0.1%)
2	B5	0.16	0/2604	0.42	2/3511 (0.1%)
2	B6	0.16	0/2604	0.42	2/3511 (0.1%)
2	B7	0.16	0/2604	0.42	2/3511 (0.1%)
2	B8	0.15	0/2604	0.42	2/3511 (0.1%)
2	B9	0.16	0/2604	0.41	2/3511 (0.1%)
2	BA	0.15	0/2604	0.40	2/3511 (0.1%)
2	BB	0.17	0/2604	0.43	2/3511 (0.1%)
2	BC	0.16	0/2604	0.43	2/3511 (0.1%)
2	BD	0.16	0/2604	0.42	2/3511 (0.1%)
2	BE	0.16	0/2604	0.43	2/3511 (0.1%)
2	BF	0.16	0/2604	0.41	2/3511 (0.1%)
2	BG	0.16	0/2604	0.41	2/3511 (0.1%)
2	BH	0.16	0/2604	0.43	2/3511 (0.1%)
2	BI	0.16	0/2604	0.42	2/3511 (0.1%)
2	BJ	0.17	0/2604	0.43	2/3511 (0.1%)
2	BK	0.16	0/2604	0.43	2/3511 (0.1%)
2	BL	0.16	0/2604	0.42	2/3511 (0.1%)
2	BM	0.16	0/2604	0.42	2/3511 (0.1%)
2	BN	0.16	0/2604	0.41	2/3511 (0.1%)
2	BO	0.16	0/2604	0.41	2/3511 (0.1%)
2	BP	0.16	0/2604	0.43	2/3511 (0.1%)
2	BQ	0.17	0/2604	0.43	2/3511 (0.1%)
2	BR	0.17	0/2604	0.43	2/3511 (0.1%)
2	BS	0.17	0/2604	0.43	2/3511 (0.1%)
2	BT	0.15	0/2604	0.41	2/3511 (0.1%)
2	BU	0.16	0/2604	0.41	2/3511 (0.1%)
2	BV	0.16	0/2604	0.41	2/3511 (0.1%)
2	BW	0.16	0/2604	0.41	2/3511 (0.1%)
2	BX	0.16	0/2604	0.40	2/3511 (0.1%)
2	BY	0.16	0/2604	0.42	2/3511 (0.1%)
3	C1	0.15	0/2401	0.32	0/3267
3	C2	0.16	0/2401	0.34	0/3267
3	C3	0.16	0/2401	0.34	0/3267
3	C4	0.15	0/2401	0.33	0/3267
3	C5	0.16	0/2401	0.33	0/3267
3	C6	0.16	0/2401	0.34	0/3267
3	C7	0.16	0/2401	0.34	0/3267
3	C8	0.15	0/2401	0.32	0/3267
3	C9	0.15	0/2401	0.32	0/3267

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	CA	0.16	0/2401	0.34	0/3267
3	CB	0.16	0/2401	0.34	0/3267
3	CC	0.16	0/2401	0.33	0/3267
3	CD	0.16	0/2401	0.34	0/3267
3	CE	0.16	0/2401	0.34	0/3267
3	CF	0.16	0/2401	0.32	0/3267
3	CG	0.15	0/2401	0.33	0/3267
3	CH	0.15	0/2401	0.33	0/3267
3	CI	0.15	0/2401	0.32	0/3267
3	CJ	0.16	0/2401	0.34	0/3267
3	CK	0.15	0/2401	0.34	0/3267
3	CL	0.15	0/2401	0.33	0/3267
3	CM	0.15	0/2401	0.33	0/3267
3	CN	0.16	0/2401	0.33	0/3267
3	CO	0.16	0/2401	0.34	0/3267
3	CP	0.16	0/2401	0.33	0/3267
3	CQ	0.15	0/2401	0.33	0/3267
3	CR	0.15	0/2401	0.33	0/3267
3	CS	0.16	0/2401	0.34	0/3267
3	CT	0.16	0/2401	0.34	0/3267
3	CU	0.16	0/2401	0.34	0/3267
3	CV	0.16	0/2401	0.33	0/3267
3	CW	0.15	0/2401	0.32	0/3267
3	CX	0.15	0/2401	0.33	0/3267
3	CY	0.15	0/2401	0.33	0/3267
4	D1	0.15	0/629	0.40	0/851
4	D2	0.15	0/629	0.40	0/851
4	D3	0.15	0/629	0.40	0/851
4	D4	0.15	0/629	0.42	0/851
4	D5	0.16	0/629	0.42	0/851
4	D6	0.15	0/629	0.40	0/851
4	D7	0.15	0/629	0.41	0/851
4	D8	0.14	0/629	0.42	0/851
4	D9	0.15	0/629	0.41	0/851
4	DA	0.15	0/629	0.40	0/851
4	DB	0.15	0/629	0.40	0/851
4	DC	0.15	0/629	0.41	0/851
4	DD	0.15	0/629	0.41	0/851
4	DE	0.16	0/629	0.42	0/851
4	DF	0.14	0/629	0.41	0/851
4	DG	0.16	0/629	0.44	0/851
4	DH	0.14	0/629	0.40	0/851
4	DI	0.15	0/629	0.42	0/851

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	DJ	0.15	0/629	0.41	0/851
4	DK	0.14	0/629	0.40	0/851
4	DL	0.15	0/629	0.41	0/851
4	DM	0.15	0/629	0.41	0/851
4	DN	0.15	0/629	0.40	0/851
4	DO	0.15	0/629	0.41	0/851
4	DP	0.15	0/629	0.42	0/851
4	DQ	0.20	0/629	0.46	0/851
4	DR	0.14	0/629	0.42	0/851
4	DS	0.16	0/629	0.41	0/851
4	DT	0.15	0/629	0.41	0/851
4	DU	0.15	0/629	0.41	0/851
4	DV	0.15	0/629	0.41	0/851
4	DW	0.14	0/629	0.41	0/851
4	DX	0.15	0/629	0.43	0/851
4	DY	0.20	0/629	0.45	0/851
4	E1	0.17	0/629	0.49	0/851
4	E2	0.18	0/629	0.50	0/851
4	E3	0.17	0/629	0.49	0/851
4	E4	0.17	0/629	0.49	0/851
4	E5	0.17	0/629	0.49	0/851
4	E6	0.19	0/629	0.53	0/851
4	E7	0.17	0/629	0.50	0/851
4	E8	0.17	0/629	0.50	0/851
4	E9	0.17	0/629	0.51	1/851 (0.1%)
4	EA	0.17	0/629	0.50	0/851
4	EB	0.21	0/629	0.58	1/851 (0.1%)
4	EC	0.16	0/629	0.48	0/851
4	ED	0.23	0/629	0.49	0/851
4	EE	0.18	0/629	0.50	0/851
4	EF	0.18	0/629	0.50	0/851
4	EG	0.19	0/629	0.51	0/851
4	EH	0.17	0/629	0.50	0/851
4	EI	0.19	0/629	0.53	0/851
4	EJ	0.17	0/629	0.49	0/851
4	EK	0.19	0/629	0.51	0/851
4	EL	0.18	0/629	0.49	0/851
4	EM	0.20	0/629	0.53	0/851
4	EN	0.20	0/629	0.55	0/851
4	EO	0.20	0/629	0.56	0/851
4	EP	0.21	0/629	0.51	0/851
4	EQ	0.17	0/629	0.50	0/851
4	ER	0.21	0/629	0.53	0/851

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	ES	0.17	0/629	0.50	0/851
4	ET	0.17	0/629	0.50	0/851
4	EU	0.18	0/629	0.51	0/851
4	EV	0.17	0/629	0.49	0/851
4	EW	0.17	0/629	0.51	0/851
4	EX	0.18	0/629	0.51	0/851
4	EY	0.18	0/629	0.50	0/851
4	F1	0.17	0/631	0.48	0/851
4	F2	0.17	0/631	0.48	0/851
4	F3	0.17	0/631	0.49	0/851
4	F4	0.17	0/631	0.48	0/851
4	F5	0.18	0/631	0.51	0/851
4	F6	0.19	0/631	0.52	0/851
4	F7	0.19	0/631	0.51	0/851
4	F8	0.19	0/631	0.53	0/851
4	F9	0.18	0/631	0.48	0/851
4	FA	0.18	0/631	0.48	0/851
4	FB	0.18	0/631	0.51	0/851
4	FC	0.18	0/631	0.48	0/851
4	FD	0.18	0/631	0.48	0/851
4	FE	0.19	0/631	0.51	0/851
4	FF	0.18	0/631	0.48	0/851
4	FG	0.19	0/631	0.50	0/851
4	FH	0.18	0/631	0.49	0/851
4	FI	0.18	0/631	0.50	0/851
4	FJ	0.17	0/631	0.46	0/851
4	FK	0.19	0/631	0.50	0/851
4	FL	0.16	0/631	0.45	0/851
4	FM	0.18	0/631	0.48	0/851
4	FN	0.18	0/631	0.47	0/851
4	FO	0.19	0/631	0.51	0/851
4	FP	0.18	0/631	0.49	0/851
4	FQ	0.17	0/631	0.47	0/851
4	FR	0.18	0/631	0.48	0/851
4	FS	0.18	0/631	0.50	0/851
4	FT	0.20	0/631	0.51	0/851
4	FU	0.18	0/631	0.50	0/851
4	FV	0.18	0/631	0.48	0/851
4	FW	0.19	0/631	0.51	0/851
4	FX	0.19	0/631	0.52	0/851
4	FY	0.19	0/631	0.52	0/851
All	All	0.16	0/247860	0.41	68/335206 (0.0%)

There are no bond length outliers.

All (68) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	BM	242	VAL	CA-C-N	5.91	132.83	121.54
2	BM	242	VAL	C-N-CA	5.91	132.83	121.54
2	BJ	242	VAL	CA-C-N	5.87	132.75	121.54
2	BJ	242	VAL	C-N-CA	5.87	132.75	121.54
2	BN	242	VAL	CA-C-N	5.77	132.56	121.54
2	BN	242	VAL	C-N-CA	5.77	132.56	121.54
2	BS	242	VAL	CA-C-N	5.76	132.54	121.54
2	BS	242	VAL	C-N-CA	5.76	132.54	121.54
2	BR	242	VAL	CA-C-N	5.74	132.50	121.54
2	BR	242	VAL	C-N-CA	5.74	132.50	121.54
4	EB	78	LEU	CA-CB-CG	5.73	136.36	116.30
2	BU	242	VAL	CA-C-N	5.72	132.46	121.54
2	BU	242	VAL	C-N-CA	5.72	132.46	121.54
2	B2	242	VAL	CA-C-N	5.67	132.36	121.54
2	B2	242	VAL	C-N-CA	5.67	132.36	121.54
2	B8	242	VAL	CA-C-N	5.64	132.31	121.54
2	B8	242	VAL	C-N-CA	5.64	132.31	121.54
2	BQ	242	VAL	CA-C-N	5.64	132.31	121.54
2	BQ	242	VAL	C-N-CA	5.64	132.31	121.54
2	BH	242	VAL	CA-C-N	5.63	132.30	121.54
2	BH	242	VAL	C-N-CA	5.63	132.30	121.54
2	BB	242	VAL	CA-C-N	5.62	132.27	121.54
2	BB	242	VAL	C-N-CA	5.62	132.27	121.54
2	BY	242	VAL	CA-C-N	5.59	132.21	121.54
2	BY	242	VAL	C-N-CA	5.59	132.21	121.54
2	B9	242	VAL	CA-C-N	5.56	132.15	121.54
2	B9	242	VAL	C-N-CA	5.56	132.15	121.54
2	BL	242	VAL	CA-C-N	5.49	132.03	121.54
2	BL	242	VAL	C-N-CA	5.49	132.03	121.54
2	BE	242	VAL	CA-C-N	5.44	131.93	121.54
2	BE	242	VAL	C-N-CA	5.44	131.93	121.54
2	B5	242	VAL	CA-C-N	5.44	131.92	121.54
2	B5	242	VAL	C-N-CA	5.44	131.92	121.54
2	BP	242	VAL	CA-C-N	5.42	131.88	121.54
2	BP	242	VAL	C-N-CA	5.42	131.88	121.54
2	BI	242	VAL	CA-C-N	5.36	131.78	121.54
2	BI	242	VAL	C-N-CA	5.36	131.78	121.54
2	B4	242	VAL	CA-C-N	5.36	131.77	121.54
2	B4	242	VAL	C-N-CA	5.36	131.77	121.54
2	BG	242	VAL	CA-C-N	5.36	131.77	121.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	BG	242	VAL	C-N-CA	5.36	131.77	121.54
2	BC	242	VAL	CA-C-N	5.34	131.74	121.54
2	BC	242	VAL	C-N-CA	5.34	131.74	121.54
2	B1	242	VAL	CA-C-N	5.34	131.73	121.54
2	B1	242	VAL	C-N-CA	5.34	131.73	121.54
2	B6	242	VAL	CA-C-N	5.33	131.73	121.54
2	B6	242	VAL	C-N-CA	5.33	131.73	121.54
2	B7	242	VAL	CA-C-N	5.33	131.72	121.54
2	B7	242	VAL	C-N-CA	5.33	131.72	121.54
2	BX	242	VAL	CA-C-N	5.31	131.69	121.54
2	BX	242	VAL	C-N-CA	5.31	131.69	121.54
2	BT	242	VAL	CA-C-N	5.31	131.69	121.54
2	BT	242	VAL	C-N-CA	5.31	131.69	121.54
2	BK	242	VAL	CA-C-N	5.30	131.66	121.54
2	BK	242	VAL	C-N-CA	5.30	131.66	121.54
2	BA	242	VAL	CA-C-N	5.29	131.65	121.54
2	BA	242	VAL	C-N-CA	5.29	131.65	121.54
2	BD	242	VAL	CA-C-N	5.28	131.62	121.54
2	BD	242	VAL	C-N-CA	5.28	131.62	121.54
2	BF	242	VAL	CA-C-N	5.28	131.62	121.54
2	BF	242	VAL	C-N-CA	5.28	131.62	121.54
2	BW	242	VAL	CA-C-N	5.24	131.56	121.54
2	BW	242	VAL	C-N-CA	5.24	131.56	121.54
2	BO	242	VAL	CA-C-N	5.22	131.51	121.54
2	BO	242	VAL	C-N-CA	5.22	131.51	121.54
2	BV	242	VAL	CA-C-N	5.16	131.40	121.54
2	BV	242	VAL	C-N-CA	5.16	131.40	121.54
4	E9	58	MET	CA-CB-CG	5.12	124.34	114.10

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	393	0	384	26	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A2	393	0	384	22	0
1	A3	393	0	384	23	0
1	A4	393	0	384	27	0
1	A5	393	0	384	26	0
1	A6	393	0	384	29	0
1	A7	393	0	384	25	0
1	A8	393	0	384	23	0
1	A9	393	0	384	26	0
1	AA	393	0	384	25	0
1	AB	393	0	384	23	0
1	AC	393	0	384	26	0
1	AD	393	0	384	23	0
1	AE	393	0	384	25	0
1	AF	393	0	384	26	0
1	AG	393	0	384	23	0
1	AH	393	0	384	27	0
1	AI	393	0	384	27	0
1	AJ	393	0	384	25	0
1	AK	393	0	384	22	0
1	AL	393	0	384	23	0
1	AM	393	0	384	24	0
1	AN	393	0	384	24	0
1	AO	393	0	384	27	0
1	AP	393	0	384	20	0
1	AQ	393	0	384	25	0
1	AR	393	0	384	22	0
1	AS	393	0	384	22	0
1	AT	393	0	384	25	0
1	AU	393	0	384	25	0
1	AV	393	0	384	22	0
1	AW	393	0	384	23	0
1	AX	393	0	384	21	0
1	AY	393	0	384	27	0
2	B1	2583	0	2632	123	0
2	B2	2583	0	2632	120	0
2	B3	2583	0	2632	122	0
2	B4	2583	0	2632	120	0
2	B5	2583	0	2632	114	0
2	B6	2583	0	2632	131	0
2	B7	2583	0	2632	123	0
2	B8	2583	0	2632	126	0
2	B9	2583	0	2632	120	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	BA	2583	0	2632	119	0
2	BB	2583	0	2632	135	0
2	BC	2583	0	2632	132	0
2	BD	2583	0	2632	123	0
2	BE	2583	0	2632	119	0
2	BF	2583	0	2632	118	0
2	BG	2583	0	2632	135	0
2	BH	2583	0	2632	129	0
2	BI	2583	0	2632	124	0
2	BJ	2583	0	2632	119	0
2	BK	2583	0	2632	126	0
2	BL	2583	0	2632	119	0
2	BM	2583	0	2632	103	0
2	BN	2583	0	2632	122	0
2	BO	2583	0	2632	120	0
2	BP	2583	0	2632	128	0
2	BQ	2583	0	2632	129	0
2	BR	2583	0	2632	127	0
2	BS	2583	0	2632	136	0
2	BT	2583	0	2632	136	0
2	BU	2583	0	2632	122	0
2	BV	2583	0	2632	118	0
2	BW	2583	0	2632	117	0
2	BX	2583	0	2632	115	0
2	BY	2583	0	2632	130	0
3	C1	2348	0	2376	95	0
3	C2	2348	0	2376	100	0
3	C3	2348	0	2376	99	0
3	C4	2348	0	2376	106	0
3	C5	2348	0	2376	98	0
3	C6	2348	0	2376	104	0
3	C7	2348	0	2376	103	0
3	C8	2348	0	2376	100	0
3	C9	2348	0	2376	101	0
3	CA	2348	0	2376	97	0
3	CB	2348	0	2376	106	0
3	CC	2348	0	2376	101	0
3	CD	2348	0	2376	101	0
3	CE	2348	0	2376	102	0
3	CF	2348	0	2376	103	0
3	CG	2348	0	2376	101	0
3	CH	2348	0	2376	99	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	CI	2348	0	2376	95	0
3	CJ	2348	0	2376	103	0
3	CK	2348	0	2376	97	0
3	CL	2348	0	2376	97	0
3	CM	2348	0	2376	104	0
3	CN	2348	0	2376	96	0
3	CO	2348	0	2376	96	0
3	CP	2348	0	2376	100	0
3	CQ	2348	0	2376	105	0
3	CR	2348	0	2376	98	0
3	CS	2348	0	2376	102	0
3	CT	2348	0	2376	103	0
3	CU	2348	0	2376	103	0
3	CV	2348	0	2376	106	0
3	CW	2348	0	2376	97	0
3	CX	2348	0	2376	102	0
3	CY	2348	0	2376	103	0
4	D1	625	0	676	39	0
4	D2	625	0	676	37	0
4	D3	625	0	676	35	0
4	D4	625	0	676	38	0
4	D5	625	0	676	37	0
4	D6	625	0	676	37	0
4	D7	625	0	676	38	0
4	D8	625	0	676	38	0
4	D9	625	0	676	37	0
4	DA	625	0	676	38	0
4	DB	625	0	676	37	0
4	DC	625	0	676	40	0
4	DD	625	0	676	38	0
4	DE	625	0	676	41	0
4	DF	625	0	676	37	0
4	DG	625	0	676	37	0
4	DH	625	0	676	38	0
4	DI	625	0	676	37	0
4	DJ	625	0	676	39	0
4	DK	625	0	676	37	0
4	DL	625	0	676	37	0
4	DM	625	0	676	39	0
4	DN	625	0	676	34	0
4	DO	625	0	676	34	0
4	DP	625	0	676	40	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	DQ	625	0	676	36	0
4	DR	625	0	676	38	0
4	DS	625	0	676	38	0
4	DT	625	0	676	40	0
4	DU	625	0	676	36	0
4	DV	625	0	676	39	0
4	DW	625	0	676	39	0
4	DX	625	0	676	37	0
4	DY	625	0	676	42	0
4	E1	625	0	676	43	0
4	E2	625	0	676	44	0
4	E3	625	0	676	40	0
4	E4	625	0	676	39	0
4	E5	625	0	676	40	0
4	E6	625	0	676	39	0
4	E7	625	0	676	41	0
4	E8	625	0	676	43	0
4	E9	625	0	676	43	0
4	EA	625	0	676	41	0
4	EB	625	0	676	46	0
4	EC	625	0	676	42	0
4	ED	625	0	676	43	0
4	EE	625	0	676	41	0
4	EF	625	0	676	43	0
4	EG	625	0	676	48	0
4	EH	625	0	676	46	0
4	EI	625	0	676	37	0
4	EJ	625	0	676	43	0
4	EK	625	0	676	39	0
4	EL	625	0	676	42	0
4	EM	625	0	676	47	0
4	EN	625	0	676	44	0
4	EO	625	0	676	38	0
4	EP	625	0	676	50	0
4	EQ	625	0	676	37	0
4	ER	625	0	676	51	0
4	ES	625	0	676	45	0
4	ET	625	0	676	41	0
4	EU	625	0	676	43	0
4	EV	625	0	676	42	0
4	EW	625	0	676	40	0
4	EX	625	0	676	45	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	EY	625	0	676	43	0
4	F1	627	0	679	47	0
4	F2	627	0	679	48	0
4	F3	627	0	679	44	0
4	F4	627	0	679	46	0
4	F5	627	0	679	46	0
4	F6	627	0	679	46	0
4	F7	627	0	679	44	0
4	F8	627	0	679	48	0
4	F9	627	0	679	46	0
4	FA	627	0	679	46	0
4	FB	627	0	679	49	0
4	FC	627	0	679	52	0
4	FD	627	0	679	52	0
4	FE	627	0	679	53	0
4	FF	627	0	679	43	0
4	FG	627	0	679	53	0
4	FH	627	0	679	49	0
4	FI	627	0	679	43	0
4	FJ	627	0	679	49	0
4	FK	627	0	679	45	0
4	FL	627	0	679	47	0
4	FM	627	0	679	47	0
4	FN	627	0	679	49	0
4	FO	627	0	679	48	0
4	FP	627	0	679	48	0
4	FQ	627	0	679	46	0
4	FR	627	0	679	52	0
4	FS	627	0	679	50	0
4	FT	627	0	679	48	0
4	FU	627	0	679	47	0
4	FV	627	0	679	45	0
4	FW	627	0	679	48	0
4	FX	627	0	679	49	0
4	FY	627	0	679	48	0
All	All	244834	0	252382	9884	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 20.

All (9884) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:251:LEU:HD22	2:BW:278:MET:HG2	1.50	0.94
2:BK:251:LEU:HD22	2:BK:278:MET:HG2	1.49	0.94
2:BF:251:LEU:HD22	2:BF:278:MET:HG2	1.50	0.93
2:B5:251:LEU:HD22	2:B5:278:MET:HG2	1.50	0.93
2:BD:251:LEU:HD22	2:BD:278:MET:HG2	1.49	0.93
2:BR:251:LEU:HD22	2:BR:278:MET:HG2	1.51	0.93
2:BT:251:LEU:HD22	2:BT:278:MET:HG2	1.49	0.93
2:BX:251:LEU:HD22	2:BX:278:MET:HG2	1.49	0.92
2:BV:251:LEU:HD22	2:BV:278:MET:HG2	1.49	0.92
2:BC:251:LEU:HD22	2:BC:278:MET:HG2	1.49	0.92
2:BS:251:LEU:HD22	2:BS:278:MET:HG2	1.51	0.92
2:BG:251:LEU:HD22	2:BG:278:MET:HG2	1.50	0.91
2:BE:251:LEU:HD22	2:BE:278:MET:HG2	1.50	0.91
2:BM:251:LEU:HD22	2:BM:278:MET:HG2	1.52	0.90
2:BB:251:LEU:HD22	2:BB:278:MET:HG2	1.50	0.90
2:BJ:251:LEU:HD22	2:BJ:278:MET:HG2	1.52	0.90
2:B2:251:LEU:HD22	2:B2:278:MET:HG2	1.52	0.90
2:BN:41:MET:HE2	2:BO:77:LEU:HD23	1.54	0.89
2:BW:158:MET:HE3	2:BX:214:VAL:HG13	1.51	0.89
2:BH:251:LEU:HD22	2:BH:278:MET:HG2	1.54	0.88
2:BU:251:LEU:HD22	2:BU:278:MET:HG2	1.53	0.88
2:B1:251:LEU:HD22	2:B1:278:MET:HG2	1.53	0.88
2:BT:203:ILE:HA	2:BT:206:MET:HE3	1.56	0.87
2:BT:158:MET:HE3	2:BU:214:VAL:HG13	1.56	0.87
3:CU:299:VAL:HA	4:FU:132:MET:HE2	1.57	0.87
2:B3:158:MET:HE3	2:B4:214:VAL:HG13	1.54	0.87
2:BB:158:MET:HE1	2:BC:214:VAL:HA	1.57	0.87
2:B9:251:LEU:HD22	2:B9:278:MET:HG2	1.55	0.86
3:CQ:299:VAL:HA	4:FQ:132:MET:HE2	1.56	0.86
2:BY:251:LEU:HD22	2:BY:278:MET:HG2	1.54	0.85
1:AV:532:MET:HE2	2:BV:56:LEU:HD13	1.59	0.84
2:BK:158:MET:HE3	2:BL:214:VAL:HG13	1.57	0.84
2:BS:139:ARG:HH22	2:BT:205:LEU:H	1.25	0.84
4:EU:61:PRO:HA	4:FU:74:THR:HA	1.59	0.84
3:C4:299:VAL:HA	4:F4:132:MET:HE2	1.59	0.83
2:BD:139:ARG:NE	2:BE:201:GLU:OE1	2.09	0.82
4:EM:61:PRO:HA	4:FM:74:THR:HA	1.62	0.82
2:B5:139:ARG:NE	2:B6:201:GLU:OE1	2.11	0.82
2:BH:139:ARG:HD2	2:BI:202:ILE:HA	1.60	0.82
4:EL:61:PRO:HA	4:FL:74:THR:HA	1.62	0.82
2:BS:139:ARG:HH12	2:BT:205:LEU:HB2	1.44	0.82
1:AQ:532:MET:HE2	2:BQ:56:LEU:HD13	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EY:76:LYS:NZ	4:FY:58:MET:O	2.14	0.81
4:EV:76:LYS:NZ	4:FV:58:MET:O	2.14	0.81
4:E4:76:LYS:NZ	4:F4:58:MET:O	2.14	0.81
4:E2:76:LYS:NZ	4:F2:58:MET:O	2.14	0.81
2:BB:139:ARG:NE	2:BC:201:GLU:OE1	2.14	0.81
4:EK:76:LYS:NZ	4:FK:58:MET:O	2.14	0.81
4:EE:76:LYS:NZ	4:FE:58:MET:O	2.14	0.81
1:A3:532:MET:HE2	2:B3:56:LEU:HD13	1.60	0.80
4:EF:76:LYS:NZ	4:FF:58:MET:O	2.13	0.80
3:CJ:258:GLU:O	4:FK:102:ASN:ND2	2.14	0.80
2:BR:154:ARG:HD3	2:BS:206:MET:HE1	1.62	0.80
4:EY:61:PRO:HA	4:FY:74:THR:HA	1.63	0.80
2:BH:139:ARG:NE	2:BI:201:GLU:OE1	2.14	0.80
2:BU:113:MET:HE1	2:BU:117:SER:HB2	1.64	0.80
2:BL:46:GLN:HE21	2:BM:68:ALA:H	1.30	0.80
4:EQ:76:LYS:NZ	4:FQ:58:MET:O	2.14	0.80
4:EG:76:LYS:NZ	4:FG:58:MET:O	2.14	0.80
4:E9:76:LYS:NZ	4:F9:58:MET:O	2.14	0.80
4:EX:76:LYS:NZ	4:FX:58:MET:O	2.15	0.80
1:AY:532:MET:HE2	2:BY:56:LEU:HD13	1.62	0.80
2:B7:139:ARG:NE	2:B8:201:GLU:OE1	2.14	0.79
4:E7:61:PRO:HA	4:F7:74:THR:HA	1.61	0.79
4:EH:76:LYS:NZ	4:FH:58:MET:O	2.14	0.79
4:EL:76:LYS:NZ	4:FL:58:MET:O	2.14	0.79
4:EV:61:PRO:HA	4:FV:74:THR:HA	1.62	0.79
3:C1:299:VAL:HA	4:F1:132:MET:HE2	1.64	0.79
3:CG:299:VAL:HG22	4:FG:132:MET:HE2	1.64	0.79
4:E5:76:LYS:NZ	4:F5:58:MET:O	2.14	0.79
2:BL:139:ARG:NH1	2:BM:201:GLU:OE1	2.16	0.79
4:E3:76:LYS:NZ	4:F3:58:MET:O	2.15	0.79
2:B7:139:ARG:HD2	2:B8:202:ILE:HA	1.64	0.79
4:ER:76:LYS:NZ	4:FR:58:MET:O	2.16	0.79
2:BY:113:MET:HE1	2:BY:117:SER:HB2	1.65	0.79
2:B5:46:GLN:HE21	2:B6:68:ALA:H	1.26	0.79
3:CW:47:VAL:H	3:CW:48:ARG:HH21	1.30	0.78
3:CV:47:VAL:H	3:CV:48:ARG:HH21	1.31	0.78
2:BX:113:MET:HE1	2:BX:117:SER:HB2	1.65	0.78
2:B5:113:MET:HE1	2:B5:117:SER:HB2	1.64	0.78
2:BL:139:ARG:HD2	2:BM:202:ILE:HA	1.64	0.78
2:BQ:113:MET:HE1	2:BQ:117:SER:HB2	1.64	0.78
3:CQ:47:VAL:H	3:CQ:48:ARG:HH21	1.31	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EO:75:ILE:HA	4:EO:78:LEU:HD12	1.66	0.78
3:CR:47:VAL:H	3:CR:48:ARG:HH21	1.31	0.78
1:A9:532:MET:HE2	2:B9:56:LEU:HD13	1.66	0.78
2:BS:113:MET:HE1	2:BS:117:SER:HB2	1.66	0.78
2:BC:139:ARG:HH12	2:BD:198:THR:HG23	1.49	0.77
2:BM:113:MET:HE1	2:BM:117:SER:HB2	1.64	0.77
2:BO:113:MET:HE1	2:BO:117:SER:HB2	1.66	0.77
4:EP:76:LYS:NZ	4:FP:58:MET:O	2.18	0.77
2:BX:46:GLN:HE21	2:BY:68:ALA:H	1.30	0.77
2:BP:113:MET:HE1	2:BP:117:SER:HB2	1.66	0.77
3:CW:300:PRO:HB2	3:CW:321:ILE:HG13	1.65	0.77
3:CD:299:VAL:HA	4:FD:132:MET:HE2	1.67	0.77
3:CU:47:VAL:H	3:CU:48:ARG:HH21	1.31	0.77
3:C2:47:VAL:H	3:C2:48:ARG:HH21	1.31	0.77
3:C3:47:VAL:H	3:C3:48:ARG:HH21	1.31	0.77
4:FC:132:MET:HE3	4:FC:136:SER:HB3	1.66	0.77
2:BX:139:ARG:NE	2:BY:201:GLU:OE1	2.18	0.77
3:CB:300:PRO:HB2	3:CB:321:ILE:HG13	1.65	0.77
3:CM:47:VAL:H	3:CM:48:ARG:HH21	1.31	0.77
3:CP:47:VAL:H	3:CP:48:ARG:HH21	1.31	0.77
3:CF:47:VAL:H	3:CF:48:ARG:HH21	1.31	0.77
3:CL:47:VAL:H	3:CL:48:ARG:HH21	1.31	0.77
3:C8:47:VAL:H	3:C8:48:ARG:HH21	1.30	0.77
1:AL:552:ARG:HH11	1:AL:555:MET:HE3	1.49	0.77
3:CS:47:VAL:H	3:CS:48:ARG:HH21	1.31	0.77
4:EU:76:LYS:NZ	4:FU:58:MET:O	2.17	0.77
4:FG:77:GLU:HA	4:FG:80:ARG:HG2	1.65	0.76
3:C9:47:VAL:H	3:C9:48:ARG:HH21	1.31	0.76
2:BG:139:ARG:NE	2:BH:201:GLU:OE1	2.18	0.76
2:BW:113:MET:HE1	2:BW:117:SER:HB2	1.66	0.76
2:BU:139:ARG:NH1	2:BV:201:GLU:OE1	2.18	0.76
2:B5:41:MET:HE1	2:B6:77:LEU:HB2	1.66	0.76
3:CX:47:VAL:H	3:CX:48:ARG:HH21	1.31	0.76
3:CK:47:VAL:H	3:CK:48:ARG:HH21	1.31	0.76
4:ET:76:LYS:NZ	4:FT:58:MET:O	2.19	0.76
3:CB:47:VAL:H	3:CB:48:ARG:HH21	1.31	0.76
3:CC:47:VAL:H	3:CC:48:ARG:HH21	1.31	0.76
4:EE:128:PRO:HB3	4:EE:131:ARG:HE	1.51	0.76
2:BH:113:MET:HE1	2:BH:117:SER:HB2	1.66	0.76
3:CI:47:VAL:H	3:CI:48:ARG:HH21	1.31	0.76
4:EW:76:LYS:NZ	4:FW:58:MET:O	2.19	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:47:VAL:H	3:C6:48:ARG:HH21	1.31	0.76
3:CD:47:VAL:H	3:CD:48:ARG:HH21	1.31	0.76
1:AF:552:ARG:HH11	1:AF:555:MET:HE3	1.51	0.76
2:BL:113:MET:HE1	2:BL:117:SER:HB2	1.65	0.76
3:C1:47:VAL:H	3:C1:48:ARG:HH21	1.31	0.76
4:E3:128:PRO:HB3	4:E3:131:ARG:HE	1.51	0.76
2:B6:113:MET:HE1	2:B6:117:SER:HB2	1.67	0.76
3:CG:53:ALA:HB3	3:CG:231:LEU:HA	1.68	0.76
4:FK:132:MET:HE1	4:FK:135:LEU:HD22	1.67	0.76
1:A2:552:ARG:HH11	1:A2:555:MET:HE3	1.51	0.76
3:CN:47:VAL:H	3:CN:48:ARG:HH21	1.30	0.76
2:BR:240:VAL:O	2:BR:273:LYS:NZ	2.19	0.76
4:FU:132:MET:HE3	4:FU:136:SER:HB3	1.67	0.76
2:BV:113:MET:HE1	2:BV:117:SER:HB2	1.67	0.76
3:C4:47:VAL:H	3:C4:48:ARG:HH21	1.31	0.75
4:FD:132:MET:HE3	4:FD:136:SER:HB3	1.68	0.75
2:BC:139:ARG:HH11	2:BD:202:ILE:HG13	1.51	0.75
3:CG:47:VAL:H	3:CG:48:ARG:HH21	1.31	0.75
2:BN:113:MET:HE1	2:BN:117:SER:HB2	1.68	0.75
2:B5:154:ARG:HD3	2:B6:206:MET:HE1	1.68	0.75
2:BF:139:ARG:NE	2:BG:201:GLU:OE1	2.14	0.75
2:B7:113:MET:HE1	2:B7:117:SER:HB2	1.67	0.75
2:BB:240:VAL:O	2:BB:273:LYS:NZ	2.19	0.75
2:BD:113:MET:HE1	2:BD:117:SER:HB2	1.67	0.75
3:CI:299:VAL:HA	4:FI:132:MET:HE2	1.65	0.75
3:CE:47:VAL:H	3:CE:48:ARG:HH21	1.31	0.75
3:CH:47:VAL:H	3:CH:48:ARG:HH21	1.30	0.75
4:EP:61:PRO:HA	4:FP:74:THR:HA	1.68	0.75
2:BE:41:MET:HE2	2:BF:77:LEU:HB2	1.69	0.75
2:BF:113:MET:HE1	2:BF:117:SER:HB2	1.66	0.75
3:CI:53:ALA:HB3	3:CI:231:LEU:HA	1.69	0.75
3:CJ:47:VAL:H	3:CJ:48:ARG:HH21	1.31	0.75
2:BV:197:ARG:HA	2:BV:232:GLU:HG2	1.69	0.75
3:C5:47:VAL:H	3:C5:48:ARG:HH21	1.31	0.75
3:CH:53:ALA:HB3	3:CH:231:LEU:HA	1.69	0.75
2:BI:201:GLU:HA	2:BI:204:ASN:HD22	1.50	0.75
4:EJ:112:VAL:HG11	4:EJ:121:ARG:HE	1.52	0.75
3:C5:299:VAL:HA	4:F5:132:MET:HE2	1.69	0.75
3:C6:112:GLY:HA3	3:C6:223:MET:HE1	1.69	0.75
4:FQ:132:MET:HE3	4:FQ:136:SER:HB3	1.67	0.75
3:CA:47:VAL:H	3:CA:48:ARG:HH21	1.31	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:53:ALA:HB3	3:CD:231:LEU:HA	1.69	0.74
3:C5:53:ALA:HB3	3:C5:231:LEU:HA	1.69	0.74
1:AM:547:VAL:HG23	2:BM:59:PHE:HZ	1.51	0.74
3:CT:47:VAL:H	3:CT:48:ARG:HH21	1.31	0.74
1:A6:547:VAL:HG23	2:B6:59:PHE:HZ	1.53	0.74
3:C7:47:VAL:H	3:C7:48:ARG:HH21	1.31	0.74
2:B8:113:MET:HE1	2:B8:117:SER:HB2	1.67	0.74
2:BB:113:MET:HE1	2:BB:117:SER:HB2	1.68	0.74
2:BM:197:ARG:HA	2:BM:232:GLU:HG2	1.70	0.74
1:A4:552:ARG:HH11	1:A4:555:MET:HE3	1.52	0.74
3:C7:53:ALA:HB3	3:C7:231:LEU:HA	1.70	0.74
3:C9:53:ALA:HB3	3:C9:231:LEU:HA	1.70	0.74
1:AC:547:VAL:HG23	2:BC:59:PHE:HZ	1.53	0.74
3:CO:47:VAL:H	3:CO:48:ARG:HH21	1.31	0.74
4:ES:76:LYS:NZ	4:FS:58:MET:O	2.20	0.74
2:BT:197:ARG:HA	2:BT:232:GLU:HG2	1.69	0.74
3:CX:53:ALA:HB3	3:CX:231:LEU:HA	1.69	0.74
2:BS:113:MET:O	2:BS:141:GLN:NE2	2.20	0.74
3:CT:53:ALA:HB3	3:CT:231:LEU:HA	1.69	0.74
3:C1:53:ALA:HB3	3:C1:231:LEU:HA	1.69	0.74
3:C6:53:ALA:HB3	3:C6:231:LEU:HA	1.70	0.74
3:CO:53:ALA:HB3	3:CO:231:LEU:HA	1.69	0.74
3:CP:53:ALA:HB3	3:CP:231:LEU:HA	1.69	0.74
4:EW:61:PRO:HA	4:FW:74:THR:HA	1.68	0.74
3:CN:112:GLY:HA3	3:CN:223:MET:HE1	1.69	0.74
1:AP:552:ARG:HH11	1:AP:555:MET:HE3	1.52	0.74
4:ET:128:PRO:HB3	4:ET:131:ARG:HE	1.53	0.74
4:EU:128:PRO:HB3	4:EU:131:ARG:HE	1.53	0.74
2:B9:113:MET:HE1	2:B9:117:SER:HB2	1.68	0.74
2:BO:41:MET:HE1	2:BP:77:LEU:HB2	1.69	0.74
2:BS:240:VAL:O	2:BS:273:LYS:NZ	2.20	0.74
3:CY:53:ALA:HB3	3:CY:231:LEU:HA	1.70	0.74
3:C1:112:GLY:HA3	3:C1:223:MET:HE1	1.70	0.74
1:AC:552:ARG:HH11	1:AC:555:MET:HE3	1.53	0.74
2:BE:113:MET:HE1	2:BE:117:SER:HB2	1.67	0.74
1:AH:547:VAL:HG23	2:BH:59:PHE:HZ	1.53	0.74
4:EK:61:PRO:HA	4:FK:74:THR:HA	1.68	0.74
1:AQ:552:ARG:HH11	1:AQ:555:MET:HE3	1.51	0.74
3:CY:47:VAL:H	3:CY:48:ARG:HH21	1.30	0.74
2:B2:240:VAL:O	2:B2:273:LYS:NZ	2.19	0.73
3:C8:300:PRO:HB2	3:C8:321:ILE:HG13	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:53:ALA:HB3	3:CC:231:LEU:HA	1.70	0.73
3:CK:53:ALA:HB3	3:CK:231:LEU:HA	1.70	0.73
3:CN:53:ALA:HB3	3:CN:231:LEU:HA	1.70	0.73
4:EN:61:PRO:HA	4:FN:74:THR:HA	1.70	0.73
3:CQ:53:ALA:HB3	3:CQ:231:LEU:HA	1.70	0.73
4:ER:75:ILE:HA	4:ER:78:LEU:HD12	1.70	0.73
3:C8:53:ALA:HB3	3:C8:231:LEU:HA	1.70	0.73
3:CF:53:ALA:HB3	3:CF:231:LEU:HA	1.70	0.73
2:BG:46:GLN:NE2	2:BH:68:ALA:O	2.21	0.73
3:CJ:53:ALA:HB3	3:CJ:231:LEU:HA	1.70	0.73
3:CM:53:ALA:HB3	3:CM:231:LEU:HA	1.70	0.73
2:B2:139:ARG:NH1	2:B3:201:GLU:OE1	2.20	0.73
3:CS:112:GLY:HA3	3:CS:223:MET:HE1	1.69	0.73
2:BW:46:GLN:NE2	2:BX:68:ALA:O	2.21	0.73
3:C2:53:ALA:HB3	3:C2:231:LEU:HA	1.70	0.73
3:C3:300:PRO:HB2	3:C3:321:ILE:HG13	1.71	0.73
3:C4:53:ALA:HB3	3:C4:231:LEU:HA	1.70	0.73
3:CI:112:GLY:HA3	3:CI:223:MET:HE1	1.70	0.73
2:BJ:113:MET:O	2:BJ:141:GLN:NE2	2.19	0.73
1:AR:552:ARG:HH11	1:AR:555:MET:HE3	1.53	0.73
3:CE:53:ALA:HB3	3:CE:231:LEU:HA	1.71	0.73
3:CW:53:ALA:HB3	3:CW:231:LEU:HA	1.70	0.73
3:C3:53:ALA:HB3	3:C3:231:LEU:HA	1.70	0.73
4:FG:132:MET:O	4:FG:132:MET:HE3	1.89	0.73
1:AI:547:VAL:HG23	2:BI:59:PHE:HZ	1.54	0.73
1:AJ:547:VAL:HG23	2:BJ:59:PHE:HZ	1.54	0.73
3:CL:53:ALA:HB3	3:CL:231:LEU:HA	1.71	0.73
1:AS:552:ARG:HH11	1:AS:555:MET:HE3	1.52	0.73
4:E2:128:PRO:HB3	4:E2:131:ARG:HE	1.53	0.73
4:EA:61:PRO:HA	4:FA:74:THR:HA	1.70	0.73
3:CB:53:ALA:HB3	3:CB:231:LEU:HA	1.71	0.73
4:EF:128:PRO:HB3	4:EF:131:ARG:HE	1.53	0.73
3:CG:79:ILE:HG12	3:CG:206:VAL:HG22	1.71	0.73
4:EN:75:ILE:HA	4:EN:78:LEU:HD12	1.71	0.73
3:CD:112:GLY:HA3	3:CD:223:MET:HE1	1.71	0.73
4:EF:61:PRO:HA	4:FF:74:THR:HA	1.70	0.73
2:BG:68:ALA:O	2:BG:70:ASN:ND2	2.22	0.73
3:CM:112:GLY:HA3	3:CM:223:MET:HE1	1.70	0.73
2:B4:158:MET:SD	2:B5:214:VAL:HG13	2.29	0.73
1:A9:552:ARG:HH11	1:A9:555:MET:HE3	1.54	0.73
3:C9:79:ILE:HG12	3:C9:206:VAL:HG22	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:46:GLN:NE2	2:BM:68:ALA:H	1.87	0.73
2:BB:158:MET:SD	2:BC:214:VAL:HG13	2.28	0.72
3:CF:79:ILE:HG12	3:CF:206:VAL:HG22	1.71	0.72
2:BG:201:GLU:HA	2:BG:204:ASN:HD22	1.54	0.72
3:CH:112:GLY:HA3	3:CH:223:MET:HE1	1.71	0.72
3:CJ:79:ILE:HG12	3:CJ:206:VAL:HG22	1.71	0.72
4:E1:128:PRO:HB3	4:E1:131:ARG:HE	1.54	0.72
2:BB:46:GLN:NE2	2:BC:68:ALA:O	2.22	0.72
3:CC:79:ILE:HG12	3:CC:206:VAL:HG22	1.71	0.72
4:EE:61:PRO:HA	4:FE:74:THR:HA	1.71	0.72
3:CU:53:ALA:HB3	3:CU:231:LEU:HA	1.71	0.72
3:C8:79:ILE:HG12	3:C8:206:VAL:HG22	1.72	0.72
3:CD:79:ILE:HG12	3:CD:206:VAL:HG22	1.71	0.72
1:AH:552:ARG:NH1	2:BH:33:GLU:OE2	2.23	0.72
4:EQ:128:PRO:HB3	4:EQ:131:ARG:HE	1.55	0.72
4:E9:128:PRO:HB3	4:E9:131:ARG:HE	1.55	0.72
3:CE:79:ILE:HG12	3:CE:206:VAL:HG22	1.72	0.72
4:EM:75:ILE:HA	4:EM:78:LEU:HD12	1.72	0.72
3:CO:299:VAL:HA	4:FO:132:MET:HE2	1.71	0.72
3:CS:53:ALA:HB3	3:CS:231:LEU:HA	1.71	0.72
2:B8:113:MET:O	2:B8:141:GLN:NE2	2.22	0.72
3:CA:296:VAL:HB	4:FB:60:ILE:HD11	1.72	0.72
1:AN:552:ARG:HH11	1:AN:555:MET:HE3	1.52	0.72
3:C6:79:ILE:HG12	3:C6:206:VAL:HG22	1.71	0.72
1:AD:547:VAL:HG23	2:BD:59:PHE:HZ	1.55	0.72
3:CM:79:ILE:HG12	3:CM:206:VAL:HG22	1.71	0.72
1:AO:552:ARG:HH11	1:AO:555:MET:HE3	1.55	0.72
4:EO:61:PRO:HA	4:FO:74:THR:HA	1.71	0.72
3:CQ:296:VAL:HB	4:FR:60:ILE:HD11	1.68	0.72
1:AR:547:VAL:HG23	2:BR:59:PHE:HZ	1.55	0.72
3:CV:53:ALA:HB3	3:CV:231:LEU:HA	1.71	0.72
1:A1:547:VAL:HG23	2:B1:59:PHE:HZ	1.54	0.72
2:B6:113:MET:O	2:B6:141:GLN:NE2	2.22	0.72
3:CB:79:ILE:HG12	3:CB:206:VAL:HG22	1.72	0.72
2:BC:46:GLN:NE2	2:BD:68:ALA:O	2.23	0.72
2:BD:201:GLU:HA	2:BD:204:ASN:HD22	1.55	0.72
2:BH:46:GLN:NE2	2:BI:68:ALA:O	2.23	0.72
3:CH:79:ILE:HG12	3:CH:206:VAL:HG22	1.72	0.72
3:CN:79:ILE:HG12	3:CN:206:VAL:HG22	1.71	0.72
1:AW:552:ARG:HH11	1:AW:555:MET:HE3	1.54	0.72
3:C7:79:ILE:HG12	3:C7:206:VAL:HG22	1.72	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:240:VAL:O	2:B9:273:LYS:NZ	2.22	0.72
3:CL:79:ILE:HG12	3:CL:206:VAL:HG22	1.72	0.72
2:BM:240:VAL:O	2:BM:273:LYS:NZ	2.22	0.72
1:AU:547:VAL:HG23	2:BU:59:PHE:HZ	1.53	0.72
1:AX:547:VAL:HG23	2:BX:59:PHE:HZ	1.54	0.72
2:B2:113:MET:O	2:B2:141:GLN:NE2	2.19	0.72
3:C5:79:ILE:HG12	3:C5:206:VAL:HG22	1.72	0.72
3:CA:53:ALA:HB3	3:CA:231:LEU:HA	1.72	0.72
4:EB:61:PRO:HA	4:FB:74:THR:HA	1.71	0.72
2:BF:113:MET:O	2:BF:141:GLN:NE2	2.21	0.72
4:EH:61:PRO:HA	4:FH:74:THR:HA	1.70	0.72
4:EJ:61:PRO:HA	4:FJ:74:THR:HA	1.70	0.72
1:AK:552:ARG:HH11	1:AK:555:MET:HE3	1.53	0.72
4:E8:61:PRO:HA	4:F8:74:THR:HA	1.72	0.72
2:BE:240:VAL:O	2:BE:273:LYS:NZ	2.23	0.72
4:EH:128:PRO:HB3	4:EH:131:ARG:HE	1.55	0.72
3:CJ:296:VAL:HB	4:FK:60:ILE:HD11	1.71	0.72
2:BL:251:LEU:HB2	2:BL:278:MET:HE2	1.70	0.72
3:CP:79:ILE:HG12	3:CP:206:VAL:HG22	1.71	0.72
4:ET:61:PRO:HA	4:FT:74:THR:HA	1.70	0.72
2:BW:113:MET:O	2:BW:141:GLN:NE2	2.19	0.72
2:BX:46:GLN:NE2	2:BY:68:ALA:H	1.87	0.72
3:C2:79:ILE:HG12	3:C2:206:VAL:HG22	1.71	0.71
3:C4:79:ILE:HG12	3:C4:206:VAL:HG22	1.72	0.71
1:A8:552:ARG:HH11	1:A8:555:MET:HE3	1.54	0.71
4:EC:61:PRO:HA	4:FC:74:THR:HA	1.71	0.71
2:BF:139:ARG:HD2	2:BG:202:ILE:HA	1.71	0.71
3:CG:296:VAL:HB	4:FH:60:ILE:HD11	1.71	0.71
2:BK:113:MET:O	2:BK:141:GLN:NE2	2.23	0.71
3:CK:79:ILE:HG12	3:CK:206:VAL:HG22	1.72	0.71
4:EO:73:MET:HE1	4:EO:78:LEU:HD23	1.72	0.71
4:E2:61:PRO:HA	4:F2:74:THR:HA	1.70	0.71
3:C4:154:ILE:HA	3:C4:157:MET:HE3	1.72	0.71
3:CA:79:ILE:HG12	3:CA:206:VAL:HG22	1.72	0.71
3:CE:300:PRO:HB2	3:CE:321:ILE:HG13	1.72	0.71
3:CI:79:ILE:HG12	3:CI:206:VAL:HG22	1.72	0.71
4:DI:96:PRO:O	4:DI:108:GLN:NE2	2.23	0.71
4:EK:128:PRO:HB3	4:EK:131:ARG:HE	1.55	0.71
4:EN:73:MET:HE1	4:EN:78:LEU:HD23	1.73	0.71
3:C6:300:PRO:HB2	3:C6:321:ILE:HG13	1.72	0.71
3:CE:112:GLY:HA3	3:CE:223:MET:HE1	1.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:552:ARG:HH11	1:AJ:555:MET:HE3	1.55	0.71
4:EP:75:ILE:HA	4:EP:78:LEU:HD12	1.72	0.71
4:ES:61:PRO:HA	4:FS:74:THR:HA	1.72	0.71
4:DT:96:PRO:O	4:DT:108:GLN:NE2	2.24	0.71
2:BU:9:LYS:HA	2:BU:12:ILE:HD12	1.71	0.71
3:CX:300:PRO:HB2	3:CX:321:ILE:HG13	1.73	0.71
3:C5:253:GLN:OE1	4:F6:131:ARG:NH2	2.23	0.71
3:CO:79:ILE:HG12	3:CO:206:VAL:HG22	1.71	0.71
3:CQ:79:ILE:HG12	3:CQ:206:VAL:HG22	1.71	0.71
4:EQ:61:PRO:HA	4:FQ:74:THR:HA	1.73	0.71
4:DY:96:PRO:O	4:DY:108:GLN:NE2	2.24	0.71
3:C3:79:ILE:HG12	3:C3:206:VAL:HG22	1.71	0.71
2:B4:113:MET:O	2:B4:141:GLN:NE2	2.20	0.71
2:BA:240:VAL:O	2:BA:273:LYS:NZ	2.23	0.71
1:AI:552:ARG:HH11	1:AI:555:MET:HE3	1.55	0.71
3:CS:300:PRO:HB2	3:CS:321:ILE:HG13	1.73	0.71
1:A5:547:VAL:HG23	2:B5:59:PHE:HZ	1.55	0.71
1:A7:552:ARG:HH11	1:A7:555:MET:HE3	1.55	0.71
2:BH:240:VAL:O	2:BH:273:LYS:NZ	2.24	0.71
3:CR:299:VAL:HA	4:FR:132:MET:HE2	1.71	0.71
4:ER:73:MET:HE1	4:ER:78:LEU:HD23	1.73	0.71
4:E6:75:ILE:HA	4:E6:78:LEU:HD12	1.72	0.71
4:E9:61:PRO:HA	4:F9:74:THR:HA	1.73	0.71
1:AE:552:ARG:HH11	1:AE:555:MET:HE3	1.55	0.71
3:CV:296:VAL:HB	4:FW:60:ILE:HD11	1.73	0.71
1:AX:552:ARG:HH11	1:AX:555:MET:HE3	1.55	0.71
3:CX:79:ILE:HG12	3:CX:206:VAL:HG22	1.71	0.71
3:CY:300:PRO:HB2	3:CY:321:ILE:HG13	1.73	0.71
4:E1:61:PRO:HA	4:F1:74:THR:HA	1.72	0.71
2:B4:41:MET:HA	2:B4:44:VAL:HB	1.73	0.71
4:E5:61:PRO:HA	4:F5:74:THR:HA	1.72	0.71
2:BC:113:MET:O	2:BC:141:GLN:NE2	2.22	0.71
2:BJ:240:VAL:O	2:BJ:273:LYS:NZ	2.23	0.71
1:AL:547:VAL:HG23	2:BL:59:PHE:HZ	1.56	0.71
4:DL:96:PRO:O	4:DL:108:GLN:NE2	2.24	0.71
3:CM:299:VAL:HG22	4:FM:132:MET:HE2	1.72	0.71
3:CV:79:ILE:HG12	3:CV:206:VAL:HG22	1.71	0.71
2:B2:113:MET:HE1	2:B2:117:SER:HB2	1.73	0.71
1:A3:552:ARG:HH11	1:A3:555:MET:HE3	1.56	0.71
2:B5:46:GLN:NE2	2:B6:68:ALA:H	1.88	0.71
3:C7:300:PRO:HB2	3:C7:321:ILE:HG13	1.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:260:LEU:HD21	2:B8:293:ARG:HG3	1.73	0.71
2:BC:240:VAL:O	2:BC:273:LYS:NZ	2.23	0.71
2:BD:240:VAL:O	2:BD:273:LYS:NZ	2.24	0.71
3:CE:154:ILE:HA	3:CE:157:MET:HE3	1.73	0.71
2:BJ:113:MET:HE1	2:BJ:117:SER:HB2	1.72	0.71
3:CJ:299:VAL:HG22	4:FJ:132:MET:HE2	1.72	0.71
3:CK:299:VAL:HA	4:FK:132:MET:HE2	1.73	0.71
2:BM:295:PRO:HB2	2:BN:330:TYR:HB3	1.73	0.71
2:BT:41:MET:HE1	2:BU:77:LEU:HB2	1.73	0.71
2:BT:113:MET:O	2:BT:141:GLN:NE2	2.20	0.71
3:CT:79:ILE:HG12	3:CT:206:VAL:HG22	1.72	0.71
3:CY:112:GLY:HA3	3:CY:223:MET:HE1	1.73	0.71
3:CC:112:GLY:HA3	3:CC:223:MET:HE1	1.73	0.71
2:BE:9:LYS:HA	2:BE:12:ILE:HD12	1.72	0.71
3:CS:79:ILE:HG12	3:CS:206:VAL:HG22	1.72	0.71
3:CW:112:GLY:HA3	3:CW:223:MET:HE1	1.73	0.71
2:B5:197:ARG:HA	2:B5:232:GLU:HG2	1.72	0.70
4:EI:61:PRO:HA	4:FI:74:THR:HA	1.72	0.70
2:BP:229:ILE:O	2:BP:233:MET:HG2	1.91	0.70
3:CR:53:ALA:HB3	3:CR:231:LEU:HA	1.73	0.70
4:ER:61:PRO:HA	4:FR:74:THR:HA	1.72	0.70
3:CU:79:ILE:HG12	3:CU:206:VAL:HG22	1.71	0.70
3:CV:112:GLY:HA3	3:CV:223:MET:HE1	1.73	0.70
2:B4:113:MET:HE1	2:B4:117:SER:HB2	1.74	0.70
4:E6:128:PRO:HB3	4:E6:131:ARG:HE	1.55	0.70
4:F6:104:TYR:OH	4:F6:131:ARG:NH2	2.24	0.70
1:AB:552:ARG:HH11	1:AB:555:MET:HE3	1.54	0.70
4:DC:96:PRO:O	4:DC:108:GLN:NE2	2.24	0.70
4:ED:58:MET:O	4:FD:76:LYS:NZ	2.24	0.70
3:CL:296:VAL:HB	4:FM:60:ILE:HD11	1.72	0.70
3:CM:296:VAL:HB	4:FN:60:ILE:HD11	1.72	0.70
2:BN:113:MET:O	2:BN:141:GLN:NE2	2.22	0.70
1:AP:547:VAL:HG23	2:BP:59:PHE:HZ	1.56	0.70
4:DQ:96:PRO:O	4:DQ:108:GLN:NE2	2.23	0.70
2:BS:9:LYS:HA	2:BS:12:ILE:HD12	1.72	0.70
1:AW:547:VAL:HG23	2:BW:59:PHE:HZ	1.56	0.70
3:C1:79:ILE:HG12	3:C1:206:VAL:HG22	1.72	0.70
2:B5:240:VAL:O	2:B5:273:LYS:NZ	2.23	0.70
2:B6:201:GLU:HA	2:B6:204:ASN:HD22	1.56	0.70
2:B7:113:MET:O	2:B7:141:GLN:NE2	2.21	0.70
3:CP:296:VAL:HB	4:FQ:60:ILE:HD11	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:113:MET:O	2:BV:141:GLN:NE2	2.23	0.70
4:EX:128:PRO:HB3	4:EX:131:ARG:HE	1.56	0.70
2:B3:197:ARG:HA	2:B3:232:GLU:HG2	1.73	0.70
1:AG:552:ARG:HH11	1:AG:555:MET:HE3	1.56	0.70
2:BG:113:MET:HE1	2:BG:117:SER:HB2	1.73	0.70
2:BI:260:LEU:HD21	2:BI:293:ARG:HG3	1.73	0.70
3:CL:154:ILE:HA	3:CL:157:MET:HE3	1.72	0.70
3:CR:79:ILE:HG12	3:CR:206:VAL:HG22	1.72	0.70
1:AT:547:VAL:HG23	2:BT:59:PHE:HZ	1.57	0.70
3:CU:199:VAL:HG23	3:CU:220:PRO:HA	1.73	0.70
3:CY:79:ILE:HG12	3:CY:206:VAL:HG22	1.72	0.70
2:B6:295:PRO:HB2	2:B7:330:TYR:HB3	1.73	0.70
3:CF:296:VAL:HB	4:FG:60:ILE:HD11	1.71	0.70
2:BI:68:ALA:O	2:BI:70:ASN:ND2	2.23	0.70
3:CJ:112:GLY:HA3	3:CJ:223:MET:HE1	1.74	0.70
2:BL:260:LEU:HD21	2:BL:293:ARG:HG3	1.73	0.70
2:BP:260:LEU:HD21	2:BP:293:ARG:HG3	1.73	0.70
1:AS:547:VAL:HG23	2:BS:59:PHE:HZ	1.56	0.70
3:CV:199:VAL:HG23	3:CV:220:PRO:HA	1.73	0.70
3:CW:79:ILE:HG12	3:CW:206:VAL:HG22	1.72	0.70
3:C2:112:GLY:HA3	3:C2:223:MET:HE1	1.74	0.70
2:B6:260:LEU:HD21	2:B6:293:ARG:HG3	1.73	0.70
1:AA:552:ARG:HH11	1:AA:555:MET:HE3	1.56	0.70
2:BM:139:ARG:NH1	2:BN:201:GLU:OE1	2.24	0.70
3:CN:199:VAL:HG23	3:CN:220:PRO:HA	1.73	0.70
2:BO:113:MET:O	2:BO:141:GLN:NE2	2.20	0.70
2:BO:139:ARG:NE	2:BP:201:GLU:OE1	2.22	0.70
3:CQ:112:GLY:HA3	3:CQ:223:MET:HE1	1.74	0.70
4:DX:96:PRO:O	4:DX:108:GLN:NE2	2.24	0.70
2:B3:113:MET:O	2:B3:141:GLN:NE2	2.22	0.70
2:B4:139:ARG:NH1	2:B5:201:GLU:OE1	2.24	0.70
2:BA:197:ARG:HA	2:BA:232:GLU:HG2	1.73	0.70
4:DD:96:PRO:O	4:DD:108:GLN:NE2	2.24	0.70
3:CF:112:GLY:HA3	3:CF:223:MET:HE1	1.74	0.70
4:EN:128:PRO:HB3	4:EN:131:ARG:HE	1.56	0.70
2:BS:295:PRO:HB2	2:BT:330:TYR:HB3	1.74	0.70
2:BW:295:PRO:HB2	2:BX:330:TYR:HB3	1.73	0.70
1:AY:547:VAL:HG23	2:BY:59:PHE:HZ	1.56	0.70
2:B1:330:TYR:HB3	2:BY:295:PRO:HB2	1.74	0.70
4:D2:96:PRO:O	4:D2:108:GLN:NE2	2.24	0.70
2:B7:197:ARG:HA	2:B7:232:GLU:HG2	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:113:MET:O	2:B9:141:GLN:NE2	2.23	0.70
3:CC:296:VAL:HB	4:FD:60:ILE:HD11	1.72	0.70
1:AD:552:ARG:HH11	1:AD:555:MET:HE3	1.56	0.70
2:BE:295:PRO:HB2	2:BF:330:TYR:HB3	1.73	0.70
4:DE:96:PRO:O	4:DE:108:GLN:NE2	2.24	0.70
4:DG:96:PRO:O	4:DG:108:GLN:NE2	2.24	0.70
2:BV:9:LYS:HA	2:BV:12:ILE:HD12	1.72	0.70
4:EI:128:PRO:HB3	4:EI:131:ARG:HE	1.56	0.70
1:AT:552:ARG:HH11	1:AT:555:MET:HE3	1.56	0.70
3:CU:112:GLY:HA3	3:CU:223:MET:HE1	1.74	0.70
4:DW:96:PRO:O	4:DW:108:GLN:NE2	2.24	0.70
4:D1:96:PRO:O	4:D1:108:GLN:NE2	2.25	0.70
2:B6:14:LEU:HD13	2:B6:17:ILE:HD11	1.74	0.70
1:AA:547:VAL:HG23	2:BA:59:PHE:HZ	1.55	0.70
4:DA:96:PRO:O	4:DA:108:GLN:NE2	2.24	0.70
3:CD:296:VAL:HB	4:FE:60:ILE:HD11	1.74	0.70
2:BO:68:ALA:O	2:BO:70:ASN:ND2	2.25	0.70
2:BP:251:LEU:HB2	2:BP:278:MET:HE2	1.74	0.70
3:CV:299:VAL:HG22	4:FV:132:MET:HE2	1.74	0.70
4:EX:61:PRO:HA	4:FX:74:THR:HA	1.73	0.70
2:BY:240:VAL:O	2:BY:273:LYS:NZ	2.24	0.70
4:DY:105:LEU:O	4:DY:131:ARG:NH2	2.25	0.70
4:ED:58:MET:HE3	4:FD:79:LEU:HD21	1.74	0.69
4:DF:96:PRO:O	4:DF:108:GLN:NE2	2.25	0.69
3:CM:199:VAL:HG23	3:CM:220:PRO:HA	1.73	0.69
2:BA:260:LEU:HD21	2:BA:293:ARG:HG3	1.73	0.69
2:BB:9:LYS:HA	2:BB:12:ILE:HD12	1.72	0.69
4:DB:96:PRO:O	4:DB:108:GLN:NE2	2.25	0.69
2:BF:240:VAL:O	2:BF:273:LYS:NZ	2.25	0.69
2:BK:260:LEU:HD21	2:BK:293:ARG:HG3	1.75	0.69
2:BQ:68:ALA:O	2:BQ:70:ASN:ND2	2.25	0.69
2:BQ:260:LEU:HD21	2:BQ:293:ARG:HG3	1.74	0.69
3:C9:112:GLY:HA3	3:C9:223:MET:HE1	1.74	0.69
2:BB:68:ALA:O	2:BB:70:ASN:ND2	2.25	0.69
1:AK:547:VAL:HG23	2:BK:59:PHE:HZ	1.56	0.69
2:BQ:197:ARG:HA	2:BQ:232:GLU:HG2	1.73	0.69
3:CS:90:HIS:HB3	3:CS:195:PRO:HB2	1.74	0.69
2:B2:68:ALA:O	2:B2:70:ASN:ND2	2.26	0.69
2:B4:260:LEU:HD21	2:B4:293:ARG:HG3	1.73	0.69
4:D5:96:PRO:O	4:D5:108:GLN:NE2	2.25	0.69
2:BE:260:LEU:HD21	2:BE:293:ARG:HG3	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DH:96:PRO:O	4:DH:108:GLN:NE2	2.25	0.69
2:BK:240:VAL:O	2:BK:273:LYS:NZ	2.25	0.69
2:BN:197:ARG:HA	2:BN:232:GLU:HG2	1.75	0.69
1:AO:547:VAL:HG23	2:BO:59:PHE:HZ	1.56	0.69
3:CO:296:VAL:HB	4:FP:60:ILE:HD11	1.73	0.69
4:DV:96:PRO:O	4:DV:108:GLN:NE2	2.25	0.69
2:B2:295:PRO:HB2	2:B3:330:TYR:HB3	1.74	0.69
2:BD:260:LEU:HD21	2:BD:293:ARG:HG3	1.75	0.69
2:BE:113:MET:O	2:BE:141:GLN:NE2	2.22	0.69
2:BT:240:VAL:O	2:BT:273:LYS:NZ	2.25	0.69
3:CT:112:GLY:HA3	3:CT:223:MET:HE1	1.74	0.69
3:CT:282:ASP:HB2	4:DT:122:ILE:HD12	1.74	0.69
4:DU:96:PRO:O	4:DU:108:GLN:NE2	2.24	0.69
2:BX:240:VAL:O	2:BX:273:LYS:NZ	2.25	0.69
4:FA:132:MET:HE1	4:FA:135:LEU:HD22	1.74	0.69
2:BC:68:ALA:O	2:BC:70:ASN:ND2	2.26	0.69
2:BF:197:ARG:HA	2:BF:232:GLU:HG2	1.73	0.69
2:BM:9:LYS:HA	2:BM:12:ILE:HD12	1.73	0.69
2:BU:240:VAL:O	2:BU:273:LYS:NZ	2.24	0.69
2:BU:295:PRO:HB2	2:BV:330:TYR:HB3	1.74	0.69
2:B1:240:VAL:O	2:B1:273:LYS:NZ	2.25	0.69
4:D4:96:PRO:O	4:D4:108:GLN:NE2	2.25	0.69
2:B6:46:GLN:NE2	2:B7:68:ALA:O	2.25	0.69
3:C7:199:VAL:HG23	3:C7:220:PRO:HA	1.74	0.69
4:D9:96:PRO:O	4:D9:108:GLN:NE2	2.25	0.69
2:BB:113:MET:O	2:BB:141:GLN:NE2	2.21	0.69
3:CB:90:HIS:HB3	3:CB:195:PRO:HB2	1.75	0.69
2:BK:295:PRO:HB2	2:BL:330:TYR:HB3	1.74	0.69
3:CS:199:VAL:HG23	3:CS:220:PRO:HA	1.74	0.69
4:DS:96:PRO:O	4:DS:108:GLN:NE2	2.25	0.69
2:B2:260:LEU:HD21	2:B2:293:ARG:HG3	1.75	0.69
3:C2:90:HIS:HB3	3:C2:195:PRO:HB2	1.75	0.69
4:D3:96:PRO:O	4:D3:108:GLN:NE2	2.25	0.69
4:E4:61:PRO:HA	4:F4:74:THR:HA	1.74	0.69
3:C5:258:GLU:O	4:F6:102:ASN:ND2	2.25	0.69
3:C6:253:GLN:OE1	4:F7:131:ARG:NH2	2.25	0.69
4:D6:96:PRO:O	4:D6:108:GLN:NE2	2.25	0.69
2:B7:68:ALA:O	2:B7:70:ASN:ND2	2.25	0.69
1:A8:536:ILE:HA	1:A8:539:MET:HE3	1.74	0.69
4:D8:96:PRO:O	4:D8:108:GLN:NE2	2.25	0.69
2:B9:260:LEU:HD21	2:B9:293:ARG:HG3	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:46:GLN:NE2	2:BB:68:ALA:O	2.26	0.69
2:BA:46:GLN:NE2	2:BA:47:ILE:O	2.26	0.69
2:BC:260:LEU:HD21	2:BC:293:ARG:HG3	1.75	0.69
2:BD:68:ALA:O	2:BD:70:ASN:ND2	2.25	0.69
2:BK:9:LYS:HA	2:BK:12:ILE:HD12	1.73	0.69
3:CK:154:ILE:HA	3:CK:157:MET:SD	2.33	0.69
4:DK:96:PRO:O	4:DK:108:GLN:NE2	2.25	0.69
4:FL:132:MET:HE1	4:FL:135:LEU:HD22	1.75	0.69
2:BN:260:LEU:HD21	2:BN:293:ARG:HG3	1.74	0.69
2:BQ:298:LEU:HD11	2:BR:329:THR:HB	1.74	0.69
4:DR:96:PRO:O	4:DR:108:GLN:NE2	2.25	0.69
3:CT:199:VAL:HG23	3:CT:220:PRO:HA	1.74	0.69
1:A2:547:VAL:HG23	2:B2:59:PHE:HZ	1.57	0.69
4:E3:61:PRO:HA	4:F3:74:THR:HA	1.74	0.69
2:B4:14:LEU:HD13	2:B4:17:ILE:HD11	1.74	0.69
4:D7:96:PRO:O	4:D7:108:GLN:NE2	2.25	0.69
2:B8:251:LEU:HB2	2:B8:278:MET:HE2	1.74	0.69
2:BB:197:ARG:HA	2:BB:232:GLU:HG2	1.74	0.69
2:BH:41:MET:HE2	2:BI:77:LEU:HD23	1.75	0.69
2:BH:68:ALA:O	2:BH:70:ASN:ND2	2.25	0.69
2:BN:240:VAL:O	2:BN:273:LYS:NZ	2.25	0.69
2:BO:46:GLN:NE2	2:BP:68:ALA:O	2.25	0.69
2:B3:68:ALA:O	2:B3:70:ASN:ND2	2.26	0.69
2:B8:68:ALA:O	2:B8:70:ASN:ND2	2.26	0.69
3:CF:199:VAL:HG23	3:CF:220:PRO:HA	1.73	0.69
2:BG:240:VAL:O	2:BG:273:LYS:NZ	2.26	0.69
2:BJ:260:LEU:HD21	2:BJ:293:ARG:HG3	1.75	0.69
4:DJ:96:PRO:O	4:DJ:108:GLN:NE2	2.25	0.69
2:BL:240:VAL:O	2:BL:273:LYS:NZ	2.26	0.69
3:CL:282:ASP:HB2	4:DL:122:ILE:HD12	1.75	0.69
3:C2:154:ILE:HA	3:C2:157:MET:SD	2.33	0.68
3:C3:90:HIS:HB3	3:C3:195:PRO:HB2	1.75	0.68
3:C3:154:ILE:HA	3:C3:157:MET:SD	2.34	0.68
3:C4:90:HIS:HB3	3:C4:195:PRO:HB2	1.75	0.68
3:C6:90:HIS:HB3	3:C6:195:PRO:HB2	1.75	0.68
3:CB:253:GLN:OE1	4:FC:131:ARG:NH2	2.26	0.68
3:CD:90:HIS:HB3	3:CD:195:PRO:HB2	1.75	0.68
2:BJ:68:ALA:O	2:BJ:70:ASN:ND2	2.27	0.68
4:DN:96:PRO:O	4:DN:108:GLN:NE2	2.24	0.68
3:CS:154:ILE:HA	3:CS:157:MET:SD	2.33	0.68
2:BU:260:LEU:HD21	2:BU:293:ARG:HG3	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:90:HIS:HB3	3:CU:195:PRO:HB2	1.75	0.68
3:CU:154:ILE:HA	3:CU:157:MET:SD	2.34	0.68
2:BV:240:VAL:O	2:BV:273:LYS:NZ	2.25	0.68
2:BV:260:LEU:HD21	2:BV:293:ARG:HG3	1.75	0.68
3:CW:90:HIS:HB3	3:CW:195:PRO:HB2	1.75	0.68
2:B4:295:PRO:HB2	2:B5:330:TYR:HB3	1.74	0.68
3:C6:199:VAL:HG23	3:C6:220:PRO:HA	1.74	0.68
3:C8:253:GLN:NE2	4:F9:126:ILE:O	2.27	0.68
2:BB:38:SER:HB3	2:BC:97:ILE:HD11	1.74	0.68
3:CB:154:ILE:HA	3:CB:157:MET:SD	2.33	0.68
2:BF:260:LEU:HD21	2:BF:293:ARG:HG3	1.75	0.68
4:DM:96:PRO:O	4:DM:108:GLN:NE2	2.25	0.68
1:AN:547:VAL:HG23	2:BN:59:PHE:HZ	1.56	0.68
2:BN:251:LEU:HB2	2:BN:278:MET:HE2	1.75	0.68
2:BQ:251:LEU:HB2	2:BQ:278:MET:HE2	1.75	0.68
3:CQ:199:VAL:HG23	3:CQ:220:PRO:HA	1.75	0.68
3:CT:296:VAL:HB	4:FU:60:ILE:HD11	1.74	0.68
3:C9:199:VAL:HG23	3:C9:220:PRO:HA	1.75	0.68
4:FC:104:TYR:OH	4:FC:131:ARG:NH2	2.26	0.68
4:FD:104:TYR:OH	4:FD:131:ARG:NH2	2.26	0.68
4:EG:61:PRO:HA	4:FG:74:THR:HA	1.74	0.68
2:BH:113:MET:O	2:BH:141:GLN:NE2	2.20	0.68
3:CR:296:VAL:HB	4:FS:60:ILE:HD11	1.75	0.68
3:CT:300:PRO:HB2	3:CT:321:ILE:HG13	1.75	0.68
3:CX:71:ASN:HA	3:CX:74:ARG:HH21	1.59	0.68
3:C7:90:HIS:HB3	3:C7:195:PRO:HB2	1.76	0.68
2:BA:295:PRO:HB2	2:BB:330:TYR:HB3	1.73	0.68
3:CC:282:ASP:HB2	4:DC:122:ILE:HD12	1.76	0.68
3:CC:294:ALA:HB3	3:CC:302:LEU:HG	1.75	0.68
2:BR:201:GLU:HA	2:BR:204:ASN:HD22	1.58	0.68
2:BW:260:LEU:HD21	2:BW:293:ARG:HG3	1.74	0.68
3:CW:199:VAL:HG23	3:CW:220:PRO:HA	1.75	0.68
3:CY:199:VAL:HG23	3:CY:220:PRO:HA	1.75	0.68
2:B3:113:MET:HE1	2:B3:117:SER:HB2	1.75	0.68
2:B6:240:VAL:O	2:B6:273:LYS:NZ	2.27	0.68
4:E6:61:PRO:HA	4:F6:74:THR:HA	1.76	0.68
2:B9:37:LEU:O	2:B9:41:MET:HG3	1.94	0.68
2:BB:139:ARG:HD2	2:BC:202:ILE:HA	1.73	0.68
2:BG:9:LYS:HA	2:BG:12:ILE:HD12	1.76	0.68
3:CH:299:VAL:HA	4:FH:132:MET:HE2	1.74	0.68
3:CN:154:ILE:HA	3:CN:157:MET:SD	2.34	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CR:90:HIS:HB3	3:CR:195:PRO:HB2	1.75	0.68
3:C1:199:VAL:HG23	3:C1:220:PRO:HA	1.74	0.68
3:C5:90:HIS:HB3	3:C5:195:PRO:HB2	1.76	0.68
3:CC:199:VAL:HG23	3:CC:220:PRO:HA	1.74	0.68
3:CE:90:HIS:HB3	3:CE:195:PRO:HB2	1.76	0.68
3:CE:199:VAL:HG23	3:CE:220:PRO:HA	1.75	0.68
2:BP:68:ALA:O	2:BP:70:ASN:ND2	2.27	0.68
3:CP:90:HIS:HB3	3:CP:195:PRO:HB2	1.75	0.68
4:DP:96:PRO:O	4:DP:108:GLN:NE2	2.25	0.68
3:CR:199:VAL:HG23	3:CR:220:PRO:HA	1.75	0.68
3:CU:296:VAL:HB	4:FV:60:ILE:HD11	1.76	0.68
2:BV:295:PRO:HB2	2:BW:330:TYR:HB3	1.76	0.68
3:CX:199:VAL:HG23	3:CX:220:PRO:HA	1.75	0.68
3:C2:300:PRO:HB2	3:C2:321:ILE:HG13	1.76	0.68
2:B7:260:LEU:HD21	2:B7:293:ARG:HG3	1.76	0.68
2:BI:295:PRO:HB2	2:BJ:330:TYR:HB3	1.74	0.68
3:CL:71:ASN:HA	3:CL:74:ARG:HH21	1.59	0.68
3:CO:90:HIS:HB3	3:CO:195:PRO:HB2	1.75	0.68
2:BS:201:GLU:HA	2:BS:204:ASN:HD22	1.58	0.68
2:B1:260:LEU:HD21	2:B1:293:ARG:HG3	1.75	0.68
2:B3:240:VAL:O	2:B3:273:LYS:NZ	2.25	0.68
2:B5:113:MET:O	2:B5:141:GLN:NE2	2.22	0.68
3:C5:71:ASN:HA	3:C5:74:ARG:HH21	1.59	0.68
2:B6:263:LEU:HD22	2:B6:271:ARG:HG2	1.76	0.68
1:A8:547:VAL:HG23	2:B8:59:PHE:HZ	1.57	0.68
3:CA:154:ILE:HA	3:CA:157:MET:SD	2.34	0.68
3:CC:90:HIS:HB3	3:CC:195:PRO:HB2	1.76	0.68
2:BD:113:MET:O	2:BD:141:GLN:NE2	2.21	0.68
2:BE:201:GLU:HA	2:BE:204:ASN:HD22	1.59	0.68
2:BF:68:ALA:O	2:BF:70:ASN:ND2	2.27	0.68
3:CG:90:HIS:HB3	3:CG:195:PRO:HB2	1.75	0.68
3:CJ:199:VAL:HG23	3:CJ:220:PRO:HA	1.74	0.68
2:BN:263:LEU:HD22	2:BN:271:ARG:HG2	1.76	0.68
2:BO:260:LEU:HD21	2:BO:293:ARG:HG3	1.76	0.68
2:BP:197:ARG:HA	2:BP:232:GLU:HG2	1.75	0.68
2:BX:9:LYS:HA	2:BX:12:ILE:HD12	1.74	0.68
2:BY:9:LYS:HA	2:BY:12:ILE:HD12	1.76	0.68
2:BK:113:MET:HE1	2:BK:117:SER:HB2	1.76	0.68
2:BR:197:ARG:HA	2:BR:232:GLU:HG2	1.75	0.68
3:CT:90:HIS:HB3	3:CT:195:PRO:HB2	1.76	0.68
2:BU:197:ARG:HA	2:BU:232:GLU:HG2	1.74	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:113:MET:O	2:BX:141:GLN:NE2	2.21	0.68
3:C1:90:HIS:HB3	3:C1:195:PRO:HB2	1.76	0.68
3:C9:90:HIS:HB3	3:C9:195:PRO:HB2	1.76	0.68
3:CA:90:HIS:HB3	3:CA:195:PRO:HB2	1.76	0.68
1:AB:547:VAL:HG23	2:BB:59:PHE:HZ	1.58	0.68
2:BI:263:LEU:HD22	2:BI:271:ARG:HG2	1.76	0.68
2:BN:158:MET:SD	2:BO:214:VAL:HG13	2.34	0.68
4:DO:96:PRO:O	4:DO:108:GLN:NE2	2.25	0.68
2:BP:113:MET:O	2:BP:141:GLN:NE2	2.22	0.68
3:CP:71:ASN:HA	3:CP:74:ARG:HH21	1.59	0.68
2:BQ:240:VAL:O	2:BQ:273:LYS:NZ	2.26	0.68
4:DV:132:MET:HE1	4:EW:131:ARG:HD2	1.76	0.68
3:C1:71:ASN:HA	3:C1:74:ARG:HH21	1.59	0.67
1:A5:536:ILE:HA	1:A5:539:MET:HE3	1.77	0.67
2:B7:240:VAL:O	2:B7:273:LYS:NZ	2.26	0.67
3:C7:71:ASN:HA	3:C7:74:ARG:HH21	1.59	0.67
3:CA:199:VAL:HG23	3:CA:220:PRO:HA	1.76	0.67
2:BB:260:LEU:HD21	2:BB:293:ARG:HG3	1.75	0.67
3:CB:71:ASN:HA	3:CB:74:ARG:HH21	1.59	0.67
2:BC:113:MET:HE1	2:BC:117:SER:HB2	1.76	0.67
2:BI:240:VAL:O	2:BI:273:LYS:NZ	2.28	0.67
3:CI:282:ASP:HB2	4:DI:122:ILE:HD12	1.76	0.67
3:CJ:90:HIS:HB3	3:CJ:195:PRO:HB2	1.75	0.67
2:BS:139:ARG:NE	2:BT:201:GLU:O	2.25	0.67
2:BW:240:VAL:O	2:BW:273:LYS:NZ	2.26	0.67
3:CW:71:ASN:HA	3:CW:74:ARG:HH21	1.59	0.67
2:BX:295:PRO:HB2	2:BY:330:TYR:HB3	1.76	0.67
3:CX:90:HIS:HB3	3:CX:195:PRO:HB2	1.76	0.67
3:CY:71:ASN:HA	3:CY:74:ARG:HH21	1.60	0.67
3:CY:90:HIS:HB3	3:CY:195:PRO:HB2	1.77	0.67
2:B3:260:LEU:HD21	2:B3:293:ARG:HG3	1.76	0.67
3:C4:71:ASN:HA	3:C4:74:ARG:HH21	1.59	0.67
3:CB:258:GLU:O	4:FC:102:ASN:ND2	2.27	0.67
3:CC:253:GLN:OE1	4:FD:131:ARG:NH2	2.26	0.67
3:CC:299:VAL:HA	4:FC:132:MET:HE2	1.76	0.67
3:CG:199:VAL:HG23	3:CG:220:PRO:HA	1.75	0.67
2:BJ:101:ARG:N	2:BJ:101:ARG:HD3	2.09	0.67
3:CK:71:ASN:HA	3:CK:74:ARG:HH21	1.59	0.67
4:EP:130:GLU:HA	4:EP:133:ARG:HE	1.59	0.67
2:BT:113:MET:HE1	2:BT:117:SER:HB2	1.76	0.67
3:CV:71:ASN:HA	3:CV:74:ARG:HH21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:536:ILE:HA	1:AY:539:MET:HE3	1.76	0.67
3:C2:199:VAL:HG23	3:C2:220:PRO:HA	1.75	0.67
2:B3:295:PRO:HB2	2:B4:330:TYR:HB3	1.76	0.67
1:A7:547:VAL:HG23	2:B7:59:PHE:HZ	1.57	0.67
2:BG:97:ILE:O	2:BG:100:THR:OG1	2.12	0.67
2:BH:260:LEU:HD21	2:BH:293:ARG:HG3	1.75	0.67
3:CH:199:VAL:HG23	3:CH:220:PRO:HA	1.75	0.67
3:CI:199:VAL:HG23	3:CI:220:PRO:HA	1.75	0.67
3:CL:90:HIS:HB3	3:CL:195:PRO:HB2	1.75	0.67
2:BP:240:VAL:O	2:BP:273:LYS:NZ	2.26	0.67
3:CR:71:ASN:HA	3:CR:74:ARG:HH21	1.60	0.67
2:BS:14:LEU:O	2:BT:76:TYR:OH	2.08	0.67
3:CS:71:ASN:HA	3:CS:74:ARG:HH21	1.59	0.67
2:BY:260:LEU:HD21	2:BY:293:ARG:HG3	1.75	0.67
3:C8:90:HIS:HB3	3:C8:195:PRO:HB2	1.77	0.67
2:BA:113:MET:O	2:BA:141:GLN:NE2	2.26	0.67
3:CD:154:ILE:HA	3:CD:157:MET:SD	2.34	0.67
3:CE:299:VAL:HA	4:FE:132:MET:HE3	1.76	0.67
3:CJ:154:ILE:HA	3:CJ:157:MET:SD	2.33	0.67
3:CL:297:ASP:OD2	4:EM:72:ARG:NH2	2.27	0.67
2:BM:260:LEU:HD21	2:BM:293:ARG:HG3	1.75	0.67
2:BN:97:ILE:O	2:BN:100:THR:OG1	2.13	0.67
2:BS:229:ILE:O	2:BS:233:MET:HG2	1.95	0.67
1:AT:551:ILE:HD11	2:BT:29:LEU:HD11	1.77	0.67
2:BT:9:LYS:HA	2:BT:12:ILE:HD12	1.76	0.67
2:BT:260:LEU:HD21	2:BT:293:ARG:HG3	1.75	0.67
2:B4:197:ARG:HA	2:B4:232:GLU:HG2	1.76	0.67
3:C4:296:VAL:HB	4:F5:60:ILE:HD11	1.77	0.67
3:C6:71:ASN:HA	3:C6:74:ARG:HH21	1.59	0.67
3:C7:255:GLN:HB3	4:D7:76:LYS:HG3	1.74	0.67
3:CG:71:ASN:HA	3:CG:74:ARG:HH21	1.59	0.67
2:BO:127:PRO:HA	2:BO:130:ILE:HD12	1.77	0.67
2:BO:295:PRO:HB2	2:BP:330:TYR:HB3	1.75	0.67
3:CQ:90:HIS:HB3	3:CQ:195:PRO:HB2	1.76	0.67
3:C1:296:VAL:HB	4:F2:60:ILE:HD11	1.77	0.67
3:C6:154:ILE:HA	3:C6:157:MET:SD	2.34	0.67
3:C7:282:ASP:HB2	4:D7:122:ILE:HD12	1.77	0.67
4:F7:104:TYR:OH	4:F7:131:ARG:NH2	2.28	0.67
2:BD:139:ARG:HD2	2:BE:202:ILE:HA	1.75	0.67
2:BG:260:LEU:HD21	2:BG:293:ARG:HG3	1.76	0.67
3:CJ:71:ASN:HA	3:CJ:74:ARG:HH21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BR:68:ALA:O	2:BR:70:ASN:ND2	2.27	0.67
3:CV:90:HIS:HB3	3:CV:195:PRO:HB2	1.77	0.67
3:CA:297:ASP:OD2	4:EB:72:ARG:NH2	2.28	0.67
2:BK:197:ARG:HA	2:BK:232:GLU:HG2	1.77	0.67
3:CK:296:VAL:HB	4:FL:60:ILE:HD11	1.75	0.67
3:CP:253:GLN:NE2	4:FQ:126:ILE:O	2.28	0.67
2:BS:260:LEU:HD21	2:BS:293:ARG:HG3	1.74	0.67
3:CT:71:ASN:HA	3:CT:74:ARG:HH21	1.59	0.67
2:B1:201:GLU:HA	2:B1:204:ASN:HD22	1.58	0.67
2:B4:240:VAL:O	2:B4:273:LYS:NZ	2.27	0.67
3:C5:282:ASP:HB2	4:D5:122:ILE:HD12	1.77	0.67
2:B7:263:LEU:HD22	2:B7:271:ARG:HG2	1.77	0.67
3:CN:90:HIS:HB3	3:CN:195:PRO:HB2	1.76	0.67
2:BO:97:ILE:O	2:BO:100:THR:OG1	2.13	0.67
3:CQ:282:ASP:HB2	4:DQ:122:ILE:HD12	1.77	0.67
2:BS:42:ALA:HB2	2:BT:97:ILE:HG23	1.77	0.67
2:B8:263:LEU:HD22	2:B8:271:ARG:HG2	1.77	0.67
2:BA:251:LEU:HB2	2:BA:278:MET:HE2	1.75	0.67
2:BC:263:LEU:HD22	2:BC:271:ARG:HG2	1.77	0.67
2:BD:97:ILE:O	2:BD:100:THR:OG1	2.12	0.67
2:BJ:295:PRO:HB2	2:BK:330:TYR:HB3	1.76	0.67
2:BL:113:MET:O	2:BL:141:GLN:NE2	2.20	0.67
3:CM:90:HIS:HB3	3:CM:195:PRO:HB2	1.76	0.67
3:CS:296:VAL:HB	4:FT:60:ILE:HD11	1.76	0.67
2:B1:9:LYS:HA	2:B1:12:ILE:HD12	1.77	0.67
1:A4:536:ILE:HA	1:A4:539:MET:HE3	1.77	0.67
2:B5:260:LEU:HD21	2:B5:293:ARG:HG3	1.75	0.67
2:B6:251:LEU:HB2	2:B6:278:MET:HE2	1.75	0.67
3:C9:296:VAL:HB	4:FA:60:ILE:HD11	1.76	0.67
3:CA:71:ASN:HA	3:CA:74:ARG:HH21	1.60	0.67
3:CF:90:HIS:HB3	3:CF:195:PRO:HB2	1.77	0.67
3:CI:90:HIS:HB3	3:CI:195:PRO:HB2	1.76	0.67
3:CO:71:ASN:HA	3:CO:74:ARG:HH21	1.59	0.67
3:CO:282:ASP:HB2	4:DO:122:ILE:HD12	1.77	0.67
2:BP:263:LEU:HD22	2:BP:271:ARG:HG2	1.77	0.67
3:CQ:71:ASN:HA	3:CQ:74:ARG:HH21	1.60	0.67
3:CU:255:GLN:HB3	4:DU:76:LYS:HG3	1.76	0.67
1:AV:547:VAL:HG23	2:BV:59:PHE:HZ	1.60	0.67
2:B4:251:LEU:HB2	2:B4:278:MET:HE2	1.75	0.66
2:B5:139:ARG:HH12	2:B6:198:THR:HG23	1.60	0.66
2:B8:201:GLU:HA	2:B8:204:ASN:HD22	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:258:GLU:O	4:FE:102:ASN:ND2	2.28	0.66
2:BE:68:ALA:O	2:BE:70:ASN:ND2	2.28	0.66
2:BG:298:LEU:HD11	2:BH:329:THR:HB	1.77	0.66
3:CK:90:HIS:HB3	3:CK:195:PRO:HB2	1.77	0.66
2:BL:97:ILE:O	2:BL:100:THR:OG1	2.13	0.66
2:BO:240:VAL:O	2:BO:273:LYS:NZ	2.27	0.66
2:BS:68:ALA:O	2:BS:70:ASN:ND2	2.27	0.66
4:FS:132:MET:HE1	4:FS:135:LEU:HD22	1.77	0.66
2:BX:260:LEU:HD21	2:BX:293:ARG:HG3	1.75	0.66
2:B8:240:VAL:O	2:B8:273:LYS:NZ	2.27	0.66
2:BA:207:LYS:HE3	2:BA:209:GLN:H	1.60	0.66
3:CE:253:GLN:OE1	4:FF:131:ARG:NH2	2.28	0.66
4:DU:105:LEU:HB3	4:DU:126:ILE:HG21	1.77	0.66
2:B2:263:LEU:HD22	2:B2:271:ARG:HG2	1.77	0.66
2:B3:263:LEU:HD22	2:B3:271:ARG:HG2	1.77	0.66
2:BB:263:LEU:HD22	2:BB:271:ARG:HG2	1.77	0.66
4:ED:61:PRO:HA	4:FD:74:THR:HA	1.77	0.66
2:BF:9:LYS:HA	2:BF:12:ILE:HD12	1.77	0.66
4:EF:97:LEU:N	4:EF:109:GLY:O	2.29	0.66
1:AG:547:VAL:HG23	2:BG:59:PHE:HZ	1.60	0.66
2:BH:197:ARG:HA	2:BH:232:GLU:HG2	1.77	0.66
2:BK:68:ALA:O	2:BK:70:ASN:ND2	2.27	0.66
3:CM:71:ASN:HA	3:CM:74:ARG:HH21	1.59	0.66
2:BQ:263:LEU:HD22	2:BQ:271:ARG:HG2	1.76	0.66
3:C2:296:VAL:HB	4:F3:60:ILE:HD11	1.77	0.66
2:B8:9:LYS:HA	2:B8:12:ILE:HD12	1.76	0.66
3:C8:71:ASN:HA	3:C8:74:ARG:HH21	1.59	0.66
2:BB:97:ILE:O	2:BB:100:THR:OG1	2.12	0.66
2:BE:263:LEU:HD22	2:BE:271:ARG:HG2	1.77	0.66
2:BJ:207:LYS:HE3	2:BJ:209:GLN:H	1.61	0.66
2:BJ:263:LEU:HD22	2:BJ:271:ARG:HG2	1.78	0.66
3:CN:71:ASN:HA	3:CN:74:ARG:HH21	1.59	0.66
2:BQ:113:MET:O	2:BQ:141:GLN:NE2	2.21	0.66
2:BT:46:GLN:NE2	2:BU:68:ALA:H	1.94	0.66
2:BU:97:ILE:O	2:BU:100:THR:OG1	2.13	0.66
2:BW:197:ARG:HA	2:BW:232:GLU:HG2	1.76	0.66
4:F4:132:MET:HE3	4:F4:136:SER:HB3	1.76	0.66
3:C6:282:ASP:HB2	4:D6:122:ILE:HD12	1.78	0.66
1:A9:547:VAL:HG23	2:B9:59:PHE:HZ	1.59	0.66
2:BC:295:PRO:HB2	2:BD:330:TYR:HB3	1.76	0.66
1:AE:547:VAL:HG23	2:BE:59:PHE:HZ	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:547:VAL:HG23	2:BF:59:PHE:HZ	1.59	0.66
4:FG:104:TYR:OH	4:FG:131:ARG:NH2	2.28	0.66
2:BN:295:PRO:HB2	2:BO:330:TYR:HB3	1.76	0.66
1:AQ:547:VAL:HG23	2:BQ:59:PHE:HZ	1.61	0.66
2:BY:113:MET:O	2:BY:141:GLN:NE2	2.23	0.66
3:C3:282:ASP:HB2	4:D3:122:ILE:HD12	1.78	0.66
2:B8:295:PRO:HB2	2:B9:330:TYR:HB3	1.76	0.66
2:BA:263:LEU:HD22	2:BA:271:ARG:HG2	1.76	0.66
2:BD:263:LEU:HD22	2:BD:271:ARG:HG2	1.78	0.66
2:BH:97:ILE:O	2:BH:100:THR:OG1	2.13	0.66
3:CK:199:VAL:HG23	3:CK:220:PRO:HA	1.76	0.66
2:BM:113:MET:O	2:BM:141:GLN:NE2	2.21	0.66
3:CM:282:ASP:HB2	4:DM:122:ILE:HD12	1.78	0.66
2:BN:46:GLN:NE2	2:BN:47:ILE:O	2.29	0.66
2:BO:263:LEU:HD22	2:BO:271:ARG:HG2	1.77	0.66
2:BR:260:LEU:HD21	2:BR:293:ARG:HG3	1.77	0.66
2:BU:127:PRO:HA	2:BU:130:ILE:HD12	1.78	0.66
3:C2:282:ASP:HB2	4:D2:122:ILE:HD12	1.78	0.66
3:C3:71:ASN:HA	3:C3:74:ARG:HH21	1.59	0.66
3:C9:300:PRO:HB2	3:C9:321:ILE:HG13	1.78	0.66
2:BA:15:MET:HE1	2:BA:41:MET:HE2	1.78	0.66
3:CB:199:VAL:HG23	3:CB:220:PRO:HA	1.77	0.66
2:BC:207:LYS:HE3	2:BC:209:GLN:H	1.61	0.66
2:BE:46:GLN:NE2	2:BF:68:ALA:O	2.28	0.66
2:BE:127:PRO:HA	2:BE:130:ILE:HD12	1.78	0.66
3:CE:71:ASN:HA	3:CE:74:ARG:HH21	1.60	0.66
2:BF:295:PRO:HB2	2:BG:330:TYR:HB3	1.76	0.66
2:BN:201:GLU:HA	2:BN:204:ASN:HD22	1.61	0.66
3:CR:300:PRO:HB2	3:CR:321:ILE:HG13	1.77	0.66
2:BT:298:LEU:HD11	2:BU:329:THR:HB	1.76	0.66
2:B1:97:ILE:O	2:B1:100:THR:OG1	2.12	0.66
3:C2:71:ASN:HA	3:C2:74:ARG:HH21	1.60	0.66
2:B4:263:LEU:HD22	2:B4:271:ARG:HG2	1.77	0.66
2:B5:203:ILE:HG12	2:B5:214:VAL:HG11	1.78	0.66
3:C5:199:VAL:HG23	3:C5:220:PRO:HA	1.77	0.66
3:CF:71:ASN:HA	3:CF:74:ARG:HH21	1.60	0.66
3:CF:282:ASP:HB2	4:DF:122:ILE:HD12	1.77	0.66
2:BO:197:ARG:HA	2:BO:232:GLU:HG2	1.75	0.66
4:EX:97:LEU:N	4:EX:109:GLY:O	2.29	0.66
2:B1:263:LEU:HD22	2:B1:271:ARG:HG2	1.78	0.66
2:B3:122:ILE:HG22	2:B3:130:ILE:HG12	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:295:PRO:HB2	2:BC:330:TYR:HB3	1.76	0.66
3:CC:154:ILE:HA	3:CC:157:MET:HE3	1.78	0.66
3:CF:253:GLN:OE1	4:FG:131:ARG:NH2	2.28	0.66
4:FH:132:MET:HE3	4:FH:136:SER:HB3	1.76	0.66
2:BI:97:ILE:O	2:BI:100:THR:OG1	2.13	0.66
2:BI:251:LEU:HB2	2:BI:278:MET:HE2	1.76	0.66
2:BJ:197:ARG:HA	2:BJ:232:GLU:HG2	1.78	0.66
3:CU:71:ASN:HA	3:CU:74:ARG:HH21	1.60	0.66
3:C3:199:VAL:HG23	3:C3:220:PRO:HA	1.76	0.66
3:CI:71:ASN:HA	3:CI:74:ARG:HH21	1.60	0.66
3:CO:199:VAL:HG23	3:CO:220:PRO:HA	1.77	0.66
1:AU:551:ILE:HD11	2:BU:29:LEU:HD11	1.78	0.66
1:AW:551:ILE:HD11	2:BW:29:LEU:HD11	1.78	0.66
2:BX:201:GLU:HA	2:BX:204:ASN:HD22	1.60	0.66
3:CX:296:VAL:HB	4:FY:60:ILE:HD11	1.78	0.66
4:EY:97:LEU:N	4:EY:109:GLY:O	2.29	0.66
2:B1:46:GLN:NE2	2:B2:68:ALA:O	2.28	0.65
2:B1:139:ARG:NE	2:B2:201:GLU:OE1	2.24	0.65
4:E4:97:LEU:N	4:E4:109:GLY:O	2.29	0.65
2:B5:295:PRO:HB2	2:B6:330:TYR:HB3	1.77	0.65
4:E6:97:LEU:N	4:E6:109:GLY:O	2.29	0.65
3:CD:199:VAL:HG23	3:CD:220:PRO:HA	1.76	0.65
4:EH:97:LEU:N	4:EH:109:GLY:O	2.28	0.65
1:AL:536:ILE:HA	1:AL:539:MET:HE3	1.78	0.65
2:BO:9:LYS:HA	2:BO:12:ILE:HD12	1.77	0.65
3:CP:273:SER:OG	4:DP:58:MET:O	2.11	0.65
3:CP:282:ASP:HB2	4:DP:122:ILE:HD12	1.78	0.65
3:CX:253:GLN:NE2	4:FY:126:ILE:O	2.29	0.65
1:A6:551:ILE:HD11	2:B6:29:LEU:HD11	1.77	0.65
2:B7:207:LYS:HE3	2:B7:209:GLN:H	1.61	0.65
3:CC:71:ASN:HA	3:CC:74:ARG:HH21	1.60	0.65
3:CR:282:ASP:HB2	4:DR:122:ILE:HD12	1.78	0.65
3:CW:296:VAL:HB	4:FX:60:ILE:HD11	1.78	0.65
2:BX:207:LYS:HE3	2:BX:209:GLN:H	1.60	0.65
3:C7:154:ILE:HA	3:C7:157:MET:HE3	1.78	0.65
4:E7:97:LEU:N	4:E7:109:GLY:O	2.29	0.65
3:CC:258:GLU:O	4:FD:102:ASN:ND2	2.28	0.65
2:BD:197:ARG:HA	2:BD:232:GLU:HG2	1.76	0.65
4:DE:132:MET:HE1	4:EF:131:ARG:HD2	1.77	0.65
3:CH:71:ASN:HA	3:CH:74:ARG:HH21	1.60	0.65
2:BL:263:LEU:HD22	2:BL:271:ARG:HG2	1.77	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:300:PRO:HB2	3:CO:321:ILE:HG13	1.78	0.65
3:CP:199:VAL:HG23	3:CP:220:PRO:HA	1.78	0.65
3:CU:282:ASP:HB2	4:DU:122:ILE:HD12	1.79	0.65
3:C2:273:SER:OG	4:D2:58:MET:O	2.12	0.65
3:C9:282:ASP:HB2	4:D9:122:ILE:HD12	1.78	0.65
3:CB:282:ASP:HB2	4:DB:122:ILE:HD12	1.78	0.65
2:BD:295:PRO:HB2	2:BE:330:TYR:HB3	1.77	0.65
3:CD:71:ASN:HA	3:CD:74:ARG:HH21	1.59	0.65
2:BF:207:LYS:HE3	2:BF:209:GLN:H	1.62	0.65
2:BG:15:MET:HE3	2:BG:41:MET:HG3	1.77	0.65
2:BL:46:GLN:OE1	1:AM:549:LEU:HD11	1.96	0.65
2:BQ:4:LEU:HD11	2:BQ:47:ILE:HD11	1.78	0.65
3:CX:273:SER:OG	4:DX:58:MET:O	2.12	0.65
2:B1:295:PRO:HB2	2:B2:330:TYR:HB3	1.77	0.65
3:C2:258:GLU:O	4:F3:102:ASN:ND2	2.29	0.65
4:E2:97:LEU:N	4:E2:109:GLY:O	2.29	0.65
2:B3:201:GLU:HA	2:B3:204:ASN:HD22	1.61	0.65
2:B5:263:LEU:HD22	2:B5:271:ARG:HG2	1.79	0.65
3:C6:296:VAL:HB	4:F7:60:ILE:HD11	1.78	0.65
2:B7:295:PRO:HB2	2:B8:330:TYR:HB3	1.76	0.65
4:E8:97:LEU:N	4:E8:109:GLY:O	2.29	0.65
3:C9:71:ASN:HA	3:C9:74:ARG:HH21	1.60	0.65
2:BE:42:ALA:HB3	2:BF:101:ARG:HH21	1.61	0.65
2:BG:113:MET:O	2:BG:141:GLN:NE2	2.20	0.65
2:BH:263:LEU:HD22	2:BH:271:ARG:HG2	1.79	0.65
2:BH:295:PRO:HB2	2:BI:330:TYR:HB3	1.77	0.65
3:CI:300:PRO:HB2	3:CI:321:ILE:HG13	1.78	0.65
3:CK:273:SER:OG	4:DK:58:MET:O	2.11	0.65
2:BM:97:ILE:O	2:BM:100:THR:OG1	2.15	0.65
4:FO:132:MET:HE1	4:FO:135:LEU:HD22	1.77	0.65
3:CS:255:GLN:HB3	4:DS:76:LYS:HG3	1.79	0.65
2:BT:207:LYS:HE3	2:BT:209:GLN:H	1.61	0.65
2:BW:41:MET:HE1	2:BX:77:LEU:HB2	1.78	0.65
3:CX:282:ASP:HB2	4:DX:122:ILE:HD12	1.79	0.65
4:E3:97:LEU:N	4:E3:109:GLY:O	2.29	0.65
2:B4:158:MET:HE1	2:B5:217:ALA:HB3	1.79	0.65
3:C4:199:VAL:HG23	3:C4:220:PRO:HA	1.78	0.65
3:C4:282:ASP:HB2	4:D4:122:ILE:HD12	1.79	0.65
4:E5:97:LEU:N	4:E5:109:GLY:O	2.29	0.65
3:C7:249:ASN:HB3	4:F8:125:ILE:HD13	1.78	0.65
2:BA:68:ALA:O	2:BA:70:ASN:ND2	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CA:282:ASP:HB2	4:DA:122:ILE:HD12	1.79	0.65
1:AM:536:ILE:HA	1:AM:539:MET:HE3	1.78	0.65
1:AN:536:ILE:HA	1:AN:539:MET:HE3	1.78	0.65
3:CN:282:ASP:HB2	4:DN:122:ILE:HD12	1.79	0.65
1:A6:536:ILE:HA	1:A6:539:MET:HE3	1.79	0.65
2:B9:295:PRO:HB2	2:BA:330:TYR:HB3	1.77	0.65
4:EI:73:MET:HE1	4:EI:78:LEU:HD23	1.77	0.65
1:AJ:551:ILE:HD11	2:BJ:29:LEU:HD11	1.77	0.65
2:BJ:143:ALA:HB1	2:BK:206:MET:HG3	1.79	0.65
2:BL:295:PRO:HB2	2:BM:330:TYR:HB3	1.77	0.65
3:CS:282:ASP:HB2	4:DS:122:ILE:HD12	1.79	0.65
2:BX:46:GLN:OE1	1:AY:549:LEU:HD11	1.95	0.65
2:BY:263:LEU:HD22	2:BY:271:ARG:HG2	1.79	0.65
4:F1:126:ILE:O	3:CY:253:GLN:NE2	2.30	0.65
2:B4:139:ARG:HD2	2:B5:202:ILE:HA	1.77	0.65
2:B5:46:GLN:OE1	1:A6:549:LEU:HD11	1.97	0.65
3:CJ:282:ASP:HB2	4:DJ:122:ILE:HD12	1.79	0.65
2:BL:68:ALA:O	2:BL:70:ASN:ND2	2.29	0.65
2:BL:127:PRO:HA	2:BL:130:ILE:HD12	1.79	0.65
3:CL:199:VAL:HG23	3:CL:220:PRO:HA	1.78	0.65
3:CN:258:GLU:O	4:FO:102:ASN:ND2	2.28	0.65
2:BY:197:ARG:HA	2:BY:232:GLU:HG2	1.77	0.65
3:C3:296:VAL:HB	4:F4:60:ILE:HD11	1.78	0.65
3:C5:296:VAL:HB	4:F6:60:ILE:HD11	1.78	0.65
2:BB:207:LYS:HE3	2:BB:209:GLN:H	1.62	0.65
4:EE:97:LEU:N	4:EE:109:GLY:O	2.29	0.65
3:CH:90:HIS:HB3	3:CH:195:PRO:HB2	1.78	0.65
3:CI:296:VAL:HB	4:FJ:60:ILE:HD11	1.78	0.65
2:BJ:41:MET:HE1	2:BK:77:LEU:HD22	1.79	0.65
4:DL:105:LEU:HB3	4:DL:126:ILE:HG21	1.78	0.65
2:BM:263:LEU:HD22	2:BM:271:ARG:HG2	1.78	0.65
2:BN:46:GLN:NE2	2:BO:68:ALA:O	2.30	0.65
2:BT:68:ALA:O	2:BT:70:ASN:ND2	2.30	0.65
3:C1:282:ASP:HB2	4:D1:122:ILE:HD12	1.79	0.65
2:B5:139:ARG:HD2	2:B6:202:ILE:HA	1.77	0.65
3:CG:205:HIS:NE2	3:CG:212:THR:OG1	2.30	0.65
3:CI:205:HIS:NE2	3:CI:212:THR:OG1	2.30	0.65
2:BK:122:ILE:HG22	2:BK:130:ILE:HG12	1.78	0.65
4:EM:97:LEU:N	4:EM:109:GLY:O	2.29	0.65
3:CQ:205:HIS:NE2	3:CQ:212:THR:OG1	2.30	0.65
4:FR:132:MET:HE1	4:FR:135:LEU:HD22	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:253:GLN:NE2	4:FU:126:ILE:O	2.29	0.65
2:BU:263:LEU:HD22	2:BU:271:ARG:HG2	1.78	0.65
3:CV:253:GLN:NE2	4:FW:126:ILE:O	2.30	0.65
2:BW:122:ILE:HG22	2:BW:130:ILE:HG12	1.79	0.65
3:CW:238:ASN:HD22	3:CX:112:GLY:HA2	1.62	0.65
3:C1:258:GLU:O	4:F2:102:ASN:ND2	2.29	0.64
3:C2:205:HIS:NE2	3:C2:212:THR:OG1	2.30	0.64
2:B4:46:GLN:NE2	2:B4:47:ILE:O	2.29	0.64
2:BC:46:GLN:NE2	2:BC:47:ILE:O	2.30	0.64
3:CE:205:HIS:NE2	3:CE:212:THR:OG1	2.31	0.64
2:BF:263:LEU:HD22	2:BF:271:ARG:HG2	1.78	0.64
2:BG:139:ARG:HD2	2:BH:202:ILE:HA	1.78	0.64
4:FH:132:MET:HE1	4:FH:135:LEU:HD22	1.79	0.64
2:BK:46:GLN:NE2	2:BL:68:ALA:O	2.26	0.64
3:CK:282:ASP:HB2	4:DK:122:ILE:HD12	1.79	0.64
4:EN:97:LEU:N	4:EN:109:GLY:O	2.29	0.64
3:CO:205:HIS:NE2	3:CO:212:THR:OG1	2.30	0.64
4:FP:127:THR:HG23	4:FP:130:GLU:H	1.61	0.64
3:CW:253:GLN:NE2	4:FX:126:ILE:O	2.30	0.64
2:B4:42:ALA:O	2:B5:101:ARG:NH2	2.29	0.64
2:B5:229:ILE:O	2:B5:233:MET:HG2	1.97	0.64
2:B7:297:ARG:NH2	2:B8:243:ASP:OD2	2.30	0.64
4:F7:132:MET:HE1	4:F7:135:LEU:HD22	1.77	0.64
2:B8:197:ARG:HA	2:B8:232:GLU:HG2	1.78	0.64
2:B9:263:LEU:HD22	2:B9:271:ARG:HG2	1.78	0.64
3:CA:253:GLN:NE2	4:FB:126:ILE:O	2.30	0.64
4:EI:75:ILE:HA	4:EI:78:LEU:HD12	1.79	0.64
4:EP:97:LEU:N	4:EP:109:GLY:O	2.29	0.64
3:CS:205:HIS:NE2	3:CS:212:THR:OG1	2.30	0.64
2:B2:41:MET:HE2	2:B3:77:LEU:HB2	1.80	0.64
3:C4:253:GLN:NE2	4:F5:126:ILE:O	2.30	0.64
4:E6:107:ALA:HB2	4:E6:125:ILE:HD12	1.79	0.64
2:B7:127:PRO:HA	2:B7:130:ILE:HD12	1.80	0.64
2:BB:127:PRO:HA	2:BB:130:ILE:HD12	1.80	0.64
3:CC:205:HIS:NE2	3:CC:212:THR:OG1	2.31	0.64
3:CH:282:ASP:HB2	4:DH:122:ILE:HD12	1.79	0.64
2:BI:113:MET:O	2:BI:141:GLN:NE2	2.27	0.64
3:CM:205:HIS:NE2	3:CM:212:THR:OG1	2.31	0.64
4:DO:105:LEU:HB3	4:DO:126:ILE:HG21	1.79	0.64
3:CR:253:GLN:NE2	4:FS:126:ILE:O	2.30	0.64
3:CS:253:GLN:NE2	4:FT:126:ILE:O	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:154:ILE:HA	3:CT:157:MET:HE3	1.78	0.64
1:A2:551:ILE:HD11	2:B2:29:LEU:HD11	1.79	0.64
1:A5:552:ARG:HH11	1:A5:555:MET:HE3	1.63	0.64
4:EG:97:LEU:N	4:EG:109:GLY:O	2.29	0.64
2:BI:297:ARG:NH2	2:BJ:243:ASP:OD2	2.31	0.64
2:BK:263:LEU:HD22	2:BK:271:ARG:HG2	1.79	0.64
3:CK:205:HIS:NE2	3:CK:212:THR:OG1	2.31	0.64
3:CN:255:GLN:HB3	4:DN:76:LYS:HG3	1.79	0.64
2:BO:136:HIS:CD2	2:BP:193:MET:HE2	2.33	0.64
2:BP:127:PRO:HA	2:BP:130:ILE:HD12	1.80	0.64
2:BR:298:LEU:HD11	2:BS:329:THR:HB	1.79	0.64
2:BS:263:LEU:HD22	2:BS:271:ARG:HG2	1.78	0.64
3:C1:253:GLN:OE1	4:F2:131:ARG:NH2	2.31	0.64
2:B2:201:GLU:HA	2:B2:204:ASN:HD22	1.62	0.64
3:CA:205:HIS:NE2	3:CA:212:THR:OG1	2.31	0.64
2:BE:229:ILE:O	2:BE:233:MET:HG2	1.98	0.64
3:CH:296:VAL:HB	4:FI:60:ILE:HD11	1.78	0.64
2:BJ:127:PRO:HA	2:BJ:130:ILE:HD12	1.79	0.64
4:EK:97:LEU:N	4:EK:109:GLY:O	2.30	0.64
2:BN:207:LYS:HE3	2:BN:209:GLN:H	1.63	0.64
3:CO:255:GLN:HB3	4:DO:76:LYS:HG3	1.78	0.64
2:BT:263:LEU:HD22	2:BT:271:ARG:HG2	1.79	0.64
3:CU:205:HIS:NE2	3:CU:212:THR:OG1	2.31	0.64
2:BX:263:LEU:HD22	2:BX:271:ARG:HG2	1.78	0.64
2:BY:201:GLU:HA	2:BY:204:ASN:HD22	1.63	0.64
2:B1:229:ILE:O	2:B1:233:MET:HG2	1.98	0.64
2:B2:297:ARG:NH2	2:B3:243:ASP:OD2	2.31	0.64
4:EC:97:LEU:N	4:EC:109:GLY:O	2.29	0.64
4:EG:73:MET:HE1	4:EG:78:LEU:HD23	1.79	0.64
4:FG:90:ASP:OD2	4:FG:137:ARG:NE	2.29	0.64
1:AM:551:ILE:HD11	2:BM:29:LEU:HD11	1.80	0.64
4:EO:97:LEU:N	4:EO:109:GLY:O	2.29	0.64
3:C5:205:HIS:NE2	3:C5:212:THR:OG1	2.31	0.64
3:C8:205:HIS:NE2	3:C8:212:THR:OG1	2.30	0.64
2:BG:207:LYS:HE3	2:BG:209:GLN:H	1.63	0.64
4:EJ:121:ARG:HH12	4:FJ:86:VAL:HA	1.62	0.64
3:CL:205:HIS:NE2	3:CL:212:THR:OG1	2.30	0.64
2:BN:158:MET:HE1	2:BO:217:ALA:HB3	1.80	0.64
4:EQ:97:LEU:N	4:EQ:109:GLY:O	2.29	0.64
2:BS:122:ILE:HG22	2:BS:130:ILE:HG12	1.79	0.64
4:FT:132:MET:SD	4:FT:135:LEU:HB3	2.37	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:154:ILE:HA	3:CV:157:MET:HE3	1.79	0.64
3:CW:205:HIS:NE2	3:CW:212:THR:OG1	2.30	0.64
3:CX:255:GLN:HB3	4:DX:76:LYS:HG3	1.80	0.64
3:CY:205:HIS:NE2	3:CY:212:THR:OG1	2.30	0.64
3:C1:253:GLN:NE2	4:F2:126:ILE:O	2.31	0.64
1:A4:547:VAL:HG23	2:B4:59:PHE:HZ	1.60	0.64
3:C8:282:ASP:HB2	4:D8:122:ILE:HD12	1.80	0.64
3:C8:296:VAL:HB	4:F9:60:ILE:HD11	1.77	0.64
2:B9:207:LYS:HE3	2:B9:209:GLN:H	1.62	0.64
4:E9:107:ALA:HB2	4:E9:125:ILE:HD12	1.80	0.64
3:CB:205:HIS:NE2	3:CB:212:THR:OG1	2.30	0.64
4:ED:97:LEU:N	4:ED:109:GLY:O	2.30	0.64
3:CH:205:HIS:NE2	3:CH:212:THR:OG1	2.30	0.64
3:CJ:205:HIS:NE2	3:CJ:212:THR:OG1	2.30	0.64
4:EL:97:LEU:N	4:EL:109:GLY:O	2.30	0.64
3:CM:255:GLN:HB3	4:DM:76:LYS:HG3	1.79	0.64
4:FN:126:ILE:HD11	4:FN:131:ARG:HH21	1.61	0.64
1:AP:534:GLN:HG3	1:AP:537:ARG:HH21	1.63	0.64
2:B1:329:THR:HB	2:BY:298:LEU:HD11	1.80	0.64
4:E1:73:MET:HE1	4:E1:78:LEU:HD23	1.80	0.64
4:E1:97:LEU:N	4:E1:109:GLY:O	2.31	0.64
2:B5:298:LEU:HD11	2:B6:329:THR:HB	1.80	0.64
2:B9:9:LYS:HA	2:B9:12:ILE:HD12	1.79	0.64
2:BA:46:GLN:HG3	2:BB:70:ASN:HD22	1.63	0.64
2:BE:207:LYS:HE3	2:BE:209:GLN:H	1.62	0.64
2:BH:122:ILE:HG22	2:BH:130:ILE:HG12	1.80	0.64
3:CN:205:HIS:NE2	3:CN:212:THR:OG1	2.31	0.64
3:CP:205:HIS:NE2	3:CP:212:THR:OG1	2.31	0.64
4:FP:132:MET:HE1	4:FP:135:LEU:HD22	1.80	0.64
2:BQ:46:GLN:NE2	2:BR:68:ALA:O	2.30	0.64
3:CR:255:GLN:HB3	4:DR:76:LYS:HG3	1.80	0.64
2:BS:132:THR:O	2:BS:136:HIS:ND1	2.30	0.64
2:BV:263:LEU:HD22	2:BV:271:ARG:HG2	1.79	0.64
3:CY:294:ALA:HB3	3:CY:302:LEU:HG	1.80	0.64
1:A1:551:ILE:HD11	2:B1:29:LEU:HD11	1.80	0.64
2:B1:207:LYS:HE3	2:B1:209:GLN:H	1.63	0.64
3:C1:300:PRO:HB2	3:C1:321:ILE:HG13	1.80	0.64
4:E1:107:ALA:HB2	4:E1:125:ILE:HD12	1.80	0.64
2:B3:46:GLN:NE2	2:B4:68:ALA:O	2.26	0.64
3:C4:273:SER:OG	4:D4:58:MET:O	2.12	0.64
2:B6:46:GLN:NE2	2:B6:47:ILE:O	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:205:HIS:NE2	3:C7:212:THR:OG1	2.31	0.64
3:CB:294:ALA:HB3	3:CB:302:LEU:HG	1.80	0.64
4:EB:97:LEU:N	4:EB:109:GLY:O	2.29	0.64
3:CD:205:HIS:NE2	3:CD:212:THR:OG1	2.30	0.64
2:BE:14:LEU:HD13	2:BE:17:ILE:HD11	1.79	0.64
3:CH:273:SER:OG	4:DH:58:MET:O	2.15	0.64
2:BI:46:GLN:NE2	2:BJ:68:ALA:H	1.96	0.64
1:AL:551:ILE:HD11	2:BL:29:LEU:HD11	1.80	0.64
2:BL:207:LYS:HE3	2:BL:209:GLN:H	1.63	0.64
3:CL:258:GLU:O	4:FM:102:ASN:ND2	2.29	0.64
2:BM:297:ARG:NH2	2:BN:243:ASP:OD2	2.31	0.64
3:CM:297:ASP:OD2	4:EN:72:ARG:NH2	2.30	0.64
2:BO:207:LYS:HE3	2:BO:209:GLN:H	1.63	0.64
2:BP:201:GLU:HA	2:BP:204:ASN:HD22	1.62	0.64
3:CR:205:HIS:NE2	3:CR:212:THR:OG1	2.31	0.64
4:ER:97:LEU:N	4:ER:109:GLY:O	2.29	0.64
2:BS:139:ARG:HE	2:BT:202:ILE:HA	1.61	0.64
3:CV:205:HIS:NE2	3:CV:212:THR:OG1	2.31	0.64
3:CV:282:ASP:HB2	4:DV:122:ILE:HD12	1.80	0.64
4:DY:128:PRO:HA	4:DY:131:ARG:HG3	1.80	0.64
3:C2:255:GLN:HB3	4:D2:76:LYS:HG3	1.80	0.63
3:C7:258:GLU:O	4:F8:102:ASN:ND2	2.31	0.63
3:C9:205:HIS:NE2	3:C9:212:THR:OG1	2.30	0.63
3:CD:282:ASP:HB2	4:DD:122:ILE:HD12	1.80	0.63
4:FD:132:MET:HE1	4:FD:135:LEU:HD22	1.80	0.63
4:FE:132:MET:HE1	4:FE:135:LEU:HD22	1.80	0.63
4:FF:90:ASP:OD2	4:FF:137:ARG:NE	2.29	0.63
2:BH:46:GLN:NE2	2:BH:47:ILE:O	2.31	0.63
3:CK:255:GLN:HB3	4:DK:76:LYS:HG3	1.80	0.63
2:BT:14:LEU:O	2:BU:76:TYR:OH	2.08	0.63
2:BT:122:ILE:HG22	2:BT:130:ILE:HG12	1.78	0.63
3:CV:255:GLN:HB3	4:DV:76:LYS:HG3	1.80	0.63
2:BX:297:ARG:NH2	2:BY:243:ASP:OD2	2.32	0.63
2:BX:298:LEU:HD11	2:BY:329:THR:HB	1.80	0.63
4:EX:107:ALA:HB2	4:EX:125:ILE:HD12	1.80	0.63
2:B2:197:ARG:HA	2:B2:232:GLU:HG2	1.78	0.63
3:C2:253:GLN:NE2	4:F3:126:ILE:O	2.32	0.63
2:B3:229:ILE:O	2:B3:233:MET:HG2	1.98	0.63
3:C3:258:GLU:O	4:F4:102:ASN:ND2	2.31	0.63
2:B4:298:LEU:HD11	2:B5:329:THR:HB	1.80	0.63
4:FE:104:TYR:OH	4:FE:131:ARG:NH1	2.31	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:205:HIS:NE2	3:CF:212:THR:OG1	2.30	0.63
3:CF:299:VAL:HG22	4:FF:132:MET:HE2	1.80	0.63
2:BG:197:ARG:HA	2:BG:232:GLU:HG2	1.79	0.63
4:EI:68:LEU:HB3	4:FI:66:VAL:HG13	1.80	0.63
2:BJ:122:ILE:HG22	2:BJ:130:ILE:HG12	1.80	0.63
3:CN:253:GLN:NE2	4:FO:126:ILE:O	2.31	0.63
4:EP:73:MET:SD	4:EP:77:GLU:HG2	2.38	0.63
2:BS:298:LEU:HD11	2:BT:329:THR:HB	1.80	0.63
4:ET:97:LEU:N	4:ET:109:GLY:O	2.29	0.63
3:CW:282:ASP:HB2	4:DW:122:ILE:HD12	1.80	0.63
3:C1:205:HIS:NE2	3:C1:212:THR:OG1	2.30	0.63
1:A3:547:VAL:HG23	2:B3:59:PHE:HZ	1.61	0.63
3:C3:205:HIS:NE2	3:C3:212:THR:OG1	2.31	0.63
3:CA:56:ILE:HD11	3:CB:188:PHE:HD1	1.64	0.63
4:FD:70:ARG:NH1	4:FD:98:ASP:OD2	2.31	0.63
4:FD:90:ASP:OD2	4:FD:137:ARG:NE	2.29	0.63
4:DE:74:THR:N	4:DE:77:GLU:OE2	2.24	0.63
4:FE:132:MET:SD	4:FE:135:LEU:HB3	2.38	0.63
3:CG:282:ASP:HB2	4:DG:122:ILE:HD12	1.80	0.63
2:BJ:38:SER:HB3	2:BK:97:ILE:HD11	1.81	0.63
4:EJ:97:LEU:N	4:EJ:109:GLY:O	2.30	0.63
3:CP:258:GLU:O	4:FQ:102:ASN:ND2	2.32	0.63
4:ES:97:LEU:N	4:ES:109:GLY:O	2.29	0.63
3:CU:294:ALA:HB3	3:CU:302:LEU:HG	1.81	0.63
4:FU:132:MET:HE1	4:FU:135:LEU:HD22	1.81	0.63
3:CX:205:HIS:NE2	3:CX:212:THR:OG1	2.31	0.63
2:BY:229:ILE:O	2:BY:233:MET:HG2	1.98	0.63
3:C4:205:HIS:NE2	3:C4:212:THR:OG1	2.30	0.63
3:C8:253:GLN:OE1	4:F9:131:ARG:NH2	2.31	0.63
4:E9:97:LEU:N	4:E9:109:GLY:O	2.29	0.63
3:CF:238:ASN:HD22	3:CG:112:GLY:HA2	1.63	0.63
2:BG:263:LEU:HD22	2:BG:271:ARG:HG2	1.80	0.63
2:BH:14:LEU:HD13	2:BH:17:ILE:HD11	1.79	0.63
3:CH:258:GLU:O	4:FI:102:ASN:ND2	2.31	0.63
4:EI:97:LEU:N	4:EI:109:GLY:O	2.31	0.63
2:BO:298:LEU:HD11	2:BP:329:THR:HB	1.80	0.63
2:BP:207:LYS:HE3	2:BP:209:GLN:H	1.63	0.63
2:BR:97:ILE:O	2:BR:100:THR:OG1	2.16	0.63
2:BR:263:LEU:HD22	2:BR:271:ARG:HG2	1.78	0.63
2:BS:46:GLN:NE2	2:BS:47:ILE:O	2.31	0.63
2:BS:197:ARG:HA	2:BS:232:GLU:HG2	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FT:132:MET:HE1	4:FT:135:LEU:HD22	1.80	0.63
2:B1:113:MET:O	2:B1:141:GLN:NE2	2.26	0.63
2:B1:298:LEU:HD11	2:B2:329:THR:HB	1.80	0.63
3:C7:296:VAL:HB	4:F8:60:ILE:HD11	1.80	0.63
2:B8:207:LYS:HE3	2:B8:209:GLN:H	1.63	0.63
4:EA:97:LEU:N	4:EA:109:GLY:O	2.29	0.63
3:CG:258:GLU:O	4:FH:102:ASN:ND2	2.32	0.63
2:BI:122:ILE:HG22	2:BI:130:ILE:HG12	1.79	0.63
2:BI:207:LYS:HE3	2:BI:209:GLN:H	1.64	0.63
3:CI:274:GLN:O	3:CI:278:LEU:HB2	1.99	0.63
2:BJ:9:LYS:HA	2:BJ:12:ILE:HD12	1.80	0.63
4:EU:107:ALA:HB2	4:EU:125:ILE:HD12	1.80	0.63
2:BW:298:LEU:HD11	2:BX:329:THR:HB	1.80	0.63
1:AX:534:GLN:HG3	1:AX:537:ARG:HH21	1.64	0.63
1:AY:548:ALA:HA	2:BY:25:VAL:HG13	1.80	0.63
4:E2:107:ALA:HB2	4:E2:125:ILE:HD12	1.81	0.63
2:B4:43:ASN:O	2:B4:45:ARG:NH1	2.32	0.63
2:B8:47:ILE:HB	2:B9:69:LEU:HD12	1.80	0.63
2:B9:229:ILE:O	2:B9:233:MET:HG2	1.99	0.63
2:BD:97:ILE:O	2:BD:101:ARG:NH1	2.31	0.63
2:BE:122:ILE:HG22	2:BE:130:ILE:HG12	1.81	0.63
2:BE:297:ARG:NH2	2:BF:243:ASP:OD2	2.32	0.63
2:BN:127:PRO:HA	2:BN:130:ILE:HD12	1.81	0.63
2:BO:122:ILE:HG22	2:BO:130:ILE:HG12	1.81	0.63
4:EP:68:LEU:HB3	4:FP:66:VAL:HG13	1.81	0.63
3:CT:205:HIS:NE2	3:CT:212:THR:OG1	2.31	0.63
2:B2:207:LYS:HE3	2:B2:209:GLN:H	1.62	0.63
2:B4:127:PRO:HA	2:B4:130:ILE:HD12	1.81	0.63
3:C6:205:HIS:NE2	3:C6:212:THR:OG1	2.31	0.63
4:E7:73:MET:HE1	4:E7:78:LEU:HD23	1.80	0.63
3:CB:296:VAL:HB	4:FC:60:ILE:HD11	1.80	0.63
2:BD:207:LYS:HE3	2:BD:209:GLN:H	1.63	0.63
3:CD:253:GLN:NE2	4:FE:126:ILE:O	2.31	0.63
4:FD:100:LEU:HA	4:FD:105:LEU:HA	1.80	0.63
2:BO:297:ARG:NH2	2:BP:243:ASP:OD2	2.32	0.63
3:CT:255:GLN:HB3	4:DT:76:LYS:HG3	1.79	0.63
3:CX:253:GLN:OE1	4:FY:131:ARG:NH2	2.32	0.63
2:BD:9:LYS:HA	2:BD:12:ILE:HD12	1.80	0.63
3:CH:255:GLN:HB3	4:DH:76:LYS:HG3	1.80	0.63
3:CI:294:ALA:HB3	3:CI:302:LEU:HG	1.81	0.63
2:BL:4:LEU:HD11	2:BL:47:ILE:HD11	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:253:GLN:NE2	4:FR:126:ILE:O	2.31	0.63
2:BR:4:LEU:HD11	2:BR:47:ILE:HD11	1.80	0.63
4:EU:97:LEU:N	4:EU:109:GLY:O	2.30	0.63
2:BY:207:LYS:HE3	2:BY:209:GLN:H	1.63	0.63
3:CY:255:GLN:HB3	4:DY:76:LYS:HG3	1.80	0.63
2:B1:68:ALA:H	2:BY:46:GLN:NE2	1.96	0.63
4:F1:60:ILE:HD11	3:CY:296:VAL:HB	1.79	0.63
3:C4:255:GLN:HB3	4:D4:76:LYS:HG3	1.80	0.63
2:B8:122:ILE:HG22	2:B8:130:ILE:HG12	1.80	0.63
3:CA:258:GLU:O	4:FB:102:ASN:ND2	2.32	0.63
2:BG:122:ILE:HG22	2:BG:130:ILE:HG12	1.81	0.63
4:EG:128:PRO:HG3	4:EG:131:ARG:HH21	1.63	0.63
2:BL:298:LEU:HD11	2:BM:329:THR:HB	1.79	0.63
3:CW:255:GLN:HB3	4:DW:76:LYS:HG3	1.80	0.63
4:EW:97:LEU:N	4:EW:109:GLY:O	2.29	0.63
2:B2:122:ILE:HG22	2:B2:130:ILE:HG12	1.80	0.62
3:C5:297:ASP:OD2	4:E6:72:ARG:NH2	2.29	0.62
4:F6:100:LEU:HA	4:F6:105:LEU:HA	1.81	0.62
4:FC:70:ARG:NH1	4:FC:98:ASP:OD2	2.32	0.62
4:EE:107:ALA:HB2	4:EE:125:ILE:HD12	1.80	0.62
3:CH:253:GLN:NE2	4:FI:126:ILE:O	2.32	0.62
4:FJ:90:ASP:OD2	4:FJ:137:ARG:NE	2.28	0.62
1:AK:551:ILE:HD11	2:BK:29:LEU:HD11	1.81	0.62
2:BL:197:ARG:HA	2:BL:232:GLU:HG2	1.80	0.62
2:BM:122:ILE:HG22	2:BM:130:ILE:HG12	1.81	0.62
3:CR:294:ALA:HB3	3:CR:302:LEU:HG	1.81	0.62
2:BU:298:LEU:HD11	2:BV:329:THR:HB	1.80	0.62
3:CU:273:SER:OG	4:DU:58:MET:O	2.13	0.62
2:B2:154:ARG:HD3	2:B3:206:MET:HE1	1.81	0.62
2:B3:298:LEU:HD11	2:B4:329:THR:HB	1.81	0.62
2:B6:298:LEU:HD11	2:B7:329:THR:HB	1.80	0.62
2:B9:298:LEU:HD11	2:BA:329:THR:HB	1.80	0.62
3:CA:255:GLN:HB3	4:DA:76:LYS:HG3	1.80	0.62
4:FA:90:ASP:OD2	4:FA:137:ARG:NE	2.30	0.62
3:CB:302:LEU:HB3	3:CB:320:LEU:HD23	1.81	0.62
2:BF:127:PRO:HA	2:BF:130:ILE:HD12	1.81	0.62
4:EK:73:MET:HE1	4:EK:78:LEU:HD23	1.81	0.62
4:EM:73:MET:SD	4:EM:77:GLU:HG2	2.39	0.62
3:CO:154:ILE:HA	3:CO:157:MET:HE3	1.80	0.62
4:FQ:132:MET:HE1	4:FQ:135:LEU:HD22	1.80	0.62
2:BS:139:ARG:NE	2:BT:202:ILE:HA	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:294:ALA:HB3	3:C2:302:LEU:HG	1.81	0.62
1:A3:519:GLN:HB2	1:A3:522:ARG:HH21	1.64	0.62
1:A6:560:GLU:N	1:A6:560:GLU:OE2	2.32	0.62
2:B6:297:ARG:NH2	2:B7:243:ASP:OD2	2.32	0.62
4:F6:70:ARG:NH1	4:F6:98:ASP:OD2	2.32	0.62
2:B9:122:ILE:HG22	2:B9:130:ILE:HG12	1.81	0.62
3:CF:153:VAL:HG12	3:CF:157:MET:HE2	1.80	0.62
4:FF:70:ARG:NH1	4:FF:98:ASP:OD2	2.32	0.62
2:BL:297:ARG:NH2	2:BM:243:ASP:OD2	2.32	0.62
3:CQ:294:ALA:HB3	3:CQ:302:LEU:HG	1.81	0.62
3:CQ:297:ASP:OD2	4:ER:72:ARG:NH2	2.32	0.62
2:BV:122:ILE:HG22	2:BV:130:ILE:HG12	1.81	0.62
2:B3:9:LYS:HA	2:B3:12:ILE:HD12	1.79	0.62
2:B5:9:LYS:HA	2:B5:12:ILE:HD12	1.81	0.62
3:C5:294:ALA:HB3	3:C5:302:LEU:HG	1.80	0.62
3:C9:294:ALA:HB3	3:C9:302:LEU:HG	1.80	0.62
2:BA:127:PRO:HA	2:BA:130:ILE:HD12	1.82	0.62
2:BA:298:LEU:HD11	2:BB:329:THR:HB	1.80	0.62
2:BC:197:ARG:HA	2:BC:232:GLU:HG2	1.81	0.62
2:BE:197:ARG:HA	2:BE:232:GLU:HG2	1.80	0.62
3:CE:296:VAL:HB	4:FF:60:ILE:HD11	1.79	0.62
4:FM:132:MET:HE1	4:FM:135:LEU:HD22	1.81	0.62
3:CP:255:GLN:HB3	4:DP:76:LYS:HG3	1.80	0.62
2:BR:46:GLN:NE2	2:BS:68:ALA:O	2.32	0.62
3:CR:56:ILE:HD11	3:CS:188:PHE:HD1	1.64	0.62
2:BS:139:ARG:HH22	2:BT:205:LEU:N	1.96	0.62
4:ES:73:MET:HE1	4:ES:78:LEU:HD23	1.79	0.62
3:CT:233:ASN:C	3:CT:235:PRO:HD3	2.25	0.62
3:CU:300:PRO:HB2	3:CU:321:ILE:HG13	1.81	0.62
2:BV:127:PRO:HA	2:BV:130:ILE:HD12	1.82	0.62
3:CV:233:ASN:C	3:CV:235:PRO:HD3	2.25	0.62
4:EV:97:LEU:N	4:EV:109:GLY:O	2.29	0.62
4:EX:73:MET:HE1	4:EX:78:LEU:HD23	1.81	0.62
1:A1:534:GLN:HG3	1:A1:537:ARG:HH21	1.65	0.62
4:F1:132:MET:HE3	4:F1:136:SER:HB3	1.82	0.62
3:C3:294:ALA:HB3	3:C3:302:LEU:HG	1.81	0.62
3:C4:300:PRO:HB2	3:C4:321:ILE:HG13	1.81	0.62
3:C7:316:ARG:HB3	4:D7:86:VAL:HG22	1.82	0.62
3:C8:255:GLN:HB3	4:D8:76:LYS:HG3	1.80	0.62
3:C9:255:GLN:HB3	4:D9:76:LYS:HG3	1.80	0.62
3:C9:273:SER:OG	4:D9:58:MET:O	2.12	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:130:GLU:HA	4:EA:133:ARG:HE	1.65	0.62
3:CD:255:GLN:HB3	4:DD:76:LYS:HG3	1.80	0.62
4:ED:58:MET:HG2	4:FD:76:LYS:NZ	2.15	0.62
2:BF:298:LEU:HD11	2:BG:329:THR:HB	1.80	0.62
3:CG:123:VAL:HG22	3:CG:157:MET:HE1	1.81	0.62
2:BH:298:LEU:HD11	2:BI:329:THR:HB	1.80	0.62
4:FH:90:ASP:OD2	4:FH:137:ARG:NE	2.29	0.62
3:CK:300:PRO:HB2	3:CK:321:ILE:HG13	1.82	0.62
2:BP:122:ILE:HG22	2:BP:130:ILE:HG12	1.81	0.62
3:CP:294:ALA:HB3	3:CP:302:LEU:HG	1.82	0.62
3:CR:233:ASN:C	3:CR:235:PRO:HD3	2.25	0.62
3:CW:294:ALA:HB3	3:CW:302:LEU:HG	1.82	0.62
3:CX:258:GLU:O	4:FY:102:ASN:ND2	2.32	0.62
2:B6:41:MET:HA	2:B6:44:VAL:HB	1.81	0.62
4:F7:70:ARG:NH1	4:F7:98:ASP:OD2	2.33	0.62
2:B8:127:PRO:HA	2:B8:130:ILE:HD12	1.82	0.62
3:C8:273:SER:OG	4:D8:58:MET:O	2.12	0.62
3:CE:282:ASP:HB2	4:DE:122:ILE:HD12	1.81	0.62
4:FF:132:MET:HE3	4:FF:132:MET:O	1.99	0.62
3:CG:255:GLN:HB3	4:DG:76:LYS:HG3	1.80	0.62
3:CL:294:ALA:HB3	3:CL:302:LEU:HG	1.82	0.62
2:BM:298:LEU:HD11	2:BN:329:THR:HB	1.80	0.62
2:BN:298:LEU:HD11	2:BO:329:THR:HB	1.81	0.62
3:CO:258:GLU:O	4:FP:102:ASN:ND2	2.31	0.62
3:CU:233:ASN:C	3:CU:235:PRO:HD3	2.25	0.62
3:CV:258:GLU:O	4:FW:102:ASN:ND2	2.29	0.62
3:CX:233:ASN:C	3:CX:235:PRO:HD3	2.25	0.62
3:CY:282:ASP:HB2	4:DY:122:ILE:HD12	1.81	0.62
2:B5:207:LYS:HE3	2:B5:209:GLN:H	1.64	0.62
3:C5:300:PRO:HB2	3:C5:321:ILE:HG13	1.80	0.62
3:C6:255:GLN:HB3	4:D6:76:LYS:HG3	1.80	0.62
4:EA:73:MET:HE1	4:EA:78:LEU:HD23	1.82	0.62
3:CB:255:GLN:HB3	4:DB:76:LYS:HG3	1.82	0.62
2:BD:229:ILE:O	2:BD:233:MET:HG2	1.98	0.62
4:FE:90:ASP:OD2	4:FE:137:ARG:NE	2.29	0.62
3:CF:316:ARG:HB3	4:DF:86:VAL:HG22	1.82	0.62
4:FG:70:ARG:NH1	4:FG:98:ASP:OD2	2.32	0.62
2:BH:201:GLU:HA	2:BH:204:ASN:HD22	1.64	0.62
4:EI:107:ALA:HB2	4:EI:125:ILE:HD12	1.79	0.62
3:CL:255:GLN:HB3	4:DL:76:LYS:HG3	1.80	0.62
2:BM:127:PRO:HA	2:BM:130:ILE:HD12	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:316:ARG:HB3	4:DO:86:VAL:HG22	1.82	0.62
3:CS:233:ASN:C	3:CS:235:PRO:HD3	2.25	0.62
3:CW:233:ASN:C	3:CW:235:PRO:HD3	2.25	0.62
3:CW:253:GLN:OE1	4:FX:131:ARG:NH2	2.32	0.62
3:CX:294:ALA:HB3	3:CX:302:LEU:HG	1.82	0.62
3:C1:233:ASN:C	3:C1:235:PRO:HD3	2.25	0.62
3:C3:253:GLN:NE2	4:F4:126:ILE:O	2.33	0.62
2:B4:68:ALA:O	2:B4:70:ASN:ND2	2.33	0.62
2:B6:122:ILE:HG22	2:B6:130:ILE:HG12	1.81	0.62
3:C6:302:LEU:HB3	3:C6:320:LEU:HD23	1.82	0.62
1:A9:519:GLN:HB2	1:A9:522:ARG:HH21	1.65	0.62
2:BC:14:LEU:HD13	2:BC:17:ILE:HD11	1.81	0.62
2:BC:298:LEU:HD11	2:BD:329:THR:HB	1.80	0.62
2:BD:122:ILE:HG22	2:BD:130:ILE:HG12	1.81	0.62
2:BD:298:LEU:HD11	2:BE:329:THR:HB	1.80	0.62
3:CF:258:GLU:O	4:FG:102:ASN:ND2	2.29	0.62
2:BJ:297:ARG:NH2	2:BK:243:ASP:OD2	2.33	0.62
2:BL:229:ILE:O	2:BL:233:MET:HG2	2.00	0.62
3:CM:316:ARG:HB3	4:DM:86:VAL:HG22	1.82	0.62
3:CN:316:ARG:HB3	4:DN:86:VAL:HG22	1.82	0.62
3:CO:294:ALA:HB3	3:CO:302:LEU:HG	1.82	0.62
3:CS:258:GLU:O	4:FT:102:ASN:ND2	2.30	0.62
2:BU:229:ILE:O	2:BU:233:MET:HG2	1.99	0.62
2:BV:297:ARG:NH2	2:BW:243:ASP:OD2	2.33	0.62
3:CV:300:PRO:HB2	3:CV:321:ILE:HG13	1.82	0.62
2:BX:43:ASN:O	2:BX:45:ARG:NH1	2.33	0.62
2:BX:127:PRO:HA	2:BX:130:ILE:HD12	1.81	0.62
3:C2:233:ASN:C	3:C2:235:PRO:HD3	2.25	0.62
2:B3:297:ARG:NH2	2:B4:243:ASP:OD2	2.33	0.62
3:C4:294:ALA:HB3	3:C4:302:LEU:HG	1.81	0.62
2:B5:127:PRO:HA	2:B5:130:ILE:HD12	1.82	0.62
3:C5:255:GLN:HB3	4:D5:76:LYS:HG3	1.82	0.62
3:C6:294:ALA:HB3	3:C6:302:LEU:HG	1.81	0.62
2:B8:298:LEU:HD11	2:B9:329:THR:HB	1.80	0.62
1:AA:519:GLN:HB2	1:AA:522:ARG:HH21	1.65	0.62
2:BE:298:LEU:HD11	2:BF:329:THR:HB	1.80	0.62
2:BF:297:ARG:NH2	2:BG:243:ASP:OD2	2.33	0.62
3:CF:233:ASN:C	3:CF:235:PRO:HD3	2.25	0.62
4:FG:127:THR:HG23	4:FG:130:GLU:H	1.65	0.62
2:BH:127:PRO:HA	2:BH:130:ILE:HD12	1.82	0.62
3:CH:316:ARG:HB3	4:DH:86:VAL:HG22	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:316:ARG:HB3	4:DJ:86:VAL:HG22	1.82	0.62
3:CL:316:ARG:HB3	4:DL:86:VAL:HG22	1.82	0.62
2:BQ:127:PRO:HA	2:BQ:130:ILE:HD12	1.82	0.62
2:BQ:297:ARG:NH1	2:BR:329:THR:O	2.32	0.62
3:CQ:255:GLN:HB3	4:DQ:76:LYS:HG3	1.81	0.62
2:BU:297:ARG:NH2	2:BV:243:ASP:OD2	2.32	0.62
3:CV:66:ARG:NE	3:CV:77:PRO:O	2.33	0.62
4:FV:126:ILE:HD11	4:FV:131:ARG:HH21	1.64	0.62
2:B2:139:ARG:HD2	2:B3:202:ILE:HA	1.82	0.62
3:C2:316:ARG:HB3	4:D2:86:VAL:HG22	1.82	0.62
3:C3:255:GLN:HB3	4:D3:76:LYS:HG3	1.80	0.62
4:F6:90:ASP:OD2	4:F6:137:ARG:NE	2.31	0.62
3:C8:294:ALA:HB3	3:C8:302:LEU:HG	1.81	0.62
2:BA:218:VAL:HG11	2:BA:229:ILE:HD12	1.82	0.62
3:CA:233:ASN:C	3:CA:235:PRO:HD3	2.24	0.62
2:BB:97:ILE:O	2:BB:101:ARG:NH1	2.33	0.62
2:BB:298:LEU:HD11	2:BC:329:THR:HB	1.81	0.62
1:AD:519:GLN:HB2	1:AD:522:ARG:HH21	1.65	0.62
2:BF:122:ILE:HG22	2:BF:130:ILE:HG12	1.81	0.62
2:BG:127:PRO:HA	2:BG:130:ILE:HD12	1.82	0.62
3:CG:233:ASN:C	3:CG:235:PRO:HD3	2.25	0.62
3:CH:294:ALA:HB3	3:CH:302:LEU:HG	1.82	0.62
3:CI:255:GLN:HB3	4:DI:76:LYS:HG3	1.80	0.62
3:CQ:316:ARG:HB3	4:DQ:86:VAL:HG22	1.82	0.62
1:AV:519:GLN:HB2	1:AV:522:ARG:HH21	1.64	0.62
2:BV:298:LEU:HD11	2:BW:329:THR:HB	1.81	0.62
3:CW:316:ARG:HB3	4:DW:86:VAL:HG22	1.82	0.62
2:B1:127:PRO:HA	2:B1:130:ILE:HD12	1.82	0.61
2:B2:298:LEU:HD11	2:B3:329:THR:HB	1.80	0.61
3:C2:253:GLN:OE1	4:F3:131:ARG:NH2	2.33	0.61
1:A5:519:GLN:HB2	1:A5:522:ARG:HH21	1.65	0.61
2:B7:46:GLN:NE2	2:B8:68:ALA:O	2.33	0.61
2:B7:298:LEU:HD11	2:B8:329:THR:HB	1.80	0.61
1:A8:519:GLN:HB2	1:A8:522:ARG:HH21	1.65	0.61
2:B8:297:ARG:NH2	2:B9:243:ASP:OD2	2.33	0.61
4:F8:90:ASP:OD2	4:F8:137:ARG:NE	2.31	0.61
3:CA:316:ARG:HB3	4:DA:86:VAL:HG22	1.82	0.61
1:AB:519:GLN:HB2	1:AB:522:ARG:HH21	1.65	0.61
3:CD:300:PRO:HB2	3:CD:321:ILE:HG13	1.82	0.61
1:AG:519:GLN:HB2	1:AG:522:ARG:HH21	1.65	0.61
2:BG:106:GLY:O	2:BG:109:THR:OG1	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:519:GLN:HB2	1:AH:522:ARG:HH21	1.65	0.61
3:CI:316:ARG:HB3	4:DI:86:VAL:HG22	1.82	0.61
3:CJ:294:ALA:HB3	3:CJ:302:LEU:HG	1.82	0.61
4:EK:107:ALA:HB2	4:EK:125:ILE:HD12	1.81	0.61
3:CM:294:ALA:HB3	3:CM:302:LEU:HG	1.82	0.61
2:BN:297:ARG:NH2	2:BO:243:ASP:OD2	2.32	0.61
3:CP:316:ARG:HB3	4:DP:86:VAL:HG22	1.82	0.61
3:CR:273:SER:OG	4:DR:58:MET:O	2.12	0.61
3:CS:294:ALA:HB3	3:CS:302:LEU:HG	1.82	0.61
1:AT:532:MET:SD	2:BT:56:LEU:HD13	2.40	0.61
3:CT:316:ARG:HB3	4:DT:86:VAL:HG22	1.82	0.61
3:CV:294:ALA:HB3	3:CV:302:LEU:HG	1.82	0.61
2:BW:263:LEU:HD22	2:BW:271:ARG:HG2	1.80	0.61
2:BY:122:ILE:HG22	2:BY:130:ILE:HG12	1.80	0.61
3:C1:316:ARG:HB3	4:D1:86:VAL:HG22	1.82	0.61
3:C3:253:GLN:OE1	4:F4:131:ARG:NH2	2.33	0.61
4:E3:107:ALA:HB2	4:E3:125:ILE:HD12	1.82	0.61
1:A4:519:GLN:HB2	1:A4:522:ARG:HH21	1.65	0.61
3:C4:316:ARG:HB3	4:D4:86:VAL:HG22	1.82	0.61
3:C5:316:ARG:HB3	4:D5:86:VAL:HG22	1.82	0.61
3:C7:294:ALA:HB3	3:C7:302:LEU:HG	1.82	0.61
4:E8:107:ALA:HB2	4:E8:125:ILE:HD12	1.82	0.61
2:BB:69:LEU:HG	2:BB:70:ASN:H	1.63	0.61
2:BD:127:PRO:HA	2:BD:130:ILE:HD12	1.82	0.61
3:CE:316:ARG:HB3	4:DE:86:VAL:HG22	1.82	0.61
3:CF:66:ARG:NE	3:CF:77:PRO:O	2.33	0.61
3:CG:253:GLN:NE2	4:FH:126:ILE:O	2.33	0.61
3:CJ:255:GLN:HB3	4:DJ:76:LYS:HG3	1.81	0.61
4:FJ:127:THR:HG23	4:FJ:130:GLU:H	1.65	0.61
2:BN:122:ILE:HG22	2:BN:130:ILE:HG12	1.82	0.61
4:EQ:68:LEU:HB3	4:FQ:66:VAL:HG13	1.82	0.61
1:AY:551:ILE:HD11	2:BY:29:LEU:HD11	1.81	0.61
4:F4:132:MET:HE1	4:F4:135:LEU:HD22	1.82	0.61
3:C9:316:ARG:HB3	4:D9:86:VAL:HG22	1.82	0.61
2:BA:245:ARG:HH21	2:BA:321:MET:HB3	1.63	0.61
1:AC:519:GLN:HB2	1:AC:522:ARG:HH21	1.65	0.61
1:AI:519:GLN:HB2	1:AI:522:ARG:HH21	1.65	0.61
2:BI:298:LEU:HD11	2:BJ:329:THR:HB	1.81	0.61
2:BJ:41:MET:CE	2:BK:77:LEU:HD22	2.31	0.61
3:CK:294:ALA:HB3	3:CK:302:LEU:HG	1.82	0.61
3:CM:300:PRO:HB2	3:CM:321:ILE:HG13	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:107:ALA:HB2	4:EN:125:ILE:HD12	1.81	0.61
2:BR:122:ILE:HG22	2:BR:130:ILE:HG12	1.82	0.61
3:CT:66:ARG:NE	3:CT:77:PRO:O	2.34	0.61
2:BU:207:LYS:HE3	2:BU:209:GLN:H	1.65	0.61
3:CX:66:ARG:NE	3:CX:77:PRO:O	2.34	0.61
2:BY:14:LEU:HD13	2:BY:17:ILE:HD11	1.81	0.61
2:B1:97:ILE:O	2:B1:101:ARG:NH1	2.34	0.61
2:B1:122:ILE:HG22	2:B1:130:ILE:HG12	1.81	0.61
2:B2:127:PRO:HA	2:B2:130:ILE:HD12	1.82	0.61
2:B4:297:ARG:NH2	2:B5:243:ASP:OD2	2.34	0.61
3:C5:233:ASN:C	3:C5:235:PRO:HD3	2.25	0.61
4:F5:90:ASP:OD2	4:F5:137:ARG:NE	2.31	0.61
1:A6:519:GLN:HB2	1:A6:522:ARG:HH21	1.65	0.61
3:C8:316:ARG:HB3	4:D8:86:VAL:HG22	1.83	0.61
4:EB:73:MET:SD	4:EB:77:GLU:HG2	2.39	0.61
2:BC:297:ARG:NH2	2:BD:243:ASP:OD2	2.33	0.61
4:DD:105:LEU:O	4:DD:131:ARG:NH2	2.33	0.61
2:BH:207:LYS:HE3	2:BH:209:GLN:H	1.64	0.61
2:BH:229:ILE:O	2:BH:233:MET:HG2	2.00	0.61
2:BI:197:ARG:HA	2:BI:232:GLU:HG2	1.82	0.61
2:BJ:154:ARG:HD3	2:BK:206:MET:HE1	1.81	0.61
2:BJ:229:ILE:O	2:BJ:233:MET:HG2	2.00	0.61
2:BJ:298:LEU:HD11	2:BK:329:THR:HB	1.81	0.61
4:FL:126:ILE:HD11	4:FL:131:ARG:HH21	1.65	0.61
2:BN:218:VAL:HG11	2:BN:229:ILE:HD12	1.82	0.61
2:BP:46:GLN:NE2	2:BQ:68:ALA:O	2.34	0.61
4:DP:105:LEU:HB3	4:DP:126:ILE:HG21	1.83	0.61
3:CR:253:GLN:OE1	4:FS:131:ARG:NH2	2.33	0.61
3:CR:316:ARG:HB3	4:DR:86:VAL:HG22	1.82	0.61
3:CY:233:ASN:C	3:CY:235:PRO:HD3	2.25	0.61
2:B1:243:ASP:OD2	2:BY:297:ARG:NH2	2.33	0.61
2:B5:297:ARG:NH2	2:B6:243:ASP:OD2	2.34	0.61
4:E5:107:ALA:HB2	4:E5:125:ILE:HD12	1.82	0.61
3:C6:233:ASN:C	3:C6:235:PRO:HD3	2.25	0.61
2:B7:122:ILE:HG22	2:B7:130:ILE:HG12	1.81	0.61
3:C7:233:ASN:C	3:C7:235:PRO:HD3	2.25	0.61
4:F7:90:ASP:OD2	4:F7:137:ARG:NE	2.31	0.61
3:C8:233:ASN:C	3:C8:235:PRO:HD3	2.25	0.61
2:B9:197:ARG:HA	2:B9:232:GLU:HG2	1.82	0.61
3:C9:233:ASN:C	3:C9:235:PRO:HD3	2.25	0.61
2:BB:245:ARG:HH21	2:BB:321:MET:HB3	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:233:ASN:C	3:CB:235:PRO:HD3	2.25	0.61
2:BC:201:GLU:HA	2:BC:204:ASN:HD22	1.66	0.61
3:CD:66:ARG:NE	3:CD:77:PRO:O	2.34	0.61
3:CG:316:ARG:HB3	4:DG:86:VAL:HG22	1.82	0.61
3:CH:253:GLN:OE1	4:FI:131:ARG:NH2	2.34	0.61
1:AI:551:ILE:HD11	2:BI:29:LEU:HD11	1.82	0.61
2:BL:106:GLY:O	2:BL:109:THR:OG1	2.16	0.61
2:BL:122:ILE:HG22	2:BL:130:ILE:HG12	1.82	0.61
2:BM:46:GLN:NE2	2:BN:68:ALA:O	2.27	0.61
3:CN:233:ASN:C	3:CN:235:PRO:HD3	2.25	0.61
3:CO:233:ASN:C	3:CO:235:PRO:HD3	2.25	0.61
2:BP:246:SER:OG	2:BP:321:MET:HG3	2.00	0.61
3:CP:233:ASN:C	3:CP:235:PRO:HD3	2.25	0.61
3:CQ:233:ASN:C	3:CQ:235:PRO:HD3	2.25	0.61
3:CS:316:ARG:HB3	4:DS:86:VAL:HG22	1.83	0.61
3:CT:294:ALA:HB3	3:CT:302:LEU:HG	1.82	0.61
3:CU:66:ARG:NE	3:CU:77:PRO:O	2.34	0.61
4:DY:131:ARG:NH1	4:EY:59:ASP:OD2	2.33	0.61
3:C1:294:ALA:HB3	3:C1:302:LEU:HG	1.82	0.61
3:C3:316:ARG:HB3	4:D3:86:VAL:HG22	1.82	0.61
3:C4:233:ASN:C	3:C4:235:PRO:HD3	2.25	0.61
4:D7:105:LEU:HB3	4:D7:126:ILE:HG21	1.80	0.61
4:FB:90:ASP:OD2	4:FB:137:ARG:NE	2.31	0.61
1:AK:519:GLN:HB2	1:AK:522:ARG:HH21	1.65	0.61
2:BK:201:GLU:HA	2:BK:204:ASN:HD22	1.64	0.61
1:AL:519:GLN:HB2	1:AL:522:ARG:HH21	1.65	0.61
3:CL:233:ASN:C	3:CL:235:PRO:HD3	2.25	0.61
3:CN:66:ARG:NE	3:CN:77:PRO:O	2.33	0.61
4:FP:90:ASP:OD2	4:FP:137:ARG:NE	2.28	0.61
4:ER:68:LEU:HB3	4:FR:66:VAL:HG13	1.82	0.61
2:BS:297:ARG:NH2	2:BT:243:ASP:OD2	2.33	0.61
3:CU:258:GLU:O	4:FV:102:ASN:ND2	2.32	0.61
3:CU:316:ARG:HB3	4:DU:86:VAL:HG22	1.82	0.61
3:CV:316:ARG:HB3	4:DV:86:VAL:HG22	1.82	0.61
2:BW:297:ARG:NH2	2:BX:243:ASP:OD2	2.33	0.61
4:EW:107:ALA:HB2	4:EW:125:ILE:HD12	1.81	0.61
3:CX:316:ARG:HB3	4:DX:86:VAL:HG22	1.82	0.61
4:FX:132:MET:HE1	4:FX:135:LEU:HD22	1.83	0.61
1:AY:519:GLN:HB2	1:AY:522:ARG:HH21	1.64	0.61
1:A2:519:GLN:HB2	1:A2:522:ARG:HH21	1.65	0.61
3:C4:253:GLN:OE1	4:F5:131:ARG:NH2	2.34	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:548:ALA:HA	2:B6:25:VAL:HG13	1.82	0.61
2:B6:197:ARG:HA	2:B6:232:GLU:HG2	1.80	0.61
4:E8:68:LEU:HB3	4:F8:66:VAL:HG13	1.82	0.61
2:BB:229:ILE:O	2:BB:233:MET:HG2	1.98	0.61
3:CC:233:ASN:C	3:CC:235:PRO:HD3	2.25	0.61
3:CC:255:GLN:HB3	4:DC:76:LYS:HG3	1.80	0.61
3:CE:66:ARG:NE	3:CE:77:PRO:O	2.34	0.61
3:CE:233:ASN:C	3:CE:235:PRO:HD3	2.25	0.61
3:CF:294:ALA:HB3	3:CF:302:LEU:HG	1.82	0.61
4:FF:100:LEU:HA	4:FF:105:LEU:HA	1.83	0.61
3:CH:233:ASN:C	3:CH:235:PRO:HD3	2.25	0.61
2:BI:229:ILE:O	2:BI:233:MET:HG2	2.01	0.61
3:CI:238:ASN:HD22	3:CJ:112:GLY:HA2	1.66	0.61
3:CJ:300:PRO:HB2	3:CJ:321:ILE:HG13	1.83	0.61
3:CK:316:ARG:HB3	4:DK:86:VAL:HG22	1.82	0.61
3:CN:294:ALA:HB3	3:CN:302:LEU:HG	1.83	0.61
4:FN:90:ASP:OD2	4:FN:137:ARG:NE	2.29	0.61
3:CO:297:ASP:OD2	4:EP:72:ARG:NH2	2.34	0.61
4:FS:70:ARG:NH1	4:FS:98:ASP:OD2	2.34	0.61
4:EU:68:LEU:HB3	4:FU:66:VAL:HG13	1.83	0.61
3:CY:316:ARG:HB3	4:DY:86:VAL:HG22	1.83	0.61
1:A1:519:GLN:HB2	1:A1:522:ARG:HH21	1.65	0.61
2:B4:46:GLN:NE2	2:B5:68:ALA:O	2.23	0.61
2:B5:97:ILE:O	2:B5:100:THR:OG1	2.18	0.61
3:CA:253:GLN:OE1	4:FB:131:ARG:NH2	2.34	0.61
3:CC:238:ASN:HD22	3:CD:112:GLY:HA2	1.66	0.61
4:EE:68:LEU:HB3	4:FE:66:VAL:HG13	1.82	0.61
4:FE:127:THR:HG23	4:FE:130:GLU:H	1.66	0.61
3:CG:294:ALA:HB3	3:CG:302:LEU:HG	1.82	0.61
1:AJ:519:GLN:HB2	1:AJ:522:ARG:HH21	1.65	0.61
3:CJ:233:ASN:C	3:CJ:235:PRO:HD3	2.25	0.61
3:CK:233:ASN:C	3:CK:235:PRO:HD3	2.25	0.61
4:EN:68:LEU:HB3	4:FN:66:VAL:HG13	1.82	0.61
4:EO:68:LEU:HB3	4:FO:66:VAL:HG13	1.83	0.61
2:BR:127:PRO:HA	2:BR:130:ILE:HD12	1.83	0.61
4:FT:90:ASP:OD2	4:FT:137:ARG:NE	2.28	0.61
4:F3:132:MET:HE1	4:F3:135:LEU:HD22	1.83	0.61
3:C5:66:ARG:NE	3:C5:77:PRO:O	2.33	0.61
3:C6:316:ARG:HB3	4:D6:86:VAL:HG22	1.83	0.61
2:B8:158:MET:HE3	2:B9:214:VAL:CG1	2.30	0.61
2:BB:42:ALA:HB2	2:BC:97:ILE:HG23	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:273:SER:OG	4:DC:58:MET:O	2.11	0.61
2:BD:46:GLN:HB2	1:AE:549:LEU:HD13	1.83	0.61
3:CD:316:ARG:HB3	4:DD:86:VAL:HG22	1.82	0.61
2:BE:158:MET:HE3	2:BF:214:VAL:CG1	2.30	0.61
3:CE:302:LEU:HB3	3:CE:320:LEU:HD23	1.83	0.61
3:CG:238:ASN:HD22	3:CH:112:GLY:HA2	1.66	0.61
2:BH:297:ARG:NH2	2:BI:243:ASP:OD2	2.34	0.61
4:DK:105:LEU:HB3	4:DK:126:ILE:HG21	1.83	0.61
3:CL:66:ARG:NE	3:CL:77:PRO:O	2.33	0.61
1:AR:551:ILE:HD11	2:BR:29:LEU:HD11	1.82	0.61
4:DT:105:LEU:HB3	4:DT:126:ILE:HG21	1.81	0.61
4:FV:70:ARG:NH1	4:FV:98:ASP:OD2	2.34	0.61
2:BX:68:ALA:O	2:BX:70:ASN:ND2	2.33	0.61
2:BY:127:PRO:HA	2:BY:130:ILE:HD12	1.83	0.61
2:BA:122:ILE:HG22	2:BA:130:ILE:HG12	1.82	0.61
3:CB:299:VAL:HA	4:FB:132:MET:HE3	1.82	0.61
3:CB:316:ARG:HB3	4:DB:86:VAL:HG22	1.83	0.61
1:AE:519:GLN:HB2	1:AE:522:ARG:HH21	1.65	0.61
3:CE:294:ALA:HB3	3:CE:302:LEU:HG	1.83	0.61
2:BG:218:VAL:HG11	2:BG:229:ILE:HD12	1.82	0.61
3:CG:66:ARG:NE	3:CG:77:PRO:O	2.34	0.61
2:BK:106:GLY:O	2:BK:109:THR:OG1	2.16	0.61
3:CP:253:GLN:OE1	4:FQ:131:ARG:NH2	2.33	0.61
3:CQ:300:PRO:HB2	3:CQ:321:ILE:HG13	1.82	0.61
2:BS:69:LEU:HG	2:BS:70:ASN:H	1.64	0.61
3:CT:273:SER:OG	4:DT:58:MET:O	2.11	0.61
4:FW:132:MET:HE1	4:FW:135:LEU:HD22	1.83	0.61
2:B1:67:ALA:HA	2:BY:46:GLN:HE22	1.66	0.60
3:C3:233:ASN:C	3:C3:235:PRO:HD3	2.25	0.60
3:C7:66:ARG:NE	3:C7:77:PRO:O	2.33	0.60
3:CA:294:ALA:HB3	3:CA:302:LEU:HG	1.82	0.60
3:CC:66:ARG:NE	3:CC:77:PRO:O	2.34	0.60
3:CC:316:ARG:HB3	4:DC:86:VAL:HG22	1.83	0.60
3:CD:294:ALA:HB3	3:CD:302:LEU:HG	1.82	0.60
4:FD:127:THR:HG23	4:FD:130:GLU:H	1.65	0.60
2:BI:106:GLY:O	2:BI:109:THR:OG1	2.17	0.60
2:BJ:149:PHE:O	2:BJ:154:ARG:NH2	2.34	0.60
2:BL:14:LEU:HD13	2:BL:17:ILE:HD11	1.82	0.60
2:BQ:149:PHE:O	2:BQ:154:ARG:NH2	2.34	0.60
2:BR:245:ARG:HH21	2:BR:321:MET:HB3	1.65	0.60
3:CR:66:ARG:NE	3:CR:77:PRO:O	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ET:107:ALA:HB2	4:ET:125:ILE:HD12	1.81	0.60
4:FT:104:TYR:OH	4:FT:131:ARG:NH1	2.33	0.60
2:BU:111:ASN:HD21	2:BU:138:LYS:HB2	1.66	0.60
2:BV:201:GLU:HA	2:BV:204:ASN:HD22	1.66	0.60
3:CW:66:ARG:NE	3:CW:77:PRO:O	2.34	0.60
4:FY:90:ASP:OD2	4:FY:137:ARG:NE	2.30	0.60
4:F2:132:MET:HE1	4:F2:135:LEU:HD22	1.83	0.60
3:C6:66:ARG:NE	3:C6:77:PRO:O	2.34	0.60
4:F9:90:ASP:OD2	4:F9:137:ARG:NE	2.32	0.60
2:BD:298:LEU:O	2:BD:302:GLU:HG2	2.01	0.60
3:CH:300:PRO:HB2	3:CH:321:ILE:HG13	1.83	0.60
4:FH:70:ARG:NH1	4:FH:98:ASP:OD2	2.34	0.60
3:CI:154:ILE:HA	3:CI:157:MET:HE3	1.83	0.60
4:DI:105:LEU:HB3	4:DI:126:ILE:HG21	1.83	0.60
4:EM:68:LEU:HB3	4:FM:66:VAL:HG13	1.82	0.60
4:FM:127:THR:HG23	4:FM:130:GLU:H	1.66	0.60
1:AN:519:GLN:HB2	1:AN:522:ARG:HH21	1.65	0.60
2:BN:68:ALA:O	2:BN:70:ASN:ND2	2.34	0.60
1:AQ:519:GLN:HB2	1:AQ:522:ARG:HH21	1.64	0.60
3:CV:253:GLN:OE1	4:FW:131:ARG:NH2	2.33	0.60
3:C1:154:ILE:HA	3:C1:157:MET:HE3	1.84	0.60
2:B4:218:VAL:HG11	2:B4:229:ILE:HD12	1.82	0.60
3:C8:302:LEU:HB3	3:C8:320:LEU:HD23	1.83	0.60
2:BC:298:LEU:O	2:BC:302:GLU:HG2	2.02	0.60
3:CF:300:PRO:HB2	3:CF:321:ILE:HG13	1.84	0.60
3:CI:233:ASN:C	3:CI:235:PRO:HD3	2.25	0.60
3:CM:66:ARG:NE	3:CM:77:PRO:O	2.34	0.60
3:CM:123:VAL:HG22	3:CM:157:MET:HE1	1.83	0.60
4:FM:90:ASP:OD2	4:FM:137:ARG:NE	2.29	0.60
2:BQ:122:ILE:HG22	2:BQ:130:ILE:HG12	1.82	0.60
4:EQ:107:ALA:HB2	4:EQ:125:ILE:HD12	1.81	0.60
2:BR:38:SER:HB3	2:BS:97:ILE:HD11	1.83	0.60
2:BR:46:GLN:HE22	2:BS:69:LEU:HB3	1.66	0.60
4:ES:68:LEU:HB3	4:FS:66:VAL:HG13	1.82	0.60
2:BT:298:LEU:O	2:BT:302:GLU:HG2	2.02	0.60
3:CT:258:GLU:O	4:FU:102:ASN:ND2	2.32	0.60
2:BV:97:ILE:O	2:BV:100:THR:OG1	2.19	0.60
4:EW:68:LEU:HB3	4:FW:66:VAL:HG13	1.83	0.60
4:F1:131:ARG:NH2	3:CY:253:GLN:OE1	2.34	0.60
3:C3:302:LEU:HB3	3:C3:320:LEU:HD23	1.83	0.60
2:B5:122:ILE:HG22	2:B5:130:ILE:HG12	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:123:VAL:HG22	3:C5:157:MET:HE1	1.83	0.60
2:B8:298:LEU:O	2:B8:302:GLU:HG2	2.02	0.60
3:C8:66:ARG:NE	3:C8:77:PRO:O	2.34	0.60
2:B9:127:PRO:HA	2:B9:130:ILE:HD12	1.83	0.60
3:CB:273:SER:OG	4:DB:58:MET:O	2.12	0.60
2:BF:106:GLY:O	2:BF:109:THR:OG1	2.17	0.60
3:CF:255:GLN:HB3	4:DF:76:LYS:HG3	1.82	0.60
4:EF:107:ALA:HB2	4:EF:125:ILE:HD12	1.82	0.60
3:CG:102:LEU:HD22	3:CG:115:LEU:HD21	1.84	0.60
2:BI:298:LEU:O	2:BI:302:GLU:HG2	2.02	0.60
3:CI:273:SER:OG	4:DI:58:MET:O	2.12	0.60
2:BJ:52:LEU:HD13	2:BK:69:LEU:HD21	1.83	0.60
3:CM:233:ASN:C	3:CM:235:PRO:HD3	2.25	0.60
2:BN:106:GLY:O	2:BN:109:THR:OG1	2.16	0.60
4:EO:64:LEU:HB3	4:FO:71:THR:HB	1.83	0.60
3:CP:66:ARG:NE	3:CP:77:PRO:O	2.34	0.60
4:FR:70:ARG:NH1	4:FR:98:ASP:OD2	2.34	0.60
2:BS:46:GLN:NE2	2:BT:68:ALA:O	2.33	0.60
2:BS:298:LEU:O	2:BS:302:GLU:HG2	2.02	0.60
2:BU:14:LEU:HD13	2:BU:17:ILE:HD11	1.82	0.60
4:FV:127:THR:HG23	4:FV:130:GLU:H	1.66	0.60
2:B4:110:LEU:HD11	2:B4:121:LEU:HD23	1.83	0.60
3:C4:66:ARG:NE	3:C4:77:PRO:O	2.34	0.60
1:A5:551:ILE:HD11	2:B5:29:LEU:HD11	1.83	0.60
4:D6:131:ARG:NH1	4:E6:59:ASP:OD2	2.34	0.60
3:CA:273:SER:OG	4:DA:58:MET:O	2.12	0.60
2:BB:297:ARG:NH2	2:BC:243:ASP:OD2	2.33	0.60
1:AC:551:ILE:HD11	2:BC:29:LEU:HD11	1.84	0.60
1:AD:532:MET:SD	2:BD:56:LEU:HD13	2.42	0.60
3:CD:233:ASN:C	3:CD:235:PRO:HD3	2.25	0.60
4:DE:101:ILE:HD13	4:EE:60:ILE:HD13	1.84	0.60
1:AF:519:GLN:HB2	1:AF:522:ARG:HH21	1.66	0.60
1:AF:551:ILE:HD11	2:BF:29:LEU:HD11	1.84	0.60
4:FK:127:THR:HG23	4:FK:130:GLU:H	1.65	0.60
2:BN:298:LEU:O	2:BN:302:GLU:HG2	2.02	0.60
1:AO:519:GLN:HB2	1:AO:522:ARG:HH21	1.66	0.60
3:CO:66:ARG:NE	3:CO:77:PRO:O	2.34	0.60
2:BP:9:LYS:HA	2:BP:12:ILE:HD12	1.82	0.60
4:DQ:126:ILE:HD13	4:DQ:131:ARG:NH2	2.16	0.60
4:DV:105:LEU:HB3	4:DV:126:ILE:HG21	1.82	0.60
1:AW:519:GLN:HB2	1:AW:522:ARG:HH21	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:197:ARG:HA	2:BX:232:GLU:HG2	1.83	0.60
4:F2:90:ASP:OD2	4:F2:137:ARG:NE	2.31	0.60
2:B5:149:PHE:O	2:B5:154:ARG:NH2	2.35	0.60
3:C8:199:VAL:HG23	3:C8:220:PRO:HA	1.82	0.60
3:C9:299:VAL:HA	4:F9:132:MET:HE2	1.83	0.60
2:BA:297:ARG:NH2	2:BB:243:ASP:OD2	2.35	0.60
2:BD:106:GLY:O	2:BD:109:THR:OG1	2.17	0.60
4:DG:105:LEU:HB3	4:DG:126:ILE:HG21	1.84	0.60
1:AH:534:GLN:HG3	1:AH:537:ARG:HH21	1.67	0.60
3:CH:66:ARG:NE	3:CH:77:PRO:O	2.34	0.60
3:CH:297:ASP:OD2	4:EI:72:ARG:NH2	2.33	0.60
3:CI:258:GLU:O	4:FJ:102:ASN:ND2	2.33	0.60
2:BL:298:LEU:O	2:BL:302:GLU:HG2	2.01	0.60
3:CL:238:ASN:HD22	3:CM:112:GLY:HA2	1.66	0.60
4:FL:127:THR:HG23	4:FL:130:GLU:H	1.66	0.60
1:AM:519:GLN:HB2	1:AM:522:ARG:HH21	1.65	0.60
2:BN:97:ILE:O	2:BN:101:ARG:NH1	2.34	0.60
2:BO:298:LEU:O	2:BO:302:GLU:HG2	2.02	0.60
1:AR:519:GLN:HB2	1:AR:522:ARG:HH21	1.65	0.60
1:AS:519:GLN:HB2	1:AS:522:ARG:HH21	1.66	0.60
2:BT:46:GLN:HE22	2:BU:67:ALA:HA	1.66	0.60
3:CW:258:GLU:O	4:FX:102:ASN:ND2	2.33	0.60
1:A6:534:GLN:HG3	1:A6:537:ARG:HH21	1.67	0.60
4:F7:100:LEU:HA	4:F7:105:LEU:HA	1.83	0.60
1:A8:551:ILE:HD11	2:B8:29:LEU:HD11	1.84	0.60
3:C8:238:ASN:HD22	3:C9:112:GLY:HA2	1.67	0.60
2:BB:122:ILE:HG22	2:BB:130:ILE:HG12	1.82	0.60
2:BC:97:ILE:O	2:BC:100:THR:OG1	2.19	0.60
2:BC:106:GLY:O	2:BC:109:THR:OG1	2.16	0.60
2:BC:122:ILE:HG22	2:BC:130:ILE:HG12	1.83	0.60
3:CE:238:ASN:HD22	3:CF:112:GLY:HA2	1.66	0.60
3:CE:258:GLU:O	4:FF:102:ASN:ND2	2.34	0.60
3:CF:273:SER:OG	4:DF:58:MET:O	2.11	0.60
2:BG:149:PHE:O	2:BG:154:ARG:NH2	2.34	0.60
3:CG:273:SER:OG	4:DG:58:MET:O	2.12	0.60
4:EG:107:ALA:HB2	4:EG:125:ILE:HD12	1.83	0.60
2:BH:106:GLY:O	2:BH:109:THR:OG1	2.17	0.60
2:BH:298:LEU:O	2:BH:302:GLU:HG2	2.02	0.60
2:BJ:106:GLY:N	2:BJ:180:ASN:OD1	2.34	0.60
3:CJ:66:ARG:NE	3:CJ:77:PRO:O	2.34	0.60
3:CK:66:ARG:NE	3:CK:77:PRO:O	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EM:107:ALA:HB2	4:EM:125:ILE:HD12	1.83	0.60
3:CN:253:GLN:OE1	4:FO:131:ARG:NH2	2.34	0.60
4:FO:127:THR:HG23	4:FO:130:GLU:H	1.67	0.60
1:AP:519:GLN:HB2	1:AP:522:ARG:HH21	1.65	0.60
3:CQ:66:ARG:NE	3:CQ:77:PRO:O	2.35	0.60
4:ER:73:MET:SD	4:ER:77:GLU:HG2	2.42	0.60
2:BS:97:ILE:O	2:BS:100:THR:OG1	2.20	0.60
2:BS:149:PHE:O	2:BS:154:ARG:NH2	2.35	0.60
1:AT:519:GLN:HB2	1:AT:522:ARG:HH21	1.65	0.60
3:CT:253:GLN:OE1	4:FU:131:ARG:NH2	2.35	0.60
4:FW:104:TYR:OH	4:FW:131:ARG:NH1	2.35	0.60
2:BY:149:PHE:O	2:BY:154:ARG:NH2	2.35	0.60
2:B2:218:VAL:HG11	2:B2:229:ILE:HD12	1.84	0.60
4:F3:90:ASP:OD2	4:F3:137:ARG:NE	2.32	0.60
2:B7:298:LEU:O	2:B7:302:GLU:HG2	2.02	0.60
4:D8:101:ILE:HD13	4:E8:60:ILE:HD13	1.84	0.60
3:CB:66:ARG:NE	3:CB:77:PRO:O	2.35	0.60
4:EB:68:LEU:HB3	4:FB:66:VAL:HG13	1.81	0.60
4:FC:100:LEU:HA	4:FC:105:LEU:HA	1.82	0.60
3:CG:300:PRO:HB2	3:CG:321:ILE:HG13	1.84	0.60
2:BH:97:ILE:O	2:BH:101:ARG:NH1	2.35	0.60
2:BI:97:ILE:O	2:BI:101:ARG:NH1	2.35	0.60
2:BJ:106:GLY:O	2:BJ:109:THR:OG1	2.16	0.60
4:FJ:126:ILE:HD11	4:FJ:131:ARG:HH21	1.67	0.60
4:FJ:132:MET:O	4:FJ:132:MET:HE3	2.02	0.60
4:FK:90:ASP:OD2	4:FK:137:ARG:NE	2.30	0.60
4:FM:126:ILE:HD11	4:FM:131:ARG:HH21	1.67	0.60
4:DN:105:LEU:HB3	4:DN:126:ILE:HG21	1.83	0.60
4:EP:107:ALA:HB2	4:EP:125:ILE:HD12	1.83	0.60
3:CS:238:ASN:HD22	3:CT:112:GLY:HA2	1.67	0.60
4:ET:68:LEU:HB3	4:FT:66:VAL:HG13	1.83	0.60
1:AU:519:GLN:HB2	1:AU:522:ARG:HH21	1.65	0.60
3:CY:66:ARG:NE	3:CY:77:PRO:O	2.35	0.60
4:FY:132:MET:HE1	4:FY:135:LEU:HD22	1.84	0.60
2:B1:297:ARG:NH2	2:B2:243:ASP:OD2	2.35	0.60
4:F1:90:ASP:OD2	4:F1:137:ARG:NE	2.32	0.60
3:C5:238:ASN:HD22	3:C6:112:GLY:HA2	1.66	0.60
4:FA:70:ARG:NH1	4:FA:98:ASP:OD2	2.35	0.60
3:CB:238:ASN:HD22	3:CC:112:GLY:HA2	1.67	0.60
2:BC:229:ILE:O	2:BC:233:MET:HG2	2.02	0.60
2:BE:46:GLN:NE2	2:BE:47:ILE:O	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FH:127:THR:HG23	4:FH:130:GLU:H	1.67	0.60
2:BM:298:LEU:O	2:BM:302:GLU:HG2	2.02	0.60
4:FO:90:ASP:OD2	4:FO:137:ARG:NE	2.29	0.60
2:BS:110:LEU:HD11	2:BS:121:LEU:HD23	1.84	0.60
3:CS:66:ARG:NE	3:CS:77:PRO:O	2.35	0.60
2:BU:122:ILE:HG22	2:BU:130:ILE:HG12	1.82	0.60
2:BW:4:LEU:HD11	2:BW:47:ILE:HD11	1.82	0.60
2:BX:122:ILE:HG22	2:BX:130:ILE:HG12	1.82	0.60
4:FX:70:ARG:NH1	4:FX:98:ASP:OD2	2.35	0.60
4:FY:70:ARG:NH1	4:FY:98:ASP:OD2	2.35	0.60
3:C3:66:ARG:NE	3:C3:77:PRO:O	2.34	0.60
1:A5:532:MET:SD	2:B5:56:LEU:HD13	2.42	0.60
2:B6:218:VAL:HG11	2:B6:229:ILE:HD12	1.84	0.60
1:A7:519:GLN:HB2	1:A7:522:ARG:HH21	1.65	0.60
3:C9:66:ARG:NE	3:C9:77:PRO:O	2.34	0.60
4:DC:74:THR:N	4:DC:77:GLU:OE2	2.24	0.60
2:BE:298:LEU:O	2:BE:302:GLU:HG2	2.02	0.60
1:AG:551:ILE:HD11	2:BG:29:LEU:HD11	1.82	0.60
4:FK:70:ARG:NH1	4:FK:98:ASP:OD2	2.35	0.60
1:AL:532:MET:SD	2:BL:56:LEU:HD13	2.42	0.60
4:FM:70:ARG:NH1	4:FM:98:ASP:OD2	2.35	0.60
4:DO:105:LEU:O	4:DO:131:ARG:NH2	2.33	0.60
4:EO:107:ALA:HB2	4:EO:125:ILE:HD12	1.83	0.60
2:BT:97:ILE:O	2:BT:100:THR:OG1	2.19	0.60
2:BU:113:MET:O	2:BU:141:GLN:NE2	2.22	0.60
1:AX:519:GLN:HB2	1:AX:522:ARG:HH21	1.65	0.60
2:BX:298:LEU:O	2:BX:302:GLU:HG2	2.02	0.60
3:CX:238:ASN:HD22	3:CY:112:GLY:HA2	1.66	0.60
3:CY:102:LEU:HD22	3:CY:115:LEU:HD21	1.84	0.60
3:C1:66:ARG:NE	3:C1:77:PRO:O	2.35	0.59
2:B3:298:LEU:O	2:B3:302:GLU:HG2	2.02	0.59
4:E3:68:LEU:HB3	4:F3:66:VAL:HG13	1.83	0.59
2:B4:122:ILE:HG22	2:B4:130:ILE:HG12	1.83	0.59
3:C4:102:LEU:HD22	3:C4:115:LEU:HD21	1.84	0.59
3:C5:273:SER:OG	4:D5:58:MET:O	2.12	0.59
3:C5:302:LEU:HB3	3:C5:320:LEU:HD23	1.83	0.59
3:CA:56:ILE:HD11	3:CB:188:PHE:CD1	2.37	0.59
2:BB:298:LEU:O	2:BB:302:GLU:HG2	2.02	0.59
4:EB:131:ARG:HA	4:EB:134:ARG:NH1	2.17	0.59
2:BD:297:ARG:NH2	2:BE:243:ASP:OD2	2.34	0.59
2:BF:298:LEU:O	2:BF:302:GLU:HG2	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:297:ASP:OD2	4:EG:72:ARG:NH2	2.35	0.59
2:BJ:298:LEU:O	2:BJ:302:GLU:HG2	2.02	0.59
4:EL:107:ALA:HB2	4:EL:125:ILE:HD12	1.83	0.59
2:BN:4:LEU:HD11	2:BN:47:ILE:HD11	1.84	0.59
4:FN:70:ARG:NH1	4:FN:98:ASP:OD2	2.35	0.59
2:BR:113:MET:O	2:BR:141:GLN:NE2	2.22	0.59
3:CR:56:ILE:HD11	3:CS:188:PHE:CD1	2.36	0.59
4:FT:127:THR:HG23	4:FT:130:GLU:H	1.67	0.59
3:CV:238:ASN:HD22	3:CW:112:GLY:HA2	1.67	0.59
4:FW:90:ASP:OD2	4:FW:137:ARG:NE	2.30	0.59
2:BX:139:ARG:HD2	2:BY:202:ILE:HA	1.84	0.59
3:CX:102:LEU:HD22	3:CX:115:LEU:HD21	1.84	0.59
4:EY:107:ALA:HB2	4:EY:125:ILE:HD12	1.83	0.59
2:B1:110:LEU:HD11	2:B1:121:LEU:HD23	1.84	0.59
2:B2:149:PHE:O	2:B2:154:ARG:NH2	2.34	0.59
3:C2:66:ARG:NE	3:C2:77:PRO:O	2.34	0.59
2:B3:97:ILE:O	2:B3:100:THR:OG1	2.19	0.59
2:B3:127:PRO:HA	2:B3:130:ILE:HD12	1.85	0.59
2:B4:298:LEU:O	2:B4:302:GLU:HG2	2.02	0.59
1:AA:532:MET:SD	2:BA:56:LEU:HD13	2.43	0.59
2:BB:106:GLY:O	2:BB:109:THR:OG1	2.16	0.59
3:CD:253:GLN:OE1	4:FE:131:ARG:NH2	2.35	0.59
1:AE:532:MET:SD	2:BE:56:LEU:HD13	2.42	0.59
4:FG:100:LEU:HA	4:FG:105:LEU:HA	1.83	0.59
4:EH:68:LEU:HB3	4:FH:66:VAL:HG13	1.83	0.59
3:CJ:253:GLN:NE2	4:FK:126:ILE:O	2.35	0.59
3:CJ:273:SER:OG	4:DJ:58:MET:O	2.15	0.59
3:CL:253:GLN:NE2	4:FM:126:ILE:O	2.35	0.59
3:CO:191:ILE:HG23	3:CO:192:THR:HG23	1.83	0.59
2:BQ:295:PRO:HB2	2:BR:330:TYR:HB3	1.84	0.59
2:BQ:298:LEU:O	2:BQ:302:GLU:HG2	2.02	0.59
2:BS:127:PRO:HA	2:BS:130:ILE:HD12	1.84	0.59
4:FV:90:ASP:OD2	4:FV:137:ARG:NE	2.31	0.59
4:FV:99:ILE:HB	4:FV:107:ALA:HB3	1.83	0.59
2:BW:298:LEU:O	2:BW:302:GLU:HG2	2.02	0.59
2:B1:121:LEU:HB2	3:CY:70:PHE:HZ	1.67	0.59
4:E5:68:LEU:HB3	4:F5:66:VAL:HG13	1.83	0.59
2:B9:298:LEU:O	2:B9:302:GLU:HG2	2.02	0.59
4:EB:75:ILE:HA	4:EB:78:LEU:HG	1.84	0.59
4:EJ:107:ALA:HB2	4:EJ:125:ILE:HD12	1.84	0.59
2:BK:218:VAL:HG11	2:BK:229:ILE:HD12	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:300:PRO:HB2	3:CL:321:ILE:HG13	1.84	0.59
3:CN:296:VAL:HB	4:FO:60:ILE:HD11	1.84	0.59
2:BO:106:GLY:N	2:BO:180:ASN:OD1	2.35	0.59
3:CP:300:PRO:HB2	3:CP:321:ILE:HG13	1.83	0.59
2:BQ:97:ILE:O	2:BQ:100:THR:OG1	2.19	0.59
2:BY:298:LEU:O	2:BY:302:GLU:HG2	2.02	0.59
2:B2:245:ARG:HH21	2:B2:321:MET:HB3	1.65	0.59
4:F2:70:ARG:NH1	4:F2:98:ASP:OD2	2.35	0.59
4:F5:70:ARG:NH1	4:F5:98:ASP:OD2	2.35	0.59
2:B6:298:LEU:O	2:B6:302:GLU:HG2	2.02	0.59
3:C9:258:GLU:O	4:FA:102:ASN:ND2	2.33	0.59
2:BG:46:GLN:NE2	2:BG:47:ILE:O	2.35	0.59
3:CG:253:GLN:OE1	4:FH:131:ARG:NH2	2.35	0.59
4:EK:68:LEU:HB3	4:FK:66:VAL:HG13	1.85	0.59
2:BP:14:LEU:O	2:BQ:76:TYR:OH	2.17	0.59
4:EQ:64:LEU:HB3	4:FQ:71:THR:HB	1.84	0.59
2:BR:298:LEU:O	2:BR:302:GLU:HG2	2.03	0.59
4:ER:107:ALA:HB2	4:ER:125:ILE:HD12	1.83	0.59
2:BS:38:SER:HA	2:BS:41:MET:HE2	1.83	0.59
1:AU:532:MET:SD	2:BU:56:LEU:HD13	2.42	0.59
2:BU:298:LEU:O	2:BU:302:GLU:HG2	2.02	0.59
2:BV:68:ALA:O	2:BV:70:ASN:ND2	2.35	0.59
2:BY:97:ILE:O	2:BY:100:THR:OG1	2.20	0.59
2:B2:97:ILE:O	2:B2:100:THR:OG1	2.19	0.59
2:B4:42:ALA:HB2	2:B5:97:ILE:HG23	1.83	0.59
3:C4:70:PHE:HZ	2:B5:121:LEU:HB2	1.68	0.59
3:C9:253:GLN:OE1	4:FA:131:ARG:NH2	2.36	0.59
4:EB:107:ALA:HB2	4:EB:125:ILE:HD12	1.83	0.59
4:DC:105:LEU:HB3	4:DC:126:ILE:HG21	1.83	0.59
4:EG:68:LEU:HB3	4:FG:66:VAL:HG13	1.84	0.59
4:DI:105:LEU:O	4:DI:131:ARG:NH2	2.33	0.59
1:AJ:548:ALA:HA	2:BJ:25:VAL:HG13	1.85	0.59
2:BK:298:LEU:O	2:BK:302:GLU:HG2	2.02	0.59
4:FL:90:ASP:OD2	4:FL:137:ARG:NE	2.32	0.59
3:CO:70:PHE:HZ	2:BP:121:LEU:HB2	1.67	0.59
2:BQ:106:GLY:O	2:BQ:109:THR:OG1	2.16	0.59
4:FQ:127:THR:HG23	4:FQ:130:GLU:H	1.67	0.59
4:FU:90:ASP:OD2	4:FU:137:ARG:NE	2.30	0.59
4:FU:127:THR:HG23	4:FU:130:GLU:H	1.66	0.59
3:C1:238:ASN:HD22	3:C2:112:GLY:HA2	1.67	0.59
4:F4:90:ASP:OD2	4:F4:137:ARG:NE	2.33	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:9:LYS:HA	2:B7:12:ILE:HD12	1.83	0.59
2:B9:11:VAL:HG13	2:B9:41:MET:HB3	1.85	0.59
3:C9:102:LEU:HD22	3:C9:115:LEU:HD21	1.85	0.59
4:F9:99:ILE:HB	4:F9:107:ALA:HB3	1.84	0.59
2:BA:106:GLY:O	2:BA:109:THR:OG1	2.16	0.59
3:CA:66:ARG:NE	3:CA:77:PRO:O	2.35	0.59
4:ED:107:ALA:HB2	4:ED:125:ILE:HD12	1.84	0.59
4:EG:131:ARG:HA	4:EG:134:ARG:NH1	2.18	0.59
1:AM:532:MET:SD	2:BM:56:LEU:HD13	2.42	0.59
3:CQ:123:VAL:HG22	3:CQ:157:MET:HE1	1.85	0.59
3:CQ:258:GLU:O	4:FR:102:ASN:ND2	2.33	0.59
1:AS:532:MET:SD	2:BS:56:LEU:HD13	2.42	0.59
2:BS:158:MET:SD	2:BT:214:VAL:HG13	2.42	0.59
3:CS:70:PHE:HZ	2:BT:121:LEU:HB2	1.68	0.59
4:ET:121:ARG:NH1	4:FT:85:SER:O	2.32	0.59
3:CU:70:PHE:HZ	2:BV:121:LEU:HB2	1.68	0.59
2:BV:149:PHE:O	2:BV:154:ARG:NH2	2.36	0.59
3:CV:102:LEU:HD22	3:CV:115:LEU:HD21	1.83	0.59
4:EV:68:LEU:HB3	4:FV:66:VAL:HG13	1.85	0.59
3:CX:70:PHE:HZ	2:BY:121:LEU:HB2	1.68	0.59
1:A2:532:MET:SD	2:B2:56:LEU:HD13	2.43	0.59
2:B6:4:LEU:HD11	2:B6:47:ILE:HD11	1.83	0.59
3:C6:256:HIS:HB2	4:F7:104:TYR:CZ	2.38	0.59
4:E6:68:LEU:HB3	4:F6:66:VAL:HG13	1.82	0.59
2:BC:127:PRO:HA	2:BC:130:ILE:HD12	1.85	0.59
3:CD:274:GLN:O	3:CD:278:LEU:HB2	2.03	0.59
3:CE:102:LEU:HD22	3:CE:115:LEU:HD21	1.84	0.59
1:AK:532:MET:SD	2:BK:56:LEU:HD13	2.43	0.59
2:BK:97:ILE:O	2:BK:100:THR:OG1	2.20	0.59
2:BL:149:PHE:O	2:BL:154:ARG:NH2	2.35	0.59
2:BR:113:MET:HE1	2:BR:117:SER:HB2	1.85	0.59
3:CR:238:ASN:HD22	3:CS:112:GLY:HA2	1.66	0.59
2:BT:46:GLN:HG3	2:BU:70:ASN:HD22	1.67	0.59
2:BT:297:ARG:CZ	2:BU:328:ASP:HB3	2.32	0.59
2:BW:97:ILE:O	2:BW:100:THR:OG1	2.20	0.59
3:CW:70:PHE:HZ	2:BX:121:LEU:HB2	1.68	0.59
3:CW:273:SER:OG	4:DW:58:MET:O	2.11	0.59
3:CX:302:LEU:HB3	3:CX:320:LEU:HD23	1.83	0.59
2:B2:298:LEU:O	2:B2:302:GLU:HG2	2.02	0.59
3:C2:70:PHE:HZ	2:B3:121:LEU:HB2	1.68	0.59
4:F3:104:TYR:OH	4:F3:131:ARG:NH1	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E4:107:ALA:HB2	4:E4:125:ILE:HD12	1.83	0.59
1:A9:536:ILE:HA	1:A9:539:MET:HE3	1.85	0.59
1:A9:551:ILE:HD11	2:B9:29:LEU:HD11	1.85	0.59
2:B9:97:ILE:O	2:B9:100:THR:OG1	2.20	0.59
1:AC:534:GLN:HG3	1:AC:537:ARG:HH21	1.68	0.59
3:CC:297:ASP:OD2	4:ED:72:ARG:NH2	2.35	0.59
4:EF:68:LEU:HB3	4:FF:66:VAL:HG13	1.85	0.59
2:BG:298:LEU:O	2:BG:302:GLU:HG2	2.02	0.59
3:CI:66:ARG:NE	3:CI:77:PRO:O	2.35	0.59
3:CI:253:GLN:NE2	4:FJ:126:ILE:O	2.35	0.59
3:CK:253:GLN:NE2	4:FL:126:ILE:O	2.35	0.59
2:BM:68:ALA:O	2:BM:70:ASN:ND2	2.35	0.59
2:BP:106:GLY:N	2:BP:180:ASN:OD1	2.36	0.59
4:DR:131:ARG:NH1	4:ER:59:ASP:OD2	2.35	0.59
4:FR:104:TYR:OH	4:FR:131:ARG:NH1	2.35	0.59
4:FR:127:THR:HG23	4:FR:130:GLU:H	1.68	0.59
1:AV:536:ILE:HD13	1:AV:539:MET:HE3	1.84	0.59
2:BV:298:LEU:O	2:BV:302:GLU:HG2	2.02	0.59
3:CV:274:GLN:O	3:CV:278:LEU:HB2	2.02	0.59
1:AW:532:MET:SD	2:BW:56:LEU:HD13	2.42	0.59
2:BW:218:VAL:HG11	2:BW:229:ILE:HD12	1.83	0.59
3:CW:299:VAL:HA	4:FW:132:MET:HE3	1.83	0.59
1:AX:532:MET:SD	2:BX:56:LEU:HD13	2.42	0.59
4:E2:68:LEU:HB3	4:F2:66:VAL:HG13	1.84	0.59
2:B3:218:VAL:HG11	2:B3:229:ILE:HD12	1.84	0.59
4:F8:132:MET:HE1	4:F8:135:LEU:HD22	1.85	0.59
1:AB:534:GLN:HG3	1:AB:537:ARG:HH21	1.67	0.59
3:CD:102:LEU:HD22	3:CD:115:LEU:HD21	1.85	0.59
4:EE:64:LEU:HB3	4:FE:71:THR:HB	1.84	0.59
4:EE:121:ARG:NH1	4:FE:85:SER:O	2.30	0.59
1:AG:532:MET:SD	2:BG:56:LEU:HD13	2.43	0.59
3:CH:238:ASN:HD22	3:CI:112:GLY:HA2	1.68	0.59
4:FI:90:ASP:OD2	4:FI:137:ARG:NE	2.33	0.59
2:BL:14:LEU:O	2:BM:76:TYR:OH	2.18	0.59
1:AO:532:MET:SD	2:BO:56:LEU:HD13	2.42	0.59
3:CO:238:ASN:HD22	3:CP:112:GLY:HA2	1.68	0.59
2:BP:149:PHE:O	2:BP:154:ARG:NH2	2.35	0.59
3:CT:302:LEU:HB3	3:CT:320:LEU:HD23	1.84	0.59
4:FT:70:ARG:NH1	4:FT:98:ASP:OD2	2.36	0.59
2:BV:46:GLN:NE2	2:BW:68:ALA:O	2.29	0.59
2:BW:127:PRO:HA	2:BW:130:ILE:HD12	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:298:LEU:O	2:B1:302:GLU:HG2	2.01	0.59
1:A4:532:MET:SD	2:B4:56:LEU:HD13	2.43	0.59
2:B4:207:LYS:HE3	2:B4:209:GLN:H	1.68	0.59
2:B5:43:ASN:O	2:B5:45:ARG:NH1	2.36	0.59
3:C7:283:VAL:HG21	4:D7:114:VAL:HG21	1.85	0.59
4:F9:70:ARG:NH1	4:F9:98:ASP:OD2	2.36	0.59
4:EA:107:ALA:HB2	4:EA:125:ILE:HD12	1.83	0.59
3:CE:274:GLN:O	3:CE:278:LEU:HB2	2.03	0.59
1:AF:532:MET:SD	2:BF:56:LEU:HD13	2.42	0.59
2:BF:97:ILE:O	2:BF:100:THR:OG1	2.21	0.59
3:CG:70:PHE:HZ	2:BH:121:LEU:HB2	1.68	0.59
3:CH:153:VAL:HG12	3:CH:157:MET:HE2	1.85	0.59
4:FJ:70:ARG:NH1	4:FJ:98:ASP:OD2	2.36	0.59
1:AK:534:GLN:HG3	1:AK:537:ARG:HH21	1.68	0.59
3:CN:191:ILE:HG23	3:CN:192:THR:HG23	1.84	0.59
2:BS:245:ARG:HH21	2:BS:321:MET:HB3	1.67	0.59
3:CW:302:LEU:HB3	3:CW:320:LEU:HD23	1.83	0.59
4:DX:105:LEU:HB3	4:DX:126:ILE:HG21	1.84	0.59
4:F1:99:ILE:HB	4:F1:107:ALA:HB3	1.84	0.58
2:B4:74:ASN:HB3	2:B4:78:ARG:HH12	1.68	0.58
2:B5:201:GLU:HA	2:B5:204:ASN:HD22	1.68	0.58
2:B5:298:LEU:O	2:B5:302:GLU:HG2	2.02	0.58
2:B6:207:LYS:HE3	2:B6:209:GLN:H	1.68	0.58
3:C9:253:GLN:NE2	4:FA:126:ILE:O	2.36	0.58
4:FB:127:THR:HG23	4:FB:130:GLU:H	1.68	0.58
4:EC:107:ALA:HB2	4:EC:125:ILE:HD12	1.84	0.58
3:CE:255:GLN:HB3	4:DE:76:LYS:HG3	1.84	0.58
4:DG:105:LEU:O	4:DG:131:ARG:NH2	2.32	0.58
2:BP:46:GLN:NE2	2:BP:47:ILE:O	2.35	0.58
3:CP:70:PHE:HZ	2:BQ:121:LEU:HB2	1.68	0.58
4:DP:131:ARG:NH1	4:EP:59:ASP:OD2	2.35	0.58
3:CQ:253:GLN:OE1	4:FR:131:ARG:NH2	2.36	0.58
4:DQ:105:LEU:O	4:DQ:131:ARG:NH2	2.36	0.58
3:CR:70:PHE:HZ	2:BS:121:LEU:HB2	1.67	0.58
3:CS:273:SER:OG	4:DS:58:MET:O	2.12	0.58
4:FS:90:ASP:OD2	4:FS:137:ARG:NE	2.31	0.58
4:EV:107:ALA:HB2	4:EV:125:ILE:HD12	1.84	0.58
2:BW:43:ASN:O	2:BW:45:ARG:NH1	2.35	0.58
4:EX:68:LEU:HB3	4:FX:66:VAL:HG13	1.85	0.58
2:BY:218:VAL:HG11	2:BY:229:ILE:HD12	1.85	0.58
3:C1:70:PHE:HZ	2:B2:121:LEU:HB2	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E6:73:MET:HE1	4:E6:78:LEU:HD23	1.84	0.58
2:B7:52:LEU:HD13	2:B8:69:LEU:HD21	1.83	0.58
2:BA:298:LEU:O	2:BA:302:GLU:HG2	2.02	0.58
3:CC:102:LEU:HD22	3:CC:115:LEU:HD21	1.85	0.58
2:BE:97:ILE:O	2:BE:100:THR:OG1	2.21	0.58
3:CE:273:SER:OG	4:DE:58:MET:O	2.16	0.58
3:CF:102:LEU:HD22	3:CF:115:LEU:HD21	1.85	0.58
2:BG:14:LEU:HD13	2:BG:17:ILE:HD11	1.84	0.58
3:CI:302:LEU:HB3	3:CI:320:LEU:HD23	1.84	0.58
1:AN:532:MET:SD	2:BN:56:LEU:HD13	2.43	0.58
4:EN:64:LEU:HB3	4:FN:71:THR:HB	1.85	0.58
4:EO:77:GLU:HA	4:EO:80:ARG:HB2	1.84	0.58
3:CP:299:VAL:HA	4:FP:132:MET:HE2	1.85	0.58
4:ER:64:LEU:HB3	4:FR:71:THR:HB	1.85	0.58
2:BS:111:ASN:HD21	2:BS:138:LYS:HB2	1.68	0.58
4:E2:121:ARG:NH1	4:F2:85:SER:O	2.32	0.58
4:D3:105:LEU:O	4:D3:131:ARG:NH2	2.33	0.58
4:E4:68:LEU:HB3	4:F4:66:VAL:HG13	1.84	0.58
2:B6:149:PHE:O	2:B6:154:ARG:NH2	2.37	0.58
2:B7:97:ILE:O	2:B7:100:THR:OG1	2.19	0.58
3:C7:302:LEU:HB3	3:C7:320:LEU:HD23	1.85	0.58
4:E7:68:LEU:HB3	4:F7:66:VAL:HG13	1.84	0.58
4:E7:107:ALA:HB2	4:E7:125:ILE:HD12	1.84	0.58
3:C8:70:PHE:HZ	2:B9:121:LEU:HB2	1.69	0.58
3:C8:102:LEU:HD22	3:C8:115:LEU:HD21	1.86	0.58
2:B9:46:GLN:HB2	1:AA:549:LEU:HD13	1.85	0.58
2:B9:68:ALA:O	2:B9:70:ASN:ND2	2.36	0.58
2:B9:149:PHE:O	2:B9:154:ARG:NH2	2.36	0.58
1:AB:532:MET:SD	2:BB:56:LEU:HD13	2.43	0.58
4:EC:64:LEU:HB3	4:FC:71:THR:HB	1.85	0.58
4:ED:68:LEU:HB3	4:FD:66:VAL:HG13	1.85	0.58
3:CH:102:LEU:HD22	3:CH:115:LEU:HD21	1.85	0.58
1:AI:532:MET:SD	2:BI:56:LEU:HD13	2.43	0.58
4:EJ:68:LEU:HB3	4:FJ:66:VAL:HG13	1.86	0.58
3:CP:238:ASN:HD22	3:CQ:112:GLY:HA2	1.67	0.58
3:CR:223:MET:HA	3:CR:223:MET:HE3	1.85	0.58
2:BS:18:GLY:O	2:BT:76:TYR:OH	2.22	0.58
2:BT:110:LEU:HD11	2:BT:121:LEU:HD23	1.85	0.58
3:CU:238:ASN:HD22	3:CV:112:GLY:HA2	1.67	0.58
4:EU:64:LEU:HB3	4:FU:71:THR:HB	1.85	0.58
2:BW:251:LEU:HD13	2:BW:278:MET:HE3	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EW:64:LEU:HB3	4:FW:71:THR:HB	1.85	0.58
2:B1:214:VAL:CG1	2:BY:158:MET:HE3	2.33	0.58
4:F1:127:THR:HG23	4:F1:130:GLU:H	1.68	0.58
1:A5:534:GLN:HG3	1:A5:537:ARG:HH21	1.67	0.58
4:F7:127:THR:HG23	4:F7:130:GLU:H	1.67	0.58
3:C8:299:VAL:HA	4:F8:132:MET:HE2	1.85	0.58
4:FA:127:THR:HG23	4:FA:130:GLU:H	1.67	0.58
3:CI:70:PHE:HZ	2:BJ:121:LEU:HB2	1.68	0.58
2:BM:14:LEU:O	2:BN:76:TYR:OH	2.15	0.58
3:CM:70:PHE:HZ	2:BN:121:LEU:HB2	1.68	0.58
3:CN:297:ASP:OD2	4:EO:72:ARG:NH2	2.35	0.58
4:FN:127:THR:HG23	4:FN:130:GLU:H	1.68	0.58
2:BO:106:GLY:O	2:BO:109:THR:OG1	2.18	0.58
4:EV:64:LEU:HB3	4:FV:71:THR:HB	1.85	0.58
3:CY:302:LEU:HB3	3:CY:320:LEU:HD23	1.84	0.58
4:D4:105:LEU:HB3	4:D4:126:ILE:HG21	1.85	0.58
2:B6:127:PRO:HA	2:B6:130:ILE:HD12	1.86	0.58
4:F8:96:PRO:HB2	4:F8:108:GLN:HB3	1.86	0.58
2:B9:106:GLY:O	2:B9:109:THR:OG1	2.16	0.58
1:AA:534:GLN:HG3	1:AA:537:ARG:HH21	1.67	0.58
2:BA:97:ILE:O	2:BA:100:THR:OG1	2.21	0.58
3:CA:299:VAL:HA	4:FA:132:MET:HE2	1.85	0.58
3:CA:300:PRO:HB2	3:CA:321:ILE:HG13	1.85	0.58
4:FC:127:THR:HG23	4:FC:130:GLU:H	1.67	0.58
4:EH:107:ALA:HB2	4:EH:125:ILE:HD12	1.84	0.58
3:CJ:102:LEU:HD22	3:CJ:115:LEU:HD21	1.85	0.58
2:BK:110:LEU:HD11	2:BK:121:LEU:HD23	1.86	0.58
3:CK:70:PHE:HZ	2:BL:121:LEU:HB2	1.68	0.58
4:FK:126:ILE:HD11	4:FK:131:ARG:HH21	1.68	0.58
2:BL:97:ILE:O	2:BL:101:ARG:NH1	2.37	0.58
4:FO:104:TYR:OH	4:FO:131:ARG:NH1	2.37	0.58
1:AQ:551:ILE:HD11	2:BQ:29:LEU:HD11	1.85	0.58
2:BQ:218:VAL:HG11	2:BQ:229:ILE:HD12	1.84	0.58
4:ES:64:LEU:HB3	4:FS:71:THR:HB	1.85	0.58
4:ET:64:LEU:HB3	4:FT:71:THR:HB	1.85	0.58
2:BV:106:GLY:N	2:BV:180:ASN:OD1	2.34	0.58
3:CV:297:ASP:OD2	4:EW:72:ARG:NH2	2.36	0.58
3:CY:153:VAL:HG12	3:CY:157:MET:HE2	1.85	0.58
4:F1:70:ARG:NH1	4:F1:98:ASP:OD2	2.36	0.58
4:E2:64:LEU:HB3	4:F2:71:THR:HB	1.85	0.58
4:F4:104:TYR:OH	4:F4:131:ARG:NH1	2.37	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D5:101:ILE:HD13	4:E5:60:ILE:HD13	1.85	0.58
4:F9:132:MET:HE1	4:F9:135:LEU:HD22	1.85	0.58
3:CA:70:PHE:HZ	2:BB:121:LEU:HB2	1.69	0.58
3:CC:256:HIS:HB2	4:FD:104:TYR:CZ	2.38	0.58
2:BD:149:PHE:O	2:BD:154:ARG:NH2	2.37	0.58
2:BF:149:PHE:O	2:BF:154:ARG:NH2	2.37	0.58
2:BK:298:LEU:HD11	2:BL:329:THR:HB	1.86	0.58
4:FL:99:ILE:HB	4:FL:107:ALA:HB3	1.85	0.58
4:EN:73:MET:SD	4:EN:77:GLU:HG2	2.43	0.58
3:CO:273:SER:OG	4:DO:58:MET:O	2.15	0.58
4:EO:75:ILE:HG13	4:FO:58:MET:HG2	1.85	0.58
1:AP:532:MET:SD	2:BP:56:LEU:HD13	2.43	0.58
4:FQ:70:ARG:NH1	4:FQ:98:ASP:OD2	2.37	0.58
2:BU:106:GLY:N	2:BU:180:ASN:OD1	2.37	0.58
2:BU:149:PHE:O	2:BU:154:ARG:NH2	2.36	0.58
3:CU:102:LEU:HD22	3:CU:115:LEU:HD21	1.84	0.58
2:BX:149:PHE:O	2:BX:154:ARG:NH2	2.36	0.58
3:CX:101:ASN:OD1	3:CX:103:ASN:ND2	2.36	0.58
3:C1:112:GLY:HA2	3:CY:238:ASN:HD22	1.68	0.58
3:C1:255:GLN:HB3	4:D1:76:LYS:HG3	1.84	0.58
4:D1:101:ILE:HD13	4:E1:60:ILE:HD13	1.86	0.58
3:C2:102:LEU:HD22	3:C2:115:LEU:HD21	1.85	0.58
3:C2:299:VAL:HA	4:F2:132:MET:HE2	1.84	0.58
3:C3:70:PHE:HZ	2:B4:121:LEU:HB2	1.69	0.58
3:C6:70:PHE:HZ	2:B7:121:LEU:HB2	1.69	0.58
2:B7:111:ASN:HD21	2:B7:138:LYS:HB2	1.69	0.58
4:EA:68:LEU:HB3	4:FA:66:VAL:HG13	1.84	0.58
4:EB:121:ARG:NH1	4:FB:85:SER:O	2.31	0.58
3:CE:70:PHE:HZ	2:BF:121:LEU:HB2	1.68	0.58
3:CP:101:ASN:OD1	3:CP:103:ASN:ND2	2.37	0.58
2:BR:106:GLY:O	2:BR:109:THR:OG1	2.16	0.58
4:FU:70:ARG:NH1	4:FU:98:ASP:OD2	2.37	0.58
4:FU:104:TYR:OH	4:FU:131:ARG:NH1	2.37	0.58
2:B1:70:ASN:HD22	2:BY:46:GLN:HG3	1.69	0.58
3:C2:302:LEU:HB3	3:C2:320:LEU:HD23	1.84	0.58
1:A3:534:GLN:HG3	1:A3:537:ARG:HH21	1.69	0.58
3:C5:70:PHE:HZ	2:B6:121:LEU:HB2	1.69	0.58
3:C5:283:VAL:HG21	4:D5:114:VAL:HG21	1.86	0.58
2:B6:42:ALA:HB2	2:B7:97:ILE:HG23	1.86	0.58
2:B7:149:PHE:O	2:B7:154:ARG:NH2	2.37	0.58
3:C9:123:VAL:HG22	3:C9:157:MET:HE1	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:283:VAL:HG21	4:D9:114:VAL:HG21	1.86	0.58
3:C9:302:LEU:HB3	3:C9:320:LEU:HD23	1.85	0.58
3:CA:223:MET:HE3	3:CA:223:MET:HA	1.85	0.58
1:AD:551:ILE:HD11	2:BD:29:LEU:HD11	1.86	0.58
2:BD:38:SER:HA	2:BD:41:MET:HE3	1.86	0.58
2:BD:111:ASN:HD21	2:BD:138:LYS:HB2	1.69	0.58
3:CE:300:PRO:HD2	4:FE:132:MET:HE2	1.84	0.58
2:BF:110:LEU:HD11	2:BF:121:LEU:HD23	1.86	0.58
2:BF:111:ASN:HD21	2:BF:138:LYS:HB2	1.69	0.58
2:BH:149:PHE:O	2:BH:154:ARG:NH2	2.37	0.58
4:DH:105:LEU:O	4:DH:131:ARG:NH2	2.33	0.58
4:DM:105:LEU:HB3	4:DM:126:ILE:HG21	1.85	0.58
4:EP:64:LEU:HB3	4:FP:71:THR:HB	1.85	0.58
2:BR:110:LEU:HD11	2:BR:121:LEU:HD23	1.86	0.58
3:CR:302:LEU:HB3	3:CR:320:LEU:HD23	1.85	0.58
4:DR:74:THR:N	4:DR:77:GLU:OE2	2.24	0.58
3:CS:302:LEU:HB3	3:CS:320:LEU:HD23	1.85	0.58
3:CT:238:ASN:HD22	3:CU:112:GLY:HA2	1.67	0.58
1:AU:534:GLN:HG3	1:AU:537:ARG:HH21	1.69	0.58
3:CV:70:PHE:HZ	2:BW:121:LEU:HB2	1.68	0.58
2:BW:14:LEU:O	2:BX:76:TYR:OH	2.19	0.58
2:BX:110:LEU:HD11	2:BX:121:LEU:HD23	1.86	0.58
4:FX:90:ASP:OD2	4:FX:137:ARG:NE	2.33	0.58
3:CY:299:VAL:HA	4:FY:132:MET:HE2	1.85	0.58
2:B2:42:ALA:HB2	2:B3:97:ILE:HG23	1.85	0.58
4:F3:70:ARG:NH1	4:F3:98:ASP:OD2	2.36	0.58
3:C5:102:LEU:HD22	3:C5:115:LEU:HD21	1.86	0.58
3:C6:102:LEU:HD22	3:C6:115:LEU:HD21	1.86	0.58
2:B8:43:ASN:O	2:B8:45:ARG:NH1	2.36	0.58
2:BD:46:GLN:NE2	2:BE:68:ALA:O	2.33	0.58
2:BG:97:ILE:O	2:BG:101:ARG:NH1	2.37	0.58
2:BI:158:MET:HE3	2:BJ:214:VAL:CG1	2.34	0.58
4:DL:131:ARG:NH1	4:EL:59:ASP:OD2	2.37	0.58
4:EL:68:LEU:HB3	4:FL:66:VAL:HG13	1.86	0.58
3:CN:300:PRO:HB2	3:CN:321:ILE:HG13	1.86	0.58
4:EO:59:ASP:HA	4:FO:76:LYS:HZ1	1.69	0.58
4:FP:70:ARG:NH1	4:FP:98:ASP:OD2	2.37	0.58
3:CT:70:PHE:HZ	2:BU:121:LEU:HB2	1.68	0.58
2:BU:43:ASN:O	2:BU:45:ARG:NH1	2.36	0.58
2:BV:14:LEU:O	2:BW:76:TYR:OH	2.15	0.58
2:BX:41:MET:HA	2:BX:44:VAL:HB	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:102:LEU:HD22	3:C3:115:LEU:HD21	1.86	0.58
4:F4:70:ARG:NH1	4:F4:98:ASP:OD2	2.36	0.58
3:C7:223:MET:HA	3:C7:223:MET:HE3	1.86	0.58
3:CA:102:LEU:HD22	3:CA:115:LEU:HD21	1.86	0.58
4:FB:70:ARG:NH1	4:FB:98:ASP:OD2	2.37	0.58
2:BE:218:VAL:HG11	2:BE:229:ILE:HD12	1.86	0.58
3:CJ:70:PHE:HZ	2:BK:121:LEU:HB2	1.69	0.58
3:CL:70:PHE:HZ	2:BM:121:LEU:HB2	1.68	0.58
2:BN:14:LEU:O	2:BO:76:TYR:OH	2.19	0.58
3:CO:302:LEU:HB3	3:CO:320:LEU:HD23	1.85	0.58
2:BQ:139:ARG:NH1	2:BR:198:THR:O	2.37	0.58
2:BR:149:PHE:O	2:BR:154:ARG:NH2	2.37	0.58
2:BS:106:GLY:N	2:BS:180:ASN:OD1	2.37	0.58
2:BW:229:ILE:O	2:BW:233:MET:HG2	2.03	0.58
4:EX:64:LEU:HB3	4:FX:71:THR:HB	1.85	0.58
3:C1:273:SER:OG	4:D1:58:MET:O	2.12	0.57
4:E1:68:LEU:HB3	4:F1:66:VAL:HG13	1.85	0.57
3:C2:101:ASN:OD1	3:C2:103:ASN:ND2	2.37	0.57
2:B9:246:SER:OG	2:B9:321:MET:HG3	2.04	0.57
2:BA:149:PHE:O	2:BA:154:ARG:NH2	2.37	0.57
4:FA:126:ILE:HD11	4:FA:131:ARG:HH21	1.69	0.57
2:BB:149:PHE:O	2:BB:154:ARG:NH2	2.36	0.57
3:CB:102:LEU:HD22	3:CB:115:LEU:HD21	1.86	0.57
2:BE:106:GLY:N	2:BE:180:ASN:OD1	2.36	0.57
2:BE:106:GLY:O	2:BE:109:THR:OG1	2.19	0.57
4:EE:121:ARG:HH22	4:FE:86:VAL:HA	1.69	0.57
4:FE:99:ILE:HB	4:FE:107:ALA:HB3	1.85	0.57
3:CF:70:PHE:HZ	2:BG:121:LEU:HB2	1.68	0.57
4:FK:104:TYR:OH	4:FK:131:ARG:NH1	2.37	0.57
4:FL:70:ARG:NH1	4:FL:98:ASP:OD2	2.37	0.57
2:BM:110:LEU:HD11	2:BM:121:LEU:HD23	1.86	0.57
3:CN:273:SER:OG	4:DN:58:MET:O	2.14	0.57
1:AO:536:ILE:HA	1:AO:539:MET:HE3	1.86	0.57
2:BP:158:MET:HE3	2:BQ:214:VAL:CG1	2.34	0.57
4:FQ:90:ASP:OD2	4:FQ:137:ARG:NE	2.32	0.57
3:CR:101:ASN:OD1	3:CR:103:ASN:ND2	2.37	0.57
4:ER:121:ARG:HH22	4:FR:86:VAL:HA	1.69	0.57
2:BS:106:GLY:O	2:BS:109:THR:OG1	2.16	0.57
4:ES:107:ALA:HB2	4:ES:125:ILE:HD12	1.84	0.57
3:CW:102:LEU:HD22	3:CW:115:LEU:HD21	1.85	0.57
3:CX:106:HIS:CD2	3:CX:113:THR:HG22	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:149:PHE:O	2:B1:154:ARG:NH2	2.37	0.57
2:B4:149:PHE:O	2:B4:154:ARG:NH2	2.37	0.57
4:F5:104:TYR:OH	4:F5:131:ARG:NH1	2.36	0.57
4:F9:104:TYR:OH	4:F9:131:ARG:NH1	2.37	0.57
2:BA:110:LEU:HD11	2:BA:121:LEU:HD23	1.85	0.57
4:FB:104:TYR:OH	4:FB:131:ARG:NH1	2.37	0.57
2:BI:149:PHE:O	2:BI:154:ARG:NH2	2.36	0.57
4:FI:70:ARG:NH1	4:FI:98:ASP:OD2	2.37	0.57
2:BJ:111:ASN:HD21	2:BJ:138:LYS:HB2	1.69	0.57
4:FJ:99:ILE:HB	4:FJ:107:ALA:HB3	1.84	0.57
3:CK:258:GLU:O	4:FL:102:ASN:ND2	2.33	0.57
3:CN:70:PHE:HZ	2:BO:121:LEU:HB2	1.69	0.57
3:CQ:70:PHE:HZ	2:BR:121:LEU:HB2	1.69	0.57
3:CQ:273:SER:OG	4:DQ:58:MET:O	2.15	0.57
4:EQ:121:ARG:NH1	4:FQ:85:SER:O	2.31	0.57
4:FS:104:TYR:OH	4:FS:131:ARG:NH1	2.37	0.57
2:BT:41:MET:HA	2:BT:44:VAL:HB	1.85	0.57
2:BU:97:ILE:O	2:BU:101:ARG:NH1	2.37	0.57
2:BX:69:LEU:HG	2:BX:70:ASN:H	1.67	0.57
4:FX:104:TYR:OH	4:FX:131:ARG:NH1	2.37	0.57
4:E4:121:ARG:HH22	4:F4:86:VAL:HA	1.69	0.57
3:C6:297:ASP:OD2	4:E7:72:ARG:NH2	2.37	0.57
2:B8:46:GLN:NE2	2:B8:47:ILE:O	2.37	0.57
4:E9:68:LEU:HB3	4:F9:66:VAL:HG13	1.85	0.57
4:F9:127:THR:HG23	4:F9:130:GLU:H	1.69	0.57
2:BB:46:GLN:NE2	2:BB:47:ILE:O	2.37	0.57
4:ED:64:LEU:HB3	4:FD:71:THR:HB	1.85	0.57
2:BI:4:LEU:HD11	2:BI:47:ILE:HD11	1.87	0.57
4:FI:104:TYR:OH	4:FI:131:ARG:NH1	2.38	0.57
2:BN:110:LEU:HD11	2:BN:121:LEU:HD23	1.86	0.57
1:AR:532:MET:HE3	2:BR:56:LEU:HD13	1.86	0.57
2:BR:229:ILE:O	2:BR:233:MET:HG2	2.04	0.57
3:CS:253:GLN:OE1	4:FT:131:ARG:NH2	2.37	0.57
4:ES:75:ILE:HA	4:ES:78:LEU:HD12	1.86	0.57
2:BT:210:GLN:O	2:BT:214:VAL:HG23	2.03	0.57
2:BU:41:MET:HA	2:BU:44:VAL:HB	1.85	0.57
2:BY:246:SER:OG	2:BY:321:MET:HG3	2.04	0.57
4:EY:64:LEU:HB3	4:FY:71:THR:HB	1.86	0.57
2:B2:111:ASN:HD21	2:B2:138:LYS:HB2	1.69	0.57
4:E4:64:LEU:HB3	4:F4:71:THR:HB	1.86	0.57
4:F4:127:THR:HG23	4:F4:130:GLU:H	1.68	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:106:GLY:O	2:B7:109:THR:OG1	2.16	0.57
3:C7:70:PHE:HZ	2:B8:121:LEU:HB2	1.69	0.57
2:B8:52:LEU:HD13	2:B9:69:LEU:HD11	1.85	0.57
2:BC:110:LEU:HD11	2:BC:121:LEU:HD23	1.85	0.57
4:EC:68:LEU:HB3	4:FC:66:VAL:HG13	1.85	0.57
3:CD:273:SER:OG	4:DD:58:MET:O	2.12	0.57
1:AE:534:GLN:HG3	1:AE:537:ARG:HH21	1.70	0.57
4:EG:64:LEU:HB3	4:FG:71:THR:HB	1.85	0.57
2:BH:9:LYS:O	2:BH:13:LEU:HG	2.05	0.57
4:DI:101:ILE:HD13	4:EI:60:ILE:HD13	1.87	0.57
4:DL:105:LEU:O	4:DL:131:ARG:NH2	2.32	0.57
4:EL:121:ARG:NH1	4:FL:85:SER:O	2.32	0.57
4:EM:64:LEU:HB3	4:FM:71:THR:HB	1.85	0.57
4:FO:70:ARG:NH1	4:FO:98:ASP:OD2	2.37	0.57
2:BQ:158:MET:HE3	2:BR:214:VAL:CG1	2.35	0.57
2:BU:42:ALA:HB2	2:BV:97:ILE:HG23	1.85	0.57
3:CW:101:ASN:OD1	3:CW:103:ASN:ND2	2.37	0.57
4:FW:70:ARG:NH1	4:FW:98:ASP:OD2	2.37	0.57
4:FY:99:ILE:HB	4:FY:107:ALA:HB3	1.85	0.57
4:F8:127:THR:HG23	4:F8:130:GLU:H	1.69	0.57
4:E9:64:LEU:HB3	4:F9:71:THR:HB	1.86	0.57
4:FA:104:TYR:OH	4:FA:131:ARG:NH1	2.37	0.57
2:BE:9:LYS:O	2:BE:13:LEU:HG	2.05	0.57
4:DE:105:LEU:HB3	4:DE:126:ILE:HG21	1.87	0.57
2:BI:253:GLU:OE1	2:BI:314:ARG:NH2	2.38	0.57
3:CJ:297:ASP:OD2	4:EK:72:ARG:NH2	2.37	0.57
4:EK:64:LEU:HB3	4:FK:71:THR:HB	1.85	0.57
3:CM:253:GLN:NE2	4:FN:126:ILE:O	2.37	0.57
4:FM:132:MET:O	4:FM:132:MET:HE3	2.03	0.57
3:CR:191:ILE:HG23	3:CR:192:THR:HG23	1.86	0.57
3:CT:299:VAL:HA	4:FT:132:MET:HE3	1.87	0.57
1:AW:534:GLN:HG3	1:AW:537:ARG:HH21	1.70	0.57
2:BX:111:ASN:HD21	2:BX:138:LYS:HB2	1.69	0.57
4:F3:127:THR:HG23	4:F3:130:GLU:H	1.69	0.57
2:B6:111:ASN:HD21	2:B6:138:LYS:HB2	1.68	0.57
2:B6:253:GLU:OE1	2:B6:314:ARG:NH2	2.37	0.57
4:E8:64:LEU:HB3	4:F8:71:THR:HB	1.85	0.57
2:BC:149:PHE:O	2:BC:154:ARG:NH2	2.37	0.57
3:CC:70:PHE:HZ	2:BD:121:LEU:HB2	1.69	0.57
1:AF:534:GLN:HG3	1:AF:537:ARG:HH21	1.70	0.57
3:CG:297:ASP:OD2	4:EH:72:ARG:NH2	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:246:SER:OG	2:BH:321:MET:HG3	2.05	0.57
4:EH:64:LEU:HB3	4:FH:71:THR:HB	1.86	0.57
3:CJ:253:GLN:OE1	4:FK:131:ARG:NH2	2.38	0.57
4:EJ:64:LEU:HB3	4:FJ:71:THR:HB	1.86	0.57
2:BM:106:GLY:O	2:BM:109:THR:OG1	2.19	0.57
2:BN:111:ASN:HD21	2:BN:138:LYS:HB2	1.70	0.57
2:BO:149:PHE:O	2:BO:154:ARG:NH2	2.37	0.57
2:BQ:207:LYS:HE3	2:BQ:209:GLN:H	1.69	0.57
4:EQ:121:ARG:HH22	4:FQ:86:VAL:HA	1.70	0.57
3:CR:123:VAL:HG22	3:CR:157:MET:HE1	1.87	0.57
3:CT:300:PRO:HD2	4:FT:132:MET:HE2	1.84	0.57
3:C1:102:LEU:HD22	3:C1:115:LEU:HD21	1.86	0.57
3:C1:302:LEU:HB3	3:C1:320:LEU:HD23	1.85	0.57
3:C5:256:HIS:HB2	4:F6:104:TYR:CZ	2.39	0.57
4:E5:64:LEU:HB3	4:F5:71:THR:HB	1.85	0.57
4:F5:127:THR:HG23	4:F5:130:GLU:H	1.69	0.57
4:F6:96:PRO:HB2	4:F6:108:GLN:HB3	1.86	0.57
2:B8:106:GLY:O	2:B8:109:THR:OG1	2.17	0.57
2:B8:149:PHE:O	2:B8:154:ARG:NH2	2.38	0.57
2:B9:46:GLN:NE2	2:BA:68:ALA:O	2.34	0.57
2:BA:42:ALA:HB2	2:BB:97:ILE:HG23	1.86	0.57
4:EB:128:PRO:HG3	4:EB:131:ARG:HH21	1.69	0.57
2:BC:42:ALA:HB2	2:BD:97:ILE:HG23	1.86	0.57
4:DC:105:LEU:O	4:DC:131:ARG:NH2	2.33	0.57
2:BE:42:ALA:HB2	2:BF:97:ILE:HG23	1.86	0.57
4:FE:70:ARG:NH1	4:FE:98:ASP:OD2	2.38	0.57
4:DF:105:LEU:HB3	4:DF:126:ILE:HG21	1.87	0.57
2:BI:43:ASN:O	2:BI:45:ARG:NH1	2.36	0.57
2:BI:127:PRO:HA	2:BI:130:ILE:HD12	1.86	0.57
4:FI:127:THR:HG23	4:FI:130:GLU:H	1.69	0.57
4:DJ:105:LEU:HB3	4:DJ:126:ILE:HG21	1.87	0.57
4:FM:104:TYR:OH	4:FM:131:ARG:NH1	2.38	0.57
4:EN:77:GLU:HA	4:EN:80:ARG:HB2	1.85	0.57
2:BP:106:GLY:O	2:BP:109:THR:OG1	2.19	0.57
1:AR:534:GLN:HG3	1:AR:537:ARG:HH21	1.70	0.57
2:BT:106:GLY:O	2:BT:109:THR:OG1	2.16	0.57
4:FT:134:ARG:HA	4:FT:137:ARG:HH12	1.70	0.57
2:BW:207:LYS:HE3	2:BW:209:GLN:H	1.70	0.57
2:B7:46:GLN:HE22	2:B8:69:LEU:HB2	1.70	0.57
2:BA:167:VAL:HG23	3:CA:131:PHE:HA	1.85	0.57
3:CC:283:VAL:HG21	4:DC:114:VAL:HG21	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:99:ILE:HB	4:FI:107:ALA:HB3	1.86	0.57
1:AJ:536:ILE:HA	1:AJ:539:MET:HE3	1.87	0.57
1:AM:534:GLN:HG3	1:AM:537:ARG:HH21	1.70	0.57
4:EP:75:ILE:HB	4:EP:76:LYS:NZ	2.20	0.57
4:EY:68:LEU:HB3	4:FY:66:VAL:HG13	1.85	0.57
1:A2:536:ILE:HA	1:A2:539:MET:HE3	1.87	0.57
4:D2:105:LEU:HB3	4:D2:126:ILE:HG21	1.86	0.57
4:F6:132:MET:SD	4:F6:135:LEU:HB3	2.44	0.57
2:BA:135:VAL:HG11	2:BB:194:GLY:HA3	1.87	0.57
1:AB:551:ILE:HD11	2:BB:29:LEU:HD11	1.87	0.57
1:AF:547:VAL:HG13	2:BF:25:VAL:HG22	1.87	0.57
3:CI:102:LEU:HD22	3:CI:115:LEU:HD21	1.86	0.57
2:BL:110:LEU:HD11	2:BL:121:LEU:HD23	1.87	0.57
3:CL:102:LEU:HD22	3:CL:115:LEU:HD21	1.85	0.57
2:BM:149:PHE:O	2:BM:154:ARG:NH2	2.37	0.57
2:BM:229:ILE:O	2:BM:233:MET:HG2	2.04	0.57
2:BO:229:ILE:O	2:BO:233:MET:HG2	2.03	0.57
2:BP:167:VAL:HG23	3:CP:131:PHE:HA	1.87	0.57
4:EP:74:THR:HG22	4:EP:75:ILE:H	1.70	0.57
3:CQ:101:ASN:OD1	3:CQ:103:ASN:ND2	2.38	0.57
4:DS:105:LEU:HB3	4:DS:126:ILE:HG21	1.85	0.57
4:FS:127:THR:HG23	4:FS:130:GLU:H	1.69	0.57
4:ET:121:ARG:HH22	4:FT:86:VAL:HA	1.70	0.57
4:FW:127:THR:HG23	4:FW:130:GLU:H	1.70	0.57
4:D8:105:LEU:HB3	4:D8:126:ILE:HG21	1.86	0.57
4:D9:105:LEU:HB3	4:D9:126:ILE:HG21	1.87	0.57
2:BA:106:GLY:N	2:BA:180:ASN:OD1	2.38	0.57
2:BA:157:VAL:O	2:BA:161:ILE:HG12	2.05	0.57
3:CA:78:ASP:OD1	3:CA:207:GLU:HB3	2.05	0.57
3:CB:256:HIS:HB2	4:FC:104:TYR:CZ	2.40	0.57
2:BE:149:PHE:O	2:BE:154:ARG:NH2	2.38	0.57
2:BF:251:LEU:HD13	2:BF:278:MET:HE3	1.86	0.57
4:FI:132:MET:HE1	4:FI:135:LEU:HD22	1.85	0.57
2:BL:78:ARG:HA	2:BL:94:LEU:HD11	1.87	0.57
4:EU:121:ARG:NH1	4:FU:85:SER:O	2.33	0.57
2:BV:158:MET:HE3	2:BW:214:VAL:CG1	2.35	0.57
4:DV:105:LEU:O	4:DV:131:ARG:NH2	2.37	0.57
4:FX:99:ILE:HB	4:FX:107:ALA:HB3	1.85	0.57
4:FY:127:THR:HG23	4:FY:130:GLU:H	1.70	0.57
2:B1:161:ILE:HG22	2:B2:199:ALA:HB2	1.87	0.56
2:B6:110:LEU:HD11	2:B6:121: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:E6:64:LEU:HB3	4:F6:71:THR:HB	1.86	0.56
2:B7:46:GLN:NE2	2:B7:47:ILE:O	2.38	0.56
3:C7:102:LEU:HD22	3:C7:115:LEU:HD21	1.87	0.56
3:CB:78:ASP:OD1	3:CB:207:GLU:HB3	2.05	0.56
4:FB:132:MET:HE1	4:FB:135:LEU:HD22	1.87	0.56
2:BC:9:LYS:O	2:BC:13:LEU:HG	2.05	0.56
4:EC:121:ARG:HH22	4:FC:86:VAL:HA	1.70	0.56
2:BE:110:LEU:HD11	2:BE:121:LEU:HD23	1.87	0.56
1:AO:534:GLN:HG3	1:AO:537:ARG:HH21	1.70	0.56
2:BO:218:VAL:HG11	2:BO:229:ILE:HD12	1.86	0.56
2:BP:218:VAL:HG11	2:BP:229:ILE:HD12	1.87	0.56
4:DQ:74:THR:N	4:DQ:77:GLU:OE2	2.23	0.56
3:CR:256:HIS:HB2	4:FS:104:TYR:CE2	2.39	0.56
2:BT:127:PRO:HA	2:BT:130:ILE:HD12	1.87	0.56
3:C1:283:VAL:HG21	4:D1:114:VAL:HG21	1.87	0.56
2:B2:43:ASN:O	2:B2:45:ARG:NH1	2.38	0.56
4:D3:105:LEU:HB3	4:D3:126:ILE:HG21	1.86	0.56
4:E3:121:ARG:NH1	4:F3:85:SER:O	2.33	0.56
4:F5:99:ILE:HB	4:F5:107:ALA:HB3	1.85	0.56
3:C6:283:VAL:HG21	4:D6:114:VAL:HG21	1.87	0.56
4:D8:105:LEU:O	4:D8:131:ARG:NH2	2.33	0.56
4:E9:121:ARG:NH1	4:F9:85:SER:O	2.31	0.56
4:EA:121:ARG:HH22	4:FA:86:VAL:HA	1.69	0.56
3:CB:70:PHE:HZ	2:BC:121:LEU:HB2	1.69	0.56
4:EB:73:MET:SD	4:EB:78:LEU:HD23	2.45	0.56
4:EB:90:ASP:O	4:FB:117:LYS:NZ	2.38	0.56
3:CG:78:ASP:OD1	3:CG:207:GLU:HB3	2.05	0.56
2:BK:207:LYS:HE3	2:BK:209:GLN:H	1.71	0.56
3:CO:101:ASN:OD1	3:CO:103:ASN:ND2	2.38	0.56
4:EO:73:MET:SD	4:EO:77:GLU:HG2	2.46	0.56
4:EP:121:ARG:HH22	4:FP:86:VAL:HA	1.70	0.56
2:BQ:253:GLU:OE1	2:BQ:314:ARG:NH2	2.37	0.56
3:CQ:283:VAL:HG21	4:DQ:114:VAL:HG21	1.86	0.56
2:BT:43:ASN:O	2:BT:45:ARG:NH1	2.36	0.56
2:BT:149:PHE:O	2:BT:154:ARG:NH2	2.38	0.56
3:CU:274:GLN:O	3:CU:278:LEU:HB2	2.05	0.56
2:BX:97:ILE:O	2:BX:100:THR:OG1	2.23	0.56
4:FY:104:TYR:OH	4:FY:131:ARG:NH1	2.39	0.56
2:B1:78:ARG:HA	2:B1:94:LEU:HD11	1.87	0.56
4:E1:64:LEU:HB3	4:F1:71:THR:HB	1.87	0.56
4:E1:121:ARG:HH22	4:F1:86:VAL:HA	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:110:LEU:HD11	2:B2:121:LEU:HD23	1.87	0.56
2:B2:143:ALA:HB1	2:B3:206:MET:HG3	1.86	0.56
4:F2:105:LEU:HD22	4:F2:126:ILE:HD13	1.87	0.56
3:C3:283:VAL:HG21	4:D3:114:VAL:HG21	1.88	0.56
3:C4:283:VAL:HG21	4:D4:114:VAL:HG21	1.87	0.56
4:F4:99:ILE:HB	4:F4:107:ALA:HB3	1.87	0.56
2:B6:97:ILE:O	2:B6:100:THR:OG1	2.24	0.56
4:D6:74:THR:N	4:D6:77:GLU:OE2	2.25	0.56
2:B7:157:VAL:O	2:B7:161:ILE:HG12	2.05	0.56
4:D7:131:ARG:NH1	4:E7:59:ASP:OD2	2.38	0.56
2:B9:158:MET:HE3	2:BA:214:VAL:CG1	2.34	0.56
2:B9:218:VAL:HG11	2:B9:229:ILE:HD12	1.88	0.56
3:C9:297:ASP:OD2	4:EA:72:ARG:NH2	2.38	0.56
4:DB:105:LEU:HB3	4:DB:126:ILE:HG21	1.87	0.56
4:EB:64:LEU:HB3	4:FB:71:THR:HB	1.86	0.56
3:CC:78:ASP:OD1	3:CC:207:GLU:HB3	2.05	0.56
3:CC:302:LEU:HB3	3:CC:320:LEU:HD23	1.87	0.56
4:FC:68:LEU:HA	4:FC:97:LEU:HD23	1.87	0.56
3:CD:70:PHE:HZ	2:BE:121:LEU:HB2	1.69	0.56
4:DD:131:ARG:NH1	4:ED:59:ASP:OD2	2.39	0.56
3:CE:283:VAL:HG21	4:DE:114:VAL:HG21	1.87	0.56
4:FF:126:ILE:HD11	4:FF:131:ARG:HH21	1.70	0.56
2:BH:4:LEU:HD11	2:BH:47:ILE:HD11	1.87	0.56
3:CH:70:PHE:HZ	2:BI:121:LEU:HB2	1.69	0.56
3:CI:78:ASP:OD1	3:CI:207:GLU:HB3	2.05	0.56
3:CI:283:VAL:HG21	4:DI:114:VAL:HG21	1.87	0.56
4:EI:121:ARG:HH22	4:FI:86:VAL:HA	1.69	0.56
4:FJ:132:MET:HE1	4:FJ:135:LEU:HD22	1.87	0.56
3:CK:297:ASP:OD2	4:EL:72:ARG:NH2	2.38	0.56
3:CL:253:GLN:OE1	4:FM:131:ARG:NH2	2.37	0.56
4:EL:64:LEU:HB3	4:FL:71:THR:HB	1.85	0.56
2:BM:167:VAL:HG23	3:CM:131:PHE:HA	1.86	0.56
4:FM:99:ILE:HB	4:FM:107:ALA:HB3	1.86	0.56
2:BO:46:GLN:NE2	2:BO:47:ILE:O	2.38	0.56
2:BP:245:ARG:HH12	2:BP:249:ARG:HB2	1.70	0.56
2:BP:298:LEU:O	2:BP:302:GLU:HG2	2.04	0.56
3:CP:106:HIS:CD2	3:CP:113:THR:HG22	2.41	0.56
4:FP:132:MET:HE3	4:FP:136:SER:HB3	1.88	0.56
3:CR:258:GLU:O	4:FS:102:ASN:ND2	2.36	0.56
3:CR:260:GLU:OE1	4:DR:72:ARG:NH2	2.39	0.56
4:DR:105:LEU:HB3	4:DR:126:ILE:HG21	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:102:LEU:HD22	3:CT:115:LEU:HD21	1.86	0.56
3:CU:249:ASN:HB3	4:FV:125:ILE:HD13	1.87	0.56
2:BV:111:ASN:HD21	2:BV:138:LYS:HB2	1.70	0.56
4:DX:105:LEU:O	4:DX:131:ARG:NH2	2.32	0.56
3:C1:101:ASN:OD1	3:C1:103:ASN:ND2	2.38	0.56
2:B4:253:GLU:OE1	2:B4:314:ARG:NH2	2.39	0.56
3:C4:78:ASP:OD1	3:C4:207:GLU:HB3	2.05	0.56
4:D7:105:LEU:O	4:D7:131:ARG:NH2	2.33	0.56
3:CA:101:ASN:OD1	3:CA:103:ASN:ND2	2.37	0.56
3:CA:256:HIS:HB2	4:FB:104:TYR:CE2	2.41	0.56
4:EA:64:LEU:HB3	4:FA:71:THR:HB	1.85	0.56
2:BB:110:LEU:HD11	2:BB:121:LEU:HD23	1.86	0.56
2:BB:111:ASN:HD21	2:BB:138:LYS:HB2	1.71	0.56
4:FB:70:ARG:HH21	4:FB:137:ARG:HH22	1.53	0.56
3:CF:283:VAL:HG21	4:DF:114:VAL:HG21	1.87	0.56
4:EF:64:LEU:HB3	4:FF:71:THR:HB	1.85	0.56
4:EI:90:ASP:O	4:FI:117:LYS:NZ	2.38	0.56
2:BJ:167:VAL:HG23	3:CJ:131:PHE:HA	1.86	0.56
2:BK:229:ILE:O	2:BK:233:MET:HG2	2.05	0.56
4:EL:121:ARG:HH22	4:FL:86:VAL:HA	1.70	0.56
1:AN:534:GLN:HG3	1:AN:537:ARG:HH21	1.71	0.56
2:BQ:246:SER:OG	2:BQ:321:MET:HG3	2.05	0.56
3:CR:274:GLN:O	3:CR:278:LEU:HB2	2.05	0.56
4:ER:77:GLU:HA	4:ER:80:ARG:HB2	1.86	0.56
4:E3:64:LEU:HB3	4:F3:71:THR:HB	1.87	0.56
2:B4:111:ASN:HD21	2:B4:138:LYS:HB2	1.70	0.56
2:B4:155:HIS:O	2:B4:158:MET:HG2	2.05	0.56
4:D5:105:LEU:HB3	4:D5:126:ILE:HG21	1.87	0.56
2:B6:43:ASN:O	2:B6:45:ARG:NH1	2.37	0.56
1:A7:532:MET:SD	2:B7:56:LEU:HD13	2.46	0.56
3:C7:246:TRP:HZ2	4:F8:122:ILE:HD12	1.71	0.56
2:B8:97:ILE:O	2:B8:100:THR:OG1	2.24	0.56
4:F8:70:ARG:NH1	4:F8:98:ASP:OD2	2.38	0.56
4:F8:99:ILE:HB	4:F8:107:ALA:HB3	1.88	0.56
2:BA:43:ASN:O	2:BA:45:ARG:NH1	2.38	0.56
2:BC:111:ASN:HD21	2:BC:138:LYS:HB2	1.69	0.56
2:BD:110:LEU:HD11	2:BD:121:LEU:HD23	1.87	0.56
4:ED:121:ARG:NH1	4:FD:85:SER:O	2.33	0.56
4:FF:127:THR:HG23	4:FF:130:GLU:H	1.69	0.56
2:BG:110:LEU:HD11	2:BG:121:LEU:HD23	1.87	0.56
2:BG:297:ARG:NH1	2:BH:329:THR:O	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:106:HIS:CD2	3:CG:113:THR:HG22	2.39	0.56
3:CG:256:HIS:HB2	4:FH:104:TYR:CE2	2.41	0.56
2:BH:85:LEU:HB3	2:BH:89:ARG:HB2	1.88	0.56
3:CH:78:ASP:OD1	3:CH:207:GLU:HB3	2.06	0.56
2:BI:110:LEU:HD11	2:BI:121:LEU:HD23	1.86	0.56
3:CI:101:ASN:OD1	3:CI:103:ASN:ND2	2.38	0.56
2:BL:42:ALA:HB1	2:BM:101:ARG:HH22	1.70	0.56
3:CM:283:VAL:HG21	4:DM:114:VAL:HG21	1.86	0.56
2:BP:97:ILE:O	2:BP:100:THR:OG1	2.22	0.56
4:ES:121:ARG:HH22	4:FS:86:VAL:HA	1.70	0.56
3:CT:78:ASP:OD1	3:CT:207:GLU:HB3	2.05	0.56
3:CT:256:HIS:HB2	4:FU:104:TYR:CE2	2.40	0.56
4:EV:121:ARG:HH22	4:FV:86:VAL:HA	1.69	0.56
4:DW:105:LEU:HB3	4:DW:126:ILE:HG21	1.87	0.56
3:CX:283:VAL:HG21	4:DX:114:VAL:HG21	1.87	0.56
2:B2:4:LEU:HD11	2:B2:47:ILE:HD11	1.86	0.56
2:B2:229:ILE:O	2:B2:233:MET:HG2	2.06	0.56
3:C4:256:HIS:HB2	4:F5:104:TYR:CE2	2.41	0.56
3:C5:78:ASP:OD1	3:C5:207:GLU:HB3	2.05	0.56
2:B6:158:MET:HE3	2:B7:214:VAL:CG1	2.35	0.56
4:E8:121:ARG:NH1	4:F8:85:SER:O	2.31	0.56
3:C9:70:PHE:HZ	2:BA:121:LEU:HB2	1.69	0.56
3:C9:256:HIS:HB2	4:FA:104:TYR:CE2	2.41	0.56
4:FB:99:ILE:HB	4:FB:107:ALA:HB3	1.87	0.56
3:CD:238:ASN:HD22	3:CE:112:GLY:HA2	1.69	0.56
4:EF:90:ASP:O	4:FF:117:LYS:NZ	2.38	0.56
4:DJ:101:ILE:HD13	4:EJ:60:ILE:HD13	1.88	0.56
4:EM:121:ARG:NH1	4:FM:85:SER:O	2.31	0.56
4:EM:121:ARG:HH22	4:FM:86:VAL:HA	1.70	0.56
2:BO:14:LEU:O	2:BP:76:TYR:OH	2.21	0.56
3:CP:297:ASP:OD2	4:EQ:72:ARG:NH2	2.37	0.56
4:FQ:99:ILE:HB	4:FQ:107:ALA:HB3	1.86	0.56
3:CT:297:ASP:OD2	4:EU:72:ARG:NH2	2.38	0.56
4:FV:132:MET:HE1	4:FV:135:LEU:HD22	1.87	0.56
2:BY:9:LYS:O	2:BY:13:LEU:HG	2.05	0.56
3:C2:283:VAL:HG21	4:D2:114:VAL:HG21	1.88	0.56
1:A4:551:ILE:HD11	2:B4:29:LEU:HD11	1.88	0.56
4:E7:64:LEU:HB3	4:F7:71:THR:HB	1.86	0.56
2:B8:111:ASN:HD21	2:B8:138:LYS:HB2	1.69	0.56
2:B8:253:GLU:OE1	2:B8:314:ARG:NH2	2.38	0.56
4:DA:101:ILE:HD13	4:EA:60:ILE:HD13	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:283:VAL:HG21	4:DB:114:VAL:HG21	1.88	0.56
3:CB:300:PRO:HD2	4:FB:132:MET:HE2	1.86	0.56
4:EB:121:ARG:HH22	4:FB:86:VAL:HA	1.71	0.56
4:EB:130:GLU:HB2	4:EB:133:ARG:HE	1.70	0.56
4:DC:131:ARG:NH1	4:EC:59:ASP:OD2	2.38	0.56
3:CE:297:ASP:OD2	4:EF:72:ARG:NH2	2.38	0.56
2:BI:106:GLY:N	2:BI:180:ASN:OD1	2.39	0.56
2:BK:106:GLY:N	2:BK:180:ASN:OD1	2.38	0.56
3:CM:102:LEU:HD22	3:CM:115:LEU:HD21	1.86	0.56
4:EN:74:THR:HG22	4:EN:75:ILE:H	1.71	0.56
4:FN:99:ILE:HB	4:FN:107:ALA:HB3	1.87	0.56
2:BO:97:ILE:O	2:BO:101:ARG:NH1	2.39	0.56
3:CP:78:ASP:OD1	3:CP:207:GLU:HB3	2.05	0.56
4:EP:73:MET:HE1	4:EP:78:LEU:HD23	1.88	0.56
3:CQ:102:LEU:HD22	3:CQ:115:LEU:HD21	1.87	0.56
2:BR:167:VAL:HG23	3:CR:131:PHE:HA	1.88	0.56
3:CR:78:ASP:OD1	3:CR:207:GLU:HB3	2.05	0.56
3:CS:256:HIS:HB2	4:FT:104:TYR:CE2	2.41	0.56
4:FS:99:ILE:HB	4:FS:107:ALA:HB3	1.87	0.56
4:F2:127:THR:HG23	4:F2:130:GLU:H	1.69	0.56
2:B5:106:GLY:O	2:B5:109:THR:OG1	2.17	0.56
4:D6:101:ILE:HD13	4:E6:60:ILE:HD13	1.88	0.56
4:F6:127:THR:HG23	4:F6:130:GLU:H	1.71	0.56
3:C9:78:ASP:OD1	3:C9:207:GLU:HB3	2.06	0.56
4:DA:105:LEU:O	4:DA:131:ARG:NH2	2.33	0.56
4:EA:121:ARG:NH1	4:FA:85:SER:O	2.31	0.56
4:FC:96:PRO:HB2	4:FC:108:GLN:HB3	1.87	0.56
4:DF:101:ILE:HD13	4:EF:60:ILE:HD13	1.88	0.56
2:BH:110:LEU:HD11	2:BH:121:LEU:HD23	1.87	0.56
3:CH:283:VAL:HG21	4:DH:114:VAL:HG21	1.87	0.56
4:FH:126:ILE:HD11	4:FH:131:ARG:HH21	1.71	0.56
4:DJ:105:LEU:O	4:DJ:131:ARG:NH2	2.37	0.56
4:FJ:133:ARG:HH12	4:FJ:137:ARG:HH11	1.54	0.56
3:CM:154:ILE:HA	3:CM:157:MET:HE2	1.87	0.56
2:BN:149:PHE:O	2:BN:154:ARG:NH2	2.38	0.56
2:BQ:229:ILE:O	2:BQ:233:MET:HG2	2.06	0.56
2:BQ:245:ARG:HH12	2:BQ:249:ARG:HB2	1.71	0.56
4:FR:90:ASP:OD2	4:FR:137:ARG:NE	2.34	0.56
3:CS:101:ASN:OD1	3:CS:103:ASN:ND2	2.38	0.56
3:CS:102:LEU:HD22	3:CS:115:LEU:HD21	1.87	0.56
4:DU:105:LEU:O	4:DU:131:ARG:NH2	2.37	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:78:ASP:OD1	3:CV:207:GLU:HB3	2.05	0.56
3:CV:283:VAL:HG21	4:DV:114:VAL:HG21	1.87	0.56
4:E2:121:ARG:HH22	4:F2:86:VAL:HA	1.70	0.56
2:B3:106:GLY:N	2:B3:180:ASN:OD1	2.39	0.56
3:C3:78:ASP:OD1	3:C3:207:GLU:HB3	2.05	0.56
2:B4:229:ILE:O	2:B4:233:MET:HG2	2.06	0.56
2:B8:41:MET:HA	2:B8:44:VAL:HB	1.88	0.56
4:D9:131:ARG:NH1	4:E9:59:ASP:OD2	2.39	0.56
1:AC:536:ILE:HA	1:AC:539:MET:HE3	1.87	0.56
4:FD:96:PRO:HB2	4:FD:108:GLN:HB3	1.87	0.56
3:CF:78:ASP:OD1	3:CF:207:GLU:HB3	2.05	0.56
4:EG:130:GLU:HB2	4:EG:133:ARG:HE	1.70	0.56
1:AI:534:GLN:HG3	1:AI:537:ARG:HH21	1.70	0.56
2:BK:127:PRO:HA	2:BK:130:ILE:HD12	1.87	0.56
3:CK:191:ILE:HG23	3:CK:192:THR:HG23	1.88	0.56
4:DK:105:LEU:O	4:DK:131:ARG:NH2	2.38	0.56
4:EM:77:GLU:HA	4:EM:80:ARG:HB2	1.87	0.56
4:EM:132:MET:N	4:EM:132:MET:SD	2.79	0.56
2:BN:155:HIS:O	2:BN:158:MET:HG2	2.06	0.56
2:BN:167:VAL:HG23	3:CN:131:PHE:HA	1.87	0.56
3:CO:78:ASP:OD1	3:CO:207:GLU:HB3	2.05	0.56
1:AS:544:PRO:HB2	2:BS:24:GLU:CD	2.31	0.56
3:CS:78:ASP:OD1	3:CS:207:GLU:HB3	2.05	0.56
2:BU:106:GLY:O	2:BU:109:THR:OG1	2.17	0.56
3:CU:302:LEU:HB3	3:CU:320:LEU:HD23	1.88	0.56
2:BW:139:ARG:HG3	2:BX:201:GLU:OE1	2.06	0.56
3:CX:78:ASP:OD1	3:CX:207:GLU:HB3	2.05	0.56
2:BY:106:GLY:N	2:BY:180:ASN:OD1	2.39	0.56
2:B1:218:VAL:HG11	2:B1:229:ILE:HD12	1.88	0.56
4:D1:105:LEU:O	4:D1:131:ARG:NH2	2.34	0.56
2:B6:9:LYS:O	2:B6:13:LEU:HG	2.05	0.56
3:C6:78:ASP:OD1	3:C6:207:GLU:HB3	2.05	0.56
4:D6:105:LEU:O	4:D6:131:ARG:NH2	2.32	0.56
2:B7:110:LEU:HD11	2:B7:121:LEU:HD23	1.87	0.56
2:B7:167:VAL:HG23	3:C7:131:PHE:HA	1.88	0.56
2:B8:42:ALA:HB2	2:B9:97:ILE:HG23	1.88	0.56
3:C8:78:ASP:OD1	3:C8:207:GLU:HB3	2.05	0.56
3:C8:258:GLU:O	4:F9:102:ASN:ND2	2.33	0.56
2:B9:167:VAL:HG23	3:C9:131:PHE:HA	1.88	0.56
4:F9:132:MET:SD	4:F9:135:LEU:HB3	2.46	0.56
3:CD:78:ASP:OD1	3:CD:207:GLU:HB3	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ED:121:ARG:HH22	4:FD:86:VAL:HA	1.71	0.56
3:CH:256:HIS:HB2	4:FI:104:TYR:CE2	2.41	0.56
4:FK:133:ARG:HH12	4:FK:137:ARG:HH11	1.54	0.56
3:CM:256:HIS:HB2	4:FN:104:TYR:CE2	2.41	0.56
1:AN:551:ILE:HD11	2:BN:29:LEU:HD11	1.87	0.56
1:AO:551:ILE:HD11	2:BO:29:LEU:HD11	1.86	0.56
3:CQ:78:ASP:OD1	3:CQ:207:GLU:HB3	2.06	0.56
3:CU:78:ASP:OD1	3:CU:207:GLU:HB3	2.05	0.56
3:CW:78:ASP:OD1	3:CW:207:GLU:HB3	2.05	0.56
3:CX:112:GLY:HA3	3:CX:223:MET:HE1	1.87	0.56
3:CX:274:GLN:HA	3:CX:277:LYS:HE3	1.88	0.56
4:EY:121:ARG:HH22	4:FY:86:VAL:HA	1.71	0.56
3:C4:274:GLN:HA	3:C4:277:LYS:HE3	1.88	0.55
2:B6:106:GLY:O	2:B6:109:THR:OG1	2.17	0.55
2:B6:245:ARG:HH21	2:B6:321:MET:HB3	1.70	0.55
4:D6:105:LEU:HB3	4:D6:126:ILE:HG21	1.87	0.55
4:F6:70:ARG:HH21	4:F6:137:ARG:HH22	1.54	0.55
2:B7:106:GLY:N	2:B7:180:ASN:OD1	2.39	0.55
2:B8:14:LEU:O	2:B9:76:TYR:OH	2.21	0.55
4:E8:121:ARG:HH22	4:F8:86:VAL:HA	1.70	0.55
2:B9:110:LEU:HD11	2:B9:121:LEU:HD23	1.88	0.55
3:CA:283:VAL:HG21	4:DA:114:VAL:HG21	1.88	0.55
2:BD:41:MET:SD	2:BE:77:LEU:HD22	2.47	0.55
3:CD:302:LEU:HB3	3:CD:320:LEU:HD23	1.87	0.55
3:CG:101:ASN:OD1	3:CG:103:ASN:ND2	2.39	0.55
4:DH:105:LEU:HB3	4:DH:126:ILE:HG21	1.87	0.55
3:CJ:78:ASP:OD1	3:CJ:207:GLU:HB3	2.06	0.55
3:CJ:283:VAL:HG21	4:DJ:114:VAL:HG21	1.87	0.55
4:EK:121:ARG:HH22	4:FK:86:VAL:HA	1.71	0.55
4:EM:73:MET:HE1	4:EM:78:LEU:HD23	1.88	0.55
3:CN:78:ASP:OD1	3:CN:207:GLU:HB3	2.05	0.55
3:CQ:256:HIS:HB2	4:FR:104:TYR:CE2	2.41	0.55
4:ER:74:THR:HG22	4:ER:75:ILE:H	1.70	0.55
3:CT:101:ASN:OD1	3:CT:103:ASN:ND2	2.39	0.55
3:CT:283:VAL:HG21	4:DT:114:VAL:HG21	1.87	0.55
2:BW:9:LYS:O	2:BW:13:LEU:HG	2.06	0.55
2:BW:106:GLY:O	2:BW:109:THR:OG1	2.16	0.55
3:CW:256:HIS:HB2	4:FX:104:TYR:CE2	2.42	0.55
4:EW:121:ARG:NH1	4:FW:85:SER:O	2.32	0.55
1:AX:551:ILE:HD11	2:BX:29:LEU:HD11	1.88	0.55
4:FX:132:MET:SD	4:FX:135:LEU:HB3	2.46	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:97:ILE:HG23	2:BY:42:ALA:HB2	1.89	0.55
2:B3:106:GLY:O	2:B3:109:THR:OG1	2.15	0.55
1:A7:534:GLN:HG3	1:A7:537:ARG:HH21	1.71	0.55
4:E7:121:ARG:NH1	4:F7:85:SER:O	2.31	0.55
3:C9:101:ASN:OD1	3:C9:103:ASN:ND2	2.38	0.55
2:BJ:110:LEU:HD11	2:BJ:121:LEU:HD23	1.88	0.55
2:BK:9:LYS:O	2:BK:13:LEU:HG	2.06	0.55
3:CK:101:ASN:OD1	3:CK:103:ASN:ND2	2.39	0.55
4:FN:133:ARG:HH12	4:FN:137:ARG:HH11	1.52	0.55
2:BQ:9:LYS:O	2:BQ:13:LEU:HG	2.07	0.55
4:ER:75:ILE:HB	4:ER:76:LYS:NZ	2.21	0.55
3:CU:106:HIS:HD2	3:CU:113:THR:HG22	1.72	0.55
3:CU:274:GLN:HA	3:CU:277:LYS:HE3	1.88	0.55
4:EW:121:ARG:HH22	4:FW:86:VAL:HA	1.71	0.55
4:FW:132:MET:SD	4:FW:135:LEU:HB3	2.46	0.55
1:AY:534:GLN:HG3	1:AY:537:ARG:HH21	1.71	0.55
4:E1:90:ASP:O	4:F1:117:LYS:NZ	2.40	0.55
4:E3:121:ARG:HH22	4:F3:86:VAL:HA	1.71	0.55
2:B5:9:LYS:O	2:B5:13:LEU:HG	2.07	0.55
2:B7:229:ILE:O	2:B7:233:MET:HG2	2.05	0.55
3:C8:101:ASN:OD1	3:C8:103:ASN:ND2	2.38	0.55
2:B9:106:GLY:N	2:B9:180:ASN:OD1	2.39	0.55
2:B9:111:ASN:HD21	2:B9:138:LYS:HB2	1.70	0.55
4:EB:77:GLU:HA	4:EB:80:ARG:HB2	1.89	0.55
4:FB:134:ARG:HA	4:FB:137:ARG:HH12	1.71	0.55
2:BC:4:LEU:HD11	2:BC:47:ILE:HD11	1.87	0.55
3:CE:78:ASP:OD1	3:CE:207:GLU:HB3	2.05	0.55
3:CE:101:ASN:OD1	3:CE:103:ASN:ND2	2.39	0.55
3:CG:222:SER:HA	3:CG:225:GLU:HG2	1.89	0.55
3:CI:253:GLN:OE1	4:FJ:131:ARG:NH2	2.39	0.55
3:CI:297:ASP:OD2	4:EJ:72:ARG:NH2	2.39	0.55
1:AJ:534:GLN:HG3	1:AJ:537:ARG:HH21	1.72	0.55
3:CJ:101:ASN:OD1	3:CJ:103:ASN:ND2	2.39	0.55
2:BL:106:GLY:N	2:BL:180:ASN:OD1	2.40	0.55
2:BM:106:GLY:N	2:BM:180:ASN:OD1	2.39	0.55
2:BN:245:ARG:HH12	2:BN:249:ARG:HB2	1.70	0.55
3:CQ:191:ILE:HG23	3:CQ:192:THR:HG23	1.88	0.55
2:BU:9:LYS:O	2:BU:13:LEU:HG	2.05	0.55
3:CV:256:HIS:HB2	4:FW:104:TYR:CE2	2.42	0.55
4:DW:105:LEU:O	4:DW:131:ARG:NH2	2.35	0.55
4:FW:134:ARG:HA	4:FW:137:ARG:HH12	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:297:ASP:OD2	4:E3:72:ARG:NH2	2.40	0.55
2:B3:9:LYS:O	2:B3:13:LEU:HG	2.07	0.55
4:D4:74:THR:N	4:D4:77:GLU:OE2	2.25	0.55
2:B5:110:LEU:HD11	2:B5:121:LEU:HD23	1.88	0.55
4:E7:121:ARG:HH22	4:F7:86:VAL:HA	1.71	0.55
3:C8:256:HIS:HB2	4:F9:104:TYR:CE2	2.42	0.55
4:E8:90:ASP:O	4:F8:117:LYS:NZ	2.39	0.55
2:BA:9:LYS:O	2:BA:13:LEU:HG	2.06	0.55
2:BE:111:ASN:HD21	2:BE:138:LYS:HB2	1.70	0.55
3:CE:258:GLU:OE1	4:DE:72:ARG:NH1	2.38	0.55
2:BF:157:VAL:O	2:BF:161:ILE:HG12	2.05	0.55
4:EG:121:ARG:HH22	4:FG:86:VAL:HA	1.71	0.55
1:AH:548:ALA:HA	2:BH:25:VAL:HG13	1.89	0.55
2:BI:245:ARG:HH21	2:BI:321:MET:HB3	1.72	0.55
3:CL:283:VAL:HG21	4:DL:114:VAL:HG21	1.87	0.55
2:BM:201:GLU:HA	2:BM:204:ASN:HD22	1.71	0.55
3:CM:78:ASP:OD1	3:CM:207:GLU:HB3	2.05	0.55
3:CN:283:VAL:HG21	4:DN:114:VAL:HG21	1.87	0.55
4:EN:121:ARG:HH22	4:FN:86:VAL:HA	1.71	0.55
2:BP:111:ASN:HD21	2:BP:138:LYS:HB2	1.71	0.55
3:CS:191:ILE:HG23	3:CS:192:THR:HG23	1.88	0.55
3:CS:274:GLN:HA	3:CS:277:LYS:HE3	1.89	0.55
2:BV:110:LEU:HD11	2:BV:121:LEU:HD23	1.88	0.55
4:DV:101:ILE:HD13	4:EV:60:ILE:HD13	1.89	0.55
3:CX:256:HIS:HB2	4:FY:104:TYR:CE2	2.42	0.55
4:EX:75:ILE:HA	4:EX:78:LEU:HD12	1.88	0.55
4:FX:127:THR:HG23	4:FX:130:GLU:H	1.70	0.55
2:B1:106:GLY:N	2:B1:180:ASN:OD1	2.40	0.55
4:F1:104:TYR:CE2	3:CY:256:HIS:HB2	2.41	0.55
4:F2:132:MET:SD	4:F2:135:LEU:HB3	2.47	0.55
3:C4:302:LEU:HB3	3:C4:320:LEU:HD23	1.87	0.55
2:B9:9:LYS:O	2:B9:13:LEU:HG	2.07	0.55
4:D9:105:LEU:O	4:D9:131:ARG:NH2	2.32	0.55
3:CA:302:LEU:HB3	3:CA:320:LEU:HD23	1.88	0.55
3:CB:101:ASN:OD1	3:CB:103:ASN:ND2	2.38	0.55
3:CF:256:HIS:HB2	4:FG:104:TYR:CZ	2.41	0.55
1:AG:534:GLN:HG3	1:AG:537:ARG:HH21	1.71	0.55
3:CI:256:HIS:HB2	4:FJ:104:TYR:CE2	2.41	0.55
2:BO:167:VAL:HG23	3:CO:131:PHE:HA	1.88	0.55
3:CU:283:VAL:HG21	4:DU:114:VAL:HG21	1.88	0.55
2:BW:68:ALA:O	2:BW:70:ASN:ND2	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:78:ASP:OD1	3:C2:207:GLU:HB3	2.06	0.55
2:B3:110:LEU:HD11	2:B3:121:LEU:HD23	1.87	0.55
2:B7:9:LYS:O	2:B7:13:LEU:HG	2.07	0.55
4:FA:68:LEU:HA	4:FA:97:LEU:HD23	1.88	0.55
3:CC:300:PRO:HB2	3:CC:321:ILE:HG13	1.89	0.55
4:EC:128:PRO:HG3	4:EC:131:ARG:HH21	1.72	0.55
4:FC:90:ASP:OD2	4:FC:137:ARG:NE	2.30	0.55
2:BD:38:SER:HB3	2:BE:97:ILE:HD11	1.88	0.55
2:BG:9:LYS:O	2:BG:13:LEU:HG	2.06	0.55
1:AJ:532:MET:SD	2:BJ:56:LEU:HD13	2.47	0.55
3:CK:102:LEU:HD22	3:CK:115:LEU:HD21	1.87	0.55
3:CK:256:HIS:HB2	4:FL:104:TYR:CE2	2.41	0.55
3:CO:283:VAL:HG21	4:DO:114:VAL:HG21	1.87	0.55
3:CP:191:ILE:HG23	3:CP:192:THR:HG23	1.89	0.55
4:ER:121:ARG:NH1	4:FR:85:SER:O	2.31	0.55
2:B1:113:MET:HE1	2:B1:117:SER:HB2	1.89	0.55
3:C3:256:HIS:HB2	4:F4:104:TYR:CE2	2.42	0.55
4:F3:132:MET:SD	4:F3:135:LEU:HB3	2.46	0.55
2:B4:9:LYS:O	2:B4:13:LEU:HG	2.06	0.55
2:B4:106:GLY:O	2:B4:109:THR:OG1	2.17	0.55
3:C4:297:ASP:OD2	4:E5:72:ARG:NH2	2.40	0.55
3:C5:154:ILE:HA	3:C5:157:MET:HE2	1.89	0.55
3:C7:78:ASP:OD1	3:C7:207:GLU:HB3	2.05	0.55
4:D9:101:ILE:HD13	4:E9:60:ILE:HD13	1.89	0.55
1:AA:536:ILE:HA	1:AA:539:MET:HE3	1.88	0.55
1:AD:548:ALA:HA	2:BD:25:VAL:HG13	1.89	0.55
4:EG:130:GLU:O	4:EG:133:ARG:HG2	2.07	0.55
1:AH:536:ILE:HA	1:AH:539:MET:HE3	1.88	0.55
2:BH:111:ASN:HD21	2:BH:138:LYS:HB2	1.72	0.55
4:DH:101:ILE:HD13	4:EH:60:ILE:HD13	1.89	0.55
2:BL:157:VAL:O	2:BL:161:ILE:HG12	2.07	0.55
3:CL:78:ASP:OD1	3:CL:207:GLU:HB3	2.05	0.55
3:CL:256:HIS:HB2	4:FM:104:TYR:CE2	2.42	0.55
2:BM:46:GLN:NE2	2:BM:47:ILE:O	2.39	0.55
4:DN:74:THR:N	4:DN:77:GLU:OE2	2.24	0.55
3:CQ:302:LEU:HB3	3:CQ:320:LEU:HD23	1.87	0.55
4:DR:101:ILE:HD13	4:ER:60:ILE:HD13	1.89	0.55
2:BS:218:VAL:HG11	2:BS:229:ILE:HD12	1.89	0.55
2:BU:110:LEU:HD11	2:BU:121:LEU:HD23	1.88	0.55
2:BW:106:GLY:N	2:BW:180:ASN:OD1	2.40	0.55
2:BX:229:ILE:O	2:BX:233:MET:HG2	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:78:ASP:OD1	3:C1:207:GLU:HB3	2.05	0.55
4:E1:92:LEU:HA	4:F1:117:LYS:HD2	1.89	0.55
2:B2:9:LYS:O	2:B2:13:LEU:HG	2.07	0.55
2:B2:41:MET:HA	2:B2:44:VAL:HB	1.89	0.55
4:D3:74:THR:N	4:D3:77:GLU:OE2	2.25	0.55
4:E4:121:ARG:NH1	4:F4:85:SER:O	2.32	0.55
2:B5:111:ASN:HD21	2:B5:138:LYS:HB2	1.72	0.55
4:E5:121:ARG:HH22	4:F5:86:VAL:HA	1.70	0.55
3:C8:191:ILE:HG23	3:C8:192:THR:HG23	1.87	0.55
4:DB:105:LEU:O	4:DB:131:ARG:NH2	2.34	0.55
3:CC:106:HIS:HD2	3:CC:113:THR:HG22	1.72	0.55
1:AD:534:GLN:HG3	1:AD:537:ARG:HH21	1.71	0.55
3:CD:256:HIS:HB2	4:FE:104:TYR:CE2	2.41	0.55
2:BH:106:GLY:N	2:BH:180:ASN:OD1	2.40	0.55
4:EI:64:LEU:HB3	4:FI:71:THR:HB	1.86	0.55
3:CK:78:ASP:OD1	3:CK:207:GLU:HB3	2.05	0.55
2:BL:9:LYS:O	2:BL:13:LEU:HG	2.06	0.55
2:BL:167:VAL:HG23	3:CL:131:PHE:HA	1.89	0.55
2:BN:15:MET:HE1	2:BN:41:MET:HE3	1.88	0.55
2:BP:110:LEU:HD11	2:BP:121:LEU:HD23	1.88	0.55
3:CP:102:LEU:HD22	3:CP:115:LEU:HD21	1.87	0.55
4:DP:104:TYR:CD2	4:EP:61:PRO:HG3	2.42	0.55
2:BQ:167:VAL:HG23	3:CQ:131:PHE:HA	1.89	0.55
4:FQ:126:ILE:HD11	4:FQ:131:ARG:HH21	1.72	0.55
3:CR:274:GLN:HA	3:CR:277:LYS:HE3	1.88	0.55
2:BT:106:GLY:N	2:BT:180:ASN:OD1	2.40	0.55
2:BU:245:ARG:HH12	2:BU:249:ARG:HB2	1.72	0.55
4:EU:121:ARG:HH22	4:FU:86:VAL:HA	1.72	0.55
3:CV:302:LEU:HB3	3:CV:320:LEU:HD23	1.88	0.55
2:BW:149:PHE:O	2:BW:154:ARG:NH2	2.39	0.55
3:CW:106:HIS:HD2	3:CW:113:THR:HG22	1.72	0.55
4:DY:105:LEU:HB3	4:DY:126:ILE:HG21	1.89	0.55
2:B1:9:LYS:O	2:B1:13:LEU:HG	2.07	0.55
3:C2:256:HIS:HB2	4:F3:104:TYR:CE2	2.42	0.55
2:B3:245:ARG:HH12	2:B3:249:ARG:HB2	1.72	0.55
2:B4:245:ARG:HH21	2:B4:321:MET:HB3	1.71	0.55
2:BA:111:ASN:HD21	2:BA:138:LYS:HB2	1.71	0.55
4:DE:105:LEU:O	4:DE:131:ARG:NH2	2.35	0.55
4:FE:105:LEU:HD22	4:FE:126:ILE:HD13	1.89	0.55
4:EF:121:ARG:NH1	4:FF:85:SER:O	2.40	0.55
2:BH:139:ARG:HH22	2:BI:198:THR:HG23	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FH:104:TYR:OH	4:FH:131:ARG:NH1	2.39	0.55
2:BI:111:ASN:HD21	2:BI:138:LYS:HB2	1.70	0.55
2:BJ:46:GLN:NE2	2:BJ:47:ILE:O	2.40	0.55
4:EM:74:THR:HG22	4:EM:75:ILE:H	1.72	0.55
4:FQ:104:TYR:OH	4:FQ:131:ARG:NH1	2.40	0.55
4:DT:105:LEU:O	4:DT:131:ARG:NH2	2.36	0.55
3:CU:106:HIS:CD2	3:CU:113:THR:HG22	2.42	0.55
2:BW:201:GLU:HA	2:BW:204:ASN:HD22	1.72	0.55
2:B2:106:GLY:O	2:B2:109:THR:OG1	2.16	0.55
3:C3:101:ASN:OD1	3:C3:103:ASN:ND2	2.39	0.55
2:B8:245:ARG:HH12	2:B8:249:ARG:HB2	1.70	0.55
4:F8:68:LEU:HA	4:F8:97:LEU:HD23	1.88	0.55
4:DC:101:ILE:HD13	4:EC:60:ILE:HD13	1.89	0.55
3:CF:101:ASN:OD1	3:CF:103:ASN:ND2	2.39	0.55
2:BG:245:ARG:HH21	2:BG:321:MET:HB3	1.72	0.55
2:BH:42:ALA:HB2	2:BI:97:ILE:HG23	1.88	0.55
2:BJ:103:THR:HG21	2:BJ:109:THR:HG23	1.89	0.55
3:CK:283:VAL:HG21	4:DK:114:VAL:HG21	1.88	0.55
1:AL:534:GLN:HG3	1:AL:537:ARG:HH21	1.71	0.55
2:BM:9:LYS:O	2:BM:13:LEU:HG	2.07	0.55
4:FR:99:ILE:HB	4:FR:107:ALA:HB3	1.89	0.55
2:BU:201:GLU:HA	2:BU:204:ASN:HD22	1.72	0.55
2:BV:43:ASN:O	2:BV:45:ARG:NH1	2.39	0.55
2:BX:103:THR:HG21	2:BX:109:THR:HG23	1.89	0.55
2:BY:106:GLY:O	2:BY:109:THR:OG1	2.16	0.55
2:B2:106:GLY:N	2:B2:180:ASN:OD1	2.39	0.54
3:C9:91:GLU:O	3:C9:94:ARG:HG2	2.07	0.54
2:BD:9:LYS:O	2:BD:13:LEU:HG	2.07	0.54
3:CD:297:ASP:OD2	4:EE:72:ARG:NH2	2.38	0.54
2:BF:167:VAL:HG23	3:CF:131:PHE:HA	1.88	0.54
4:DG:131:ARG:NH1	4:EG:59:ASP:OD2	2.40	0.54
4:EH:121:ARG:HH22	4:FH:86:VAL:HA	1.71	0.54
4:FL:133:ARG:HH12	4:FL:137:ARG:HH11	1.54	0.54
3:CM:238:ASN:ND2	3:CN:112:GLY:HA2	2.22	0.54
3:CM:274:GLN:HA	3:CM:277:LYS:HE3	1.88	0.54
2:BN:106:GLY:N	2:BN:180:ASN:OD1	2.39	0.54
3:CN:106:HIS:CD2	3:CN:113:THR:HG22	2.43	0.54
3:CP:256:HIS:HB2	4:FQ:104:TYR:CE2	2.42	0.54
3:CP:283:VAL:HG21	4:DP:114:VAL:HG21	1.88	0.54
3:CR:50:ARG:NH2	3:CR:52:GLN:OE1	2.40	0.54
3:CR:283:VAL:HG21	4:DR:114:VAL:HG21	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DT:74:THR:N	4:DT:77:GLU:OE2	2.24	0.54
4:FT:99:ILE:HB	4:FT:107:ALA:HB3	1.88	0.54
3:CU:191:ILE:HG23	3:CU:192:THR:HG23	1.89	0.54
3:CV:106:HIS:CD2	3:CV:113:THR:HG22	2.42	0.54
2:BW:167:VAL:HG23	3:CW:131:PHE:HA	1.88	0.54
2:BX:9:LYS:O	2:BX:13:LEU:HG	2.07	0.54
2:BY:110:LEU:HD11	2:BY:121:LEU:HD23	1.89	0.54
3:CY:78:ASP:OD1	3:CY:207:GLU:HB3	2.06	0.54
4:F1:102:ASN:ND2	3:CY:258:GLU:O	2.33	0.54
4:E5:121:ARG:NH1	4:F5:85:SER:O	2.31	0.54
3:C7:153:VAL:HG12	3:C7:157:MET:HE2	1.89	0.54
3:C8:283:VAL:HG21	4:D8:114:VAL:HG21	1.89	0.54
3:CA:274:GLN:HA	3:CA:277:LYS:HE3	1.89	0.54
4:FA:133:ARG:HH12	4:FA:137:ARG:HH11	1.55	0.54
2:BB:41:MET:HE3	2:BC:77:LEU:HD22	1.88	0.54
2:BB:167:VAL:HG23	3:CB:131:PHE:HA	1.88	0.54
4:EB:130:GLU:O	4:EB:133:ARG:HG2	2.07	0.54
3:CD:283:VAL:HG21	4:DD:114:VAL:HG21	1.89	0.54
4:DD:102:ASN:ND2	4:ED:61:PRO:O	2.39	0.54
3:CE:91:GLU:O	3:CE:94:ARG:HG2	2.08	0.54
3:CF:91:GLU:O	3:CF:94:ARG:HG2	2.07	0.54
3:CF:106:HIS:HD2	3:CF:113:THR:HG22	1.72	0.54
3:CH:91:GLU:O	3:CH:94:ARG:HG2	2.07	0.54
3:CL:191:ILE:HG23	3:CL:192:THR:HG23	1.89	0.54
3:CM:191:ILE:HG23	3:CM:192:THR:HG23	1.90	0.54
4:FR:126:ILE:HD11	4:FR:131:ARG:HH21	1.73	0.54
3:CS:283:VAL:HG21	4:DS:114:VAL:HG21	1.88	0.54
3:CT:191:ILE:HG23	3:CT:192:THR:HG23	1.90	0.54
1:AU:548:ALA:HA	2:BU:25:VAL:HG13	1.89	0.54
3:CU:297:ASP:OD2	4:EV:72:ARG:NH2	2.40	0.54
4:EV:121:ARG:NH1	4:FV:85:SER:O	2.30	0.54
2:B1:41:MET:HE1	2:B2:77:LEU:HB2	1.90	0.54
2:B1:197:ARG:HA	2:B1:232:GLU:HG2	1.88	0.54
2:B1:245:ARG:HH21	2:B1:321:MET:HB3	1.72	0.54
2:B2:46:GLN:HE22	2:B3:70:ASN:HB3	1.73	0.54
2:B2:46:GLN:HB3	2:B3:66:PHE:CZ	2.42	0.54
3:C7:101:ASN:OD1	3:C7:103:ASN:ND2	2.39	0.54
2:B8:167:VAL:HG23	3:C8:131:PHE:HA	1.89	0.54
3:C9:274:GLN:HA	3:C9:277:LYS:HE3	1.88	0.54
4:FA:99:ILE:HB	4:FA:107:ALA:HB3	1.89	0.54
2:BC:218:VAL:HG11	2:BC:229:ILE:HD12	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:112:GLY:HA3	3:CG:223:MET:HE1	1.88	0.54
3:CH:191:ILE:HG23	3:CH:192:THR:HG23	1.89	0.54
3:CJ:106:HIS:HD2	3:CJ:113:THR:HG22	1.72	0.54
4:FK:68:LEU:HA	4:FK:97:LEU:HD23	1.89	0.54
4:FL:104:TYR:OH	4:FL:131:ARG:NH1	2.40	0.54
4:EO:74:THR:HG22	4:EO:75:ILE:H	1.73	0.54
2:BR:106:GLY:N	2:BR:180:ASN:OD1	2.40	0.54
4:DR:105:LEU:O	4:DR:131:ARG:NH2	2.34	0.54
3:CT:106:HIS:CD2	3:CT:113:THR:HG22	2.43	0.54
4:FU:99:ILE:HB	4:FU:107:ALA:HB3	1.89	0.54
3:CX:191:ILE:HG23	3:CX:192:THR:HG23	1.89	0.54
3:CY:106:HIS:HD2	3:CY:113:THR:HG22	1.72	0.54
3:CY:154:ILE:HA	3:CY:157:MET:HE3	1.88	0.54
4:EY:90:ASP:O	4:FY:117:LYS:NZ	2.39	0.54
4:D1:105:LEU:HB3	4:D1:126:ILE:HG21	1.87	0.54
4:D1:131:ARG:NH1	4:E1:59:ASP:OD2	2.40	0.54
2:B4:4:LEU:HD11	2:B4:47:ILE:HD11	1.89	0.54
3:C5:91:GLU:O	3:C5:94:ARG:HG2	2.08	0.54
3:C6:273:SER:OG	4:D6:58:MET:O	2.12	0.54
4:F6:134:ARG:HA	4:F6:137:ARG:HH12	1.71	0.54
2:BA:113:MET:HE1	2:BA:117:SER:HB2	1.89	0.54
3:CB:91:GLU:O	3:CB:94:ARG:HG2	2.08	0.54
3:CE:106:HIS:HD2	3:CE:113:THR:HG22	1.72	0.54
2:BF:106:GLY:N	2:BF:180:ASN:OD1	2.41	0.54
3:CG:283:VAL:HG21	4:DG:114:VAL:HG21	1.89	0.54
3:CH:302:LEU:HB3	3:CH:320:LEU:HD23	1.88	0.54
3:CI:91:GLU:O	3:CI:94:ARG:HG2	2.08	0.54
3:CK:91:GLU:O	3:CK:94:ARG:HG2	2.08	0.54
4:FM:133:ARG:HH12	4:FM:137:ARG:HH11	1.55	0.54
3:CO:246:TRP:HZ2	4:FP:122:ILE:HD12	1.71	0.54
3:CQ:106:HIS:CD2	3:CQ:113:THR:HG22	2.43	0.54
2:BS:207:LYS:HE3	2:BS:209:GLN:H	1.72	0.54
3:CY:91:GLU:O	3:CY:94:ARG:HG2	2.07	0.54
4:FY:68:LEU:HA	4:FY:97:LEU:HD23	1.90	0.54
4:F1:68:LEU:HA	4:F1:97:LEU:HD23	1.90	0.54
4:F3:99:ILE:HB	4:F3:107:ALA:HB3	1.89	0.54
3:C6:91:GLU:O	3:C6:94:ARG:HG2	2.08	0.54
1:A8:522:ARG:HD2	1:A8:526:ARG:HH21	1.73	0.54
2:BB:106:GLY:N	2:BB:180:ASN:OD1	2.40	0.54
3:CC:91:GLU:O	3:CC:94:ARG:HG2	2.08	0.54
2:BF:9:LYS:O	2:BF:13:LEU:HG	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:536:ILE:HA	1:AG:539:MET:HE3	1.88	0.54
2:BK:149:PHE:O	2:BK:154:ARG:NH2	2.40	0.54
3:CK:302:LEU:HB3	3:CK:320:LEU:HD23	1.88	0.54
3:CL:101:ASN:OD1	3:CL:103:ASN:ND2	2.41	0.54
3:CL:274:GLN:HA	3:CL:277:LYS:HE3	1.88	0.54
3:CO:256:HIS:HB2	4:FP:104:TYR:CE2	2.42	0.54
3:CP:302:LEU:HB3	3:CP:320:LEU:HD23	1.89	0.54
4:EP:90:ASP:O	4:FP:117:LYS:NZ	2.40	0.54
2:BR:42:ALA:HB2	2:BS:97:ILE:HG23	1.90	0.54
3:CR:297:ASP:OD2	4:ES:72:ARG:NH2	2.39	0.54
4:EU:90:ASP:O	4:FU:117:LYS:NZ	2.40	0.54
2:BW:14:LEU:HD13	2:BW:17:ILE:HD11	1.88	0.54
4:EX:121:ARG:HH22	4:FX:86:VAL:HA	1.71	0.54
3:CY:106:HIS:CD2	3:CY:113:THR:HG22	2.43	0.54
3:CY:283:VAL:HG21	4:DY:114:VAL:HG21	1.90	0.54
2:B1:70:ASN:ND2	2:BY:46:GLN:HE21	2.05	0.54
2:B1:106:GLY:O	2:B1:109:THR:OG1	2.17	0.54
2:B4:97:ILE:O	2:B4:100:THR:OG1	2.25	0.54
3:C7:91:GLU:O	3:C7:94:ARG:HG2	2.08	0.54
2:B8:9:LYS:O	2:B8:13:LEU:HG	2.07	0.54
3:C8:91:GLU:O	3:C8:94:ARG:HG2	2.08	0.54
3:CA:53:ALA:O	3:CA:56:ILE:HG22	2.08	0.54
3:CA:91:GLU:O	3:CA:94:ARG:HG2	2.08	0.54
2:BB:9:LYS:O	2:BB:13:LEU:HG	2.08	0.54
4:EE:90:ASP:O	4:FE:117:LYS:NZ	2.40	0.54
3:CG:154:ILE:HA	3:CG:157:MET:HE2	1.89	0.54
1:AI:547:VAL:HG13	2:BI:25:VAL:HG22	1.90	0.54
4:FI:132:MET:HE3	4:FI:136:SER:HB3	1.90	0.54
3:CJ:91:GLU:O	3:CJ:94:ARG:HG2	2.08	0.54
3:CJ:106:HIS:CD2	3:CJ:113:THR:HG22	2.43	0.54
3:CL:299:VAL:HA	4:FL:132:MET:HE2	1.90	0.54
3:CM:106:HIS:CD2	3:CM:113:THR:HG22	2.43	0.54
2:BO:9:LYS:O	2:BO:13:LEU:HG	2.08	0.54
4:EO:121:ARG:HH22	4:FO:86:VAL:HA	1.71	0.54
4:EP:77:GLU:HA	4:EP:80:ARG:HB2	1.88	0.54
3:CQ:91:GLU:O	3:CQ:94:ARG:HG2	2.07	0.54
3:CQ:274:GLN:HA	3:CQ:277:LYS:HE3	1.89	0.54
3:CR:154:ILE:HA	3:CR:157:MET:HE2	1.89	0.54
1:AS:551:ILE:HD11	2:BS:29:LEU:HD11	1.89	0.54
4:FS:126:ILE:HD11	4:FS:131:ARG:HH21	1.73	0.54
2:BW:110:LEU:HD11	2:BW:121:LEU:HD23	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:245:ARG:HH12	2:BY:249:ARG:HB2	1.72	0.54
3:C1:91:GLU:O	3:C1:94:ARG:HG2	2.08	0.54
4:E3:59:ASP:HA	4:F3:76:LYS:NZ	2.23	0.54
4:E5:90:ASP:O	4:F5:117:LYS:NZ	2.40	0.54
4:E6:90:ASP:O	4:F6:117:LYS:NZ	2.41	0.54
2:B8:139:ARG:HH12	2:B9:198:THR:HG23	1.72	0.54
4:F8:134:ARG:HA	4:F8:137:ARG:HH12	1.72	0.54
4:EA:92:LEU:HA	4:FA:117:LYS:HD2	1.89	0.54
3:CE:266:ALA:HB1	3:CE:286:ILE:HG12	1.89	0.54
3:CF:302:LEU:HB3	3:CF:320:LEU:HD23	1.89	0.54
3:CG:91:GLU:O	3:CG:94:ARG:HG2	2.08	0.54
3:CG:302:LEU:HB3	3:CG:320:LEU:HD23	1.88	0.54
4:FG:132:MET:HE1	4:FG:135:LEU:HD22	1.88	0.54
2:BJ:9:LYS:O	2:BJ:13:LEU:HG	2.08	0.54
2:BJ:26:PHE:CD2	2:BK:84:ALA:HB1	2.43	0.54
3:CM:106:HIS:HD2	3:CM:113:THR:HG22	1.73	0.54
3:CM:302:LEU:HB3	3:CM:320:LEU:HD23	1.89	0.54
3:CN:256:HIS:HB2	4:FO:104:TYR:CE2	2.42	0.54
2:BO:267:GLU:HB3	2:BO:269:PRO:HD2	1.90	0.54
2:BQ:106:GLY:N	2:BQ:180:ASN:OD1	2.40	0.54
1:AS:536:ILE:HA	1:AS:539:MET:HE3	1.90	0.54
2:BT:161:ILE:HG22	2:BU:199:ALA:HB2	1.89	0.54
3:CT:106:HIS:HD2	3:CT:113:THR:HG22	1.73	0.54
4:FT:126:ILE:HD11	4:FT:131:ARG:HH21	1.73	0.54
1:AV:555:MET:CE	2:BV:33:GLU:HB3	2.38	0.54
2:BV:9:LYS:O	2:BV:13:LEU:HG	2.08	0.54
3:CW:283:VAL:HG21	4:DW:114:VAL:HG21	1.90	0.54
4:E1:72:ARG:NH2	3:CY:297:ASP:OD2	2.41	0.54
3:C4:91:GLU:O	3:C4:94:ARG:HG2	2.08	0.54
4:F5:96:PRO:HB2	4:F5:108:GLN:HB3	1.90	0.54
2:B6:167:VAL:HG23	3:C6:131:PHE:HA	1.89	0.54
3:C6:106:HIS:HD2	3:C6:113:THR:HG22	1.73	0.54
3:C7:238:ASN:HD22	3:C8:112:GLY:HA2	1.72	0.54
3:CD:274:GLN:HA	3:CD:277:LYS:HE3	1.88	0.54
4:EG:74:THR:HG22	4:EG:75:ILE:H	1.73	0.54
3:CH:99:PRO:HB2	3:CH:184:MET:SD	2.48	0.54
3:CJ:191:ILE:HG23	3:CJ:192:THR:HG23	1.90	0.54
3:CJ:302:LEU:HB3	3:CJ:320:LEU:HD23	1.89	0.54
2:BK:132:THR:O	2:BK:136:HIS:ND1	2.30	0.54
4:FO:126:ILE:HD11	4:FO:131:ARG:HH21	1.72	0.54
3:CR:91:GLU:O	3:CR:94:ARG:HG2	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CS:91:GLU:O	3:CS:94:ARG:HG2	2.07	0.54
4:FV:68:LEU:HA	4:FV:97:LEU:HD23	1.90	0.54
3:CW:106:HIS:CD2	3:CW:113:THR:HG22	2.43	0.54
4:EY:59:ASP:HA	4:FY:76:LYS:NZ	2.23	0.54
4:F1:104:TYR:OH	4:F1:131:ARG:NH1	2.41	0.54
3:C3:191:ILE:HG23	3:C3:192:THR:HG23	1.89	0.54
2:B4:106:GLY:N	2:B4:180:ASN:OD1	2.41	0.54
4:F7:96:PRO:HB2	4:F7:108:GLN:HB3	1.88	0.54
3:CC:153:VAL:HG12	3:CC:157:MET:HE2	1.90	0.54
3:CD:91:GLU:O	3:CD:94:ARG:HG2	2.08	0.54
1:AF:536:ILE:HD13	1:AF:539:MET:HE3	1.90	0.54
3:CF:191:ILE:HG23	3:CF:192:THR:HG23	1.89	0.54
2:BG:26:PHE:CD2	2:BH:84:ALA:HB1	2.43	0.54
2:BG:106:GLY:N	2:BG:180:ASN:OD1	2.41	0.54
2:BG:111:ASN:HD21	2:BG:138:LYS:HB2	1.72	0.54
3:CG:191:ILE:HG23	3:CG:192:THR:HG23	1.89	0.54
2:BJ:139:ARG:HD2	2:BK:202:ILE:HG13	1.90	0.54
4:FJ:104:TYR:OH	4:FJ:131:ARG:NH1	2.40	0.54
2:BK:111:ASN:HD21	2:BK:138:LYS:HB2	1.71	0.54
3:CM:91:GLU:O	3:CM:94:ARG:HG2	2.08	0.54
3:CN:91:GLU:O	3:CN:94:ARG:HG2	2.08	0.54
3:CN:106:HIS:HD2	3:CN:113:THR:HG22	1.72	0.54
3:CN:274:GLN:HA	3:CN:277:LYS:HE3	1.89	0.54
4:EN:121:ARG:NH1	4:FN:85:SER:O	2.31	0.54
2:BP:15:MET:HE1	2:BP:41:MET:HE3	1.90	0.54
3:CQ:154:ILE:HA	3:CQ:157:MET:HE2	1.90	0.54
2:BT:9:LYS:O	2:BT:13:LEU:HG	2.07	0.54
2:BU:167:VAL:HG23	3:CU:131:PHE:HA	1.89	0.54
3:CW:191:ILE:HG23	3:CW:192:THR:HG23	1.90	0.54
4:EW:90:ASP:O	4:FW:117:LYS:NZ	2.41	0.54
4:FW:99:ILE:HB	4:FW:107:ALA:HB3	1.88	0.54
3:CY:99:PRO:HB2	3:CY:184:MET:SD	2.48	0.54
4:E4:59:ASP:HA	4:F4:76:LYS:NZ	2.23	0.54
2:B5:78:ARG:HA	2:B5:94:LEU:HD11	1.90	0.54
2:B6:106:GLY:N	2:B6:180:ASN:OD1	2.40	0.54
3:C7:297:ASP:OD2	4:E8:72:ARG:NH2	2.41	0.54
2:B8:106:GLY:N	2:B8:180:ASN:OD1	2.41	0.54
3:C9:106:HIS:HD2	3:C9:113:THR:HG22	1.73	0.54
4:E9:121:ARG:HH22	4:F9:86:VAL:HA	1.71	0.54
4:EA:90:ASP:O	4:FA:117:LYS:NZ	2.40	0.54
4:FF:68:LEU:HA	4:FF:97:LEU:HD23	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:274:GLN:HA	3:CG:277:LYS:HE3	1.88	0.54
2:BH:167:VAL:HG23	3:CH:131:PHE:HA	1.89	0.54
2:BI:9:LYS:O	2:BI:13:LEU:HG	2.08	0.54
4:EI:92:LEU:HA	4:FI:117:LYS:HD2	1.89	0.54
4:EI:121:ARG:NH1	4:FI:85:SER:O	2.31	0.54
3:CL:91:GLU:O	3:CL:94:ARG:HG2	2.08	0.54
4:EO:121:ARG:NH1	4:FO:85:SER:O	2.31	0.54
2:BP:9:LYS:O	2:BP:13:LEU:HG	2.07	0.54
2:BP:224:GLU:OE2	2:BP:228:LYS:HE3	2.08	0.54
3:CR:53:ALA:O	3:CR:56:ILE:HG22	2.08	0.54
2:BT:48:SER:HB3	2:BU:66:PHE:CD1	2.43	0.54
2:BT:111:ASN:HD21	2:BT:138:LYS:HB2	1.73	0.54
3:CU:256:HIS:HB2	4:FV:104:TYR:CE2	2.43	0.54
3:CX:91:GLU:O	3:CX:94:ARG:HG2	2.08	0.54
2:B1:66:PHE:CD1	2:BY:48:SER:HB3	2.43	0.53
3:C1:106:HIS:CD2	3:C1:113:THR:HG22	2.43	0.53
1:A2:534:GLN:HG3	1:A2:537:ARG:HH21	1.72	0.53
3:C2:106:HIS:HD2	3:C2:113:THR:HG22	1.72	0.53
3:C2:191:ILE:HG23	3:C2:192:THR:HG23	1.89	0.53
2:B3:41:MET:HE1	2:B4:77:LEU:HB2	1.90	0.53
4:D3:131:ARG:NH1	4:E3:59:ASP:OD2	2.41	0.53
4:F3:134:ARG:HA	4:F3:137:ARG:HH12	1.72	0.53
2:B4:209:GLN:O	2:B4:212:GLU:HG2	2.08	0.53
3:C6:99:PRO:HB2	3:C6:184:MET:SD	2.48	0.53
4:E6:121:ARG:HH22	4:F6:86:VAL:HA	1.71	0.53
3:C8:274:GLN:HA	3:C8:277:LYS:HE3	1.90	0.53
4:D8:132:MET:HE1	4:E9:131:ARG:HD2	1.90	0.53
3:CB:274:GLN:HA	3:CB:277:LYS:HE3	1.89	0.53
1:AC:532:MET:HG2	2:BC:56:LEU:HD13	1.90	0.53
2:BC:106:GLY:N	2:BC:180:ASN:OD1	2.41	0.53
4:FC:132:MET:HE1	4:FC:135:LEU:HD22	1.90	0.53
2:BF:218:VAL:HG11	2:BF:229:ILE:HD12	1.90	0.53
2:BJ:109:THR:O	2:BJ:113:MET:HG3	2.08	0.53
4:EJ:90:ASP:O	4:FJ:117:LYS:NZ	2.41	0.53
3:CL:302:LEU:HB3	3:CL:320:LEU:HD23	1.89	0.53
3:CN:102:LEU:HD22	3:CN:115:LEU:HD21	1.89	0.53
4:FO:99:ILE:HB	4:FO:107:ALA:HB3	1.89	0.53
4:DP:105:LEU:O	4:DP:131:ARG:NH2	2.33	0.53
2:BS:9:LYS:O	2:BS:13:LEU:HG	2.08	0.53
4:ES:74:THR:HG22	4:ES:75:ILE:H	1.72	0.53
2:BT:251:LEU:HD13	2:BT:278:MET:HE3	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FU:126:ILE:HD11	4:FU:131:ARG:HH21	1.72	0.53
2:BV:42:ALA:HB2	2:BW:97:ILE:HG23	1.89	0.53
3:CV:99:PRO:HB2	3:CV:184:MET:SD	2.48	0.53
4:EV:59:ASP:HA	4:FV:76:LYS:NZ	2.23	0.53
4:EX:121:ARG:NH1	4:FX:85:SER:O	2.32	0.53
3:C2:106:HIS:CD2	3:C2:113:THR:HG22	2.43	0.53
2:B3:135:VAL:HG11	2:B4:194:GLY:HA3	1.89	0.53
1:A4:547:VAL:HG13	2:B4:25:VAL:HG22	1.90	0.53
3:C4:101:ASN:OD1	3:C4:103:ASN:ND2	2.40	0.53
4:D4:131:ARG:NH1	4:E4:59:ASP:OD2	2.41	0.53
1:A7:548:ALA:HA	2:B7:25:VAL:HG13	1.90	0.53
2:BB:157:VAL:O	2:BB:161:ILE:HG12	2.09	0.53
2:BC:167:VAL:HG23	3:CC:131:PHE:HA	1.89	0.53
3:CC:101:ASN:OD1	3:CC:103:ASN:ND2	2.40	0.53
4:EC:121:ARG:NH1	4:FC:85:SER:O	2.32	0.53
3:CE:106:HIS:CD2	3:CE:113:THR:HG22	2.42	0.53
3:CF:106:HIS:CD2	3:CF:113:THR:HG22	2.43	0.53
4:FG:133:ARG:HH12	4:FG:137:ARG:HH11	1.56	0.53
2:BI:230:ILE:HA	2:BI:233:MET:HG2	1.90	0.53
3:CK:253:GLN:OE1	4:FL:131:ARG:NH2	2.41	0.53
3:CM:253:GLN:OE1	4:FN:131:ARG:NH2	2.40	0.53
4:DN:105:LEU:O	4:DN:131:ARG:NH2	2.37	0.53
2:BQ:46:GLN:NE2	2:BQ:47:ILE:O	2.34	0.53
2:BQ:224:GLU:OE2	2:BQ:228:LYS:HE3	2.09	0.53
4:EU:59:ASP:HA	4:FU:76:LYS:NZ	2.23	0.53
4:EW:73:MET:HE1	4:EW:78:LEU:HD23	1.89	0.53
2:BX:209:GLN:O	2:BX:212:GLU:HG2	2.09	0.53
2:BY:167:VAL:HG23	3:CY:131:PHE:HA	1.89	0.53
3:C1:106:HIS:HD2	3:C1:113:THR:HG22	1.73	0.53
3:C2:91:GLU:O	3:C2:94:ARG:HG2	2.08	0.53
4:E2:59:ASP:HA	4:F2:76:LYS:NZ	2.24	0.53
3:C3:91:GLU:O	3:C3:94:ARG:HG2	2.08	0.53
4:F8:104:TYR:OH	4:F8:131:ARG:NH1	2.41	0.53
4:F9:68:LEU:HA	4:F9:97:LEU:HD23	1.90	0.53
3:CA:191:ILE:HG23	3:CA:192:THR:HG23	1.89	0.53
4:DA:131:ARG:NH1	4:EA:59:ASP:OD2	2.41	0.53
3:CC:106:HIS:CD2	3:CC:113:THR:HG22	2.43	0.53
4:EE:59:ASP:HA	4:FE:76:LYS:NZ	2.24	0.53
4:FE:126:ILE:HD11	4:FE:131:ARG:HH21	1.73	0.53
2:BG:109:THR:O	2:BG:113:MET:HG3	2.09	0.53
4:EG:121:ARG:NH1	4:FG:85:SER:O	2.33	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FH:99:ILE:HB	4:FH:107:ALA:HB3	1.89	0.53
1:AI:548:ALA:HA	2:BI:25:VAL:HG13	1.91	0.53
2:BJ:43:ASN:O	2:BJ:45:ARG:NH1	2.40	0.53
4:FL:68:LEU:HA	4:FL:97:LEU:HD23	1.90	0.53
3:CN:99:PRO:HB2	3:CN:184:MET:SD	2.48	0.53
3:CN:266:ALA:HB1	3:CN:286:ILE:HG12	1.91	0.53
4:FO:105:LEU:HD22	4:FO:126:ILE:HD13	1.89	0.53
2:BQ:81:LEU:HD12	2:BQ:94:LEU:HG	1.90	0.53
4:EQ:59:ASP:HA	4:FQ:76:LYS:NZ	2.24	0.53
3:CR:258:GLU:HA	4:DR:74:THR:HG22	1.90	0.53
2:BS:167:VAL:HG23	3:CS:131:PHE:HA	1.90	0.53
3:CS:106:HIS:HD2	3:CS:113:THR:HG22	1.73	0.53
2:BV:251:LEU:HD13	2:BV:278:MET:HE3	1.90	0.53
3:CV:266:ALA:HB1	3:CV:286:ILE:HG12	1.90	0.53
3:CW:91:GLU:O	3:CW:94:ARG:HG2	2.08	0.53
2:BX:103:THR:OG1	2:BX:105:SER:O	2.25	0.53
4:DY:106:ILE:HD13	4:EY:60:ILE:HD11	1.90	0.53
2:B1:224:GLU:OE2	2:B1:228:LYS:HE3	2.09	0.53
4:F5:132:MET:HE1	4:F5:135:LEU:HD22	1.89	0.53
2:B7:267:GLU:HB3	2:B7:269:PRO:HD2	1.89	0.53
3:C7:299:VAL:HA	4:F7:132:MET:HE2	1.89	0.53
4:E7:90:ASP:O	4:F7:117:LYS:NZ	2.41	0.53
4:E9:90:ASP:O	4:F9:117:LYS:NZ	2.42	0.53
2:BD:196:VAL:C	2:BD:198:THR:H	2.16	0.53
4:ED:90:ASP:O	4:FD:117:LYS:NZ	2.42	0.53
2:BE:167:VAL:HG23	3:CE:131:PHE:HA	1.89	0.53
3:CH:154:ILE:HA	3:CH:157:MET:HE3	1.88	0.53
3:CI:106:HIS:CD2	3:CI:113:THR:HG22	2.43	0.53
2:BL:209:GLN:O	2:BL:212:GLU:HG2	2.09	0.53
2:BN:9:LYS:O	2:BN:13:LEU:HG	2.07	0.53
3:CO:91:GLU:O	3:CO:94:ARG:HG2	2.08	0.53
3:CQ:281:GLY:HA2	4:DQ:121:ARG:HE	1.72	0.53
3:CT:153:VAL:HG12	3:CT:157:MET:HE2	1.90	0.53
3:CW:297:ASP:OD2	4:EX:72:ARG:NH2	2.42	0.53
2:BX:251:LEU:HD13	2:BX:278:MET:HE3	1.91	0.53
4:EX:74:THR:HG22	4:EX:75:ILE:H	1.72	0.53
2:BY:43:ASN:O	2:BY:45:ARG:NH1	2.38	0.53
4:FY:134:ARG:HA	4:FY:137:ARG:HH12	1.73	0.53
4:D1:74:THR:N	4:D1:77:GLU:OE2	2.25	0.53
2:B3:207:LYS:HE3	2:B3:209:GLN:H	1.71	0.53
4:E3:73:MET:HE1	4:E3:78:LEU:HD23	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:224:GLU:OE2	2:B4:228:LYS:HE3	2.08	0.53
1:A6:547:VAL:HG13	2:B6:25:VAL:HG22	1.90	0.53
3:C6:106:HIS:CD2	3:C6:113:THR:HG22	2.43	0.53
3:C9:106:HIS:CD2	3:C9:113:THR:HG22	2.43	0.53
4:EA:59:ASP:HA	4:FA:76:LYS:NZ	2.24	0.53
3:CC:191:ILE:HG23	3:CC:192:THR:HG23	1.90	0.53
4:EC:90:ASP:O	4:FC:117:LYS:NZ	2.41	0.53
2:BG:295:PRO:HB2	2:BH:330:TYR:HB3	1.90	0.53
4:EH:121:ARG:NH1	4:FH:85:SER:O	2.33	0.53
2:BK:14:LEU:O	2:BL:76:TYR:OH	2.17	0.53
2:BK:167:VAL:HG23	3:CK:131:PHE:HA	1.90	0.53
3:CM:99:PRO:HB2	3:CM:184:MET:SD	2.48	0.53
1:AO:548:ALA:HA	2:BO:25:VAL:HG13	1.90	0.53
2:BO:110:LEU:HD11	2:BO:121:LEU:HD23	1.89	0.53
3:CP:91:GLU:O	3:CP:94:ARG:HG2	2.08	0.53
3:CQ:53:ALA:O	3:CQ:56:ILE:HG22	2.08	0.53
4:DT:73:MET:HE1	4:DT:78:LEU:HA	1.91	0.53
2:BU:218:VAL:HG11	2:BU:229:ILE:HD12	1.91	0.53
4:FV:133:ARG:HH12	4:FV:137:ARG:HH11	1.55	0.53
2:BX:106:GLY:O	2:BX:109:THR:OG1	2.18	0.53
2:B3:149:PHE:O	2:B3:154:ARG:NH2	2.40	0.53
3:C4:258:GLU:O	4:F5:102:ASN:ND2	2.34	0.53
1:A5:522:ARG:HD2	1:A5:526:ARG:HH21	1.74	0.53
4:F5:132:MET:SD	4:F5:135:LEU:HB3	2.49	0.53
1:A6:522:ARG:HD2	1:A6:526:ARG:HH21	1.74	0.53
1:A8:553:GLN:O	1:A8:557:ASN:ND2	2.42	0.53
2:B8:116:GLN:HA	2:B8:148:LEU:HD13	1.91	0.53
4:E8:59:ASP:HA	4:F8:76:LYS:NZ	2.24	0.53
2:BB:166:GLY:O	2:BC:190:ARG:NE	2.31	0.53
2:BC:251:LEU:HD13	2:BC:278:MET:HE3	1.91	0.53
3:CD:99:PRO:HB2	3:CD:184:MET:SD	2.48	0.53
3:CD:179:TYR:OH	3:CD:182:SER:OG	2.23	0.53
3:CD:191:ILE:HG23	3:CD:192:THR:HG23	1.89	0.53
4:FE:133:ARG:HH12	4:FE:137:ARG:HH11	1.57	0.53
4:FE:134:ARG:HA	4:FE:137:ARG:HH12	1.73	0.53
3:CH:106:HIS:CD2	3:CH:113:THR:HG22	2.43	0.53
4:FH:68:LEU:HA	4:FH:97:LEU:HD23	1.89	0.53
2:BJ:245:ARG:HH12	2:BJ:249:ARG:HB2	1.73	0.53
3:CM:53:ALA:O	3:CM:56:ILE:HG22	2.09	0.53
4:EN:90:ASP:O	4:FN:117:LYS:NZ	2.41	0.53
3:CO:102:LEU:HD22	3:CO:115:LEU:HD21	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:153:VAL:HG12	3:CO:157:MET:HE2	1.90	0.53
1:AQ:534:GLN:HG3	1:AQ:537:ARG:HH21	1.73	0.53
2:BR:132:THR:O	2:BR:136:HIS:ND1	2.39	0.53
2:BT:167:VAL:HG23	3:CT:131:PHE:HA	1.89	0.53
4:DT:131:ARG:NH1	4:ET:59:ASP:OD2	2.41	0.53
3:CV:91:GLU:O	3:CV:94:ARG:HG2	2.08	0.53
4:FW:126:ILE:HD11	4:FW:131:ARG:HH21	1.74	0.53
2:B1:41:MET:HA	2:B1:44:VAL:HB	1.90	0.53
1:A2:522:ARG:HD2	1:A2:526:ARG:HH21	1.74	0.53
2:B3:267:GLU:HB3	2:B3:269:PRO:HD2	1.90	0.53
2:B6:103:THR:HG21	2:B6:109:THR:HG23	1.91	0.53
3:C8:106:HIS:CD2	3:C8:113:THR:HG22	2.44	0.53
3:C9:154:ILE:HA	3:C9:157:MET:HE2	1.90	0.53
4:F9:96:PRO:HB2	4:F9:108:GLN:HB3	1.91	0.53
1:AA:522:ARG:HD2	1:AA:526:ARG:HH21	1.74	0.53
3:CA:50:ARG:NH2	3:CA:52:GLN:OE1	2.41	0.53
4:DB:131:ARG:NH1	4:EB:59:ASP:OD2	2.42	0.53
3:CD:106:HIS:CD2	3:CD:113:THR:HG22	2.42	0.53
2:BE:116:GLN:HA	2:BE:148:LEU:HD13	1.90	0.53
3:CI:191:ILE:HG23	3:CI:192:THR:HG23	1.91	0.53
4:EI:132:MET:N	4:EI:132:MET:SD	2.80	0.53
2:BK:150:ASP:N	2:BK:150:ASP:OD1	2.41	0.53
4:EL:74:THR:HG22	4:EL:75:ILE:H	1.74	0.53
3:CM:179:TYR:OH	3:CM:182:SER:OG	2.23	0.53
2:BO:78:ARG:HA	2:BO:94:LEU:HD11	1.90	0.53
4:EO:90:ASP:O	4:FO:117:LYS:NZ	2.40	0.53
2:BQ:110:LEU:HD11	2:BQ:121:LEU:HD23	1.91	0.53
1:AS:522:ARG:HD2	1:AS:526:ARG:HH21	1.74	0.53
4:ES:121:ARG:NH1	4:FS:85:SER:O	2.31	0.53
3:CT:274:GLN:HA	3:CT:277:LYS:HE3	1.90	0.53
3:C2:53:ALA:O	3:C2:56:ILE:HG22	2.09	0.53
2:B8:103:THR:HG21	2:B8:109:THR:HG23	1.90	0.53
1:AC:547:VAL:HG13	2:BC:25:VAL:HG22	1.90	0.53
1:AF:522:ARG:HD2	1:AF:526:ARG:HH21	1.74	0.53
1:AH:553:GLN:O	1:AH:557:ASN:ND2	2.41	0.53
2:BH:245:ARG:HH12	2:BH:249:ARG:HB2	1.72	0.53
2:BI:113:MET:HE1	2:BI:117:SER:HB2	1.90	0.53
1:AK:522:ARG:HD2	1:AK:526:ARG:HH21	1.74	0.53
1:AM:522:ARG:HD2	1:AM:526:ARG:HH21	1.74	0.53
4:EM:59:ASP:HA	4:FM:76:LYS:NZ	2.24	0.53
1:AN:522:ARG:HD2	1:AN:526:ARG:HH21	1.74	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:179:TYR:OH	3:CN:182:SER:OG	2.22	0.53
4:DO:131:ARG:NH1	4:EO:59:ASP:OD2	2.42	0.53
4:FO:134:ARG:HA	4:FO:137:ARG:HH12	1.74	0.53
4:EP:121:ARG:NH1	4:FP:85:SER:O	2.31	0.53
3:CS:53:ALA:O	3:CS:56:ILE:HG22	2.09	0.53
3:CS:106:HIS:CD2	3:CS:113:THR:HG22	2.43	0.53
4:ES:90:ASP:O	4:FS:117:LYS:NZ	2.40	0.53
4:FS:134:ARG:HA	4:FS:137:ARG:HH12	1.74	0.53
2:BT:229:ILE:O	2:BT:233:MET:HG2	2.08	0.53
3:CT:91:GLU:O	3:CT:94:ARG:HG2	2.08	0.53
3:CU:99:PRO:HB2	3:CU:184:MET:SD	2.48	0.53
2:BV:15:MET:HE1	2:BV:41:MET:HE3	1.90	0.53
3:CV:106:HIS:HD2	3:CV:113:THR:HG22	1.72	0.53
4:EV:90:ASP:O	4:FV:117:LYS:NZ	2.42	0.53
3:CY:191:ILE:HG23	3:CY:192:THR:HG23	1.91	0.53
1:A4:534:GLN:HG3	1:A4:537:ARG:HH21	1.74	0.53
3:C4:53:ALA:O	3:C4:56:ILE:HG22	2.09	0.53
3:C5:191:ILE:HG23	3:C5:192:THR:HG23	1.90	0.53
4:E5:59:ASP:HA	4:F5:76:LYS:NZ	2.24	0.53
1:A6:532:MET:HG2	2:B6:56:LEU:HD13	1.91	0.53
3:C7:191:ILE:HG23	3:C7:192:THR:HG23	1.90	0.53
3:C7:266:ALA:HB1	3:C7:286:ILE:HG12	1.90	0.53
4:F7:134:ARG:HA	4:F7:137:ARG:HH12	1.73	0.53
2:B9:245:ARG:HH12	2:B9:249:ARG:HB2	1.73	0.53
1:AC:522:ARG:HD2	1:AC:526:ARG:HH21	1.74	0.53
2:BD:106:GLY:N	2:BD:180:ASN:OD1	2.42	0.53
2:BE:43:ASN:O	2:BE:45:ARG:NH1	2.42	0.53
2:BE:103:THR:HG21	2:BE:109:THR:HG23	1.91	0.53
3:CG:53:ALA:O	3:CG:56:ILE:HG22	2.09	0.53
1:AH:522:ARG:HD2	1:AH:526:ARG:HH21	1.74	0.53
3:CH:106:HIS:HD2	3:CH:113:THR:HG22	1.74	0.53
2:BK:109:THR:O	2:BK:113:MET:HG3	2.09	0.53
4:EK:121:ARG:NH1	4:FK:85:SER:O	2.32	0.53
1:AL:522:ARG:HD2	1:AL:526:ARG:HH21	1.74	0.53
2:BM:78:ARG:HA	2:BM:94:LEU:HD11	1.90	0.53
3:CM:238:ASN:HD22	3:CN:112:GLY:HA2	1.74	0.53
4:FP:133:ARG:HH12	4:FP:137:ARG:HH11	1.55	0.53
4:ER:90:ASP:O	4:FR:117:LYS:NZ	2.40	0.53
4:ER:92:LEU:HA	4:FR:117:LYS:HD2	1.90	0.53
2:BS:139:ARG:HG2	2:BT:202:ILE:HG12	1.90	0.53
1:AT:536:ILE:HD13	1:AT:539: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:ET:90:ASP:O	4:FT:117:LYS:NZ	2.42	0.53
2:BV:106:GLY:O	2:BV:109:THR:OG1	2.20	0.53
1:AW:536:ILE:HD13	1:AW:539:MET:HE3	1.89	0.53
2:BX:218:VAL:HG11	2:BX:229:ILE:HD12	1.91	0.53
4:EX:90:ASP:O	4:FX:117:LYS:NZ	2.41	0.53
3:C1:274:GLN:HA	3:C1:277:LYS:HE3	1.90	0.53
2:B3:46:GLN:HB2	1:A4:549:LEU:HD22	1.89	0.53
4:F4:126:ILE:HD11	4:F4:131:ARG:HH21	1.73	0.53
3:C6:53:ALA:O	3:C6:56:ILE:HG22	2.09	0.53
3:C6:191:ILE:HG23	3:C6:192:THR:HG23	1.90	0.53
2:B7:253:GLU:OE1	2:B7:314:ARG:NH2	2.42	0.53
2:B8:110:LEU:HD11	2:B8:121:LEU:HD23	1.90	0.53
2:B8:218:VAL:HG11	2:B8:229:ILE:HD12	1.90	0.53
4:E9:74:THR:HG22	4:E9:75:ILE:H	1.74	0.53
4:FD:68:LEU:HA	4:FD:97:LEU:HD23	1.91	0.53
2:BE:136:HIS:CD2	2:BF:193:MET:HE2	2.43	0.53
4:FF:133:ARG:HH12	4:FF:137:ARG:HH11	1.57	0.53
1:AG:522:ARG:HD2	1:AG:526:ARG:HH21	1.74	0.53
4:DG:101:ILE:HG22	4:DG:106:ILE:HB	1.91	0.53
2:BK:158:MET:HE3	2:BL:214:VAL:CG1	2.36	0.53
2:BL:201:GLU:HA	2:BL:204:ASN:HD22	1.72	0.53
1:AO:522:ARG:HD2	1:AO:526:ARG:HH21	1.74	0.53
4:EO:128:PRO:HG3	4:EO:131:ARG:HH21	1.74	0.53
2:BP:305:GLN:O	2:BP:309:LEU:HG	2.09	0.53
4:FP:99:ILE:HB	4:FP:107:ALA:HB3	1.90	0.53
2:BR:37:LEU:O	2:BR:41:MET:HG2	2.10	0.53
4:FR:65:THR:HG23	4:FR:100:LEU:HB2	1.91	0.53
3:CU:91:GLU:O	3:CU:94:ARG:HG2	2.08	0.53
4:DV:106:ILE:HD13	4:EV:60:ILE:HD11	1.91	0.53
3:CW:53:ALA:O	3:CW:56:ILE:HG22	2.09	0.53
3:CX:297:ASP:OD2	4:EY:72:ARG:NH2	2.42	0.53
4:DY:99:ILE:HD12	4:DY:107:ALA:HB3	1.91	0.53
4:DY:101:ILE:HD13	4:EY:60:ILE:HD13	1.91	0.53
4:E6:121:ARG:NH1	4:F6:85:SER:O	2.32	0.52
1:A8:534:GLN:HG3	1:A8:537:ARG:HH21	1.74	0.52
3:C9:53:ALA:O	3:C9:56:ILE:HG22	2.09	0.52
3:CA:106:HIS:CD2	3:CA:113:THR:HG22	2.44	0.52
1:AD:522:ARG:HD2	1:AD:526:ARG:HH21	1.75	0.52
4:FG:96:PRO:HB2	4:FG:108:GLN:HB3	1.90	0.52
1:AH:551:ILE:HD11	2:BH:29:LEU:HD11	1.89	0.52
2:BH:218:VAL:HG11	2:BH:229:ILE:HD12	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:53:ALA:O	3:CI:56:ILE:HG22	2.09	0.52
4:FI:132:MET:SD	4:FI:135:LEU:HB3	2.49	0.52
2:BK:85:LEU:HB3	2:BK:89:ARG:HB2	1.91	0.52
4:EK:75:ILE:HA	4:EK:78:LEU:HD12	1.90	0.52
1:AM:548:ALA:HA	2:BM:25:VAL:HG13	1.90	0.52
2:BM:42:ALA:HB2	2:BN:97:ILE:HG23	1.91	0.52
4:EM:90:ASP:O	4:FM:117:LYS:NZ	2.41	0.52
4:FN:65:THR:HG23	4:FN:100:LEU:HB2	1.90	0.52
4:EO:59:ASP:HA	4:FO:76:LYS:NZ	2.24	0.52
1:AP:553:GLN:O	1:AP:557:ASN:ND2	2.41	0.52
2:BP:103:THR:HG21	2:BP:109:THR:HG23	1.90	0.52
2:BR:9:LYS:O	2:BR:13:LEU:HG	2.08	0.52
3:CR:102:LEU:HD22	3:CR:115:LEU:HD21	1.90	0.52
3:CR:106:HIS:CD2	3:CR:113:THR:HG22	2.44	0.52
1:AT:522:ARG:HD2	1:AT:526:ARG:HH21	1.74	0.52
4:EU:73:MET:HE1	4:EU:78:LEU:HD23	1.91	0.52
2:BX:42:ALA:HB2	2:BY:97:ILE:HG23	1.91	0.52
2:BX:116:GLN:HA	2:BX:148:LEU:HD13	1.91	0.52
3:C1:53:ALA:O	3:C1:56:ILE:HG22	2.10	0.52
2:B2:224:GLU:OE2	2:B2:228:LYS:HE3	2.09	0.52
2:B3:109:THR:O	2:B3:113:MET:HG3	2.09	0.52
3:C5:99:PRO:HB2	3:C5:184:MET:SD	2.49	0.52
1:A7:551:ILE:HD11	2:B7:29:LEU:HD11	1.90	0.52
3:C7:53:ALA:O	3:C7:56:ILE:HG22	2.09	0.52
2:B8:139:ARG:HG2	2:B9:201:GLU:HG2	1.90	0.52
3:CB:266:ALA:HB1	3:CB:286:ILE:HG12	1.90	0.52
1:AC:553:GLN:O	1:AC:557:ASN:ND2	2.43	0.52
2:BD:167:VAL:HG23	3:CD:131:PHE:HA	1.90	0.52
3:CE:53:ALA:O	3:CE:56:ILE:HG22	2.09	0.52
1:AG:547:VAL:HG13	2:BG:25:VAL:HG22	1.91	0.52
3:CI:106:HIS:HD2	3:CI:113:THR:HG22	1.74	0.52
2:BK:46:GLN:HB2	1:AL:549:LEU:HD22	1.92	0.52
2:BK:297:ARG:HG3	2:BK:299:SER:H	1.74	0.52
4:EL:59:ASP:HA	4:FL:76:LYS:NZ	2.24	0.52
4:DM:104:TYR:CD2	4:EM:61:PRO:HG3	2.44	0.52
1:AU:522:ARG:HD2	1:AU:526:ARG:HH21	1.74	0.52
4:EX:55:ASP:HB3	4:EX:57:ILE:HD12	1.91	0.52
3:CY:273:SER:OG	4:DY:58:MET:O	2.12	0.52
2:B1:116:GLN:HA	2:B1:148:LEU:HD13	1.91	0.52
3:C1:191:ILE:HG23	3:C1:192:THR:HG23	1.91	0.52
2:B2:167:VAL:HG23	3:C2:131:PHE:HA	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:106:HIS:CD2	3:C3:113:THR:HG22	2.44	0.52
1:A4:522:ARG:HD2	1:A4:526:ARG:HH21	1.74	0.52
2:B4:109:THR:O	2:B4:113:MET:HG3	2.10	0.52
2:B5:161:ILE:HG22	2:B6:199:ALA:HB2	1.91	0.52
2:B7:245:ARG:HH12	2:B7:249:ARG:HB2	1.74	0.52
4:EG:90:ASP:O	4:FG:117:LYS:NZ	2.42	0.52
3:CK:106:HIS:CD2	3:CK:113:THR:HG22	2.44	0.52
2:BN:116:GLN:HA	2:BN:148:LEU:HD13	1.90	0.52
2:BO:157:VAL:O	2:BO:161:ILE:HG12	2.08	0.52
4:ES:59:ASP:HA	4:FS:76:LYS:NZ	2.23	0.52
2:BT:109:THR:O	2:BT:113:MET:HG3	2.09	0.52
2:BT:136:HIS:HE1	2:BT:172:LEU:HD11	1.75	0.52
2:BU:209:GLN:O	2:BU:212:GLU:HG2	2.10	0.52
3:CV:53:ALA:O	3:CV:56:ILE:HG22	2.09	0.52
2:BX:106:GLY:N	2:BX:180:ASN:OD1	2.42	0.52
4:FX:134:ARG:HA	4:FX:137:ARG:HH12	1.73	0.52
4:DY:74:THR:N	4:DY:77:GLU:OE2	2.25	0.52
2:B1:46:GLN:HB2	1:A2:549:LEU:HD13	1.90	0.52
2:B1:111:ASN:HD21	2:B1:138:LYS:HB2	1.74	0.52
3:C1:297:ASP:OD2	4:E2:72:ARG:NH2	2.43	0.52
4:E2:55:ASP:HB3	4:E2:57:ILE:HD12	1.91	0.52
2:B4:103:THR:HG21	2:B4:109:THR:HG23	1.91	0.52
1:A5:547:VAL:HG13	2:B5:25:VAL:HG22	1.90	0.52
3:C5:53:ALA:O	3:C5:56:ILE:HG22	2.10	0.52
4:D5:104:TYR:HB3	4:D5:131:ARG:NH2	2.25	0.52
4:F5:68:LEU:HA	4:F5:97:LEU:HD23	1.90	0.52
3:C7:106:HIS:CD2	3:C7:113:THR:HG22	2.45	0.52
4:E7:59:ASP:HA	4:F7:76:LYS:HZ1	1.74	0.52
3:C9:191:ILE:HG23	3:C9:192:THR:HG23	1.90	0.52
1:AB:522:ARG:HD2	1:AB:526:ARG:HH21	1.74	0.52
2:BB:218:VAL:HG11	2:BB:229:ILE:HD12	1.90	0.52
2:BC:109:THR:O	2:BC:113:MET:HG3	2.10	0.52
3:CD:106:HIS:HD2	3:CD:113:THR:HG22	1.73	0.52
2:BE:224:GLU:OE2	2:BE:228:LYS:HE3	2.10	0.52
4:DF:105:LEU:O	4:DF:131:ARG:NH2	2.35	0.52
4:FG:68:LEU:HA	4:FG:97:LEU:HD23	1.90	0.52
4:EJ:128:PRO:HG3	4:EJ:131:ARG:HH21	1.74	0.52
2:BM:111:ASN:HD21	2:BM:138:LYS:HB2	1.73	0.52
3:CP:257:SER:HB2	4:FQ:102:ASN:HB2	1.91	0.52
2:BR:210:GLN:O	2:BR:214:VAL:HG23	2.09	0.52
2:BS:46:GLN:HB2	1:AT:549:LEU:HD22	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:522:ARG:HD2	1:AW:526:ARG:HH21	1.74	0.52
3:CX:53:ALA:O	3:CX:56:ILE:HG22	2.10	0.52
4:DX:131:ARG:NH1	4:EX:59:ASP:OD2	2.42	0.52
1:AY:553:GLN:O	1:AY:557:ASN:ND2	2.42	0.52
4:FY:96:PRO:HB2	4:FY:108:GLN:HB3	1.91	0.52
1:A1:522:ARG:HD2	1:A1:526:ARG:HH21	1.75	0.52
4:E1:121:ARG:NH1	4:F1:85:SER:O	2.31	0.52
2:B2:31:THR:O	2:B2:35:GLN:HG2	2.10	0.52
2:B3:150:ASP:OD1	2:B3:150:ASP:N	2.41	0.52
2:B3:224:GLU:OE2	2:B3:228:LYS:HE3	2.10	0.52
2:B5:106:GLY:N	2:B5:180:ASN:OD1	2.42	0.52
2:B5:167:VAL:HG23	3:C5:131:PHE:HA	1.91	0.52
1:A7:522:ARG:HD2	1:A7:526:ARG:HH21	1.74	0.52
2:B8:46:GLN:NE2	2:B9:68:ALA:O	2.29	0.52
1:A9:547:VAL:HG13	2:B9:25:VAL:HG22	1.91	0.52
2:B9:116:GLN:HA	2:B9:148:LEU:HD13	1.92	0.52
2:BA:4:LEU:HD11	2:BA:47:ILE:HD11	1.91	0.52
2:BB:151:GLU:HG2	2:BB:155:HIS:CE1	2.45	0.52
3:CB:106:HIS:CD2	3:CB:113:THR:HG22	2.44	0.52
4:EH:74:THR:HG22	4:EH:75:ILE:H	1.75	0.52
4:EI:95:GLU:OE1	4:EI:95:GLU:N	2.36	0.52
1:AJ:549:LEU:HA	1:AJ:552:ARG:HB2	1.90	0.52
4:FN:104:TYR:OH	4:FN:131:ARG:NH1	2.43	0.52
2:BO:253:GLU:OE1	2:BO:314:ARG:NH2	2.43	0.52
2:BQ:15:MET:HE1	2:BQ:41:MET:HE3	1.90	0.52
3:CS:299:VAL:HA	4:FS:132:MET:HE2	1.91	0.52
4:FS:68:LEU:HA	4:FS:97:LEU:HD23	1.92	0.52
3:CV:191:ILE:HG23	3:CV:192:THR:HG23	1.92	0.52
4:FW:68:LEU:HA	4:FW:97:LEU:HD23	1.92	0.52
4:EX:59:ASP:HA	4:FX:76:LYS:NZ	2.24	0.52
4:F1:134:ARG:HA	4:F1:137:ARG:HH12	1.74	0.52
2:B2:109:THR:O	2:B2:113:MET:HG3	2.10	0.52
1:A4:548:ALA:HA	2:B4:25:VAL:HG13	1.91	0.52
4:F4:68:LEU:HA	4:F4:97:LEU:HD23	1.92	0.52
3:C6:299:VAL:HA	4:F6:132:MET:HE2	1.90	0.52
2:B7:116:GLN:HA	2:B7:148:LEU:HD13	1.92	0.52
3:C7:256:HIS:HB2	4:F8:104:TYR:CE2	2.45	0.52
4:F7:68:LEU:HA	4:F7:97:LEU:HD23	1.92	0.52
3:C8:53:ALA:O	3:C8:56:ILE:HG22	2.10	0.52
4:DD:105:LEU:HB2	4:DD:131:ARG:HE	1.74	0.52
4:DE:104:TYR:HB3	4:DE:131:ARG:NH2	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:251:LEU:HD13	2:BK:278:MET:HE3	1.92	0.52
4:EK:59:ASP:HA	4:FK:76:LYS:NZ	2.24	0.52
4:FK:105:LEU:HD22	4:FK:126:ILE:HD13	1.91	0.52
3:CL:53:ALA:O	3:CL:56:ILE:HG22	2.10	0.52
1:AP:522:ARG:HD2	1:AP:526:ARG:HH21	1.74	0.52
4:FQ:68:LEU:HA	4:FQ:97:LEU:HD23	1.92	0.52
2:BS:43:ASN:O	2:BS:45:ARG:NH1	2.40	0.52
4:FT:68:LEU:HA	4:FT:97:LEU:HD23	1.92	0.52
4:EV:128:PRO:HG3	4:EV:131:ARG:HH21	1.75	0.52
4:FX:68:LEU:HA	4:FX:97:LEU:HD23	1.90	0.52
1:A1:548:ALA:HA	2:B1:25:VAL:HG13	1.92	0.52
4:F1:132:MET:SD	4:F1:135:LEU:HB3	2.50	0.52
2:B2:157:VAL:O	2:B2:161:ILE:HG12	2.10	0.52
4:F2:70:ARG:HH21	4:F2:137:ARG:HH22	1.57	0.52
4:F2:134:ARG:HA	4:F2:137:ARG:HH12	1.74	0.52
3:C3:53:ALA:O	3:C3:56:ILE:HG22	2.10	0.52
2:B4:14:LEU:O	2:B5:76:TYR:OH	2.16	0.52
2:B4:167:VAL:HG23	3:C4:131:PHE:HA	1.91	0.52
4:F5:134:ARG:HA	4:F5:137:ARG:HH12	1.74	0.52
1:A6:522:ARG:HD3	2:B7:64:GLU:HG3	1.90	0.52
2:B6:116:GLN:HA	2:B6:148:LEU:HD13	1.91	0.52
1:A9:522:ARG:HD2	1:A9:526:ARG:HH21	1.75	0.52
2:BB:37:LEU:O	2:BB:41:MET:HG2	2.09	0.52
2:BB:201:GLU:HA	2:BB:204:ASN:HD22	1.74	0.52
4:FC:70:ARG:HH21	4:FC:137:ARG:HH22	1.56	0.52
2:BD:116:GLN:HA	2:BD:148:LEU:HD13	1.92	0.52
4:FD:133:ARG:HH12	4:FD:137:ARG:HH11	1.58	0.52
1:AE:522:ARG:HD2	1:AE:526:ARG:HH21	1.74	0.52
4:EE:74:THR:HG22	4:EE:75:ILE:H	1.75	0.52
1:AH:532:MET:HG2	2:BH:56:LEU:HD13	1.91	0.52
4:EH:59:ASP:HA	4:FH:76:LYS:NZ	2.25	0.52
4:FH:133:ARG:HH12	4:FH:137:ARG:HH11	1.57	0.52
1:AJ:522:ARG:HD2	1:AJ:526:ARG:HH21	1.74	0.52
3:CK:53:ALA:O	3:CK:56:ILE:HG22	2.09	0.52
1:AO:547:VAL:HG13	2:BO:25:VAL:HG22	1.91	0.52
4:DP:74:THR:N	4:DP:77:GLU:OE2	2.24	0.52
2:BR:297:ARG:HG3	2:BR:299:SER:H	1.75	0.52
4:ET:58:MET:HE1	4:FT:76:LYS:HD3	1.92	0.52
1:A1:532:MET:HG2	2:B1:56:LEU:HD13	1.91	0.52
2:B1:31:THR:O	2:B1:35:GLN:HG2	2.10	0.52
2:B7:41:MET:HA	2:B7:44:VAL:HB	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E7:59:ASP:HA	4:F7:76:LYS:NZ	2.25	0.52
2:BA:245:ARG:HH12	2:BA:249:ARG:HB2	1.75	0.52
4:FB:65:THR:HG23	4:FB:100:LEU:HB2	1.91	0.52
4:FB:105:LEU:HD22	4:FB:126:ILE:HD13	1.92	0.52
2:BE:11:VAL:O	2:BE:15:MET:HG2	2.09	0.52
3:CF:256:HIS:HB2	4:FG:104:TYR:CE2	2.45	0.52
1:AI:522:ARG:HD2	1:AI:526:ARG:HH21	1.75	0.52
3:CJ:256:HIS:HB2	4:FK:104:TYR:CE2	2.44	0.52
3:CK:106:HIS:HD2	3:CK:113:THR:HG22	1.75	0.52
4:EK:74:THR:HG22	4:EK:75:ILE:H	1.75	0.52
3:CN:53:ALA:O	3:CN:56:ILE:HG22	2.10	0.52
3:CN:101:ASN:OD1	3:CN:103:ASN:ND2	2.43	0.52
2:BO:111:ASN:HD21	2:BO:138:LYS:HB2	1.75	0.52
2:BO:245:ARG:HH12	2:BO:249:ARG:HB2	1.74	0.52
2:BQ:245:ARG:HH21	2:BQ:321:MET:HB2	1.74	0.52
1:AR:522:ARG:HD2	1:AR:526:ARG:HH21	1.74	0.52
1:AR:553:GLN:O	1:AR:557:ASN:ND2	2.42	0.52
2:BR:267:GLU:HB3	2:BR:269:PRO:HD2	1.92	0.52
3:CR:271:ARG:HB2	3:CR:274:GLN:OE1	2.10	0.52
3:CU:179:TYR:OH	3:CU:182:SER:OG	2.24	0.52
2:BV:167:VAL:HG23	3:CV:131:PHE:HA	1.91	0.52
3:CV:273:SER:OG	4:DV:58:MET:O	2.15	0.52
4:DV:74:THR:N	4:DV:77:GLU:OE2	2.25	0.52
2:BW:245:ARG:HH12	2:BW:249:ARG:HB2	1.75	0.52
4:DW:74:THR:N	4:DW:77:GLU:OE2	2.25	0.52
4:DW:101:ILE:HD13	4:EW:60:ILE:HD13	1.92	0.52
4:DX:74:THR:N	4:DX:77:GLU:OE2	2.25	0.52
4:E1:75:ILE:HA	4:E1:78:LEU:HD12	1.92	0.52
3:C4:106:HIS:HD2	3:C4:113:THR:HG22	1.75	0.52
4:F4:96:PRO:HB2	4:F4:108:GLN:HB3	1.92	0.52
4:F5:132:MET:HE3	4:F5:136:SER:HB3	1.91	0.52
3:C8:297:ASP:OD2	4:E9:72:ARG:NH2	2.42	0.52
2:B9:297:ARG:NH2	2:BA:243:ASP:OD2	2.43	0.52
3:C9:281:GLY:HA2	4:D9:121:ARG:HE	1.75	0.52
4:F9:134:ARG:HA	4:F9:137:ARG:HH12	1.74	0.52
2:BA:74:ASN:O	2:BA:77:LEU:HB2	2.10	0.52
2:BA:166:GLY:O	2:BB:190:ARG:NE	2.42	0.52
3:CB:191:ILE:HG23	3:CB:192:THR:HG23	1.91	0.52
4:FB:96:PRO:HB2	4:FB:108:GLN:HB3	1.92	0.52
3:CC:274:GLN:HA	3:CC:277:LYS:HE3	1.90	0.52
4:DE:78:LEU:HA	4:DE:81:LEU:HD23	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:53:ALA:O	3:CF:56:ILE:HG22	2.10	0.52
2:BH:43:ASN:O	2:BH:45:ARG:NH1	2.41	0.52
3:CH:53:ALA:O	3:CH:56:ILE:HG22	2.10	0.52
4:EJ:121:ARG:HH22	4:FJ:86:VAL:HA	1.74	0.52
2:BN:312:VAL:HG13	2:BN:321:MET:HE1	1.90	0.52
4:EP:128:PRO:HG3	4:EP:131:ARG:HH21	1.74	0.52
1:AQ:553:GLN:O	1:AQ:557:ASN:ND2	2.42	0.52
3:CR:106:HIS:HD2	3:CR:113:THR:HG22	1.75	0.52
2:BS:31:THR:O	2:BS:35:GLN:HG2	2.08	0.52
2:BU:31:THR:O	2:BU:35:GLN:HG2	2.09	0.52
2:BW:224:GLU:OE2	2:BW:228:LYS:HE3	2.09	0.52
4:FW:134:ARG:HA	4:FW:137:ARG:NH1	2.25	0.52
2:BX:245:ARG:HH12	2:BX:249:ARG:HB2	1.75	0.52
2:B3:78:ARG:HA	2:B3:94:LEU:HD11	1.91	0.52
2:B3:166:GLY:O	2:B4:190:ARG:NH1	2.33	0.52
3:C3:106:HIS:HD2	3:C3:113:THR:HG22	1.75	0.52
3:C3:297:ASP:OD2	4:E4:72:ARG:NH2	2.43	0.52
2:B4:78:ARG:HG3	2:B4:94:LEU:HD11	1.91	0.52
3:C4:281:GLY:HA2	4:D4:121:ARG:HE	1.75	0.52
1:A7:553:GLN:O	1:A7:557:ASN:ND2	2.43	0.52
3:C7:106:HIS:HD2	3:C7:113:THR:HG22	1.75	0.52
4:F8:132:MET:SD	4:F8:135:LEU:HB3	2.50	0.52
3:CD:238:ASN:ND2	3:CE:112:GLY:HA2	2.25	0.52
3:CG:86:ILE:HD13	3:CG:200:VAL:HG22	1.92	0.52
2:BH:267:GLU:HB3	2:BH:269:PRO:HD2	1.92	0.52
4:EJ:59:ASP:HA	4:FJ:76:LYS:NZ	2.25	0.52
2:BL:166:GLY:O	2:BM:190:ARG:NE	2.31	0.52
3:CO:106:HIS:CD2	3:CO:113:THR:HG22	2.45	0.52
2:BP:21:ARG:O	2:BP:25:VAL:HG23	2.10	0.52
4:DQ:101:ILE:HG22	4:DQ:106:ILE:HB	1.92	0.52
3:CU:86:ILE:HD13	3:CU:200:VAL:HG22	1.92	0.52
4:EW:74:THR:HG22	4:EW:75:ILE:H	1.74	0.52
4:F3:105:LEU:HD22	4:F3:126:ILE:HD13	1.93	0.51
4:D9:104:TYR:HB3	4:D9:131:ARG:NH2	2.25	0.51
4:FA:105:LEU:HD22	4:FA:126:ILE:HD13	1.93	0.51
4:DF:131:ARG:NH1	4:EF:59:ASP:OD2	2.43	0.51
2:BG:167:VAL:HG23	3:CG:131:PHE:HA	1.91	0.51
2:BK:38:SER:HA	2:BK:41:MET:HG2	1.92	0.51
2:BK:224:GLU:OE2	2:BK:228:LYS:HE3	2.10	0.51
4:FK:99:ILE:HB	4:FK:107:ALA:HB3	1.92	0.51
3:CP:53:ALA:O	3:CP:56:ILE:HG22	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FR:70:ARG:HH21	4:FR:137:ARG:HH22	1.58	0.51
3:CT:271:ARG:HB2	3:CT:274:GLN:OE1	2.10	0.51
3:CW:271:ARG:HB2	3:CW:274:GLN:OE1	2.11	0.51
4:F2:99:ILE:HB	4:F2:107:ALA:HB3	1.90	0.51
4:F6:68:LEU:HA	4:F6:97:LEU:HD23	1.92	0.51
3:C7:273:SER:OG	4:D7:58:MET:O	2.15	0.51
3:CB:53:ALA:O	3:CB:56:ILE:HG22	2.10	0.51
4:EB:59:ASP:HA	4:FB:76:LYS:NZ	2.26	0.51
4:FC:133:ARG:HH12	4:FC:137:ARG:HH11	1.58	0.51
1:AD:553:GLN:O	1:AD:557:ASN:ND2	2.44	0.51
2:BF:116:GLN:HA	2:BF:148:LEU:HD13	1.91	0.51
4:EI:59:ASP:HA	4:FI:76:LYS:NZ	2.25	0.51
4:FJ:96:PRO:HB2	4:FJ:108:GLN:HB3	1.91	0.51
3:CM:86:ILE:HD13	3:CM:200:VAL:HG22	1.92	0.51
4:EM:128:PRO:HG3	4:EM:131:ARG:HH21	1.74	0.51
4:FM:105:LEU:HD22	4:FM:126:ILE:HD13	1.92	0.51
3:CO:53:ALA:O	3:CO:56:ILE:HG22	2.09	0.51
2:BQ:42:ALA:HB2	2:BR:97:ILE:HG23	1.92	0.51
2:BS:157:VAL:O	2:BS:161:ILE:HG12	2.09	0.51
2:BT:297:ARG:HG3	2:BT:299:SER:H	1.76	0.51
2:BU:139:ARG:HD2	2:BV:202:ILE:HA	1.91	0.51
3:CY:53:ALA:O	3:CY:56:ILE:HG22	2.11	0.51
3:CY:101:ASN:OD1	3:CY:103:ASN:ND2	2.43	0.51
2:B4:116:GLN:HA	2:B4:148:LEU:HD13	1.92	0.51
4:E4:90:ASP:O	4:F4:117:LYS:NZ	2.43	0.51
4:DB:101:ILE:HD13	4:EB:60:ILE:HD13	1.92	0.51
1:AF:553:GLN:O	1:AF:557:ASN:ND2	2.44	0.51
4:FH:105:LEU:HD22	4:FH:126:ILE:HD13	1.92	0.51
3:CI:266:ALA:HB1	3:CI:286:ILE:HG12	1.92	0.51
2:BK:161:ILE:HG22	2:BL:199:ALA:HB2	1.93	0.51
3:CL:106:HIS:HD2	3:CL:113:THR:HG22	1.75	0.51
2:BO:224:GLU:OE2	2:BO:228:LYS:HE3	2.10	0.51
3:CQ:247:ARG:CZ	4:ER:79:LEU:HB3	2.40	0.51
1:AS:547:VAL:HG23	2:BS:59:PHE:CZ	2.42	0.51
2:BT:42:ALA:HB2	2:BU:97:ILE:HG23	1.93	0.51
2:BT:245:ARG:HH12	2:BT:249:ARG:HB2	1.76	0.51
3:CT:148:HIS:O	3:CT:152:ARG:HG2	2.10	0.51
3:CV:86:ILE:HD13	3:CV:200:VAL:HG22	1.93	0.51
3:CX:86:ILE:HD13	3:CX:200:VAL:HG22	1.93	0.51
2:B1:136:HIS:HE1	2:B1:172:LEU:HD11	1.75	0.51
4:E2:74:THR:HG22	4:E2:75:ILE:H	1.74	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:191:ILE:HG23	3:C4:192:THR:HG23	1.92	0.51
3:C5:281:GLY:HA2	4:D5:121:ARG:HE	1.76	0.51
4:F5:105:LEU:HD22	4:F5:126:ILE:HD13	1.93	0.51
4:E8:55:ASP:HB3	4:E8:57:ILE:HD12	1.93	0.51
1:AA:553:GLN:O	1:AA:557:ASN:ND2	2.44	0.51
2:BB:155:HIS:HA	2:BB:158:MET:CE	2.40	0.51
2:BD:218:VAL:HG11	2:BD:229:ILE:HD12	1.92	0.51
3:CF:238:ASN:ND2	3:CG:112:GLY:HA2	2.25	0.51
3:CH:266:ALA:HB1	3:CH:286:ILE:HG12	1.93	0.51
4:DH:131:ARG:NH1	4:EH:59:ASP:OD2	2.44	0.51
2:BI:218:VAL:HG11	2:BI:229:ILE:HD12	1.92	0.51
2:BJ:97:ILE:O	2:BJ:100:THR:OG1	2.28	0.51
4:FJ:68:LEU:HA	4:FJ:97:LEU:HD23	1.90	0.51
3:CL:57:ILE:HG21	3:CL:169:TRP:CD1	2.46	0.51
2:BN:157:VAL:O	2:BN:161:ILE:HG12	2.10	0.51
3:CN:86:ILE:HD13	3:CN:200:VAL:HG22	1.92	0.51
2:BO:116:GLN:HA	2:BO:148:LEU:HD13	1.91	0.51
3:CP:266:ALA:HB1	3:CP:286:ILE:HG12	1.92	0.51
4:FP:104:TYR:OH	4:FP:131:ARG:NH1	2.43	0.51
2:BR:295:PRO:HB2	2:BS:330:TYR:HB3	1.92	0.51
2:BS:267:GLU:HB3	2:BS:269:PRO:HD2	1.93	0.51
3:CV:105:ILE:HG21	3:CV:162:LEU:HD21	1.93	0.51
2:BX:31:THR:O	2:BX:35:GLN:HG2	2.11	0.51
4:FY:70:ARG:HH21	4:FY:137:ARG:HH22	1.57	0.51
4:FY:132:MET:SD	4:FY:135:LEU:HB3	2.50	0.51
4:F3:68:LEU:HA	4:F3:97:LEU:HD23	1.93	0.51
4:F3:96:PRO:HB2	4:F3:108:GLN:HB3	1.92	0.51
3:C6:281:GLY:HA2	4:D6:121:ARG:HE	1.76	0.51
4:E7:75:ILE:HA	4:E7:78:LEU:HD12	1.93	0.51
4:FA:132:MET:HE3	4:FA:136:SER:HB3	1.92	0.51
1:AD:547:VAL:HG13	2:BD:25:VAL:HG22	1.92	0.51
4:FE:96:PRO:HB2	4:FE:108:GLN:HB3	1.92	0.51
4:FI:134:ARG:HA	4:FI:137:ARG:HH12	1.76	0.51
4:FJ:105:LEU:HD22	4:FJ:126:ILE:HD13	1.92	0.51
3:CO:274:GLN:HA	3:CO:277:LYS:HE3	1.92	0.51
3:CQ:106:HIS:HD2	3:CQ:113:THR:HG22	1.74	0.51
2:BS:38:SER:HB3	2:BT:97:ILE:HD11	1.93	0.51
1:AT:553:GLN:O	1:AT:557:ASN:ND2	2.43	0.51
3:CU:271:ARG:HB2	3:CU:274:GLN:OE1	2.11	0.51
2:BV:218:VAL:HG11	2:BV:229:ILE:HD12	1.93	0.51
4:EV:74:THR:HG22	4:EV:75:ILE:H	1.74	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:522:ARG:HD2	1:AX:526:ARG:HH21	1.74	0.51
1:AX:547:VAL:HG23	2:BX:59:PHE:CZ	2.41	0.51
4:EY:74:THR:HG22	4:EY:75:ILE:H	1.74	0.51
4:D2:105:LEU:O	4:D2:131:ARG:NH2	2.38	0.51
3:C6:266:ALA:HB1	3:C6:286:ILE:HG12	1.91	0.51
2:B7:218:VAL:HG11	2:B7:229:ILE:HD12	1.92	0.51
2:BA:224:GLU:OE2	2:BA:228:LYS:HE3	2.10	0.51
2:BB:116:GLN:HA	2:BB:148:LEU:HD13	1.92	0.51
3:CB:281:GLY:HA2	4:DB:121:ARG:HE	1.76	0.51
2:BD:161:ILE:HG22	2:BE:199:ALA:HB2	1.92	0.51
1:AG:553:GLN:O	1:AG:557:ASN:ND2	2.44	0.51
2:BG:21:ARG:O	2:BG:25:VAL:HG23	2.11	0.51
3:CH:271:ARG:HB2	3:CH:274:GLN:OE1	2.11	0.51
2:BI:167:VAL:HG23	3:CI:131:PHE:HA	1.91	0.51
2:BJ:166:GLY:O	2:BK:190:ARG:NE	2.32	0.51
2:BK:267:GLU:HB3	2:BK:269:PRO:HD2	1.93	0.51
3:CL:281:GLY:HA2	4:DL:121:ARG:HE	1.76	0.51
4:EL:90:ASP:O	4:FL:117:LYS:NZ	2.44	0.51
2:BM:116:GLN:HA	2:BM:148:LEU:HD13	1.91	0.51
3:CM:247:ARG:CZ	4:EN:79:LEU:HB3	2.41	0.51
3:CN:271:ARG:HB2	3:CN:274:GLN:OE1	2.10	0.51
3:CP:148:HIS:O	3:CP:152:ARG:HG2	2.11	0.51
3:CR:148:HIS:O	3:CR:152:ARG:HG2	2.10	0.51
4:FR:105:LEU:HD22	4:FR:126:ILE:HD13	1.92	0.51
2:BU:46:GLN:NE2	2:BV:68:ALA:O	2.31	0.51
3:CU:53:ALA:O	3:CU:56:ILE:HG22	2.11	0.51
1:AV:544:PRO:HA	1:AV:547:VAL:HG12	1.92	0.51
2:BW:111:ASN:HD21	2:BW:138:LYS:HB2	1.75	0.51
1:AY:522:ARG:HD2	1:AY:526:ARG:HH21	1.75	0.51
4:EY:121:ARG:NH1	4:FY:85:SER:O	2.33	0.51
1:A3:522:ARG:HD2	1:A3:526:ARG:HH21	1.76	0.51
4:F4:105:LEU:HD22	4:F4:126:ILE:HD13	1.93	0.51
2:B5:68:ALA:O	2:B5:70:ASN:ND2	2.44	0.51
4:D8:131:ARG:NH1	4:E8:59:ASP:OD2	2.43	0.51
4:F8:70:ARG:HH21	4:F8:137:ARG:HH22	1.57	0.51
1:AC:548:ALA:HA	2:BC:25:VAL:HG13	1.92	0.51
3:CD:266:ALA:HB1	3:CD:286:ILE:HG12	1.93	0.51
4:ED:92:LEU:HA	4:FD:117:LYS:HD2	1.93	0.51
2:BE:166:GLY:HA3	2:BF:190:ARG:HG2	1.93	0.51
3:CE:191:ILE:HG23	3:CE:192:THR:HG23	1.92	0.51
2:BG:224:GLU:OE2	2:BG:228:LYS:HE3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EH:90:ASP:O	4:FH:117:LYS:NZ	2.44	0.51
4:FI:126:ILE:HD11	4:FI:131:ARG:HH21	1.76	0.51
2:BJ:139:ARG:HH12	2:BK:198:THR:HA	1.75	0.51
3:CJ:53:ALA:O	3:CJ:56:ILE:HG22	2.10	0.51
3:CK:266:ALA:HB1	3:CK:286:ILE:HG12	1.93	0.51
2:BM:245:ARG:HH12	2:BM:249:ARG:HB2	1.75	0.51
3:CQ:271:ARG:HB2	3:CQ:274:GLN:OE1	2.10	0.51
4:FR:96:PRO:HB2	4:FR:108:GLN:HB3	1.91	0.51
3:CS:271:ARG:HB2	3:CS:274:GLN:OE1	2.11	0.51
3:CU:148:HIS:O	3:CU:152:ARG:HG2	2.11	0.51
1:AV:522:ARG:HD2	1:AV:526:ARG:HH21	1.75	0.51
2:BX:167:VAL:HG23	3:CX:131:PHE:HA	1.91	0.51
2:B1:167:VAL:HG23	3:C1:131:PHE:HA	1.92	0.51
3:C1:271:ARG:HB2	3:C1:274:GLN:OE1	2.11	0.51
4:E2:90:ASP:O	4:F2:117:LYS:NZ	2.42	0.51
4:E3:74:THR:HG22	4:E3:75:ILE:H	1.74	0.51
4:F5:70:ARG:HH21	4:F5:137:ARG:HH22	1.57	0.51
1:A9:534:GLN:HG3	1:A9:537:ARG:HH21	1.76	0.51
1:A9:553:GLN:O	1:A9:557:ASN:ND2	2.44	0.51
3:CB:271:ARG:HB2	3:CB:274:GLN:OE1	2.10	0.51
3:CF:266:ALA:HB1	3:CF:286:ILE:HG12	1.93	0.51
2:BH:38:SER:HB3	2:BI:97:ILE:HD11	1.93	0.51
3:CH:281:GLY:HA2	4:DH:121:ARG:HE	1.76	0.51
3:CJ:258:GLU:HA	4:DJ:74:THR:HA	1.93	0.51
3:CJ:266:ALA:HB1	3:CJ:286:ILE:HG12	1.93	0.51
2:BK:31:THR:O	2:BK:35:GLN:HG2	2.10	0.51
3:CN:148:HIS:O	3:CN:152:ARG:HG2	2.11	0.51
3:CN:238:ASN:ND2	3:CO:112:GLY:HA2	2.25	0.51
3:CN:302:LEU:HB3	3:CN:320:LEU:HD23	1.93	0.51
3:CS:297:ASP:OD2	4:ET:72:ARG:NH2	2.43	0.51
3:CV:148:HIS:O	3:CV:152:ARG:HG2	2.11	0.51
2:BW:116:GLN:HA	2:BW:148:LEU:HD13	1.92	0.51
4:DX:101:ILE:HD13	4:EX:60:ILE:HD13	1.93	0.51
4:FX:96:PRO:HB2	4:FX:108:GLN:HB3	1.92	0.51
4:F1:126:ILE:HD11	4:F1:131:ARG:HH21	1.75	0.51
3:C2:271:ARG:HB2	3:C2:274:GLN:OE1	2.11	0.51
4:F2:68:LEU:HA	4:F2:97:LEU:HD23	1.92	0.51
2:B3:253:GLU:OE1	2:B3:314:ARG:NH2	2.43	0.51
3:C3:271:ARG:HB2	3:C3:274:GLN:OE1	2.10	0.51
3:C6:101:ASN:OD1	3:C6:103:ASN:ND2	2.43	0.51
3:C7:271:ARG:HB2	3:C7:274:GLN:OE1	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:21:ARG:O	2:BA:25:VAL:HG23	2.11	0.51
3:CC:53:ALA:O	3:CC:56:ILE:HG22	2.10	0.51
4:DD:105:LEU:HB3	4:DD:126:ILE:HG21	1.92	0.51
4:EF:55:ASP:HB3	4:EF:57:ILE:HD12	1.93	0.51
3:CG:148:HIS:O	3:CG:152:ARG:HG2	2.11	0.51
4:FI:65:THR:HG23	4:FI:100:LEU:HB2	1.91	0.51
3:CJ:57:ILE:HG21	3:CJ:169:TRP:CD1	2.46	0.51
1:AL:544:PRO:HA	1:AL:547:VAL:HG12	1.93	0.51
4:FL:105:LEU:HD22	4:FL:126:ILE:HD13	1.93	0.51
2:BN:224:GLU:OE2	2:BN:228:LYS:HE3	2.11	0.51
3:CP:271:ARG:HB2	3:CP:274:GLN:OE1	2.11	0.51
4:EQ:67:GLU:OE1	4:EQ:70:ARG:HD2	2.11	0.51
4:EQ:90:ASP:O	4:FQ:117:LYS:NZ	2.43	0.51
2:BU:267:GLU:HB3	2:BU:269:PRO:HD2	1.93	0.51
4:FV:104:TYR:OH	4:FV:131:ARG:NH1	2.44	0.51
4:FW:105:LEU:HD22	4:FW:126:ILE:HD13	1.93	0.51
3:C1:281:GLY:HA2	4:D1:121:ARG:HE	1.76	0.51
2:B3:127:PRO:HB2	2:B3:160:ARG:NE	2.26	0.51
3:C4:57:ILE:HG21	3:C4:169:TRP:CD1	2.46	0.51
2:B9:201:GLU:HA	2:B9:204:ASN:HD22	1.76	0.51
3:CA:238:ASN:HD22	3:CB:112:GLY:HA2	1.76	0.51
3:CA:271:ARG:HB2	3:CA:274:GLN:OE1	2.10	0.51
2:BC:9:LYS:HA	2:BC:12:ILE:HD12	1.93	0.51
4:DC:73:MET:HE1	4:DC:78:LEU:HA	1.92	0.51
3:CD:53:ALA:O	3:CD:56:ILE:HG22	2.10	0.51
4:ED:67:GLU:OE1	4:ED:70:ARG:HD2	2.11	0.51
2:BH:245:ARG:HH21	2:BH:321:MET:HB2	1.76	0.51
3:CH:101:ASN:OD1	3:CH:103:ASN:ND2	2.44	0.51
3:CO:247:ARG:CZ	4:EP:79:LEU:HB3	2.41	0.51
4:DS:74:THR:N	4:DS:77:GLU:OE2	2.25	0.51
4:FT:134:ARG:HA	4:FT:137:ARG:NH1	2.25	0.51
4:FW:96:PRO:HB2	4:FW:108:GLN:HB3	1.92	0.51
1:AX:553:GLN:O	1:AX:557:ASN:ND2	2.43	0.51
2:BY:127:PRO:HB2	2:BY:160:ARG:NE	2.26	0.51
2:BY:267:GLU:HB3	2:BY:269:PRO:HD2	1.92	0.51
4:E1:59:ASP:HA	4:F1:76:LYS:NZ	2.25	0.50
3:C5:271:ARG:HB2	3:C5:274:GLN:OE1	2.11	0.50
3:C7:274:GLN:HA	3:C7:277:LYS:HE3	1.92	0.50
2:B8:31:THR:O	2:B8:35:GLN:HG2	2.10	0.50
3:C9:148:HIS:O	3:C9:152:ARG:HG2	2.11	0.50
4:F9:105:LEU:HD22	4:F9:126:ILE:HD13	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:15:MET:HE3	2:BA:41:MET:HG3	1.94	0.50
2:BA:103:THR:HG21	2:BA:109:THR:HG23	1.91	0.50
4:DA:60:ILE:O	4:DA:62:VAL:HG13	2.12	0.50
2:BD:245:ARG:HH12	2:BD:249:ARG:HB2	1.75	0.50
2:BE:46:GLN:HB2	1:AF:549:LEU:HD22	1.93	0.50
3:CE:57:ILE:HG21	3:CE:169:TRP:CD1	2.45	0.50
4:EE:55:ASP:HB3	4:EE:57:ILE:HD12	1.93	0.50
2:BF:103:THR:HG21	2:BF:109:THR:HG23	1.92	0.50
1:AH:547:VAL:HG13	2:BH:25:VAL:HG22	1.92	0.50
1:AH:549:LEU:HA	1:AH:552:ARG:HB2	1.92	0.50
2:BH:116:GLN:HA	2:BH:148:LEU:HD13	1.92	0.50
2:BI:46:GLN:OE1	1:AJ:549:LEU:HD11	2.11	0.50
3:CL:266:ALA:HB1	3:CL:286:ILE:HG12	1.93	0.50
4:FL:96:PRO:HB2	4:FL:108:GLN:HB3	1.92	0.50
3:CM:57:ILE:HG21	3:CM:169:TRP:CD1	2.46	0.50
3:CM:101:ASN:OD1	3:CM:103:ASN:ND2	2.44	0.50
3:CO:57:ILE:HG21	3:CO:169:TRP:CD1	2.46	0.50
3:CQ:238:ASN:HD22	3:CR:112:GLY:HA2	1.76	0.50
2:BR:297:ARG:CZ	2:BS:328:ASP:HB3	2.41	0.50
3:CS:148:HIS:O	3:CS:152:ARG:HG2	2.11	0.50
4:DT:60:ILE:O	4:DT:62:VAL:HG13	2.11	0.50
2:BU:136:HIS:CD2	2:BV:193:MET:HE2	2.46	0.50
4:DU:74:THR:N	4:DU:77:GLU:OE2	2.25	0.50
4:DU:106:ILE:HD13	4:EU:60:ILE:HD11	1.93	0.50
4:EU:67:GLU:OE1	4:EU:70:ARG:HD2	2.12	0.50
4:EW:55:ASP:HB3	4:EW:57:ILE:HD12	1.93	0.50
4:EW:59:ASP:HA	4:FW:76:LYS:NZ	2.25	0.50
2:BY:116:GLN:HA	2:BY:148:LEU:HD13	1.93	0.50
3:C1:238:ASN:ND2	3:C2:112:GLY:HA2	2.26	0.50
4:D2:60:ILE:O	4:D2:62:VAL:HG13	2.11	0.50
4:E2:67:GLU:OE1	4:E2:70:ARG:HD2	2.12	0.50
4:E3:90:ASP:O	4:F3:117:LYS:NZ	2.43	0.50
2:B5:196:VAL:C	2:B5:198:THR:H	2.19	0.50
1:A6:555:MET:SD	2:B6:33:GLU:HB3	2.51	0.50
2:B6:166:GLY:HA3	2:B7:190:ARG:HG2	1.92	0.50
1:A9:532:MET:HE2	2:B9:56:LEU:CD1	2.40	0.50
3:C9:271:ARG:HB2	3:C9:274:GLN:OE1	2.11	0.50
3:CA:73:LEU:HB3	3:CA:129:ASN:ND2	2.26	0.50
3:CA:106:HIS:HD2	3:CA:113:THR:HG22	1.76	0.50
3:CA:266:ALA:HB1	3:CA:286:ILE:HG12	1.93	0.50
4:FE:134:ARG:HA	4:FE:137:ARG:NH1	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:121:ARG:CZ	4:FF:84:GLY:H	2.24	0.50
4:FF:99:ILE:HB	4:FF:107:ALA:HB3	1.93	0.50
3:CG:57:ILE:HG21	3:CG:169:TRP:CD1	2.46	0.50
4:EI:55:ASP:HB3	4:EI:57:ILE:HD12	1.94	0.50
4:FI:105:LEU:HD22	4:FI:126:ILE:HD13	1.92	0.50
3:CJ:238:ASN:HD22	3:CK:112:GLY:HA2	1.76	0.50
2:BM:31:THR:O	2:BM:35:GLN:HG2	2.11	0.50
4:DM:60:ILE:O	4:DM:62:VAL:HG13	2.12	0.50
3:CN:281:GLY:HA2	4:DN:121:ARG:HE	1.76	0.50
1:AO:553:GLN:O	1:AO:557:ASN:ND2	2.44	0.50
2:BO:103:THR:HG21	2:BO:109:THR:HG23	1.93	0.50
4:DO:60:ILE:O	4:DO:62:VAL:HG13	2.11	0.50
2:BP:166:GLY:HA3	2:BQ:190:ARG:HG2	1.93	0.50
3:CP:299:VAL:HG22	4:FP:132:MET:HE2	1.94	0.50
2:BQ:139:ARG:HD2	2:BR:202:ILE:HG13	1.93	0.50
2:BR:218:VAL:HG11	2:BR:229:ILE:HD12	1.93	0.50
2:BS:41:MET:SD	2:BT:77:LEU:HD22	2.52	0.50
2:BS:224:GLU:OE2	2:BS:228:LYS:HE3	2.11	0.50
3:CS:281:GLY:HA2	4:DS:121:ARG:HE	1.76	0.50
3:CT:53:ALA:O	3:CT:56:ILE:HG22	2.11	0.50
1:AU:553:GLN:O	1:AU:557:ASN:ND2	2.44	0.50
2:BV:267:GLU:HB3	2:BV:269:PRO:HD2	1.93	0.50
3:CW:148:HIS:O	3:CW:152:ARG:HG2	2.11	0.50
3:C2:238:ASN:HD22	3:C3:112:GLY:HA2	1.75	0.50
2:B3:31:THR:O	2:B3:35:GLN:HG2	2.12	0.50
2:B3:251:LEU:HD22	2:B3:278:MET:CG	2.41	0.50
2:B6:224:GLU:OE2	2:B6:228:LYS:HE3	2.11	0.50
3:C6:271:ARG:HB2	3:C6:274:GLN:OE1	2.11	0.50
3:C7:86:ILE:HD13	3:C7:200:VAL:HG22	1.93	0.50
2:B8:242:VAL:O	2:B8:246:SER:OG	2.25	0.50
3:C9:266:ALA:HB1	3:C9:286:ILE:HG12	1.93	0.50
4:DB:60:ILE:O	4:DB:62:VAL:HG13	2.11	0.50
2:BC:93:LEU:O	2:BC:97:ILE:HG12	2.12	0.50
3:CC:271:ARG:HB2	3:CC:274:GLN:OE1	2.11	0.50
3:CE:56:ILE:HD11	3:CF:188:PHE:CD1	2.46	0.50
4:DF:60:ILE:O	4:DF:62:VAL:HG13	2.12	0.50
4:EF:59:ASP:HA	4:FF:76:LYS:NZ	2.26	0.50
2:BG:267:GLU:HB3	2:BG:269:PRO:HD2	1.93	0.50
4:EG:55:ASP:HB3	4:EG:57:ILE:HD12	1.94	0.50
3:CK:57:ILE:HG21	3:CK:169:TRP:CD1	2.46	0.50
4:DK:74:THR:N	4:DK:77:GLU:OE2	2.25	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:75:ILE:HG13	4:FK:58:MET:HG2	1.94	0.50
2:BL:111:ASN:HD21	2:BL:138:LYS:HB2	1.76	0.50
3:CM:266:ALA:HB1	3:CM:286:ILE:HG12	1.93	0.50
4:EM:73:MET:HB3	4:FM:64:LEU:HD23	1.93	0.50
4:FM:96:PRO:HB2	4:FM:108:GLN:HB3	1.92	0.50
4:FN:105:LEU:HD22	4:FN:126:ILE:HD13	1.92	0.50
4:FP:96:PRO:HB2	4:FP:108:GLN:HB3	1.92	0.50
4:FQ:70:ARG:HH21	4:FQ:137:ARG:NH2	2.10	0.50
2:BR:207:LYS:HE3	2:BR:209:GLN:H	1.77	0.50
3:CT:260:GLU:OE1	4:DT:72:ARG:NH2	2.45	0.50
3:CU:238:ASN:ND2	3:CV:112:GLY:HA2	2.25	0.50
3:CU:253:GLN:NE2	4:FV:106:ILE:O	2.43	0.50
1:AW:553:GLN:O	1:AW:557:ASN:ND2	2.44	0.50
3:CW:56:ILE:HD11	3:CX:188:PHE:CD1	2.46	0.50
2:B1:41:MET:HE2	2:B2:77:LEU:HD22	1.94	0.50
2:B1:43:ASN:O	2:B1:45:ARG:NH1	2.42	0.50
3:C2:56:ILE:HD11	3:C3:188:PHE:CD1	2.46	0.50
2:B3:43:ASN:O	2:B3:45:ARG:NH1	2.43	0.50
4:E4:74:THR:HG22	4:E4:75:ILE:H	1.75	0.50
3:C5:106:HIS:CD2	3:C5:113:THR:HG22	2.46	0.50
3:C6:57:ILE:HG21	3:C6:169:TRP:CD1	2.46	0.50
4:D9:60:ILE:O	4:D9:62:VAL:HG13	2.12	0.50
3:CD:271:ARG:HB2	3:CD:274:GLN:OE1	2.11	0.50
3:CE:148:HIS:O	3:CE:152:ARG:HG2	2.10	0.50
3:CE:254:VAL:O	4:DE:75:ILE:HD13	2.11	0.50
2:BF:245:ARG:HH12	2:BF:249:ARG:HB2	1.75	0.50
3:CF:148:HIS:O	3:CF:152:ARG:HG2	2.11	0.50
3:CG:271:ARG:HB2	3:CG:274:GLN:OE1	2.12	0.50
4:DH:60:ILE:O	4:DH:62:VAL:HG13	2.12	0.50
4:EI:75:ILE:HG13	4:FI:58:MET:HG2	1.91	0.50
1:AJ:547:VAL:HG13	2:BJ:25:VAL:HG22	1.93	0.50
2:BK:127:PRO:HB2	2:BK:160:ARG:NE	2.26	0.50
3:CK:271:ARG:HB2	3:CK:274:GLN:OE1	2.11	0.50
4:EK:67:GLU:OE1	4:EK:70:ARG:HD2	2.11	0.50
2:BL:31:THR:O	2:BL:35:GLN:HG2	2.11	0.50
4:DL:104:TYR:CD2	4:EL:61:PRO:HG3	2.46	0.50
3:CM:271:ARG:HB2	3:CM:274:GLN:OE1	2.10	0.50
4:DM:79:LEU:HD12	4:FN:58:MET:HE1	1.93	0.50
2:BN:46:GLN:HE22	2:BO:68:ALA:C	2.19	0.50
3:CN:57:ILE:HG21	3:CN:169:TRP:CD1	2.46	0.50
4:EN:67:GLU:OE1	4:EN:70:ARG:HD2	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:251:LEU:HD22	2:BO:278:MET:CG	2.42	0.50
3:CO:259:LEU:HD21	4:FP:60:ILE:HG21	1.94	0.50
3:CO:266:ALA:HB1	3:CO:286:ILE:HG12	1.93	0.50
4:FP:68:LEU:HA	4:FP:97:LEU:HD23	1.93	0.50
2:BQ:37:LEU:O	2:BQ:41:MET:HG2	2.11	0.50
3:CS:56:ILE:HD11	3:CT:188:PHE:CD1	2.47	0.50
4:FU:68:LEU:HA	4:FU:97:LEU:HD23	1.92	0.50
2:BW:31:THR:O	2:BW:35:GLN:HG2	2.11	0.50
2:BX:267:GLU:HB3	2:BX:269:PRO:HD2	1.93	0.50
4:DX:101:ILE:HG22	4:DX:106:ILE:HB	1.91	0.50
2:B1:190:ARG:HG2	2:BY:166:GLY:HA3	1.92	0.50
3:C2:266:ALA:HB1	3:C2:286:ILE:HG12	1.93	0.50
2:B3:111:ASN:HD21	2:B3:138:LYS:HB2	1.77	0.50
2:B7:43:ASN:O	2:B7:45:ARG:NH1	2.43	0.50
2:B7:251:LEU:HD22	2:B7:278:MET:CG	2.42	0.50
4:D7:104:TYR:CD2	4:E7:61:PRO:HG3	2.47	0.50
3:C8:271:ARG:HB2	3:C8:274:GLN:OE1	2.11	0.50
1:A9:532:MET:SD	1:A9:532:MET:C	2.94	0.50
2:B9:245:ARG:HH21	2:B9:321:MET:HB2	1.76	0.50
2:BA:46:GLN:CG	2:BB:70:ASN:HD22	2.24	0.50
2:BB:267:GLU:HB3	2:BB:269:PRO:HD2	1.94	0.50
2:BC:116:GLN:HA	2:BC:148:LEU:HD13	1.93	0.50
3:CF:86:ILE:HD13	3:CF:200:VAL:HG22	1.93	0.50
2:BG:305:GLN:O	2:BG:309:LEU:HG	2.12	0.50
3:CG:266:ALA:HB1	3:CG:286:ILE:HG12	1.94	0.50
3:CG:281:GLY:HA2	4:DG:121:ARG:HE	1.77	0.50
4:FI:68:LEU:HA	4:FI:97:LEU:HD23	1.92	0.50
2:BJ:305:GLN:O	2:BJ:309:LEU:HG	2.12	0.50
4:DK:60:ILE:O	4:DK:62:VAL:HG13	2.11	0.50
2:BM:305:GLN:O	2:BM:309:LEU:HG	2.12	0.50
4:FN:96:PRO:HB2	4:FN:108:GLN:HB3	1.92	0.50
3:CO:106:HIS:HD2	3:CO:113:THR:HG22	1.76	0.50
4:FO:96:PRO:HB2	4:FO:108:GLN:HB3	1.92	0.50
2:BP:267:GLU:HB3	2:BP:269:PRO:HD2	1.94	0.50
2:BQ:305:GLN:O	2:BQ:309:LEU:HG	2.12	0.50
2:BR:305:GLN:O	2:BR:309:LEU:HG	2.11	0.50
1:AS:544:PRO:HB2	2:BS:24:GLU:OE2	2.12	0.50
2:BS:305:GLN:O	2:BS:309:LEU:HG	2.12	0.50
4:DS:60:ILE:O	4:DS:62:VAL:HG13	2.11	0.50
2:BT:209:GLN:O	2:BT:212:GLU:HG2	2.11	0.50
3:CT:266:ALA:HB1	3:CT:286:ILE:HG12	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FT:96:PRO:HB2	4:FT:108:GLN:HB3	1.92	0.50
2:BU:14:LEU:O	2:BV:76:TYR:OH	2.16	0.50
4:DU:60:ILE:O	4:DU:62:VAL:HG13	2.11	0.50
4:DU:104:TYR:CE1	4:EU:61:PRO:HG3	2.46	0.50
3:CX:148:HIS:O	3:CX:152:ARG:HG2	2.11	0.50
4:FX:70:ARG:HH21	4:FX:137:ARG:HH22	1.59	0.50
2:BY:305:GLN:O	2:BY:309:LEU:HG	2.12	0.50
4:F2:104:TYR:OH	4:F2:131:ARG:NH1	2.45	0.50
2:B4:305:GLN:O	2:B4:309:LEU:HG	2.12	0.50
3:C6:56:ILE:HD11	3:C7:188:PHE:CD1	2.47	0.50
4:D6:104:TYR:HB3	4:D6:131:ARG:NH2	2.27	0.50
4:E8:93:ALA:HB3	4:F8:116:ASP:OD1	2.12	0.50
2:B9:305:GLN:O	2:B9:309:LEU:HG	2.12	0.50
2:BA:116:GLN:HA	2:BA:148:LEU:HD13	1.92	0.50
3:CA:274:GLN:O	3:CA:278:LEU:HB2	2.11	0.50
3:CC:57:ILE:HG21	3:CC:169:TRP:CD1	2.46	0.50
3:CD:184:MET:HE2	3:CD:184:MET:HA	1.94	0.50
2:BE:305:GLN:O	2:BE:309:LEU:HG	2.12	0.50
2:BG:251:LEU:HD13	2:BG:278:MET:HE3	1.94	0.50
4:DG:60:ILE:O	4:DG:62:VAL:HG13	2.12	0.50
2:BH:31:THR:O	2:BH:35:GLN:HG2	2.12	0.50
4:EH:92:LEU:HA	4:FH:117:LYS:HD2	1.93	0.50
2:BI:78:ARG:HA	2:BI:94:LEU:HD11	1.94	0.50
2:BK:305:GLN:O	2:BK:309:LEU:HG	2.12	0.50
4:FO:65:THR:HG23	4:FO:100:LEU:HB2	1.92	0.50
2:BQ:111:ASN:HD21	2:BQ:138:LYS:HB2	1.77	0.50
2:BR:38:SER:HA	2:BR:41:MET:HG2	1.93	0.50
2:BT:218:VAL:HG11	2:BT:229:ILE:HD12	1.93	0.50
4:ET:74:THR:HG22	4:ET:75:ILE:H	1.74	0.50
4:EU:55:ASP:HB3	4:EU:57:ILE:HD12	1.93	0.50
2:BV:245:ARG:HH12	2:BV:249:ARG:HB2	1.76	0.50
2:BV:305:GLN:O	2:BV:309:LEU:HG	2.12	0.50
3:CW:57:ILE:HG21	3:CW:169:TRP:CD1	2.46	0.50
3:CW:316:ARG:HA	4:DW:86:VAL:HA	1.94	0.50
4:EX:67:GLU:OE1	4:EX:70:ARG:HD2	2.12	0.50
3:CY:274:GLN:HA	3:CY:277:LYS:HE3	1.94	0.50
4:FY:105:LEU:HD22	4:FY:126:ILE:HD13	1.93	0.50
3:C3:57:ILE:HG21	3:C3:169:TRP:CD1	2.47	0.50
4:E3:55:ASP:HB3	4:E3:57:ILE:HD12	1.94	0.50
3:C4:238:ASN:ND2	3:C5:112:GLY:HA2	2.27	0.50
4:E5:55:ASP:HB3	4:E5:57:ILE:HD12	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:179:TYR:OH	3:C6:182:SER:OG	2.23	0.50
4:E7:67:GLU:OE1	4:E7:70:ARG:HD2	2.11	0.50
1:A8:547:VAL:HG23	2:B8:59:PHE:CZ	2.43	0.50
2:B8:229:ILE:O	2:B8:233:MET:HG2	2.11	0.50
3:C8:57:ILE:HG21	3:C8:169:TRP:CD1	2.46	0.50
3:CB:297:ASP:OD2	4:EC:72:ARG:NH2	2.44	0.50
2:BC:161:ILE:HG22	2:BD:199:ALA:HB2	1.93	0.50
3:CD:148:HIS:O	3:CD:152:ARG:HG2	2.11	0.50
2:BG:14:LEU:O	2:BH:76:TYR:OH	2.21	0.50
4:EH:67:GLU:OE1	4:EH:70:ARG:HD2	2.12	0.50
2:BI:116:GLN:HA	2:BI:148:LEU:HD13	1.92	0.50
2:BI:166:GLY:HA3	2:BJ:190:ARG:HG2	1.93	0.50
2:BJ:38:SER:HA	2:BJ:41:MET:HG3	1.93	0.50
2:BK:246:SER:O	2:BK:250:LEU:HD23	2.12	0.50
4:EL:67:GLU:OE1	4:EL:70:ARG:HD2	2.12	0.50
2:BM:267:GLU:HB3	2:BM:269:PRO:HD2	1.94	0.50
3:CM:148:HIS:O	3:CM:152:ARG:HG2	2.11	0.50
2:BN:267:GLU:HB3	2:BN:269:PRO:HD2	1.94	0.50
4:EN:92:LEU:HA	4:FN:117:LYS:HD2	1.92	0.50
4:EO:74:THR:O	4:EO:78:LEU:HG	2.11	0.50
4:EP:93:ALA:HB3	4:FP:116:ASP:OD1	2.12	0.50
2:BQ:14:LEU:O	2:BR:76:TYR:OH	2.22	0.50
2:BR:111:ASN:HD21	2:BR:138:LYS:HB2	1.77	0.50
4:DR:78:LEU:HA	4:DR:81:LEU:HD23	1.93	0.50
4:FS:65:THR:HG23	4:FS:100:LEU:HB2	1.94	0.50
2:BT:127:PRO:HB2	2:BT:160:ARG:NE	2.27	0.50
2:BT:305:GLN:O	2:BT:309:LEU:HG	2.11	0.50
3:CV:57:ILE:HG21	3:CV:169:TRP:CD1	2.46	0.50
3:CV:184:MET:HE2	3:CV:184:MET:HA	1.94	0.50
4:FV:96:PRO:HB2	4:FV:108:GLN:HB3	1.92	0.50
4:FW:70:ARG:HH21	4:FW:137:ARG:HH22	1.59	0.50
1:AX:544:PRO:HA	1:AX:547:VAL:HG12	1.94	0.50
2:BX:161:ILE:HG22	2:BY:199:ALA:HB2	1.94	0.50
3:CX:266:ALA:HB1	3:CX:286:ILE:HG12	1.93	0.50
2:BY:245:ARG:HH21	2:BY:321:MET:HB2	1.76	0.50
3:CY:57:ILE:HG21	3:CY:169:TRP:CD1	2.46	0.50
3:C1:112:GLY:HA2	3:CY:238:ASN:ND2	2.27	0.50
3:C3:148:HIS:O	3:C3:152:ARG:HG2	2.11	0.50
4:F4:70:ARG:HH21	4:F4:137:ARG:HH22	1.59	0.50
2:B5:305:GLN:O	2:B5:309:LEU:HG	2.12	0.50
4:E6:77:GLU:HA	4:E6:80:ARG:HB2	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:547:VAL:HG13	2:B7:25:VAL:HG22	1.93	0.50
3:C7:57:ILE:HG21	3:C7:169:TRP:CD1	2.46	0.50
2:B8:305:GLN:O	2:B8:309:LEU:HG	2.12	0.50
3:C8:148:HIS:O	3:C8:152:ARG:HG2	2.11	0.50
4:D8:60:ILE:O	4:D8:62:VAL:HG13	2.12	0.50
4:DC:60:ILE:O	4:DC:62:VAL:HG13	2.11	0.50
4:EC:58:MET:HE1	4:FC:76:LYS:HD3	1.93	0.50
2:BE:267:GLU:HB3	2:BE:269:PRO:HD2	1.94	0.50
3:CF:57:ILE:HG21	3:CF:169:TRP:CD1	2.46	0.50
3:CF:250:LEU:HD21	4:EG:78:LEU:O	2.12	0.50
4:EF:67:GLU:OE1	4:EF:70:ARG:HD2	2.11	0.50
2:BH:103:THR:HG21	2:BH:109:THR:HG23	1.93	0.50
2:BH:305:GLN:O	2:BH:309:LEU:HG	2.12	0.50
4:DI:60:ILE:O	4:DI:62:VAL:HG13	2.12	0.50
3:CJ:271:ARG:HB2	3:CJ:274:GLN:OE1	2.11	0.50
3:CK:274:GLN:HA	3:CK:277:LYS:HE3	1.94	0.50
4:EK:90:ASP:O	4:FK:117:LYS:NZ	2.44	0.50
2:BM:218:VAL:HG11	2:BM:229:ILE:HD12	1.94	0.50
4:DM:105:LEU:O	4:DM:131:ARG:NH2	2.38	0.50
4:FM:68:LEU:HA	4:FM:97:LEU:HD23	1.92	0.50
2:BN:42:ALA:HB2	2:BO:97:ILE:HG23	1.94	0.50
2:BP:31:THR:O	2:BP:35:GLN:HG2	2.11	0.50
2:BP:116:GLN:HA	2:BP:148:LEU:HD13	1.92	0.50
3:CP:51:LEU:HD22	3:CP:231:LEU:HB3	1.94	0.50
1:AQ:522:ARG:HD2	1:AQ:526:ARG:HH21	1.75	0.50
1:AQ:532:MET:HE2	2:BQ:56:LEU:CD1	2.39	0.50
2:BQ:31:THR:O	2:BQ:35:GLN:HG2	2.11	0.50
4:FQ:96:PRO:HB2	4:FQ:108:GLN:HB3	1.92	0.50
2:BU:11:VAL:O	2:BU:15:MET:HG2	2.12	0.50
4:DV:60:ILE:O	4:DV:62:VAL:HG13	2.12	0.50
4:EV:67:GLU:OE1	4:EV:70:ARG:HD2	2.12	0.50
3:CX:57:ILE:HG21	3:CX:169:TRP:CD1	2.46	0.50
2:BY:11:VAL:O	2:BY:15:MET:HG2	2.11	0.50
2:B1:305:GLN:O	2:B1:309:LEU:HG	2.12	0.50
3:C1:266:ALA:HB1	3:C1:286:ILE:HG12	1.92	0.50
4:E1:74:THR:HG22	4:E1:75:ILE:H	1.77	0.50
4:F1:96:PRO:HB2	4:F1:108:GLN:HB3	1.93	0.50
4:F1:132:MET:HE1	4:F1:135:LEU:HD22	1.93	0.50
2:B2:305:GLN:O	2:B2:309:LEU:HG	2.12	0.50
3:C2:148:HIS:O	3:C2:152:ARG:HG2	2.11	0.50
3:C5:148:HIS:O	3:C5:152:ARG:HG2	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:267:GLU:HB3	2:B6:269:PRO:HD2	1.94	0.50
3:C7:148:HIS:O	3:C7:152:ARG:HG2	2.11	0.50
1:A8:532:MET:HG2	1:A8:535:ARG:HH21	1.76	0.50
2:B8:267:GLU:HB3	2:B8:269:PRO:HD2	1.94	0.50
4:F9:70:ARG:HH21	4:F9:137:ARG:HH22	1.59	0.50
3:CA:148:HIS:O	3:CA:152:ARG:HG2	2.12	0.50
3:CB:106:HIS:HD2	3:CB:113:THR:HG22	1.77	0.50
4:FB:70:ARG:HH21	4:FB:137:ARG:NH2	2.10	0.50
4:DD:60:ILE:O	4:DD:62:VAL:HG13	2.11	0.50
1:AE:522:ARG:HD3	2:BF:64:GLU:HG3	1.93	0.50
3:CE:105:ILE:HG21	3:CE:162:LEU:HD21	1.94	0.50
3:CE:238:ASN:ND2	3:CF:112:GLY:HA2	2.27	0.50
4:DE:60:ILE:O	4:DE:62:VAL:HG13	2.11	0.50
2:BI:209:GLN:O	2:BI:212:GLU:HG2	2.12	0.50
2:BI:305:GLN:O	2:BI:309:LEU:HG	2.12	0.50
4:EI:74:THR:HA	4:FI:61:PRO:HA	1.93	0.50
2:BJ:157:VAL:O	2:BJ:161:ILE:HG12	2.11	0.50
4:EJ:74:THR:HG22	4:EJ:75:ILE:H	1.77	0.50
2:BL:267:GLU:HB3	2:BL:269:PRO:HD2	1.93	0.50
3:CL:271:ARG:HB2	3:CL:274:GLN:OE1	2.12	0.50
4:DL:60:ILE:O	4:DL:62:VAL:HG13	2.12	0.50
4:FN:70:ARG:HH21	4:FN:137:ARG:NH2	2.10	0.50
2:BP:37:LEU:O	2:BP:41:MET:HG2	2.11	0.50
2:BQ:127:PRO:HB2	2:BQ:160:ARG:NE	2.27	0.50
3:CQ:148:HIS:O	3:CQ:152:ARG:HG2	2.11	0.50
3:CS:57:ILE:HG21	3:CS:169:TRP:CD1	2.46	0.50
1:AT:534:GLN:HG3	1:AT:537:ARG:HH21	1.77	0.50
2:BT:150:ASP:N	2:BT:150:ASP:OD1	2.41	0.50
4:EV:55:ASP:HB3	4:EV:57:ILE:HD12	1.93	0.50
4:EW:67:GLU:OE1	4:EW:70:ARG:HD2	2.12	0.50
4:FX:105:LEU:HD22	4:FX:126:ILE:HD13	1.94	0.50
2:BY:78:ARG:HA	2:BY:94:LEU:HD11	1.93	0.50
2:BY:196:VAL:C	2:BY:198:THR:H	2.20	0.50
3:CY:105:ILE:HG21	3:CY:162:LEU:HD21	1.94	0.50
4:EY:55:ASP:HB3	4:EY:57:ILE:HD12	1.94	0.50
2:B1:113:MET:SD	2:B1:118:ALA:HB2	2.52	0.49
4:E3:67:GLU:OE1	4:E3:70:ARG:HD2	2.12	0.49
3:C4:266:ALA:HB1	3:C4:286:ILE:HG12	1.93	0.49
4:E5:128:PRO:HG3	4:E5:131:ARG:HH21	1.76	0.49
2:B6:125:GLU:HA	3:C6:147:THR:HG21	1.94	0.49
1:AA:551:ILE:HD11	2:BA:29:LEU:HD11	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:9:LYS:HA	2:BA:12:ILE:HD12	1.94	0.49
2:BA:305:GLN:O	2:BA:309:LEU:HG	2.12	0.49
3:CC:56:ILE:HD11	3:CD:188:PHE:CD1	2.47	0.49
4:DD:104:TYR:HB3	4:DD:131:ARG:NH2	2.26	0.49
3:CE:271:ARG:HB2	3:CE:274:GLN:OE1	2.12	0.49
2:BF:21:ARG:O	2:BF:25:VAL:HG23	2.12	0.49
3:CH:148:HIS:O	3:CH:152:ARG:HG2	2.11	0.49
2:BI:113:MET:SD	2:BI:118:ALA:HB2	2.52	0.49
2:BM:62:GLU:O	2:BM:65:GLN:HG3	2.12	0.49
4:EM:55:ASP:HB3	4:EM:57:ILE:HD12	1.94	0.49
3:CN:247:ARG:CZ	4:EO:79:LEU:HB3	2.42	0.49
4:FN:68:LEU:HA	4:FN:97:LEU:HD23	1.93	0.49
4:EO:69:GLY:C	4:EO:70:ARG:HD3	2.37	0.49
2:BP:127:PRO:HB2	2:BP:160:ARG:NE	2.27	0.49
4:DP:60:ILE:O	4:DP:62:VAL:HG13	2.12	0.49
4:FQ:105:LEU:HD22	4:FQ:126:ILE:HD13	1.93	0.49
4:ER:128:PRO:HG3	4:ER:131:ARG:HH21	1.75	0.49
4:FR:68:LEU:HA	4:FR:97:LEU:HD23	1.93	0.49
2:BS:38:SER:HA	2:BS:41:MET:HG2	1.94	0.49
2:BS:139:ARG:HG3	2:BT:201:GLU:OE1	2.12	0.49
3:CS:266:ALA:HB1	3:CS:286:ILE:HG12	1.93	0.49
4:DS:102:ASN:ND2	4:ES:61:PRO:O	2.45	0.49
3:CT:238:ASN:ND2	3:CU:112:GLY:HA2	2.27	0.49
4:ET:67:GLU:OE1	4:ET:70:ARG:HD2	2.12	0.49
4:FT:65:THR:HG23	4:FT:100:LEU:HB2	1.94	0.49
3:CU:184:MET:HA	3:CU:184:MET:HE2	1.94	0.49
4:EU:74:THR:HG22	4:EU:75:ILE:H	1.74	0.49
4:FU:105:LEU:HD22	4:FU:126:ILE:HD13	1.93	0.49
4:FU:134:ARG:HA	4:FU:137:ARG:HH12	1.77	0.49
1:AV:532:MET:O	1:AV:535:ARG:HB2	2.12	0.49
4:DW:60:ILE:O	4:DW:62:VAL:HG13	2.12	0.49
2:BX:305:GLN:O	2:BX:309:LEU:HG	2.12	0.49
3:CX:105:ILE:HG21	3:CX:162:LEU:HD21	1.94	0.49
4:FX:134:ARG:HA	4:FX:137:ARG:NH1	2.27	0.49
3:CY:271:ARG:HB2	3:CY:274:GLN:OE1	2.11	0.49
2:B1:210:GLN:O	2:B1:214:VAL:HG23	2.12	0.49
2:B2:78:ARG:HA	2:B2:94:LEU:HD11	1.94	0.49
3:C2:281:GLY:HA2	4:D2:121:ARG:HE	1.77	0.49
4:F2:126:ILE:HD11	4:F2:131:ARG:HH21	1.76	0.49
2:B3:305:GLN:O	2:B3:309:LEU:HG	2.12	0.49
4:F3:134:ARG:HA	4:F3:137:ARG:NH1	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:11:VAL:O	2:B4:15:MET:HG2	2.11	0.49
4:D4:60:ILE:O	4:D4:62:VAL:HG13	2.12	0.49
3:C5:266:ALA:HB1	3:C5:286:ILE:HG12	1.93	0.49
2:B6:62:GLU:O	2:B6:65:GLN:HG3	2.12	0.49
4:E7:55:ASP:HB3	4:E7:57:ILE:HD12	1.94	0.49
2:BA:26:PHE:CE2	2:BB:84:ALA:HB1	2.47	0.49
2:BB:125:GLU:HA	3:CB:147:THR:HG21	1.94	0.49
2:BB:154:ARG:O	2:BB:158:MET:HG2	2.12	0.49
2:BB:209:GLN:O	2:BB:212:GLU:HG2	2.12	0.49
2:BB:305:GLN:O	2:BB:309:LEU:HG	2.12	0.49
4:EB:69:GLY:C	4:EB:70:ARG:HD3	2.37	0.49
2:BC:267:GLU:HB3	2:BC:269:PRO:HD2	1.94	0.49
3:CC:148:HIS:O	3:CC:152:ARG:HG2	2.11	0.49
4:FC:70:ARG:HH21	4:FC:137:ARG:NH2	2.09	0.49
4:DD:74:THR:N	4:DD:77:GLU:OE2	2.25	0.49
3:CE:281:GLY:HA2	4:DE:121:ARG:HE	1.77	0.49
2:BG:41:MET:HA	2:BG:44:VAL:HB	1.94	0.49
2:BH:161:ILE:HG22	2:BI:199:ALA:HB2	1.94	0.49
1:AI:522:ARG:HD3	2:BJ:64:GLU:HG3	1.93	0.49
2:BJ:267:GLU:HB3	2:BJ:269:PRO:HD2	1.94	0.49
4:EJ:55:ASP:HB3	4:EJ:57:ILE:HD12	1.95	0.49
2:BS:166:GLY:HA3	2:BT:190:ARG:HG2	1.93	0.49
2:BT:246:SER:O	2:BT:250:LEU:HD23	2.12	0.49
2:BT:267:GLU:HB3	2:BT:269:PRO:HD2	1.93	0.49
2:BU:12:ILE:HD11	2:BU:47:ILE:HG12	1.94	0.49
2:BU:305:GLN:O	2:BU:309:LEU:HG	2.12	0.49
3:CU:101:ASN:OD1	3:CU:103:ASN:ND2	2.45	0.49
3:CU:260:GLU:OE1	4:DU:72:ARG:NH2	2.45	0.49
4:FU:70:ARG:HH21	4:FU:137:ARG:HH22	1.60	0.49
3:CV:316:ARG:HA	4:DV:86:VAL:HA	1.94	0.49
2:BX:246:SER:O	2:BX:250:LEU:HD23	2.12	0.49
3:CX:238:ASN:ND2	3:CY:112:GLY:HA2	2.27	0.49
2:B1:46:GLN:NE2	2:B1:47:ILE:O	2.45	0.49
3:C1:316:ARG:HA	4:D1:86:VAL:HA	1.94	0.49
3:C2:57:ILE:HG21	3:C2:169:TRP:CD1	2.46	0.49
4:F2:96:PRO:HB2	4:F2:108:GLN:HB3	1.93	0.49
2:B4:12:ILE:HG23	2:B5:69:LEU:HD11	1.94	0.49
3:C4:316:ARG:HA	4:D4:86:VAL:HA	1.94	0.49
2:B7:78:ARG:HA	2:B7:94:LEU:HD11	1.94	0.49
2:B7:305:GLN:O	2:B7:309:LEU:HG	2.12	0.49
3:C8:266:ALA:HB1	3:C8:286:ILE:HG12	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:281:GLY:HA2	4:D8:121:ARG:HE	1.78	0.49
2:B9:166:GLY:HA3	2:BA:190:ARG:HG2	1.95	0.49
2:B9:196:VAL:C	2:B9:198:THR:H	2.20	0.49
4:EA:67:GLU:OE1	4:EA:70:ARG:HD2	2.12	0.49
2:BC:305:GLN:O	2:BC:309:LEU:HG	2.11	0.49
4:FC:134:ARG:HA	4:FC:137:ARG:HH12	1.76	0.49
2:BE:127:PRO:HB2	2:BE:160:ARG:NE	2.28	0.49
3:CE:255:GLN:HA	4:DE:75:ILE:HB	1.93	0.49
4:EE:93:ALA:HB3	4:FE:116:ASP:OD1	2.12	0.49
3:CF:271:ARG:HB2	3:CF:274:GLN:OE1	2.11	0.49
2:BG:161:ILE:HG22	2:BH:199:ALA:HB2	1.95	0.49
2:BH:251:LEU:HA	2:BH:254:VAL:HG12	1.94	0.49
2:BI:196:VAL:C	2:BI:198:THR:H	2.19	0.49
2:BI:245:ARG:HH12	2:BI:249:ARG:HB2	1.77	0.49
3:CJ:148:HIS:O	3:CJ:152:ARG:HG2	2.11	0.49
2:BK:166:GLY:HA3	2:BL:190:ARG:HG2	1.94	0.49
3:CL:299:VAL:HG22	4:FL:132:MET:HE2	1.95	0.49
2:BN:305:GLN:O	2:BN:309:LEU:HG	2.12	0.49
4:DN:60:ILE:O	4:DN:62:VAL:HG13	2.12	0.49
2:BP:209:GLN:O	2:BP:212:GLU:HG2	2.12	0.49
4:EP:67:GLU:OE1	4:EP:70:ARG:HD2	2.12	0.49
4:EP:76:LYS:HZ1	4:FP:58:MET:C	2.18	0.49
2:BQ:166:GLY:HA3	2:BR:190:ARG:HG2	1.93	0.49
4:DR:60:ILE:O	4:DR:62:VAL:HG13	2.12	0.49
4:FS:105:LEU:HD22	4:FS:126:ILE:HD13	1.93	0.49
4:DV:104:TYR:CD2	4:EV:61:PRO:HG3	2.46	0.49
2:BW:127:PRO:HB2	2:BW:160:ARG:NE	2.27	0.49
2:BW:158:MET:HE3	2:BX:214:VAL:CG1	2.32	0.49
3:CW:238:ASN:ND2	3:CX:112:GLY:HA2	2.26	0.49
4:EW:93:ALA:HB3	4:FW:116:ASP:OD1	2.12	0.49
3:CY:316:ARG:HA	4:DY:86:VAL:HA	1.94	0.49
2:B2:267:GLU:HB3	2:B2:269:PRO:HD2	1.94	0.49
4:F3:70:ARG:HH21	4:F3:137:ARG:HH22	1.57	0.49
4:D4:105:LEU:O	4:D4:131:ARG:NH2	2.34	0.49
2:B5:267:GLU:HB3	2:B5:269:PRO:HD2	1.94	0.49
4:D5:60:ILE:O	4:D5:62:VAL:HG13	2.12	0.49
2:B6:127:PRO:HB2	2:B6:160:ARG:NE	2.28	0.49
4:D7:60:ILE:O	4:D7:62:VAL:HG13	2.12	0.49
2:B9:267:GLU:HB3	2:B9:269:PRO:HD2	1.94	0.49
2:BA:48:SER:HB3	2:BB:66:PHE:CD1	2.47	0.49
4:DA:74:THR:N	4:DA:77:GLU:OE2	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:548:ALA:HA	2:BB:25:VAL:HG13	1.95	0.49
2:BB:127:PRO:HB2	2:BB:160:ARG:NE	2.27	0.49
3:CB:256:HIS:HB2	4:FC:104:TYR:CE2	2.48	0.49
4:FD:70:ARG:HH21	4:FD:137:ARG:NH2	2.11	0.49
2:BG:103:THR:HG21	2:BG:109:THR:HG23	1.94	0.49
4:EG:67:GLU:OE1	4:EG:70:ARG:HD2	2.12	0.49
3:CH:274:GLN:HA	3:CH:277:LYS:HE3	1.95	0.49
4:DH:102:ASN:ND2	4:EH:61:PRO:O	2.44	0.49
2:BI:127:PRO:HB2	2:BI:160:ARG:NE	2.27	0.49
3:CI:148:HIS:O	3:CI:152:ARG:HG2	2.11	0.49
3:CI:238:ASN:ND2	3:CJ:112:GLY:HA2	2.27	0.49
3:CI:260:GLU:OE1	4:DI:72:ARG:NH2	2.46	0.49
2:BK:209:GLN:O	2:BK:212:GLU:HG2	2.12	0.49
4:EK:55:ASP:HB3	4:EK:57:ILE:HD12	1.94	0.49
2:BL:203:ILE:HA	2:BL:206:MET:HE3	1.93	0.49
4:DL:74:THR:N	4:DL:77:GLU:OE2	2.25	0.49
4:EM:67:GLU:OE1	4:EM:70:ARG:HD2	2.12	0.49
2:BO:201:GLU:HA	2:BO:204:ASN:HD22	1.77	0.49
2:BO:209:GLN:O	2:BO:212:GLU:HG2	2.13	0.49
3:CO:105:ILE:HG21	3:CO:162:LEU:HD21	1.94	0.49
3:CO:271:ARG:HB2	3:CO:274:GLN:OE1	2.11	0.49
1:AQ:532:MET:O	1:AQ:535:ARG:HB2	2.12	0.49
4:DQ:60:ILE:O	4:DQ:62:VAL:HG13	2.12	0.49
4:FR:134:ARG:HA	4:FR:137:ARG:HH12	1.77	0.49
2:BT:31:THR:O	2:BT:35:GLN:HG2	2.11	0.49
4:FT:133:ARG:HH12	4:FT:137:ARG:HH11	1.61	0.49
2:BU:103:THR:HG21	2:BU:109:THR:HG23	1.93	0.49
3:CU:254:VAL:O	4:DU:75:ILE:HD12	2.12	0.49
3:CV:271:ARG:HB2	3:CV:274:GLN:OE1	2.12	0.49
2:BY:209:GLN:O	2:BY:212:GLU:HG2	2.13	0.49
1:A2:544:PRO:HA	1:A2:547:VAL:HG12	1.94	0.49
2:B3:209:GLN:O	2:B3:212:GLU:HG2	2.12	0.49
3:C3:51:LEU:HD22	3:C3:231:LEU:HB3	1.93	0.49
3:C3:274:GLN:HA	3:C3:277:LYS:HE3	1.95	0.49
3:C3:316:ARG:HA	4:D3:86:VAL:HA	1.94	0.49
3:C6:145:GLU:HA	3:C6:184:MET:HE3	1.95	0.49
3:C8:51:LEU:HD22	3:C8:231:LEU:HB3	1.94	0.49
4:E8:128:PRO:HG3	4:E8:131:ARG:HH21	1.77	0.49
2:B9:157:VAL:O	2:B9:161:ILE:HG12	2.12	0.49
3:CB:57:ILE:HG21	3:CB:169:TRP:CD1	2.47	0.49
2:BC:246:SER:O	2:BC:250:LEU:HD23	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FD:105:LEU:HD22	4:FD:126:ILE:HD13	1.94	0.49
4:FD:134:ARG:HA	4:FD:137:ARG:HH12	1.77	0.49
4:EG:75:ILE:HG13	4:FG:58:MET:HG2	1.94	0.49
2:BI:267:GLU:HB3	2:BI:269:PRO:HD2	1.93	0.49
4:FI:70:ARG:HH21	4:FI:137:ARG:HH22	1.59	0.49
2:BJ:204:ASN:HD21	2:BJ:233:MET:HA	1.77	0.49
2:BJ:251:LEU:HA	2:BJ:254:VAL:HG12	1.94	0.49
3:CK:260:GLU:OE1	4:DK:72:ARG:NH2	2.46	0.49
3:CK:281:GLY:HA2	4:DK:121:ARG:HE	1.78	0.49
3:CL:106:HIS:CD2	3:CL:113:THR:HG22	2.47	0.49
3:CM:260:GLU:OE1	4:DM:72:ARG:NH2	2.46	0.49
2:BN:31:THR:O	2:BN:35:GLN:HG2	2.12	0.49
2:BO:305:GLN:O	2:BO:309:LEU:HG	2.12	0.49
4:EO:55:ASP:HB3	4:EO:57:ILE:HD12	1.94	0.49
2:BP:38:SER:HA	2:BP:41:MET:HG2	1.94	0.49
3:CP:281:GLY:HA2	4:DP:121:ARG:HE	1.77	0.49
4:FP:70:ARG:HH21	4:FP:137:ARG:NH2	2.11	0.49
2:BR:31:THR:O	2:BR:35:GLN:HG2	2.11	0.49
4:ER:67:GLU:OE1	4:ER:70:ARG:HD2	2.12	0.49
1:AT:544:PRO:HA	1:AT:547:VAL:HG12	1.94	0.49
3:CU:266:ALA:HB1	3:CU:286:ILE:HG12	1.93	0.49
2:BV:103:THR:HG21	2:BV:109:THR:HG23	1.93	0.49
2:BV:196:VAL:C	2:BV:198:THR:H	2.21	0.49
2:BV:209:GLN:O	2:BV:212:GLU:HG2	2.13	0.49
4:FW:65:THR:HG23	4:FW:100:LEU:HB2	1.94	0.49
3:C4:148:HIS:O	3:C4:152:ARG:HG2	2.12	0.49
3:C4:271:ARG:HB2	3:C4:274:GLN:OE1	2.12	0.49
4:E4:69:GLY:C	4:E4:70:ARG:HD3	2.38	0.49
4:F5:133:ARG:HH12	4:F5:137:ARG:HH11	1.61	0.49
2:B6:26:PHE:CE2	2:B7:84:ALA:HB1	2.47	0.49
2:B6:41:MET:HE2	2:B7:77:LEU:HG	1.95	0.49
2:B6:245:ARG:HH12	2:B6:249:ARG:HB2	1.78	0.49
2:B7:125:GLU:HA	3:C7:147:THR:HG21	1.95	0.49
3:C7:281:GLY:HA2	4:D7:121:ARG:HE	1.76	0.49
4:E7:74:THR:HG22	4:E7:75:ILE:H	1.76	0.49
4:F7:70:ARG:HH21	4:F7:137:ARG:HH22	1.59	0.49
2:B8:166:GLY:HA3	2:B9:190:ARG:HG2	1.95	0.49
2:B8:209:GLN:O	2:B8:212:GLU:HG2	2.13	0.49
1:A9:548:ALA:HA	2:B9:25:VAL:HG13	1.93	0.49
2:BA:85:LEU:HB3	2:BA:89:ARG:HB2	1.94	0.49
3:CA:54:LEU:HB2	3:CA:231:LEU:HD23	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:55:ASP:HB3	4:EA:57:ILE:HD12	1.95	0.49
4:FA:70:ARG:HH21	4:FA:137:ARG:HH22	1.59	0.49
2:BB:31:THR:O	2:BB:35:GLN:HG2	2.12	0.49
3:CB:148:HIS:O	3:CB:152:ARG:HG2	2.12	0.49
2:BD:305:GLN:O	2:BD:309:LEU:HG	2.13	0.49
4:DE:131:ARG:NH1	4:EE:59:ASP:OD2	2.45	0.49
3:CF:316:ARG:HA	4:DF:86:VAL:HA	1.94	0.49
4:FF:96:PRO:HB2	4:FF:108:GLN:HB3	1.94	0.49
2:BG:78:ARG:HA	2:BG:94:LEU:HD11	1.95	0.49
3:CH:105:ILE:HG21	3:CH:162:LEU:HD21	1.94	0.49
4:EH:55:ASP:HB3	4:EH:57:ILE:HD12	1.95	0.49
3:CJ:260:GLU:OE1	4:DJ:72:ARG:NH2	2.46	0.49
4:DJ:60:ILE:O	4:DJ:62:VAL:HG13	2.12	0.49
2:BL:250:LEU:O	2:BL:254:VAL:HG12	2.12	0.49
2:BL:305:GLN:O	2:BL:309:LEU:HG	2.12	0.49
3:CL:148:HIS:O	3:CL:152:ARG:HG2	2.11	0.49
4:DM:74:THR:N	4:DM:77:GLU:OE2	2.25	0.49
4:DO:74:THR:N	4:DO:77:GLU:OE2	2.25	0.49
2:BQ:93:LEU:O	2:BQ:97:ILE:HG12	2.12	0.49
4:FQ:70:ARG:HH21	4:FQ:137:ARG:HH22	1.58	0.49
2:BS:209:GLN:O	2:BS:212:GLU:HG2	2.13	0.49
2:BU:166:GLY:HA3	2:BV:190:ARG:HG2	1.94	0.49
3:CU:316:ARG:HA	4:DU:86:VAL:HA	1.95	0.49
1:AV:551:ILE:HD11	2:BV:29:LEU:HD11	1.93	0.49
2:BW:157:VAL:O	2:BW:161:ILE:HG12	2.13	0.49
2:B1:76:TYR:OH	2:BY:14:LEU:O	2.23	0.49
2:B1:209:GLN:O	2:B1:212:GLU:HG2	2.12	0.49
3:C1:148:HIS:O	3:C1:152:ARG:HG2	2.11	0.49
2:B2:209:GLN:O	2:B2:212:GLU:HG2	2.13	0.49
3:C2:316:ARG:HA	4:D2:86:VAL:HA	1.94	0.49
3:C3:260:GLU:OE1	4:D3:72:ARG:NH2	2.45	0.49
3:C4:106:HIS:CD2	3:C4:113:THR:HG22	2.47	0.49
3:C5:51:LEU:HD22	3:C5:231:LEU:HB3	1.95	0.49
1:A6:553:GLN:O	1:A6:557:ASN:ND2	2.46	0.49
2:B6:81:LEU:HD13	2:B6:93:LEU:HB2	1.94	0.49
2:B6:305:GLN:O	2:B6:309:LEU:HG	2.12	0.49
4:F6:105:LEU:HD22	4:F6:126:ILE:HD13	1.94	0.49
1:A7:547:VAL:HG23	2:B7:59:PHE:CZ	2.44	0.49
3:C7:316:ARG:HA	4:D7:86:VAL:HA	1.94	0.49
2:B8:11:VAL:O	2:B8:15:MET:HG2	2.12	0.49
4:E9:67:GLU:OE1	4:E9:70:ARG:HD2	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:274:PHE:CE2	2:BA:278:MET:HE1	2.48	0.49
4:FA:96:PRO:HB2	4:FA:108:GLN:HB3	1.95	0.49
3:CB:56:ILE:HD11	3:CC:188:PHE:CD1	2.48	0.49
4:EB:93:ALA:HB3	4:FB:116:ASP:OD1	2.13	0.49
2:BE:196:VAL:C	2:BE:198:THR:H	2.20	0.49
4:FE:68:LEU:HA	4:FE:97:LEU:HD23	1.94	0.49
1:AH:544:PRO:HA	1:AH:547:VAL:HG12	1.94	0.49
4:FH:70:ARG:HH21	4:FH:137:ARG:NH2	2.11	0.49
2:BI:41:MET:CE	2:BJ:77:LEU:HB2	2.43	0.49
3:CJ:56:ILE:HD11	3:CK:188:PHE:CD1	2.48	0.49
4:DJ:104:TYR:HB3	4:DJ:131:ARG:NH2	2.28	0.49
4:DK:104:TYR:CD2	4:EK:61:PRO:HG3	2.48	0.49
4:FK:70:ARG:HH21	4:FK:137:ARG:HH22	1.59	0.49
1:AL:547:VAL:HG13	2:BL:25:VAL:HG22	1.94	0.49
3:CL:259:LEU:HD21	4:FM:60:ILE:HG21	1.95	0.49
2:BO:43:ASN:O	2:BO:45:ARG:NH1	2.46	0.49
3:CO:260:GLU:OE1	4:DO:72:ARG:NH2	2.46	0.49
4:EP:69:GLY:C	4:EP:70:ARG:HD3	2.38	0.49
4:DQ:67:GLU:HG3	4:DQ:98:ASP:HB3	1.93	0.49
2:BR:209:GLN:O	2:BR:212:GLU:HG2	2.13	0.49
3:CR:266:ALA:HB1	3:CR:286:ILE:HG12	1.95	0.49
3:CR:316:ARG:HA	4:DR:86:VAL:HA	1.94	0.49
4:ER:69:GLY:C	4:ER:70:ARG:HD3	2.38	0.49
2:BS:93:LEU:O	2:BS:97:ILE:HG12	2.12	0.49
2:BS:127:PRO:HB2	2:BS:160:ARG:NE	2.28	0.49
3:CS:316:ARG:HA	4:DS:86:VAL:HA	1.94	0.49
3:CT:105:ILE:HG21	3:CT:162:LEU:HD21	1.94	0.49
3:CT:316:ARG:HA	4:DT:86:VAL:HA	1.94	0.49
3:CU:57:ILE:HG21	3:CU:169:TRP:CD1	2.47	0.49
3:CV:51:LEU:HD22	3:CV:231:LEU:HB3	1.94	0.49
3:CV:281:GLY:HA2	4:DV:121:ARG:HE	1.77	0.49
2:BW:43:ASN:HB3	2:BX:101:ARG:NH2	2.27	0.49
2:BW:305:GLN:O	2:BW:309:LEU:HG	2.12	0.49
3:CX:106:HIS:HD2	3:CX:113:THR:HG22	1.76	0.49
3:CX:281:GLY:HA2	4:DX:121:ARG:HE	1.77	0.49
4:EX:75:ILE:HG13	4:FX:58:MET:HG2	1.94	0.49
2:BY:251:LEU:HA	2:BY:254:VAL:HG12	1.94	0.49
3:CY:260:GLU:OE1	4:DY:72:ARG:NH2	2.46	0.49
3:C1:274:GLN:O	3:C1:278:LEU:HB2	2.13	0.49
3:C2:299:VAL:HA	4:F2:132:MET:CE	2.43	0.49
4:F3:126:ILE:HD11	4:F3:131:ARG:HH21	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:101:ASN:OD1	3:C5:103:ASN:ND2	2.45	0.49
2:B6:196:VAL:C	2:B6:198:THR:H	2.20	0.49
3:C7:255:GLN:HA	4:D7:75:ILE:HB	1.94	0.49
4:E8:67:GLU:OE1	4:E8:70:ARG:HD2	2.13	0.49
1:AB:547:VAL:HG13	2:BB:25:VAL:HG22	1.95	0.49
4:EC:93:ALA:HB3	4:FC:116:ASP:OD1	2.13	0.49
2:BD:209:GLN:O	2:BD:212:GLU:HG2	2.13	0.49
2:BD:267:GLU:HB3	2:BD:269:PRO:HD2	1.94	0.49
3:CD:281:GLY:HA2	4:DD:121:ARG:HE	1.78	0.49
2:BE:41:MET:O	2:BE:44:VAL:HG12	2.13	0.49
3:CE:51:LEU:HD22	3:CE:231:LEU:HB3	1.94	0.49
3:CH:316:ARG:HA	4:DH:86:VAL:HA	1.94	0.49
2:BI:41:MET:HA	2:BI:44:VAL:HB	1.95	0.49
2:BI:43:ASN:HB3	2:BJ:101:ARG:NH2	2.27	0.49
2:BI:125:GLU:HA	3:CI:147:THR:HG21	1.94	0.49
4:DI:104:TYR:HB3	4:DI:131:ARG:NH2	2.28	0.49
4:FI:96:PRO:HB2	4:FI:108:GLN:HB3	1.93	0.49
3:CJ:105:ILE:HG21	3:CJ:162:LEU:HD21	1.95	0.49
2:BL:10:SER:HA	2:BL:13:LEU:HD12	1.95	0.49
2:BL:218:VAL:HG11	2:BL:229:ILE:HD12	1.94	0.49
2:BM:111:ASN:CG	2:BM:138:LYS:H	2.21	0.49
3:CM:51:LEU:HD22	3:CM:231:LEU:HB3	1.94	0.49
4:FM:65:THR:HG23	4:FM:100:LEU:HB2	1.94	0.49
2:BN:38:SER:HB3	2:BO:97:ILE:HD11	1.94	0.49
2:BN:242:VAL:O	2:BN:243:ASP:OD1	2.31	0.49
2:BP:298:LEU:HD11	2:BQ:329:THR:HB	1.93	0.49
3:CQ:260:GLU:HA	4:DQ:72:ARG:HH22	1.78	0.49
4:EQ:92:LEU:HA	4:FQ:117:LYS:HD2	1.94	0.49
3:CT:299:VAL:HA	4:FT:132:MET:CE	2.41	0.49
3:CU:51:LEU:HD22	3:CU:231:LEU:HB3	1.94	0.49
2:BV:246:SER:O	2:BV:250:LEU:HD23	2.12	0.49
3:CX:260:GLU:OE1	4:DX:72:ARG:NH2	2.46	0.49
4:EY:67:GLU:OE1	4:EY:70:ARG:HD2	2.12	0.49
4:E1:55:ASP:HB3	4:E1:57:ILE:HD12	1.95	0.49
1:A3:551:ILE:HD11	2:B3:29:LEU:HD11	1.94	0.49
2:B3:125:GLU:HA	3:C3:147:THR:HG21	1.95	0.49
4:D3:60:ILE:O	4:D3:62:VAL:HG13	2.12	0.49
1:A5:548:ALA:HA	2:B5:25:VAL:HG13	1.94	0.49
2:B5:125:GLU:HA	3:C5:147:THR:HG21	1.95	0.49
2:B5:166:GLY:HA3	2:B6:190:ARG:HG2	1.95	0.49
2:B5:209:GLN:O	2:B5:212:GLU:HG2	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D5:131:ARG:NH1	4:E5:59:ASP:OD2	2.45	0.49
4:F5:70:ARG:HH21	4:F5:137:ARG:NH2	2.11	0.49
2:B8:157:VAL:O	2:B8:161:ILE:HG12	2.13	0.49
2:B9:103:THR:HG21	2:B9:109:THR:HG23	1.95	0.49
2:B9:127:PRO:HB2	2:B9:160:ARG:NE	2.28	0.49
2:BA:81:LEU:HD12	2:BA:94:LEU:HG	1.94	0.49
2:BA:267:GLU:HB3	2:BA:269:PRO:HD2	1.94	0.49
3:CA:281:GLY:HA2	4:DA:121:ARG:HE	1.78	0.49
3:CB:51:LEU:HD22	3:CB:231:LEU:HB3	1.95	0.49
4:FB:126:ILE:HD11	4:FB:131:ARG:HH21	1.77	0.49
4:DC:78:LEU:HA	4:DC:81:LEU:HD23	1.94	0.49
4:EC:59:ASP:HA	4:FC:76:LYS:NZ	2.28	0.49
3:CE:183:GLU:O	3:CE:184:MET:HE2	2.13	0.49
3:CF:56:ILE:HD11	3:CG:188:PHE:CD1	2.48	0.49
3:CF:281:GLY:HA2	4:DF:121:ARG:HE	1.77	0.49
3:CH:260:GLU:OE1	4:DH:72:ARG:NH2	2.46	0.49
2:BK:245:ARG:HH12	2:BK:249:ARG:HB2	1.76	0.49
3:CK:51:LEU:HD22	3:CK:231:LEU:HB3	1.93	0.49
3:CK:146:PHE:HA	3:CK:150:GLU:OE1	2.13	0.49
4:EL:92:LEU:HA	4:FL:117:LYS:HD2	1.94	0.49
4:EL:125:ILE:O	4:EL:126:ILE:HB	2.13	0.49
2:BM:103:THR:HG21	2:BM:109:THR:HG23	1.95	0.49
3:CM:281:GLY:HA2	4:DM:121:ARG:HE	1.76	0.49
4:DM:105:LEU:HB2	4:DM:131:ARG:HE	1.78	0.49
2:BQ:267:GLU:HB3	2:BQ:269:PRO:HD2	1.94	0.49
3:CQ:272:LEU:HB2	4:DQ:60:ILE:HB	1.95	0.49
2:BR:1:MET:HA	2:BR:51:GLN:HE22	1.78	0.49
4:DR:104:TYR:HB3	4:DR:131:ARG:NH2	2.28	0.49
4:FS:134:ARG:HA	4:FS:137:ARG:NH1	2.28	0.49
3:CT:274:GLN:O	3:CT:278:LEU:HB2	2.13	0.49
4:FU:133:ARG:HH12	4:FU:137:ARG:HH11	1.59	0.49
2:BV:116:GLN:HA	2:BV:148:LEU:HD13	1.94	0.49
3:CW:260:GLU:OE1	4:DW:72:ARG:NH2	2.46	0.49
3:CX:316:ARG:HA	4:DX:86:VAL:HA	1.95	0.49
3:CY:281:GLY:HA2	4:DY:121:ARG:HE	1.77	0.49
3:CY:299:VAL:HA	4:FY:132:MET:CE	2.42	0.49
4:DY:60:ILE:O	4:DY:62:VAL:HG13	2.12	0.49
3:C1:260:GLU:OE1	4:D1:72:ARG:NH2	2.46	0.49
4:D1:60:ILE:O	4:D1:62:VAL:HG13	2.12	0.49
4:E1:67:GLU:OE1	4:E1:70:ARG:HD2	2.13	0.49
4:F2:70:ARG:HH21	4:F2:137:ARG:NH2	2.11	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:218:VAL:HG11	2:B5:229:ILE:HD12	1.95	0.49
4:D6:60:ILE:O	4:D6:62:VAL:HG13	2.12	0.49
3:C7:105:ILE:HG21	3:C7:162:LEU:HD21	1.93	0.49
3:C7:238:ASN:ND2	3:C8:112:GLY:HA2	2.27	0.49
3:C7:253:GLN:HG3	4:F8:131:ARG:HH22	1.78	0.49
4:DA:105:LEU:HB3	4:DA:126:ILE:HG21	1.95	0.49
2:BF:267:GLU:HB3	2:BF:269:PRO:HD2	1.95	0.49
2:BF:305:GLN:O	2:BF:309:LEU:HG	2.12	0.49
3:CH:145:GLU:HA	3:CH:184:MET:HE3	1.94	0.49
4:DI:131:ARG:NH1	4:EI:59:ASP:OD2	2.45	0.49
3:CJ:281:GLY:HA2	4:DJ:121:ARG:HE	1.77	0.49
3:CJ:300:PRO:HD2	4:FJ:132:MET:SD	2.52	0.49
4:EJ:67:GLU:OE1	4:EJ:70:ARG:HD2	2.12	0.49
3:CL:238:ASN:ND2	3:CM:112:GLY:HA2	2.27	0.49
2:BM:251:LEU:HA	2:BM:254:VAL:HG12	1.95	0.49
4:EM:125:ILE:O	4:EM:126:ILE:HB	2.13	0.49
3:CN:105:ILE:HG21	3:CN:162:LEU:HD21	1.95	0.49
3:CO:255:GLN:HA	4:DO:75:ILE:HB	1.94	0.49
4:FO:133:ARG:HH12	4:FO:137:ARG:HH11	1.60	0.49
4:FO:134:ARG:HA	4:FO:137:ARG:NH1	2.28	0.49
1:AQ:532:MET:SD	1:AQ:532:MET:C	2.96	0.49
4:EQ:74:THR:HG22	4:EQ:75:ILE:H	1.76	0.49
4:FR:70:ARG:HH21	4:FR:137:ARG:NH2	2.11	0.49
2:BS:196:VAL:C	2:BS:198:THR:H	2.21	0.49
4:FU:70:ARG:HH21	4:FU:137:ARG:NH2	2.11	0.49
1:AV:532:MET:SD	1:AV:532:MET:C	2.95	0.49
4:EV:93:ALA:HB3	4:FV:116:ASP:OD2	2.13	0.49
4:EV:125:ILE:O	4:EV:126:ILE:HB	2.13	0.49
4:DW:131:ARG:NH1	4:EW:59:ASP:OD2	2.46	0.49
1:A1:544:PRO:HA	1:A1:547:VAL:HG12	1.94	0.48
4:D1:104:TYR:HB3	4:D1:131:ARG:NH2	2.28	0.48
1:A2:553:GLN:O	1:A2:557:ASN:ND2	2.45	0.48
1:A3:532:MET:C	1:A3:532:MET:SD	2.96	0.48
1:A3:553:GLN:O	1:A3:557:ASN:ND2	2.45	0.48
3:C3:281:GLY:HA2	4:D3:121:ARG:HE	1.77	0.48
4:F3:70:ARG:HH21	4:F3:137:ARG:NH2	2.11	0.48
4:E4:55:ASP:HB3	4:E4:57:ILE:HD12	1.95	0.48
4:F4:133:ARG:HH12	4:F4:137:ARG:HH11	1.60	0.48
3:C6:148:HIS:O	3:C6:152:ARG:HG2	2.11	0.48
4:E6:67:GLU:OE1	4:E6:70:ARG:HD2	2.12	0.48
3:C8:238:ASN:ND2	3:C9:112:GLY:HA2	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:299:VAL:HA	4:F8:132:MET:CE	2.43	0.48
2:B9:135:VAL:HG11	2:BA:194:GLY:HA3	1.94	0.48
2:BA:41:MET:HA	2:BA:44:VAL:HB	1.95	0.48
2:BB:103:THR:HG21	2:BB:109:THR:HG23	1.95	0.48
4:DB:104:TYR:HB3	4:DB:131:ARG:NH2	2.28	0.48
4:FD:70:ARG:HH21	4:FD:137:ARG:HH22	1.60	0.48
2:BE:209:GLN:O	2:BE:212:GLU:HG2	2.13	0.48
2:BF:46:GLN:NE2	2:BG:70:ASN:HD22	2.10	0.48
4:FF:70:ARG:HH21	4:FF:137:ARG:NH2	2.11	0.48
2:BG:166:GLY:HA3	2:BH:190:ARG:HG2	1.95	0.48
3:CG:106:HIS:HD2	3:CG:113:THR:HG22	1.77	0.48
4:EG:92:LEU:HA	4:FG:117:LYS:HD2	1.94	0.48
1:AI:555:MET:HE1	2:BI:29:LEU:HD22	1.95	0.48
2:BL:103:THR:HG21	2:BL:109:THR:HG23	1.94	0.48
4:EM:126:ILE:O	4:EM:128:PRO:HD3	2.13	0.48
1:AN:544:PRO:HA	1:AN:547:VAL:HG12	1.94	0.48
1:AN:553:GLN:O	1:AN:557:ASN:ND2	2.45	0.48
3:CN:255:GLN:HA	4:DN:75:ILE:HB	1.95	0.48
3:CN:316:ARG:HA	4:DN:86:VAL:HA	1.94	0.48
4:EO:92:LEU:HA	4:FO:117:LYS:HD2	1.94	0.48
3:CP:238:ASN:ND2	3:CQ:112:GLY:HA2	2.27	0.48
3:CP:260:GLU:OE1	4:DP:72:ARG:NH2	2.46	0.48
1:AS:522:ARG:HD3	2:BT:64:GLU:HG3	1.95	0.48
2:BS:116:GLN:HA	2:BS:148:LEU:HD13	1.93	0.48
3:CT:281:GLY:HA2	4:DT:121:ARG:HE	1.77	0.48
1:AV:532:MET:HE2	2:BV:56:LEU:CD1	2.37	0.48
2:BV:135:VAL:HG23	2:BV:161:ILE:HD12	1.95	0.48
3:CV:101:ASN:OD1	3:CV:103:ASN:ND2	2.46	0.48
2:BW:11:VAL:O	2:BW:15:MET:HG2	2.13	0.48
2:BW:267:GLU:HB3	2:BW:269:PRO:HD2	1.94	0.48
3:CX:51:LEU:HD22	3:CX:231:LEU:HB3	1.94	0.48
3:CY:145:GLU:HA	3:CY:184:MET:HE3	1.95	0.48
1:A1:532:MET:SD	2:B1:56:LEU:HD13	2.53	0.48
4:F1:70:ARG:HH21	4:F1:137:ARG:NH2	2.11	0.48
3:C2:238:ASN:ND2	3:C3:112:GLY:HA2	2.28	0.48
4:F2:65:THR:HG23	4:F2:100:LEU:HB2	1.95	0.48
4:F2:100:LEU:HA	4:F2:105:LEU:HA	1.94	0.48
4:F2:134:ARG:HA	4:F2:137:ARG:NH1	2.28	0.48
3:C3:271:ARG:HH21	4:D3:59:ASP:HB2	1.79	0.48
3:C3:274:GLN:O	3:C3:278:LEU:HB2	2.13	0.48
4:E3:76:LYS:HZ3	4:F3:59:ASP:HA	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:544:PRO:HA	1:A4:547:VAL:HG12	1.95	0.48
4:D4:101:ILE:HD13	4:E4:60:ILE:HD13	1.95	0.48
2:B5:21:ARG:O	2:B5:25:VAL:HG23	2.13	0.48
3:C5:145:GLU:HA	3:C5:184:MET:HE3	1.95	0.48
4:E5:93:ALA:HB3	4:F5:116:ASP:OD1	2.13	0.48
2:B7:21:ARG:O	2:B7:25:VAL:HG23	2.13	0.48
4:F7:134:ARG:HA	4:F7:137:ARG:NH1	2.27	0.48
1:A8:544:PRO:HA	1:A8:547:VAL:HG12	1.94	0.48
2:B8:242:VAL:O	2:B8:243:ASP:OD1	2.31	0.48
4:E8:75:ILE:HA	4:E8:78:LEU:HD12	1.94	0.48
2:B9:251:LEU:HA	2:B9:254:VAL:HG12	1.94	0.48
3:CA:247:ARG:CZ	4:EB:79:LEU:HB3	2.42	0.48
3:CA:316:ARG:HA	4:DA:86:VAL:HA	1.94	0.48
1:AB:553:GLN:O	1:AB:557:ASN:ND2	2.46	0.48
2:BC:31:THR:O	2:BC:35:GLN:HG2	2.13	0.48
3:CC:260:GLU:OE1	4:DC:72:ARG:NH2	2.44	0.48
3:CE:316:ARG:HA	4:DE:86:VAL:HA	1.94	0.48
4:DE:74:THR:O	4:DE:78:LEU:HB2	2.13	0.48
1:AG:544:PRO:HA	1:AG:547:VAL:HG12	1.95	0.48
3:CG:238:ASN:ND2	3:CH:112:GLY:HA2	2.27	0.48
3:CH:238:ASN:ND2	3:CI:112:GLY:HA2	2.28	0.48
3:CI:271:ARG:HB2	3:CI:274:GLN:OE1	2.13	0.48
2:BJ:31:THR:O	2:BJ:35:GLN:HG2	2.13	0.48
3:CJ:238:ASN:ND2	3:CK:112:GLY:HA2	2.28	0.48
4:DJ:74:THR:N	4:DJ:77:GLU:OE2	2.26	0.48
4:FJ:70:ARG:HH21	4:FJ:137:ARG:NH2	2.12	0.48
1:AK:553:GLN:O	1:AK:557:ASN:ND2	2.45	0.48
2:BK:42:ALA:HB2	2:BL:97:ILE:HG23	1.96	0.48
3:CK:274:GLN:O	3:CK:278:LEU:HB2	2.13	0.48
3:CK:316:ARG:HA	4:DK:86:VAL:HA	1.94	0.48
4:EK:92:LEU:HA	4:FK:117:LYS:HD2	1.95	0.48
4:EL:55:ASP:HB3	4:EL:57:ILE:HD12	1.96	0.48
3:CN:145:GLU:HA	3:CN:184:MET:HE3	1.95	0.48
1:AO:544:PRO:HA	1:AO:547:VAL:HG12	1.94	0.48
3:CO:316:ARG:HA	4:DO:86:VAL:HA	1.94	0.48
1:AP:544:PRO:HA	1:AP:547:VAL:HG12	1.94	0.48
3:CP:316:ARG:HA	4:DP:86:VAL:HA	1.94	0.48
4:EP:125:ILE:O	4:EP:126:ILE:HB	2.13	0.48
3:CQ:266:ALA:HB1	3:CQ:286:ILE:HG12	1.96	0.48
1:AS:553:GLN:O	1:AS:557:ASN:ND2	2.46	0.48
4:ES:67:GLU:OE1	4:ES:70:ARG:HD2	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:238:ASN:ND2	3:CW:112:GLY:HA2	2.27	0.48
1:AY:532:MET:HE2	2:BY:56:LEU:CD1	2.39	0.48
4:EY:92:LEU:HA	4:FY:117:LYS:HD2	1.95	0.48
4:E2:92:LEU:HA	4:F2:117:LYS:HD2	1.95	0.48
2:B4:166:GLY:HA3	2:B5:190:ARG:HG2	1.95	0.48
3:C4:73:LEU:HB3	3:C4:129:ASN:ND2	2.29	0.48
3:C5:316:ARG:HA	4:D5:86:VAL:HA	1.95	0.48
4:E5:67:GLU:OE1	4:E5:70:ARG:HD2	2.13	0.48
2:B7:46:GLN:HE22	2:B8:68:ALA:C	2.21	0.48
2:B7:103:THR:HG21	2:B7:109:THR:HG23	1.95	0.48
3:C7:56:ILE:HD11	3:C8:188:PHE:CD1	2.48	0.48
4:F7:132:MET:SD	4:F7:135:LEU:HB3	2.53	0.48
2:BC:103:THR:HG21	2:BC:109:THR:HG23	1.95	0.48
2:BC:166:GLY:HA3	2:BD:190:ARG:HG2	1.94	0.48
3:CC:258:GLU:OE2	4:DC:73:MET:N	2.46	0.48
3:CC:266:ALA:HB1	3:CC:286:ILE:HG12	1.95	0.48
3:CC:281:GLY:HA2	4:DC:121:ARG:HE	1.78	0.48
4:EC:55:ASP:HB3	4:EC:57:ILE:HD12	1.95	0.48
2:BD:103:THR:HG21	2:BD:109:THR:HG23	1.95	0.48
3:CD:51:LEU:HD22	3:CD:231:LEU:HB3	1.95	0.48
3:CD:101:ASN:OD1	3:CD:103:ASN:ND2	2.46	0.48
3:CE:250:LEU:HD21	4:EF:78:LEU:O	2.13	0.48
4:EE:69:GLY:C	4:EE:70:ARG:HD3	2.38	0.48
4:FF:133:ARG:HH12	4:FF:137:ARG:NH1	2.12	0.48
2:BG:209:GLN:O	2:BG:212:GLU:HG2	2.13	0.48
3:CG:51:LEU:HD22	3:CG:231:LEU:HB3	1.94	0.48
3:CG:260:GLU:OE1	4:DG:72:ARG:NH2	2.46	0.48
4:EG:75:ILE:HA	4:EG:78:LEU:HD12	1.94	0.48
2:BH:209:GLN:O	2:BH:212:GLU:HG2	2.13	0.48
3:CH:51:LEU:HD22	3:CH:231:LEU:HB3	1.94	0.48
4:FH:65:THR:HG23	4:FH:100:LEU:HB2	1.94	0.48
3:CL:247:ARG:CZ	4:EM:79:LEU:HB3	2.43	0.48
2:BM:12:ILE:HD11	2:BM:47:ILE:HG12	1.95	0.48
4:EM:93:ALA:HB3	4:FM:116:ASP:OD2	2.13	0.48
4:DP:101:ILE:HG22	4:DP:106:ILE:HB	1.94	0.48
4:DQ:79:LEU:HD12	4:FR:58:MET:HE1	1.95	0.48
2:BS:125:GLU:HA	3:CS:147:THR:HG21	1.95	0.48
2:BV:127:PRO:HB2	2:BV:160:ARG:NE	2.27	0.48
3:CV:260:GLU:OE1	4:DV:72:ARG:NH2	2.46	0.48
1:AY:532:MET:SD	1:AY:532:MET:C	2.96	0.48
2:BY:2:SER:H	2:BY:51:GLN:NE2	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:99:ILE:HD12	4:D1:107:ALA:HB3	1.96	0.48
4:E1:105:LEU:HD22	4:E1:134:ARG:HH12	1.77	0.48
2:B2:116:GLN:HA	2:B2:148:LEU:HD13	1.96	0.48
3:C2:51:LEU:HD22	3:C2:231:LEU:HB3	1.95	0.48
3:C2:274:GLN:HA	3:C2:277:LYS:HE3	1.94	0.48
4:E3:69:GLY:C	4:E3:70:ARG:HD3	2.38	0.48
4:E3:71:THR:HB	4:F3:64:LEU:HD11	1.96	0.48
4:E3:131:ARG:HA	4:E3:134:ARG:NH1	2.28	0.48
4:E5:73:MET:HE1	4:E5:78:LEU:HD23	1.94	0.48
2:B6:31:THR:O	2:B6:35:GLN:HG2	2.13	0.48
3:C6:316:ARG:HA	4:D6:86:VAL:HA	1.95	0.48
2:B8:21:ARG:O	2:B8:25:VAL:HG23	2.13	0.48
3:C9:51:LEU:HD22	3:C9:231:LEU:HB3	1.94	0.48
4:D9:74:THR:N	4:D9:77:GLU:OE2	2.26	0.48
4:F9:70:ARG:HH21	4:F9:137:ARG:NH2	2.12	0.48
2:BA:93:LEU:O	2:BA:97:ILE:HG12	2.14	0.48
2:BB:81:LEU:HD13	2:BB:93:LEU:HB2	1.95	0.48
4:FB:68:LEU:HA	4:FB:97:LEU:HD23	1.94	0.48
2:BC:81:LEU:HD12	2:BC:94:LEU:HG	1.94	0.48
4:EC:67:GLU:OE1	4:EC:70:ARG:HD2	2.12	0.48
4:ED:55:ASP:HB3	4:ED:57:ILE:HD12	1.96	0.48
4:ED:128:PRO:HG3	4:ED:131:ARG:HH21	1.78	0.48
2:BF:31:THR:O	2:BF:35:GLN:HG2	2.13	0.48
2:BF:209:GLN:O	2:BF:212:GLU:HG2	2.13	0.48
3:CG:105:ILE:HG21	3:CG:162:LEU:HD21	1.94	0.48
4:FG:70:ARG:HH21	4:FG:137:ARG:NH2	2.11	0.48
2:BH:242:VAL:O	2:BH:243:ASP:OD1	2.32	0.48
3:CI:316:ARG:HA	4:DI:86:VAL:HA	1.95	0.48
4:EI:105:LEU:HD22	4:EI:134:ARG:HH12	1.78	0.48
2:BJ:166:GLY:HA3	2:BK:190:ARG:HG2	1.96	0.48
3:CJ:274:GLN:HA	3:CJ:277:LYS:HE3	1.94	0.48
3:CJ:316:ARG:HA	4:DJ:86:VAL:HA	1.94	0.48
3:CK:73:LEU:HB3	3:CK:129:ASN:ND2	2.29	0.48
2:BL:43:ASN:O	2:BL:45:ARG:NH1	2.44	0.48
2:BL:110:LEU:HA	2:BL:113:MET:HG3	1.95	0.48
2:BL:161:ILE:HG21	2:BM:202:ILE:HD12	1.95	0.48
2:BO:166:GLY:HA3	2:BP:190:ARG:HG2	1.95	0.48
4:FO:70:ARG:HH21	4:FO:137:ARG:NH2	2.11	0.48
2:BQ:21:ARG:O	2:BQ:25:VAL:HG23	2.13	0.48
2:BQ:209:GLN:O	2:BQ:212:GLU:HG2	2.13	0.48
3:CQ:73:LEU:HB3	3:CQ:129:ASN:ND2	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FQ:133:ARG:HH12	4:FQ:137:ARG:HH11	1.60	0.48
2:BR:212:GLU:HA	2:BR:215:ILE:HG12	1.94	0.48
4:ER:125:ILE:O	4:ER:126:ILE:HB	2.14	0.48
3:CS:51:LEU:HD22	3:CS:231:LEU:HB3	1.95	0.48
4:FS:96:PRO:HB2	4:FS:108:GLN:HB3	1.94	0.48
3:CT:250:LEU:HD21	4:EU:78:LEU:O	2.13	0.48
3:CT:251:VAL:O	3:CT:255:GLN:HG3	2.14	0.48
2:BU:116:GLN:HA	2:BU:148:LEU:HD13	1.95	0.48
2:BU:157:VAL:O	2:BU:161:ILE:HG12	2.13	0.48
3:CX:271:ARG:HB2	3:CX:274:GLN:OE1	2.12	0.48
4:DX:60:ILE:O	4:DX:62:VAL:HG13	2.12	0.48
4:FX:126:ILE:HD11	4:FX:131:ARG:HH21	1.78	0.48
1:AY:532:MET:O	1:AY:535:ARG:HB2	2.13	0.48
2:BY:62:GLU:O	2:BY:65:GLN:HG3	2.13	0.48
2:B1:103:THR:HG21	2:B1:109:THR:HG23	1.95	0.48
2:B1:267:GLU:HB3	2:B1:269:PRO:HD2	1.93	0.48
1:A3:558:ASP:OD1	2:B3:6:GLY:HA3	2.14	0.48
2:B3:196:VAL:C	2:B3:198:THR:H	2.21	0.48
4:E4:67:GLU:OE1	4:E4:70:ARG:HD2	2.13	0.48
3:C5:106:HIS:HD2	3:C5:113:THR:HG22	1.78	0.48
1:A8:548:ALA:HA	2:B8:25:VAL:HG13	1.95	0.48
4:F8:70:ARG:HH21	4:F8:137:ARG:NH2	2.12	0.48
4:F8:105:LEU:HD22	4:F8:126:ILE:HD13	1.96	0.48
2:B9:242:VAL:O	2:B9:243:ASP:OD1	2.32	0.48
2:BA:125:GLU:HA	3:CA:147:THR:HG21	1.95	0.48
3:CA:238:ASN:ND2	3:CB:112:GLY:HA2	2.28	0.48
3:CC:316:ARG:HA	4:DC:86:VAL:HA	1.94	0.48
4:ED:58:MET:HG2	4:FD:76:LYS:HZ1	1.77	0.48
4:DE:99:ILE:HD12	4:DE:107:ALA:HB3	1.96	0.48
1:AF:544:PRO:HA	1:AF:547:VAL:HG12	1.96	0.48
3:CI:107:LEU:HD11	3:CI:219:LEU:HD22	1.95	0.48
3:CI:255:GLN:HA	4:DI:75:ILE:HB	1.96	0.48
3:CI:281:GLY:HA2	4:DI:121:ARG:HE	1.78	0.48
4:EI:69:GLY:C	4:EI:70:ARG:HD3	2.38	0.48
2:BJ:116:GLN:HA	2:BJ:148:LEU:HD13	1.95	0.48
4:DL:99:ILE:HD12	4:DL:107:ALA:HB3	1.96	0.48
4:DM:106:ILE:HD13	4:EM:60:ILE:HD11	1.95	0.48
4:FM:70:ARG:HH21	4:FM:137:ARG:HH22	1.60	0.48
4:FM:70:ARG:HH21	4:FM:137:ARG:NH2	2.11	0.48
2:BN:209:GLN:O	2:BN:212:GLU:HG2	2.13	0.48
2:BP:242:VAL:O	2:BP:243:ASP:OD1	2.32	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:65:THR:HG23	4:FP:100:LEU:HB2	1.95	0.48
3:CQ:316:ARG:HA	4:DQ:86:VAL:HA	1.95	0.48
2:BR:103:THR:HG21	2:BR:109:THR:HG23	1.95	0.48
2:BR:113:MET:SD	2:BR:118:ALA:HB2	2.53	0.48
3:CR:57:ILE:HG21	3:CR:169:TRP:CD1	2.48	0.48
4:ER:55:ASP:HB3	4:ER:57:ILE:HD12	1.96	0.48
4:DS:105:LEU:O	4:DS:131:ARG:NH2	2.40	0.48
4:DS:105:LEU:HB2	4:DS:131:ARG:HE	1.78	0.48
4:FS:70:ARG:HH21	4:FS:137:ARG:HH22	1.60	0.48
2:BU:62:GLU:O	2:BU:65:GLN:HG3	2.13	0.48
4:FU:65:THR:HG23	4:FU:100:LEU:HB2	1.95	0.48
2:BV:31:THR:O	2:BV:35:GLN:HG2	2.13	0.48
4:FV:70:ARG:HH21	4:FV:137:ARG:HH22	1.60	0.48
3:CW:107:LEU:HD11	3:CW:219:LEU:HD22	1.96	0.48
3:CY:266:ALA:HB1	3:CY:286:ILE:HG12	1.94	0.48
2:B1:139:ARG:HD2	2:B2:202:ILE:HA	1.96	0.48
3:C1:107:LEU:HD11	3:C1:219:LEU:HD22	1.95	0.48
1:A2:558:ASP:OD1	2:B2:6:GLY:HA3	2.14	0.48
2:B2:125:GLU:HA	3:C2:147:THR:HG21	1.95	0.48
2:B2:166:GLY:HA3	2:B3:190:ARG:HG2	1.94	0.48
2:B3:103:THR:HG21	2:B3:109:THR:HG23	1.95	0.48
2:B4:267:GLU:HB3	2:B4:269:PRO:HD2	1.94	0.48
3:C4:238:ASN:HD22	3:C5:112:GLY:HA2	1.76	0.48
3:C4:260:GLU:OE1	4:D4:72:ARG:NH2	2.46	0.48
3:C5:179:TYR:OH	3:C5:182:SER:OG	2.23	0.48
3:C6:256:HIS:HB2	4:F7:104:TYR:CE2	2.48	0.48
4:D7:106:ILE:HD13	4:E7:60:ILE:HD11	1.95	0.48
3:C8:316:ARG:HA	4:D8:86:VAL:HA	1.95	0.48
3:CA:255:GLN:HA	4:DA:75:ILE:HB	1.96	0.48
4:DB:74:THR:N	4:DB:77:GLU:OE2	2.25	0.48
2:BC:125:GLU:HA	3:CC:147:THR:HG21	1.96	0.48
2:BC:210:GLN:O	2:BC:214:VAL:HG23	2.13	0.48
2:BC:245:ARG:HH12	2:BC:249:ARG:HB2	1.77	0.48
3:CE:293:ILE:HD12	3:CE:302:LEU:O	2.14	0.48
4:EG:125:ILE:O	4:EG:126:ILE:HB	2.14	0.48
4:FK:70:ARG:HH21	4:FK:137:ARG:NH2	2.12	0.48
1:AM:558:ASP:OD1	2:BM:6:GLY:HA3	2.14	0.48
2:BM:209:GLN:O	2:BM:212:GLU:HG2	2.13	0.48
4:EN:69:GLY:C	4:EN:70:ARG:HD3	2.38	0.48
4:FN:133:ARG:HH12	4:FN:137:ARG:NH1	2.11	0.48
3:CO:51:LEU:HD22	3:CO:231:LEU:HB3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:238:ASN:ND2	3:CP:112:GLY:HA2	2.27	0.48
4:DP:99:ILE:HD12	4:DP:107:ALA:HB3	1.96	0.48
4:EQ:69:GLY:C	4:EQ:70:ARG:HD3	2.39	0.48
3:CR:281:GLY:HA2	4:DR:121:ARG:HE	1.77	0.48
2:BS:245:ARG:HH12	2:BS:249:ARG:HB2	1.78	0.48
3:CS:238:ASN:ND2	3:CT:112:GLY:HA2	2.28	0.48
4:ES:69:GLY:C	4:ES:70:ARG:HD3	2.39	0.48
4:FS:100:LEU:HA	4:FS:105:LEU:HA	1.95	0.48
4:FS:132:MET:SD	4:FS:135:LEU:HB3	2.53	0.48
2:BT:295:PRO:HB2	2:BU:330:TYR:HB3	1.96	0.48
3:CT:51:LEU:HD22	3:CT:231:LEU:HB3	1.95	0.48
4:FT:70:ARG:HH21	4:FT:137:ARG:NH2	2.12	0.48
4:FT:70:ARG:HH21	4:FT:137:ARG:HH22	1.60	0.48
3:CV:56:ILE:HD11	3:CW:188:PHE:CD1	2.48	0.48
3:CV:146:PHE:HA	3:CV:150:GLU:OE1	2.14	0.48
2:BY:157:VAL:O	2:BY:161:ILE:HG12	2.13	0.48
3:CY:51:LEU:HD22	3:CY:231:LEU:HB3	1.94	0.48
2:B3:21:ARG:O	2:B3:25:VAL:HG23	2.14	0.48
2:B4:139:ARG:NH1	2:B5:201:GLU:HB3	2.29	0.48
2:B4:245:ARG:HH12	2:B4:249:ARG:HB2	1.78	0.48
3:C4:274:GLN:O	3:C4:278:LEU:HB2	2.14	0.48
2:B5:31:THR:O	2:B5:35:GLN:HG2	2.14	0.48
4:D5:99:ILE:HD12	4:D5:107:ALA:HB3	1.96	0.48
2:B6:14:LEU:HB3	2:B7:76:TYR:OH	2.14	0.48
4:E6:93:ALA:HB3	4:F6:116:ASP:OD2	2.13	0.48
3:C7:51:LEU:HD22	3:C7:231:LEU:HB3	1.95	0.48
2:B8:127:PRO:HB2	2:B8:160:ARG:NE	2.28	0.48
2:B9:14:LEU:O	2:BA:76:TYR:OH	2.19	0.48
4:F9:126:ILE:HD11	4:F9:131:ARG:HH21	1.78	0.48
2:BB:78:ARG:HD2	2:BB:79:SER:N	2.28	0.48
3:CB:260:GLU:OE1	4:DB:72:ARG:NH2	2.46	0.48
4:EB:67:GLU:OE1	4:EB:70:ARG:HD2	2.13	0.48
2:BC:196:VAL:C	2:BC:198:THR:H	2.21	0.48
3:CD:316:ARG:HA	4:DD:86:VAL:HA	1.95	0.48
3:CE:271:ARG:HH21	4:DE:59:ASP:HB2	1.79	0.48
4:DF:74:THR:N	4:DF:77:GLU:OE2	2.25	0.48
3:CH:255:GLN:HA	4:DH:75:ILE:HB	1.96	0.48
4:FI:134:ARG:HA	4:FI:137:ARG:NH1	2.29	0.48
4:EJ:125:ILE:O	4:EJ:126:ILE:HB	2.13	0.48
2:BK:46:GLN:HG2	1:AL:549:LEU:HD13	1.95	0.48
2:BK:207:LYS:HG3	2:BK:209:GLN:H	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:139:ARG:HH22	2:BM:198:THR:HG23	1.78	0.48
3:CL:316:ARG:HA	4:DL:86:VAL:HA	1.95	0.48
4:FL:70:ARG:HH21	4:FL:137:ARG:NH2	2.12	0.48
1:AM:553:GLN:O	1:AM:557:ASN:ND2	2.45	0.48
3:CM:56:ILE:HD11	3:CN:188:PHE:CD1	2.49	0.48
3:CM:255:GLN:HA	4:DM:75:ILE:HB	1.96	0.48
3:CM:259:LEU:HD21	4:FN:60:ILE:HG21	1.96	0.48
4:EM:69:GLY:C	4:EM:70:ARG:HD3	2.38	0.48
2:BN:135:VAL:HG11	2:BO:194:GLY:HA3	1.94	0.48
4:EN:58:MET:HE1	4:FN:76:LYS:HD3	1.95	0.48
1:AP:551:ILE:HD11	2:BP:29:LEU:HD11	1.94	0.48
2:BP:171:ALA:HB1	3:CP:131:PHE:CE1	2.49	0.48
4:DP:104:TYR:HB3	4:DP:131:ARG:NH2	2.29	0.48
3:CS:73:LEU:HB3	3:CS:129:ASN:ND2	2.29	0.48
4:ES:55:ASP:HB3	4:ES:57:ILE:HD12	1.95	0.48
4:FT:105:LEU:HD22	4:FT:126:ILE:HD13	1.94	0.48
4:DU:105:LEU:HB2	4:DU:131:ARG:HE	1.78	0.48
4:FU:96:PRO:HB2	4:FU:108:GLN:HB3	1.94	0.48
2:BW:41:MET:HA	2:BW:44:VAL:HB	1.96	0.48
3:CX:274:GLN:O	3:CX:278:LEU:HB2	2.14	0.48
1:AY:547:VAL:HG13	2:BY:25:VAL:HG22	1.95	0.48
3:CY:148:HIS:O	3:CY:152:ARG:HG2	2.14	0.48
3:CY:280:PRO:HG3	4:DY:125:ILE:HG13	1.95	0.48
2:B1:62:GLU:O	2:B1:65:GLN:HG3	2.13	0.48
4:F1:70:ARG:HH21	4:F1:137:ARG:HH22	1.60	0.48
1:A2:522:ARG:HD3	2:B3:64:GLU:HG3	1.96	0.48
4:D2:102:ASN:ND2	4:E2:61:PRO:O	2.46	0.48
1:A3:532:MET:O	1:A3:535:ARG:HB2	2.13	0.48
3:C3:179:TYR:OH	3:C3:182:SER:OG	2.24	0.48
4:D3:101:ILE:HG22	4:D3:106:ILE:HB	1.94	0.48
3:C4:51:LEU:HD22	3:C4:231:LEU:HB3	1.95	0.48
2:B5:103:THR:HG21	2:B5:109:THR:HG23	1.96	0.48
4:E6:69:GLY:C	4:E6:70:ARG:HD3	2.39	0.48
4:D7:99:ILE:HD12	4:D7:107:ALA:HB3	1.95	0.48
4:F7:70:ARG:HH21	4:F7:137:ARG:NH2	2.12	0.48
3:C8:106:HIS:HD2	3:C8:113:THR:HG22	1.79	0.48
4:D8:74:THR:N	4:D8:77:GLU:OE2	2.25	0.48
4:D8:104:TYR:HB3	4:D8:131:ARG:NH2	2.29	0.48
4:E8:69:GLY:C	4:E8:70:ARG:HD3	2.39	0.48
4:E8:73:MET:HE1	4:E8:78:LEU:HD23	1.96	0.48
4:E8:117:LYS:HA	4:E8:117:LYS:HD2	1.71	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:529:ALA:O	1:A9:532:MET:HE3	2.13	0.48
3:C9:255:GLN:HA	4:D9:75:ILE:HB	1.96	0.48
2:BB:21:ARG:O	2:BB:25:VAL:HG23	2.14	0.48
2:BB:166:GLY:HA3	2:BC:190:ARG:HG2	1.95	0.48
3:CB:238:ASN:ND2	3:CC:112:GLY:HA2	2.27	0.48
3:CC:274:GLN:O	3:CC:278:LEU:HB2	2.13	0.48
2:BD:31:THR:O	2:BD:35:GLN:HG2	2.14	0.48
3:CD:184:MET:H	3:CD:188:PHE:HD2	1.62	0.48
4:FD:74:THR:HG23	4:FD:76:LYS:H	1.78	0.48
4:DH:74:THR:N	4:DH:77:GLU:OE2	2.25	0.48
4:EI:67:GLU:OE1	4:EI:70:ARG:HD2	2.13	0.48
2:BJ:62:GLU:O	2:BJ:65:GLN:HG3	2.13	0.48
4:EJ:126:ILE:O	4:EJ:128:PRO:HD3	2.14	0.48
2:BK:103:THR:HG21	2:BK:109:THR:HG23	1.95	0.48
3:CK:56:ILE:HD11	3:CL:188:PHE:CD1	2.48	0.48
3:CK:148:HIS:O	3:CK:152:ARG:HG2	2.14	0.48
3:CK:255:GLN:HA	4:DK:75:ILE:HB	1.96	0.48
2:BL:116:GLN:HA	2:BL:148:LEU:HD13	1.94	0.48
3:CL:274:GLN:O	3:CL:278:LEU:HB2	2.14	0.48
2:BM:37:LEU:O	2:BM:41:MET:HG2	2.13	0.48
2:BM:96:ASP:O	2:BM:100:THR:HG23	2.13	0.48
3:CM:73:LEU:HB3	3:CM:129:ASN:ND2	2.29	0.48
4:EN:59:ASP:HA	4:FN:76:LYS:NZ	2.29	0.48
4:FP:126:ILE:HD11	4:FP:131:ARG:HH21	1.79	0.48
2:BQ:242:VAL:O	2:BQ:243:ASP:OD1	2.32	0.48
3:CQ:51:LEU:HD22	3:CQ:231:LEU:HB3	1.96	0.48
2:BR:245:ARG:HH12	2:BR:249:ARG:HB2	1.78	0.48
3:CS:299:VAL:HA	4:FS:132:MET:CE	2.44	0.48
4:ES:126:ILE:O	4:ES:128:PRO:HD3	2.14	0.48
2:BU:253:GLU:OE1	2:BU:314:ARG:NH2	2.47	0.48
4:DV:104:TYR:HB3	4:DV:131:ARG:NH2	2.29	0.48
4:FV:70:ARG:HH21	4:FV:137:ARG:NH2	2.11	0.48
3:CW:251:VAL:O	3:CW:255:GLN:HG3	2.14	0.48
4:EW:125:ILE:O	4:EW:126:ILE:HB	2.14	0.48
4:F1:105:LEU:HD22	4:F1:126:ILE:HD13	1.95	0.48
4:F1:134:ARG:HA	4:F1:137:ARG:NH1	2.29	0.48
1:A2:555:MET:HE1	2:B2:29:LEU:HD22	1.95	0.48
2:B2:103:THR:HG21	2:B2:109:THR:HG23	1.96	0.48
4:E2:69:GLY:C	4:E2:70:ARG:HD3	2.39	0.48
4:E4:126:ILE:O	4:E4:128:PRO:HD3	2.13	0.48
3:C5:105:ILE:HG21	3:C5:162:LEU:HD21	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E5:69:GLY:C	4:E5:70:ARG:HD3	2.39	0.48
1:A6:532:MET:SD	2:B6:56:LEU:HD13	2.53	0.48
4:F6:70:ARG:HH21	4:F6:137:ARG:NH2	2.11	0.48
3:C8:274:GLN:O	3:C8:278:LEU:HB2	2.14	0.48
3:C9:73:LEU:HB3	3:C9:129:ASN:ND2	2.29	0.48
3:C9:316:ARG:HA	4:D9:86:VAL:HA	1.95	0.48
2:BA:113:MET:SD	2:BA:118:ALA:HB2	2.54	0.48
2:BB:26:PHE:CD2	2:BC:84:ALA:HB1	2.49	0.48
2:BB:155:HIS:HA	2:BB:158:MET:HE2	1.94	0.48
3:CB:299:VAL:HA	4:FB:132:MET:CE	2.43	0.48
3:CD:255:GLN:HA	4:DD:75:ILE:HB	1.96	0.48
1:AE:553:GLN:O	1:AE:557:ASN:ND2	2.47	0.48
4:EF:76:LYS:HZ1	4:FF:58:MET:C	2.19	0.48
2:BG:116:GLN:HA	2:BG:148:LEU:HD13	1.95	0.48
3:CG:255:GLN:HA	4:DG:75:ILE:HB	1.96	0.48
3:CG:316:ARG:HA	4:DG:86:VAL:HA	1.95	0.48
2:BH:166:GLY:HA3	2:BI:190:ARG:HG2	1.95	0.48
2:BI:103:THR:HG21	2:BI:109:THR:HG23	1.95	0.48
1:AJ:553:GLN:O	1:AJ:557:ASN:ND2	2.46	0.48
1:AK:547:VAL:HG23	2:BK:59:PHE:CZ	2.44	0.48
1:AK:558:ASP:OD1	2:BK:6:GLY:HA3	2.14	0.48
4:EK:69:GLY:C	4:EK:70:ARG:HD3	2.39	0.48
3:CL:51:LEU:HD22	3:CL:231:LEU:HB3	1.95	0.48
2:BM:166:GLY:HA3	2:BN:190:ARG:HG2	1.94	0.48
2:BN:103:THR:HG21	2:BN:109:THR:HG23	1.94	0.48
3:CN:89:TYR:HD2	3:CN:195:PRO:HA	1.79	0.48
3:CN:260:GLU:OE1	4:DN:72:ARG:NH2	2.47	0.48
3:CO:148:HIS:O	3:CO:152:ARG:HG2	2.13	0.48
2:BP:134:LEU:HD13	2:BP:146:LEU:HD11	1.96	0.48
3:CP:112:GLY:HA3	3:CP:223:MET:HE1	1.95	0.48
2:BQ:30:SER:O	2:BQ:34:VAL:HG23	2.14	0.48
2:BQ:103:THR:HG21	2:BQ:109:THR:HG23	1.96	0.48
4:FQ:65:THR:HG23	4:FQ:100:LEU:HB2	1.96	0.48
4:FR:134:ARG:HA	4:FR:137:ARG:NH1	2.29	0.48
2:BT:196:VAL:C	2:BT:198:THR:H	2.22	0.48
2:BU:242:VAL:O	2:BU:243:ASP:OD1	2.31	0.48
2:BV:78:ARG:HA	2:BV:94:LEU:HD11	1.96	0.48
3:CX:73:LEU:HB3	3:CX:129:ASN:ND2	2.29	0.48
2:BY:77:LEU:HD21	2:BY:97:ILE:HG13	1.96	0.48
3:CY:271:ARG:HH21	4:DY:59:ASP:HB2	1.79	0.48
1:A1:553:GLN:O	1:A1:557:ASN:ND2	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:250:LEU:HD21	4:E2:78:LEU:O	2.13	0.48
3:C3:146:PHE:HA	3:C3:150:GLU:OE1	2.14	0.48
4:F3:65:THR:HG23	4:F3:100:LEU:HB2	1.95	0.48
2:B4:125:GLU:HA	3:C4:147:THR:HG21	1.96	0.48
4:D4:99:ILE:HD12	4:D4:107:ALA:HB3	1.96	0.48
3:C6:105:ILE:HG21	3:C6:162:LEU:HD21	1.95	0.48
3:C6:238:ASN:HD22	3:C7:112:GLY:HA2	1.78	0.48
2:B7:268:PRO:HG3	2:B7:271:ARG:HH21	1.79	0.48
4:F7:133:ARG:HH12	4:F7:137:ARG:HH11	1.62	0.48
3:C8:260:GLU:OE1	4:D8:72:ARG:NH2	2.45	0.48
2:BA:166:GLY:O	3:CA:132:GLY:HA2	2.14	0.48
4:EA:75:ILE:HG13	4:FA:58:MET:HG2	1.95	0.48
1:AB:547:VAL:HG23	2:BB:59:PHE:CZ	2.43	0.48
3:CC:73:LEU:HB3	3:CC:129:ASN:ND2	2.29	0.48
4:EC:74:THR:HG22	4:EC:75:ILE:H	1.78	0.48
2:BD:166:GLY:HA3	2:BE:190:ARG:HG2	1.95	0.48
3:CD:105:ILE:HG21	3:CD:162:LEU:HD21	1.95	0.48
3:CG:73:LEU:HB3	3:CG:129:ASN:ND2	2.29	0.48
4:DG:74:THR:N	4:DG:77:GLU:OE2	2.25	0.48
4:FH:70:ARG:HH21	4:FH:137:ARG:HH22	1.61	0.48
3:CI:73:LEU:HB3	3:CI:129:ASN:ND2	2.29	0.48
4:FJ:133:ARG:HH12	4:FJ:137:ARG:NH1	2.12	0.48
1:AK:522:ARG:HD3	2:BL:64:GLU:HG3	1.95	0.48
3:CK:238:ASN:HD22	3:CL:112:GLY:HA2	1.79	0.48
2:BL:166:GLY:HA3	2:BM:190:ARG:HG2	1.96	0.48
3:CL:260:GLU:OE1	4:DL:72:ARG:NH2	2.47	0.48
4:DL:101:ILE:HD13	4:EL:60:ILE:HD13	1.96	0.48
3:CM:145:GLU:HA	3:CM:184:MET:HE3	1.96	0.48
3:CM:316:ARG:HA	4:DM:86:VAL:HA	1.94	0.48
4:DM:104:TYR:CE2	4:EM:61:PRO:HG3	2.48	0.48
4:FO:70:ARG:HH21	4:FO:137:ARG:HH22	1.60	0.48
2:BQ:38:SER:HA	2:BQ:41:MET:HG2	1.96	0.48
2:BQ:157:VAL:O	2:BQ:161:ILE:HG12	2.14	0.48
3:CQ:251:VAL:O	3:CQ:255:GLN:HG3	2.14	0.48
2:BR:21:ARG:O	2:BR:25:VAL:HG23	2.13	0.48
3:CS:251:VAL:O	3:CS:255:GLN:HG3	2.14	0.48
4:ET:59:ASP:HA	4:FT:76:LYS:NZ	2.28	0.48
3:CU:146:PHE:HA	3:CU:150:GLU:OE1	2.13	0.48
2:BV:46:GLN:NE2	2:BV:47:ILE:O	2.47	0.48
2:BW:26:PHE:HD1	2:BW:29:LEU:HD12	1.77	0.48
2:BW:46:GLN:NE2	2:BX:68:ALA:H	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:281:GLY:HA2	4:DW:121:ARG:HE	1.78	0.48
4:FX:70:ARG:HH21	4:FX:137:ARG:NH2	2.12	0.48
3:CY:73:LEU:HB3	3:CY:129:ASN:ND2	2.29	0.48
2:B2:46:GLN:HB2	1:A3:549:LEU:HD13	1.95	0.47
3:C2:274:GLN:O	3:C2:278:LEU:HB2	2.14	0.47
2:B3:251:LEU:HD22	2:B3:278:MET:HG2	1.96	0.47
4:F4:134:ARG:HA	4:F4:137:ARG:HH12	1.78	0.47
3:C6:260:GLU:OE1	4:D6:72:ARG:NH2	2.46	0.47
4:F6:134:ARG:HA	4:F6:137:ARG:NH1	2.28	0.47
2:B7:38:SER:HB3	2:B8:97:ILE:HD11	1.96	0.47
2:B7:166:GLY:HA3	2:B8:190:ARG:HG2	1.96	0.47
4:E7:126:ILE:O	4:E7:128:PRO:HD3	2.14	0.47
2:B8:245:ARG:NH1	2:B8:249:ARG:HB2	2.28	0.47
3:C8:250:LEU:HD21	4:E9:78:LEU:O	2.14	0.47
2:B9:78:ARG:HA	2:B9:94:LEU:HD11	1.96	0.47
3:C9:251:VAL:O	3:C9:255:GLN:HG3	2.14	0.47
3:C9:299:VAL:HA	4:F9:132:MET:CE	2.44	0.47
3:CA:251:VAL:O	3:CA:255:GLN:HG3	2.14	0.47
4:EA:69:GLY:C	4:EA:70:ARG:HD3	2.39	0.47
2:BC:41:MET:HG3	2:BD:77:LEU:HD21	1.95	0.47
2:BC:209:GLN:O	2:BC:212:GLU:HG2	2.14	0.47
2:BD:251:LEU:HD13	2:BD:278:MET:HE3	1.96	0.47
3:CD:146:PHE:HA	3:CD:150:GLU:OE1	2.13	0.47
3:CF:107:LEU:HD11	3:CF:219:LEU:HD22	1.96	0.47
3:CG:250:LEU:HD21	4:EH:78:LEU:O	2.14	0.47
3:CH:274:GLN:O	3:CH:278:LEU:HB2	2.14	0.47
4:DI:74:THR:N	4:DI:77:GLU:OE2	2.25	0.47
2:BJ:242:VAL:O	2:BJ:243:ASP:OD1	2.32	0.47
4:EJ:92:LEU:HA	4:FJ:117:LYS:HD2	1.95	0.47
3:CL:73:LEU:HB3	3:CL:129:ASN:ND2	2.29	0.47
3:CL:255:GLN:HA	4:DL:75:ILE:HB	1.96	0.47
3:CO:251:VAL:O	3:CO:255:GLN:HG3	2.14	0.47
3:CO:281:GLY:HA2	4:DO:121:ARG:HE	1.78	0.47
4:DQ:98:ASP:OD1	4:DQ:99:ILE:N	2.46	0.47
1:AR:544:PRO:HA	1:AR:547:VAL:HG12	1.96	0.47
3:CR:73:LEU:HB3	3:CR:129:ASN:ND2	2.29	0.47
4:ER:130:GLU:HA	4:ER:133:ARG:HE	1.79	0.47
3:CS:89:TYR:HD2	3:CS:195:PRO:HA	1.79	0.47
3:CS:255:GLN:HA	4:DS:75:ILE:HB	1.95	0.47
2:BT:116:GLN:HA	2:BT:148:LEU:HD13	1.95	0.47
4:DT:78:LEU:HA	4:DT:81:LEU:HD23	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:73:LEU:HB3	3:CU:129:ASN:ND2	2.29	0.47
3:CV:251:VAL:O	3:CV:255:GLN:HG3	2.14	0.47
4:DV:99:ILE:HD12	4:DV:107:ALA:HB3	1.96	0.47
1:AW:522:ARG:HD3	2:BX:64:GLU:HG3	1.96	0.47
2:BW:90:ALA:O	2:BW:94:LEU:HG	2.14	0.47
2:BW:268:PRO:HG3	2:BW:271:ARG:HH21	1.79	0.47
1:AX:536:ILE:HA	1:AX:539:MET:HG2	1.96	0.47
2:BX:125:GLU:HA	3:CX:147:THR:HG21	1.96	0.47
2:BY:111:ASN:HD21	2:BY:138:LYS:HB2	1.79	0.47
2:B1:42:ALA:HB2	2:B2:97:ILE:HG23	1.96	0.47
4:E1:69:GLY:C	4:E1:70:ARG:HD3	2.39	0.47
3:C2:73:LEU:HB3	3:C2:129:ASN:ND2	2.29	0.47
3:C2:105:ILE:HG21	3:C2:162:LEU:HD21	1.95	0.47
3:C2:250:LEU:HD21	4:E3:78:LEU:O	2.13	0.47
3:C3:73:LEU:HB3	3:C3:129:ASN:ND2	2.29	0.47
1:A4:522:ARG:HD3	2:B5:64:GLU:HG3	1.96	0.47
4:F4:65:THR:HG23	4:F4:100:LEU:HB2	1.95	0.47
1:A5:544:PRO:HA	1:A5:547:VAL:HG12	1.96	0.47
2:B5:116:GLN:HA	2:B5:148:LEU:HD13	1.96	0.47
3:C7:73:LEU:HB3	3:C7:129:ASN:ND2	2.29	0.47
4:D7:74:THR:N	4:D7:77:GLU:OE2	2.25	0.47
1:A8:540:SER:OG	2:B8:21:ARG:HD3	2.14	0.47
4:D8:99:ILE:HD12	4:D8:107:ALA:HB3	1.96	0.47
3:C9:75:ARG:HD3	3:C9:129:ASN:ND2	2.29	0.47
4:D9:99:ILE:HD12	4:D9:107:ALA:HB3	1.96	0.47
2:BB:139:ARG:HD2	2:BC:202:ILE:CA	2.42	0.47
3:CB:316:ARG:HA	4:DB:86:VAL:HA	1.95	0.47
2:BC:268:PRO:HG3	2:BC:271:ARG:HH21	1.79	0.47
3:CC:238:ASN:ND2	3:CD:112:GLY:HA2	2.29	0.47
2:BE:46:GLN:HE22	2:BF:68:ALA:C	2.22	0.47
4:EG:59:ASP:HA	4:FG:76:LYS:NZ	2.29	0.47
2:BH:196:VAL:C	2:BH:198:THR:H	2.21	0.47
1:AI:553:GLN:O	1:AI:557:ASN:ND2	2.47	0.47
4:FI:70:ARG:HH21	4:FI:137:ARG:NH2	2.11	0.47
3:CJ:228:ARG:O	3:CJ:232:VAL:HG23	2.14	0.47
3:CK:228:ARG:O	3:CK:232:VAL:HG23	2.14	0.47
2:BL:242:VAL:O	2:BL:243:ASP:OD1	2.33	0.47
2:BM:196:VAL:C	2:BM:198:THR:H	2.22	0.47
3:CP:240:ARG:N	3:CP:242:GLU:OE1	2.40	0.47
2:BQ:201:GLU:HA	2:BQ:204:ASN:HD22	1.79	0.47
3:CQ:228:ARG:O	3:CQ:232:VAL:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:280:PRO:HG3	4:DQ:125:ILE:HG13	1.95	0.47
4:FQ:134:ARG:HA	4:FQ:137:ARG:HH12	1.79	0.47
2:BR:196:VAL:C	2:BR:198:THR:H	2.22	0.47
2:BS:103:THR:HG21	2:BS:109:THR:HG23	1.94	0.47
3:CS:260:GLU:OE1	4:DS:72:ARG:NH2	2.47	0.47
4:ET:69:GLY:C	4:ET:70:ARG:HD3	2.39	0.47
2:BU:46:GLN:NE2	2:BU:47:ILE:O	2.47	0.47
2:BU:111:ASN:CG	2:BU:138:LYS:H	2.22	0.47
3:CU:281:GLY:HA2	4:DU:121:ARG:HE	1.78	0.47
3:CV:271:ARG:HH21	4:DV:59:ASP:HB2	1.79	0.47
2:BW:9:LYS:HA	2:BW:12:ILE:HD12	1.97	0.47
3:CW:259:LEU:HD21	4:FX:60:ILE:HG21	1.96	0.47
4:EW:126:ILE:O	4:EW:128:PRO:HD3	2.14	0.47
2:B1:125:GLU:HA	3:C1:147:THR:HG21	1.96	0.47
2:B2:46:GLN:NE2	1:A3:549:LEU:HD12	2.29	0.47
2:B2:245:ARG:HH12	2:B2:249:ARG:HB2	1.78	0.47
4:E4:125:ILE:O	4:E4:126:ILE:HB	2.13	0.47
4:F4:132:MET:SD	4:F4:135:LEU:HB3	2.54	0.47
3:C5:73:LEU:HB3	3:C5:129:ASN:ND2	2.29	0.47
3:C5:238:ASN:ND2	3:C6:112:GLY:HA2	2.27	0.47
3:C6:51:LEU:HD22	3:C6:231:LEU:HB3	1.95	0.47
2:B7:110:LEU:HA	2:B7:113:MET:HG3	1.95	0.47
1:A8:558:ASP:OD1	2:B8:6:GLY:HA3	2.13	0.47
2:B9:26:PHE:CD2	2:BA:84:ALA:HB1	2.50	0.47
2:B9:125:GLU:HA	3:C9:147:THR:HG21	1.96	0.47
4:E9:92:LEU:HA	4:F9:117:LYS:HD2	1.96	0.47
1:AA:522:ARG:HD3	2:BB:64:GLU:HG3	1.95	0.47
2:BA:209:GLN:O	2:BA:212:GLU:HG2	2.15	0.47
4:EA:125:ILE:O	4:EA:126:ILE:HB	2.14	0.47
4:EB:59:ASP:HA	4:FB:76:LYS:HZ3	1.78	0.47
2:BC:43:ASN:O	2:BC:45:ARG:NH1	2.46	0.47
3:CC:51:LEU:HD22	3:CC:231:LEU:HB3	1.95	0.47
3:CD:73:LEU:HB3	3:CD:129:ASN:ND2	2.30	0.47
3:CD:250:LEU:HD21	4:EE:78:LEU:O	2.14	0.47
3:CD:260:GLU:OE1	4:DD:72:ARG:NH2	2.47	0.47
4:FE:70:ARG:HH21	4:FE:137:ARG:HH22	1.60	0.47
2:BG:72:ASN:O	2:BG:76:TYR:HB2	2.13	0.47
4:EH:125:ILE:O	4:EH:126:ILE:HB	2.14	0.47
2:BM:41:MET:HE2	2:BN:77:LEU:HD22	1.97	0.47
3:CM:251:VAL:O	3:CM:255:GLN:HG3	2.14	0.47
3:CN:296:VAL:HG23	3:CN:301:VAL:HG21	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DO:99:ILE:HD12	4:DO:107:ALA:HB3	1.97	0.47
2:BP:30:SER:O	2:BP:34:VAL:HG23	2.14	0.47
4:EP:55:ASP:HB3	4:EP:57:ILE:HD12	1.97	0.47
3:CR:228:ARG:O	3:CR:232:VAL:HG23	2.14	0.47
2:BS:171:ALA:HB1	3:CS:131:PHE:CE1	2.49	0.47
4:ES:93:ALA:HB3	4:FS:116:ASP:OD1	2.14	0.47
4:FS:70:ARG:HH21	4:FS:137:ARG:NH2	2.11	0.47
2:BT:18:GLY:O	2:BU:76:TYR:OH	2.32	0.47
3:CT:258:GLU:OE1	4:DT:73:MET:N	2.47	0.47
2:BU:251:LEU:HA	2:BU:254:VAL:HG12	1.94	0.47
3:CU:105:ILE:HG21	3:CU:162:LEU:HD21	1.95	0.47
4:EU:125:ILE:O	4:EU:126:ILE:HB	2.15	0.47
3:CV:184:MET:H	3:CV:188:PHE:HD2	1.63	0.47
1:AW:544:PRO:HA	1:AW:547:VAL:HG12	1.94	0.47
3:CW:73:LEU:HB3	3:CW:129:ASN:ND2	2.29	0.47
2:BY:1:MET:HA	2:BY:51:GLN:HE22	1.79	0.47
4:FY:134:ARG:HA	4:FY:137:ARG:NH1	2.28	0.47
2:B1:251:LEU:HA	2:B1:254:VAL:HG12	1.96	0.47
3:C1:51:LEU:HD22	3:C1:231:LEU:HB3	1.95	0.47
2:B3:2:SER:H	2:B3:51:GLN:NE2	2.13	0.47
3:C3:273:SER:OG	4:D3:58:MET:O	2.15	0.47
4:D3:99:ILE:HD12	4:D3:107:ALA:HB3	1.96	0.47
3:C5:255:GLN:HA	4:D5:75:ILE:HB	1.96	0.47
4:D6:99:ILE:HD12	4:D6:107:ALA:HB3	1.96	0.47
4:E7:69:GLY:C	4:E7:70:ARG:HD3	2.39	0.47
3:C8:105:ILE:HG21	3:C8:162:LEU:HD21	1.96	0.47
3:C8:123:VAL:HG22	3:C8:157:MET:HE1	1.95	0.47
2:BB:245:ARG:HH12	2:BB:249:ARG:HB2	1.78	0.47
4:EB:125:ILE:O	4:EB:126:ILE:HB	2.14	0.47
4:FB:132:MET:SD	4:FB:135:LEU:HB3	2.54	0.47
4:FB:134:ARG:HA	4:FB:137:ARG:NH1	2.29	0.47
1:AC:532:MET:SD	2:BC:56:LEU:HD13	2.54	0.47
3:CC:146:PHE:HA	3:CC:150:GLU:OE1	2.15	0.47
3:CC:253:GLN:HG3	4:FD:125:ILE:HD11	1.96	0.47
3:CE:179:TYR:OH	3:CE:182:SER:OG	2.25	0.47
4:DF:99:ILE:HD12	4:DF:107:ALA:HB3	1.97	0.47
4:EF:75:ILE:HG13	4:FF:58:MET:HG2	1.95	0.47
4:EF:125:ILE:O	4:EF:126:ILE:HB	2.14	0.47
2:BG:125:GLU:HA	3:CG:147:THR:HG21	1.96	0.47
2:BI:274:PHE:CE2	2:BI:278:MET:HE1	2.49	0.47
3:CI:271:ARG:HH21	4:DI:59:ASP:HB2	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:133:ARG:HH12	4:FI:137:ARG:HH11	1.62	0.47
4:DJ:102:ASN:ND2	4:EJ:61:PRO:O	2.45	0.47
4:FJ:70:ARG:HH21	4:FJ:137:ARG:HH22	1.61	0.47
4:DK:131:ARG:NH1	4:EK:59:ASP:OD2	2.47	0.47
1:AM:552:ARG:HA	1:AM:555:MET:HE3	1.96	0.47
2:BO:93:LEU:O	2:BO:97:ILE:HG12	2.14	0.47
3:CO:73:LEU:HB3	3:CO:129:ASN:ND2	2.29	0.47
2:BQ:110:LEU:HA	2:BQ:113:MET:HG3	1.95	0.47
4:DQ:73:MET:HE1	4:DQ:78:LEU:HA	1.96	0.47
4:DQ:130:GLU:HG3	4:DQ:134:ARG:HD2	1.95	0.47
4:EQ:125:ILE:O	4:EQ:126:ILE:HB	2.15	0.47
4:ER:126:ILE:O	4:ER:128:PRO:HD3	2.15	0.47
2:BS:139:ARG:HG3	2:BT:201:GLU:CD	2.39	0.47
2:BT:46:GLN:HE21	2:BU:70:ASN:ND2	2.12	0.47
4:EU:131:ARG:HA	4:EU:134:ARG:NH1	2.29	0.47
2:BV:11:VAL:O	2:BV:15:MET:HG2	2.14	0.47
1:AW:547:VAL:HG23	2:BW:59:PHE:CZ	2.44	0.47
1:AY:555:MET:SD	2:BY:33:GLU:HB3	2.55	0.47
2:BY:242:VAL:O	2:BY:243:ASP:OD1	2.32	0.47
3:CY:274:GLN:O	3:CY:278:LEU:HB2	2.14	0.47
2:B1:68:ALA:O	2:B1:70:ASN:ND2	2.48	0.47
2:B1:194:GLY:HA3	2:BY:135:VAL:HG11	1.95	0.47
2:B2:11:VAL:O	2:B2:15:MET:HG2	2.14	0.47
4:F4:70:ARG:HH21	4:F4:137:ARG:NH2	2.11	0.47
4:D6:102:ASN:ND2	4:E6:61:PRO:O	2.37	0.47
2:B7:209:GLN:O	2:B7:212:GLU:HG2	2.15	0.47
3:C7:260:GLU:OE1	4:D7:72:ARG:NH2	2.46	0.47
3:C7:299:VAL:HA	4:F7:132:MET:CE	2.44	0.47
2:B9:21:ARG:O	2:B9:25:VAL:HG23	2.15	0.47
2:B9:209:GLN:O	2:B9:212:GLU:HG2	2.13	0.47
4:F9:134:ARG:HA	4:F9:137:ARG:NH1	2.28	0.47
2:BA:31:THR:O	2:BA:35:GLN:HG2	2.14	0.47
3:CA:293:ILE:HD12	3:CA:302:LEU:O	2.15	0.47
4:FA:70:ARG:HH21	4:FA:137:ARG:NH2	2.12	0.47
3:CB:250:LEU:HD21	4:EC:78:LEU:O	2.14	0.47
2:BE:242:VAL:O	2:BE:243:ASP:OD1	2.32	0.47
3:CE:73:LEU:HB3	3:CE:129:ASN:ND2	2.29	0.47
2:BF:81:LEU:HD13	2:BF:93:LEU:HB2	1.96	0.47
4:DF:104:TYR:HB3	4:DF:131:ARG:NH2	2.29	0.47
2:BG:10:SER:HA	2:BG:13:LEU:HD12	1.97	0.47
2:BG:251:LEU:HA	2:BG:254:VAL:HG12	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:99:ILE:HD12	4:DG:107:ALA:HB3	1.97	0.47
1:AH:555:MET:HE1	2:BH:29:LEU:HD22	1.97	0.47
2:BH:9:LYS:HA	2:BH:12:ILE:HD12	1.95	0.47
2:BH:110:LEU:HA	2:BH:113:MET:HG3	1.96	0.47
3:CH:73:LEU:HB3	3:CH:129:ASN:ND2	2.30	0.47
4:DH:99:ILE:HD12	4:DH:107:ALA:HB3	1.97	0.47
3:CI:56:ILE:HD11	3:CJ:188:PHE:CD1	2.50	0.47
3:CL:228:ARG:O	3:CL:232:VAL:HG23	2.14	0.47
3:CN:146:PHE:HA	3:CN:150:GLU:OE1	2.15	0.47
2:BP:46:GLN:HB2	1:AQ:549:LEU:HD22	1.97	0.47
2:BP:46:GLN:HE22	2:BQ:68:ALA:C	2.23	0.47
3:CP:228:ARG:O	3:CP:232:VAL:HG23	2.15	0.47
1:AS:534:GLN:HG3	1:AS:537:ARG:HH21	1.78	0.47
4:DT:102:ASN:ND2	4:ET:61:PRO:O	2.47	0.47
4:ET:93:ALA:HB3	4:FT:116:ASP:OD1	2.13	0.47
4:EU:69:GLY:C	4:EU:70:ARG:HD3	2.39	0.47
2:BW:103:THR:HG21	2:BW:109:THR:HG23	1.95	0.47
4:EW:69:GLY:C	4:EW:70:ARG:HD3	2.39	0.47
2:BX:253:GLU:OE1	2:BX:314:ARG:NH2	2.48	0.47
3:CX:222:SER:HA	3:CX:225:GLU:HG2	1.96	0.47
4:DX:99:ILE:HD12	4:DX:107:ALA:HB3	1.97	0.47
4:EX:69:GLY:C	4:EX:70:ARG:HD3	2.39	0.47
2:BY:103:THR:HG21	2:BY:109:THR:HG23	1.95	0.47
4:FY:126:ILE:HD11	4:FY:131:ARG:HH21	1.78	0.47
4:D1:101:ILE:HG22	4:D1:106:ILE:HB	1.96	0.47
3:C2:146:PHE:HA	3:C2:150:GLU:OE1	2.14	0.47
3:C3:56:ILE:HD11	3:C4:188:PHE:CD1	2.48	0.47
3:C3:251:VAL:O	3:C3:255:GLN:HG3	2.15	0.47
3:C3:299:VAL:HA	4:F3:132:MET:CE	2.44	0.47
3:C4:255:GLN:HA	4:D4:75:ILE:HB	1.96	0.47
2:B5:242:VAL:O	2:B5:243:ASP:OD1	2.33	0.47
1:A7:544:PRO:HA	1:A7:547:VAL:HG12	1.96	0.47
2:B7:93:LEU:O	2:B7:97:ILE:HG12	2.14	0.47
3:C8:73:LEU:HB3	3:C8:129:ASN:ND2	2.29	0.47
2:B9:246:SER:O	2:B9:250:LEU:HD23	2.14	0.47
3:CA:105:ILE:HG21	3:CA:162:LEU:HD21	1.96	0.47
4:EA:126:ILE:O	4:EA:128:PRO:HD3	2.14	0.47
1:AC:549:LEU:HA	1:AC:552:ARG:HB2	1.96	0.47
4:EC:126:ILE:O	4:EC:128:PRO:HD3	2.15	0.47
2:BD:110:LEU:HA	2:BD:113:MET:HG3	1.96	0.47
4:DE:101:ILE:HG22	4:DE:106:ILE:HB	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:65:THR:HG23	4:FE:100:LEU:HB2	1.96	0.47
2:BG:31:THR:O	2:BG:35:GLN:HG2	2.13	0.47
2:BG:196:VAL:C	2:BG:198:THR:H	2.22	0.47
4:EH:105:LEU:HD21	4:EH:108:GLN:NE2	2.30	0.47
2:BI:93:LEU:O	2:BI:97:ILE:HG12	2.15	0.47
3:CI:228:ARG:O	3:CI:232:VAL:HG23	2.14	0.47
2:BJ:125:GLU:HA	3:CJ:147:THR:HG21	1.95	0.47
2:BK:81:LEU:HD12	2:BK:94:LEU:HG	1.96	0.47
3:CK:271:ARG:HH21	4:DK:59:ASP:HB2	1.80	0.47
4:EL:69:GLY:C	4:EL:70:ARG:HD3	2.40	0.47
4:EM:74:THR:O	4:EM:78:LEU:HG	2.14	0.47
2:BN:196:VAL:C	2:BN:198:THR:H	2.21	0.47
2:BO:31:THR:O	2:BO:35:GLN:HG2	2.15	0.47
3:CO:228:ARG:O	3:CO:232:VAL:HG23	2.14	0.47
3:CP:255:GLN:HA	4:DP:75:ILE:HB	1.97	0.47
3:CR:238:ASN:ND2	3:CS:112:GLY:HA2	2.27	0.47
4:ER:76:LYS:NZ	4:FR:59:ASP:HA	2.30	0.47
4:FR:133:ARG:HH12	4:FR:137:ARG:HH11	1.61	0.47
2:BS:69:LEU:HG	2:BS:70:ASN:N	2.30	0.47
3:CS:228:ARG:O	3:CS:232:VAL:HG23	2.14	0.47
4:DU:130:GLU:HG3	4:DU:134:ARG:HD2	1.96	0.47
2:BW:10:SER:HA	2:BW:13:LEU:HD12	1.97	0.47
2:BW:81:LEU:HD13	2:BW:93:LEU:HB2	1.97	0.47
2:BX:21:ARG:O	2:BX:25:VAL:HG23	2.15	0.47
2:BY:31:THR:O	2:BY:35:GLN:HG2	2.14	0.47
3:CY:89:TYR:HD2	3:CY:195:PRO:HA	1.80	0.47
3:C1:73:LEU:HB3	3:C1:129:ASN:ND2	2.30	0.47
3:C1:255:GLN:HA	4:D1:75:ILE:HB	1.96	0.47
3:C2:260:GLU:OE1	4:D2:72:ARG:NH2	2.47	0.47
1:A3:547:VAL:HG23	2:B3:59:PHE:CZ	2.47	0.47
2:B3:207:LYS:HG3	2:B3:209:GLN:H	1.79	0.47
3:C3:266:ALA:HB1	3:C3:286:ILE:HG12	1.96	0.47
2:B4:78:ARG:HG3	2:B4:94:LEU:CD1	2.44	0.47
2:B4:206:MET:HB2	2:B4:211:GLU:HB3	1.96	0.47
3:C4:56:ILE:HD11	3:C5:188:PHE:CD1	2.50	0.47
3:C4:251:VAL:O	3:C4:255:GLN:HG3	2.15	0.47
2:B5:26:PHE:HA	2:B5:29:LEU:HD12	1.97	0.47
3:C5:253:GLN:HG3	4:F6:125:ILE:HD11	1.96	0.47
4:F5:100:LEU:HA	4:F5:105:LEU:HA	1.97	0.47
3:C6:73:LEU:HB3	3:C6:129:ASN:ND2	2.30	0.47
3:C7:271:ARG:HH21	4:D7:59:ASP:HB2	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:75:ARG:HD3	3:C8:129:ASN:ND2	2.30	0.47
2:B9:253:GLU:OE1	2:B9:314:ARG:NH2	2.48	0.47
4:D9:101:ILE:HG22	4:D9:106:ILE:HB	1.96	0.47
4:E9:73:MET:HE1	4:E9:78:LEU:HD23	1.97	0.47
1:AA:555:MET:HE1	2:BA:29:LEU:HD22	1.95	0.47
4:FA:100:LEU:HA	4:FA:105:LEU:HA	1.97	0.47
2:BB:38:SER:HA	2:BB:41:MET:HG2	1.97	0.47
3:CB:75:ARG:HD3	3:CB:129:ASN:ND2	2.30	0.47
4:DB:99:ILE:HD12	4:DB:107:ALA:HB3	1.97	0.47
1:AC:522:ARG:HD3	2:BD:64:GLU:HG3	1.95	0.47
1:AC:544:PRO:HA	1:AC:547:VAL:HG12	1.97	0.47
2:BC:21:ARG:O	2:BC:25:VAL:HG23	2.14	0.47
2:BC:26:PHE:CD2	2:BD:84:ALA:HB1	2.50	0.47
1:AD:549:LEU:HA	1:AD:552:ARG:HB2	1.96	0.47
2:BD:81:LEU:HD12	2:BD:94:LEU:HG	1.96	0.47
2:BD:246:SER:O	2:BD:250:LEU:HD23	2.14	0.47
3:CD:75:ARG:HD3	3:CD:129:ASN:ND2	2.30	0.47
3:CD:272:LEU:HB2	4:DD:60:ILE:HB	1.97	0.47
4:ED:73:MET:HE1	4:ED:78:LEU:HD23	1.97	0.47
1:AE:532:MET:O	1:AE:536:ILE:HG12	2.15	0.47
2:BE:158:MET:HE1	2:BF:218:VAL:HG21	1.96	0.47
4:EE:125:ILE:O	4:EE:126:ILE:HB	2.14	0.47
1:AF:555:MET:HE1	2:BF:29:LEU:HD22	1.96	0.47
2:BF:93:LEU:O	2:BF:97:ILE:HG12	2.14	0.47
2:BF:110:LEU:HA	2:BF:113:MET:HG3	1.96	0.47
2:BF:166:GLY:HA3	2:BG:190:ARG:HG2	1.97	0.47
2:BF:268:PRO:HG3	2:BF:271:ARG:HH21	1.80	0.47
3:CF:51:LEU:HD22	3:CF:231:LEU:HB3	1.95	0.47
4:EF:69:GLY:C	4:EF:70:ARG:HD3	2.39	0.47
2:BG:246:SER:O	2:BG:250:LEU:HD23	2.15	0.47
3:CG:251:VAL:O	3:CG:255:GLN:HG3	2.15	0.47
3:CG:274:GLN:O	3:CG:278:LEU:HB2	2.14	0.47
4:DG:101:ILE:HD13	4:EG:60:ILE:HD13	1.97	0.47
4:FG:133:ARG:HH12	4:FG:137:ARG:NH1	2.12	0.47
3:CH:271:ARG:HH21	4:DH:59:ASP:HB2	1.79	0.47
4:EH:69:GLY:C	4:EH:70:ARG:HD3	2.39	0.47
3:CI:251:VAL:O	3:CI:255:GLN:HG3	2.15	0.47
4:DI:99:ILE:HD12	4:DI:107:ALA:HB3	1.97	0.47
2:BJ:139:ARG:HG2	2:BK:201:GLU:OE1	2.15	0.47
3:CJ:73:LEU:HB3	3:CJ:129:ASN:ND2	2.29	0.47
4:EJ:69:GLY:C	4:EJ:70:ARG:HD3	2.40	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EJ:73:MET:HE1	4:EJ:78:LEU:HD23	1.97	0.47
2:BL:203:ILE:HG12	2:BL:214:VAL:HG11	1.96	0.47
3:CL:56:ILE:HD11	3:CM:188:PHE:CD1	2.50	0.47
4:EL:126:ILE:O	4:EL:128:PRO:HD3	2.14	0.47
1:AM:522:ARG:HD3	2:BN:64:GLU:HG3	1.97	0.47
1:AM:547:VAL:HG23	2:BM:59:PHE:CZ	2.41	0.47
2:BM:125:GLU:HA	3:CM:147:THR:HG21	1.95	0.47
2:BM:131:ALA:O	2:BM:135:VAL:HG23	2.14	0.47
2:BM:207:LYS:HG3	2:BM:209:GLN:H	1.78	0.47
2:BM:242:VAL:O	2:BM:243:ASP:OD1	2.33	0.47
4:FM:133:ARG:HH12	4:FM:137:ARG:NH1	2.13	0.47
1:AN:558:ASP:OD1	2:BN:6:GLY:HA3	2.15	0.47
2:BN:171:ALA:HB1	3:CN:131:PHE:CE1	2.49	0.47
2:BN:321:MET:HE2	2:BN:321:MET:HB3	1.71	0.47
3:CN:73:LEU:HB3	3:CN:129:ASN:ND2	2.30	0.47
3:CN:272:LEU:HB2	4:DN:60:ILE:HB	1.97	0.47
3:CN:274:GLN:O	3:CN:278:LEU:HB2	2.15	0.47
2:BO:273:LYS:HA	2:BO:276:ARG:NH1	2.30	0.47
3:CO:146:PHE:HA	3:CO:150:GLU:OE1	2.14	0.47
3:CP:75:ARG:HD3	3:CP:129:ASN:ND2	2.29	0.47
3:CP:123:VAL:HG22	3:CP:157:MET:HE1	1.95	0.47
4:EP:126:ILE:O	4:EP:128:PRO:HD3	2.14	0.47
1:AQ:558:ASP:OD1	2:BQ:6:GLY:HA3	2.15	0.47
3:CQ:75:ARG:HD3	3:CQ:129:ASN:ND2	2.29	0.47
2:BR:157:VAL:O	2:BR:161:ILE:HG12	2.15	0.47
3:CR:260:GLU:HA	4:DR:72:ARG:HH22	1.79	0.47
3:CS:146:PHE:HA	3:CS:150:GLU:OE1	2.14	0.47
3:CS:274:GLN:O	3:CS:278:LEU:HB2	2.15	0.47
4:ES:125:ILE:O	4:ES:126:ILE:HB	2.13	0.47
3:CT:73:LEU:HB3	3:CT:129:ASN:ND2	2.30	0.47
4:ET:55:ASP:HB3	4:ET:57:ILE:HD12	1.97	0.47
1:AU:522:ARG:HD3	2:BV:64:GLU:HG3	1.97	0.47
1:AU:558:ASP:OD1	2:BU:6:GLY:HA3	2.14	0.47
1:AV:534:GLN:HG3	1:AV:537:ARG:HH21	1.79	0.47
3:CV:125:ILE:HG12	3:CV:211:LEU:HD13	1.97	0.47
3:CW:51:LEU:HD22	3:CW:231:LEU:HB3	1.95	0.47
3:CW:228:ARG:O	3:CW:232:VAL:HG23	2.14	0.47
3:CW:271:ARG:HH21	4:DW:59:ASP:HB2	1.80	0.47
2:BX:62:GLU:O	2:BX:65:GLN:HG3	2.14	0.47
2:BX:166:GLY:HA3	2:BY:190:ARG:HG2	1.95	0.47
3:CX:228:ARG:O	3:CX:232:VAL:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:299:VAL:HA	4:FX:132:MET:CE	2.44	0.47
4:DX:130:GLU:HG3	4:DX:134:ARG:HD2	1.97	0.47
1:AY:558:ASP:OD1	2:BY:6:GLY:HA3	2.15	0.47
2:BY:268:PRO:HG3	2:BY:271:ARG:HH21	1.80	0.47
3:CY:125:ILE:HG12	3:CY:211:LEU:HD13	1.97	0.47
3:CY:146:PHE:HA	3:CY:150:GLU:OE1	2.14	0.47
3:CY:146:PHE:CD2	3:CY:184:MET:HE1	2.50	0.47
3:CY:228:ARG:O	3:CY:232:VAL:HG23	2.14	0.47
4:EY:73:MET:HE1	4:EY:78:LEU:HD23	1.97	0.47
4:FY:70:ARG:HH21	4:FY:137:ARG:NH2	2.12	0.47
2:B2:253:GLU:HG3	2:B2:315:LEU:HD11	1.96	0.47
3:C2:179:TYR:OH	3:C2:182:SER:OG	2.24	0.47
2:B3:161:ILE:HG22	2:B4:199:ALA:HB2	1.96	0.47
2:B4:93:LEU:O	2:B4:97:ILE:HG12	2.15	0.47
4:D4:130:GLU:HG3	4:D4:134:ARG:HD2	1.96	0.47
3:C5:299:VAL:HG22	4:F5:132:MET:HE3	1.97	0.47
4:E6:55:ASP:HB3	4:E6:57:ILE:HD12	1.97	0.47
3:C7:75:ARG:HD3	3:C7:129:ASN:ND2	2.30	0.47
2:B8:110:LEU:HA	2:B8:113:MET:HG3	1.96	0.47
4:E8:126:ILE:O	4:E8:128:PRO:HD3	2.14	0.47
1:A9:544:PRO:HA	1:A9:547:VAL:HG12	1.97	0.47
3:C9:146:PHE:HA	3:C9:150:GLU:OE1	2.15	0.47
4:E9:69:GLY:C	4:E9:70:ARG:HD3	2.40	0.47
1:AA:558:ASP:OD1	2:BA:6:GLY:HA3	2.15	0.47
2:BA:11:VAL:O	2:BA:15:MET:HG2	2.15	0.47
2:BA:229:ILE:O	2:BA:233:MET:HG2	2.15	0.47
4:DA:99:ILE:HD12	4:DA:107:ALA:HB3	1.97	0.47
4:EA:75:ILE:HA	4:EA:78:LEU:HD12	1.95	0.47
2:BB:110:LEU:HA	2:BB:113:MET:HG3	1.96	0.47
4:EB:58:MET:HE1	4:FB:76:LYS:HD3	1.97	0.47
3:CC:75:ARG:HD3	3:CC:129:ASN:ND2	2.30	0.47
4:EC:69:GLY:C	4:EC:70:ARG:HD3	2.40	0.47
3:CF:146:PHE:HA	3:CF:150:GLU:OE1	2.15	0.47
4:FF:134:ARG:HA	4:FF:137:ARG:HH12	1.80	0.47
2:BG:268:PRO:HG3	2:BG:271:ARG:HH21	1.80	0.47
4:DG:130:GLU:HG3	4:DG:134:ARG:HD2	1.97	0.47
4:DH:104:TYR:HB3	4:DH:131:ARG:NH2	2.30	0.47
3:CJ:274:GLN:O	3:CJ:278:LEU:HB2	2.15	0.47
1:AK:548:ALA:HA	2:BK:25:VAL:HG13	1.97	0.47
2:BN:21:ARG:O	2:BN:25:VAL:HG23	2.14	0.47
2:BN:245:ARG:NH1	2:BN:249:ARG:HB2	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:56:ILE:HD11	3:CO:188:PHE:CD1	2.50	0.47
4:EO:125:ILE:O	4:EO:126:ILE:HB	2.14	0.47
3:CP:106:HIS:HD2	3:CP:113:THR:HG22	1.78	0.47
3:CQ:238:ASN:ND2	3:CR:112:GLY:HA2	2.29	0.47
3:CR:54:LEU:HB2	3:CR:231:LEU:HD23	1.96	0.47
3:CR:240:ARG:N	3:CR:242:GLU:OE1	2.40	0.47
2:BT:21:ARG:O	2:BT:25:VAL:HG23	2.15	0.47
2:BT:93:LEU:O	2:BT:97:ILE:HG12	2.13	0.47
3:CT:107:LEU:HD11	3:CT:219:LEU:HD22	1.97	0.47
3:CT:254:VAL:O	4:DT:75:ILE:HD12	2.15	0.47
2:BU:246:SER:O	2:BU:250:LEU:HD23	2.14	0.47
4:EU:76:LYS:HZ1	4:FU:58:MET:C	2.18	0.47
2:BV:12:ILE:HD11	2:BV:47:ILE:HG12	1.95	0.47
2:BV:207:LYS:HG3	2:BV:209:GLN:H	1.78	0.47
2:BV:268:PRO:HG3	2:BV:271:ARG:HH21	1.80	0.47
3:CW:89:TYR:HD2	3:CW:195:PRO:HA	1.80	0.47
3:CX:250:LEU:HD21	4:EY:78:LEU:O	2.14	0.47
4:FX:76:LYS:O	4:FX:79:LEU:HG	2.15	0.47
3:CY:251:VAL:O	3:CY:255:GLN:HG3	2.15	0.47
3:CY:302:LEU:HD13	3:CY:317:VAL:HG13	1.97	0.47
2:B1:199:ALA:HB2	2:BY:161:ILE:HG22	1.97	0.47
3:C2:255:GLN:HA	4:D2:75:ILE:HB	1.96	0.47
1:A4:547:VAL:HG23	2:B4:59:PHE:CZ	2.47	0.47
3:C4:146:PHE:HA	3:C4:150:GLU:OE1	2.15	0.47
2:B5:110:LEU:HA	2:B5:113:MET:HG3	1.96	0.47
3:C5:75:ARG:HD3	3:C5:129:ASN:ND2	2.30	0.47
2:B7:246:SER:O	2:B7:250:LEU:HD23	2.15	0.47
2:B8:268:PRO:HG3	2:B8:271:ARG:HH21	1.80	0.47
3:C8:255:GLN:HA	4:D8:75:ILE:HB	1.97	0.47
2:B9:268:PRO:HG3	2:B9:271:ARG:HH21	1.80	0.47
3:CB:146:PHE:HA	3:CB:150:GLU:OE1	2.14	0.47
3:CC:250:LEU:HD21	4:ED:78:LEU:O	2.14	0.47
3:CD:228:ARG:O	3:CD:232:VAL:HG23	2.14	0.47
3:CD:251:VAL:O	3:CD:255:GLN:HG3	2.15	0.47
4:ED:74:THR:HG22	4:ED:75:ILE:H	1.79	0.47
2:BE:171:ALA:HB1	3:CE:131:PHE:CE1	2.49	0.47
4:FF:70:ARG:HH21	4:FF:137:ARG:HH22	1.62	0.47
4:EG:69:GLY:C	4:EG:70:ARG:HD3	2.39	0.47
3:CH:107:LEU:HD11	3:CH:219:LEU:HD22	1.95	0.47
2:BI:21:ARG:O	2:BI:25:VAL:HG23	2.15	0.47
4:DI:101:ILE:HG22	4:DI:106:ILE:HB	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:218:VAL:HG11	2:BJ:229:ILE:HD12	1.96	0.47
4:DJ:99:ILE:HD12	4:DJ:107:ALA:HB3	1.97	0.47
4:FJ:134:ARG:HA	4:FJ:137:ARG:HH12	1.80	0.47
3:CK:251:VAL:O	3:CK:255:GLN:HG3	2.15	0.47
4:EL:117:LYS:HD2	4:EL:117:LYS:HA	1.71	0.47
2:BN:37:LEU:O	2:BN:41:MET:HG2	2.15	0.47
2:BN:125:GLU:HA	3:CN:147:THR:HG21	1.96	0.47
2:BN:127:PRO:HB2	2:BN:160:ARG:NE	2.29	0.47
4:FO:68:LEU:HA	4:FO:97:LEU:HD23	1.96	0.47
1:AP:558:ASP:OD1	2:BP:6:GLY:HA3	2.14	0.47
3:CP:73:LEU:HB3	3:CP:129:ASN:ND2	2.29	0.47
2:BQ:245:ARG:NH1	2:BQ:249:ARG:HB2	2.30	0.47
2:BR:34:VAL:O	2:BR:38:SER:OG	2.24	0.47
3:CR:89:TYR:HD2	3:CR:195:PRO:HA	1.79	0.47
3:CS:250:LEU:HD21	4:ET:78:LEU:O	2.15	0.47
3:CT:146:PHE:HA	3:CT:150:GLU:OE1	2.15	0.47
4:DT:104:TYR:HB3	4:DT:131:ARG:NH2	2.30	0.47
3:CU:75:ARG:HD3	3:CU:129:ASN:ND2	2.30	0.47
3:CV:250:LEU:HD21	4:EW:78:LEU:O	2.14	0.47
4:EV:126:ILE:O	4:EV:128:PRO:HD3	2.14	0.47
3:CX:271:ARG:HH21	4:DX:59:ASP:HB2	1.80	0.47
4:EX:76:LYS:HZ3	4:FX:59:ASP:HA	1.80	0.47
1:A1:540:SER:OG	2:B1:21:ARG:HD3	2.15	0.47
2:B1:245:ARG:HH12	2:B1:249:ARG:HB2	1.80	0.47
3:C1:179:TYR:OH	3:C1:182:SER:OG	2.25	0.47
2:B2:308:ILE:O	2:B2:312:VAL:HG23	2.15	0.47
3:C3:250:LEU:HD21	4:E4:78:LEU:O	2.14	0.47
2:B4:21:ARG:O	2:B4:25:VAL:HG23	2.15	0.47
2:B4:75:GLU:H	2:B4:75:GLU:CD	2.23	0.47
3:C4:271:ARG:HH21	4:D4:59:ASP:HB2	1.80	0.47
4:D7:101:ILE:HD13	4:E7:60:ILE:HD13	1.96	0.47
1:A8:546:VAL:HG22	2:B8:70:ASN:HD21	1.79	0.47
4:F8:134:ARG:HA	4:F8:137:ARG:NH1	2.28	0.47
1:A9:532:MET:CE	2:B9:56:LEU:HD22	2.45	0.47
3:C9:246:TRP:HZ2	4:FA:122:ILE:HD12	1.80	0.47
2:BA:308:ILE:O	2:BA:312:VAL:HG23	2.15	0.47
2:BB:159:LEU:HB3	3:CB:137:PHE:CE2	2.50	0.47
2:BB:308:ILE:O	2:BB:312:VAL:HG23	2.15	0.47
4:EB:126:ILE:O	4:EB:128:PRO:HD3	2.15	0.47
4:FB:133:ARG:HH12	4:FB:137:ARG:HH11	1.63	0.47
1:AD:544:PRO:HA	1:AD:547:VAL:HG12	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ED:69:GLY:C	4:ED:70:ARG:HD3	2.40	0.47
1:AE:547:VAL:HG23	2:BE:59:PHE:CZ	2.46	0.47
2:BE:96:ASP:O	2:BE:100:THR:HG23	2.14	0.47
2:BE:268:PRO:HG3	2:BE:271:ARG:HH21	1.79	0.47
1:AF:547:VAL:HG23	2:BF:59:PHE:CZ	2.47	0.47
2:BF:46:GLN:NE2	2:BG:70:ASN:HB3	2.30	0.47
3:CI:51:LEU:HD22	3:CI:231:LEU:HB3	1.95	0.47
3:CI:75:ARG:HD3	3:CI:129:ASN:ND2	2.30	0.47
3:CJ:146:PHE:HA	3:CJ:150:GLU:OE1	2.15	0.47
3:CL:251:VAL:O	3:CL:255:GLN:HG3	2.15	0.47
4:FL:100:LEU:HA	4:FL:105:LEU:HA	1.97	0.47
4:DM:99:ILE:HD12	4:DM:107:ALA:HB3	1.97	0.47
2:BN:166:GLY:HA3	2:BO:190:ARG:HG2	1.96	0.47
3:CN:51:LEU:HD22	3:CN:231:LEU:HB3	1.96	0.47
4:EN:125:ILE:O	4:EN:126:ILE:HB	2.15	0.47
3:CO:75:ARG:HD3	3:CO:129:ASN:ND2	2.30	0.47
4:DP:130:GLU:HG3	4:DP:134:ARG:HD2	1.97	0.47
2:BQ:139:ARG:HD2	2:BR:202:ILE:CG1	2.45	0.47
4:EQ:71:THR:HB	4:FQ:64:LEU:HD11	1.97	0.47
1:AR:558:ASP:OD1	2:BR:6:GLY:HA3	2.14	0.47
2:BR:251:LEU:HA	2:BR:254:VAL:HG12	1.96	0.47
3:CR:251:VAL:O	3:CR:255:GLN:HG3	2.13	0.47
4:ER:76:LYS:HZ1	4:FR:58:MET:C	2.18	0.47
1:AS:544:PRO:HA	1:AS:547:VAL:HG12	1.97	0.47
2:BS:139:ARG:HD3	2:BS:139:ARG:C	2.40	0.47
2:BS:246:SER:O	2:BS:250:LEU:HD23	2.15	0.47
2:BT:103:THR:HG21	2:BT:109:THR:HG23	1.95	0.47
3:CT:75:ARG:HD3	3:CT:129:ASN:ND2	2.30	0.47
3:CU:255:GLN:HA	4:DU:75:ILE:HB	1.97	0.47
4:DU:131:ARG:NH1	4:EU:59:ASP:OD2	2.47	0.47
2:BW:166:GLY:HA3	2:BX:190:ARG:HG2	1.96	0.47
2:BW:209:GLN:O	2:BW:212:GLU:HG2	2.14	0.47
3:CW:302:LEU:HD13	3:CW:317:VAL:HG13	1.97	0.47
2:BX:268:PRO:HG3	2:BX:271:ARG:HH21	1.80	0.47
2:BY:253:GLU:OE1	2:BY:314:ARG:NH2	2.48	0.47
4:EY:126:ILE:O	4:EY:128:PRO:HD3	2.14	0.47
2:B1:196:VAL:C	2:B1:198:THR:H	2.23	0.46
2:B1:246:SER:O	2:B1:250:LEU:HD23	2.15	0.46
4:E1:78:LEU:O	3:CY:250:LEU:HD21	2.15	0.46
2:B2:196:VAL:C	2:B2:198:THR:H	2.22	0.46
4:F2:133:ARG:HH12	4:F2:137:ARG:HH11	1.62	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:532:MET:HE2	2:B3:56:LEU:CD1	2.38	0.46
2:B4:10:SER:HA	2:B4:13:LEU:HD12	1.97	0.46
1:A5:553:GLN:O	1:A5:557:ASN:ND2	2.47	0.46
2:B5:246:SER:O	2:B5:250:LEU:HD23	2.14	0.46
2:B5:268:PRO:HG3	2:B5:271:ARG:HH21	1.80	0.46
4:D5:105:LEU:O	4:D5:131:ARG:NH2	2.36	0.46
4:E5:125:ILE:O	4:E5:126:ILE:HB	2.13	0.46
3:C6:146:PHE:HA	3:C6:150:GLU:OE1	2.15	0.46
4:E6:73:MET:SD	4:E6:74:THR:N	2.88	0.46
2:B7:31:THR:O	2:B7:35:GLN:HG2	2.15	0.46
3:C7:146:PHE:HA	3:C7:150:GLU:OE1	2.15	0.46
2:B8:146:LEU:O	2:B8:154:ARG:NE	2.47	0.46
2:B8:196:VAL:C	2:B8:198:THR:H	2.22	0.46
3:C8:56:ILE:HD11	3:C9:188:PHE:CD1	2.50	0.46
2:B9:31:THR:O	2:B9:35:GLN:HG2	2.15	0.46
4:DA:102:ASN:ND2	4:EA:61:PRO:O	2.43	0.46
4:DA:104:TYR:HB3	4:DA:131:ARG:NH2	2.31	0.46
1:AB:558:ASP:OD1	2:BB:6:GLY:HA3	2.15	0.46
2:BD:125:GLU:HA	3:CD:147:THR:HG21	1.97	0.46
2:BE:246:SER:O	2:BE:250:LEU:HD23	2.15	0.46
2:BF:14:LEU:O	2:BG:76:TYR:OH	2.29	0.46
2:BF:17:ILE:O	2:BF:21:ARG:HD2	2.15	0.46
2:BG:245:ARG:HH12	2:BG:249:ARG:HB2	1.80	0.46
4:EG:126:ILE:O	4:EG:128:PRO:HD3	2.15	0.46
1:AH:540:SER:OG	2:BH:21:ARG:HD3	2.15	0.46
1:AI:544:PRO:HA	1:AI:547:VAL:HG12	1.97	0.46
2:BI:26:PHE:CE2	2:BJ:84:ALA:HB1	2.50	0.46
2:BI:157:VAL:O	2:BI:161:ILE:HG12	2.15	0.46
4:EI:125:ILE:O	4:EI:126:ILE:HB	2.14	0.46
3:CJ:246:TRP:HZ2	4:FK:122:ILE:HD12	1.80	0.46
2:BK:125:GLU:HA	3:CK:147:THR:HG21	1.97	0.46
4:EK:125:ILE:O	4:EK:126:ILE:HB	2.15	0.46
3:CN:125:ILE:HG12	3:CN:211:LEU:HD13	1.97	0.46
1:AP:540:SER:OG	2:BP:21:ARG:HD3	2.15	0.46
2:BQ:116:GLN:HA	2:BQ:148:LEU:HD13	1.96	0.46
2:BR:9:LYS:HA	2:BR:12:ILE:HD12	1.97	0.46
2:BR:171:ALA:HB1	3:CR:131:PHE:CE1	2.50	0.46
4:FR:100:LEU:HA	4:FR:105:LEU:HA	1.97	0.46
2:BS:62:GLU:O	2:BS:65:GLN:HG3	2.15	0.46
2:BU:110:LEU:HA	2:BU:113:MET:HG3	1.97	0.46
3:CU:228:ARG:O	3:CU:232:VAL:HG23	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:166:GLY:HA3	2:BW:190:ARG:HG2	1.96	0.46
3:CV:255:GLN:HA	4:DV:75:ILE:HB	1.96	0.46
4:DW:99:ILE:HD12	4:DW:107:ALA:HB3	1.98	0.46
3:CX:251:VAL:O	3:CX:255:GLN:HG3	2.15	0.46
4:EX:93:ALA:HB3	4:FX:116:ASP:OD1	2.15	0.46
2:BY:246:SER:O	2:BY:250:LEU:HD23	2.15	0.46
3:CY:179:TYR:OH	3:CY:182:SER:OG	2.23	0.46
4:EY:69:GLY:C	4:EY:70:ARG:HD3	2.39	0.46
2:B2:26:PHE:HD1	2:B2:29:LEU:HD12	1.80	0.46
3:C2:251:VAL:O	3:C2:255:GLN:HG3	2.15	0.46
2:B4:31:THR:O	2:B4:35:GLN:HG2	2.15	0.46
3:C4:75:ARG:HD3	3:C4:129:ASN:ND2	2.30	0.46
3:C5:260:GLU:OE1	4:D5:72:ARG:NH2	2.47	0.46
4:D5:74:THR:N	4:D5:77:GLU:OE2	2.25	0.46
1:A6:552:ARG:HA	1:A6:555:MET:HE3	1.95	0.46
2:B6:209:GLN:O	2:B6:212:GLU:HG2	2.15	0.46
2:B7:14:LEU:O	2:B8:76:TYR:OH	2.29	0.46
3:C7:228:ARG:O	3:C7:232:VAL:HG23	2.14	0.46
2:B8:125:GLU:HA	3:C8:147:THR:HG21	1.97	0.46
4:E8:125:ILE:O	4:E8:126:ILE:HB	2.14	0.46
4:F8:133:ARG:HH12	4:F8:137:ARG:HH11	1.63	0.46
1:A9:555:MET:HE1	2:B9:29:LEU:HD22	1.98	0.46
3:C9:107:LEU:HD11	3:C9:219:LEU:HD22	1.97	0.46
4:E9:59:ASP:HA	4:F9:76:LYS:NZ	2.30	0.46
1:AA:544:PRO:HA	1:AA:547:VAL:HG12	1.97	0.46
1:AA:546:VAL:HG22	2:BA:70:ASN:HD21	1.78	0.46
3:CB:73:LEU:HB3	3:CB:129:ASN:ND2	2.29	0.46
3:CC:228:ARG:O	3:CC:232:VAL:HG23	2.14	0.46
3:CF:73:LEU:HB3	3:CF:129:ASN:ND2	2.31	0.46
3:CF:75:ARG:HD3	3:CF:129:ASN:ND2	2.30	0.46
4:EI:75:ILE:O	4:EI:79:LEU:HG	2.14	0.46
2:BJ:268:PRO:HG3	2:BJ:271:ARG:HH21	1.80	0.46
3:CJ:51:LEU:HD22	3:CJ:231:LEU:HB3	1.96	0.46
4:FJ:100:LEU:HA	4:FJ:105:LEU:HA	1.98	0.46
3:CL:75:ARG:HD3	3:CL:129:ASN:ND2	2.30	0.46
4:DL:106:ILE:HD13	4:EL:60:ILE:HD11	1.95	0.46
2:BN:110:LEU:HA	2:BN:113:MET:HG3	1.96	0.46
3:CN:228:ARG:O	3:CN:232:VAL:HG23	2.14	0.46
2:BO:21:ARG:O	2:BO:25:VAL:HG23	2.14	0.46
2:BO:127:PRO:HB2	2:BO:160:ARG:NE	2.30	0.46
3:CP:105:ILE:HG21	3:CP:162:LEU:HD21	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EP:59:ASP:HA	4:FP:76:LYS:NZ	2.30	0.46
4:FP:70:ARG:HH21	4:FP:137:ARG:HH22	1.61	0.46
4:EQ:55:ASP:HB3	4:EQ:57:ILE:HD12	1.97	0.46
3:CR:75:ARG:HD3	3:CR:129:ASN:ND2	2.30	0.46
3:CS:75:ARG:HD3	3:CS:129:ASN:ND2	2.30	0.46
3:CU:302:LEU:HD13	3:CU:317:VAL:HG13	1.96	0.46
2:BV:2:SER:H	2:BV:51:GLN:NE2	2.13	0.46
2:BV:245:ARG:NH2	2:BV:320:GLU:O	2.48	0.46
1:AW:548:ALA:HA	2:BW:25:VAL:HG13	1.97	0.46
2:BW:110:LEU:HA	2:BW:113:MET:HG3	1.96	0.46
3:CX:125:ILE:HG12	3:CX:211:LEU:HD13	1.97	0.46
3:CX:183:GLU:O	3:CX:184:MET:HE2	2.16	0.46
4:EX:125:ILE:O	4:EX:126:ILE:HB	2.15	0.46
3:CY:75:ARG:HD3	3:CY:129:ASN:ND2	2.30	0.46
1:A1:552:ARG:HA	1:A1:555:MET:HE3	1.96	0.46
3:C1:75:ARG:HD3	3:C1:129:ASN:ND2	2.30	0.46
2:B2:127:PRO:HB2	2:B2:160:ARG:NE	2.31	0.46
2:B2:161:ILE:HG21	2:B3:202:ILE:HD12	1.97	0.46
2:B2:246:SER:O	2:B2:250:LEU:HD23	2.15	0.46
3:C2:75:ARG:HD3	3:C2:129:ASN:ND2	2.30	0.46
4:E2:131:ARG:HA	4:E2:134:ARG:NH1	2.29	0.46
3:C3:255:GLN:HA	4:D3:75:ILE:HB	1.97	0.46
2:B4:139:ARG:HH22	2:B5:198:THR:HG23	1.81	0.46
4:F4:134:ARG:HA	4:F4:137:ARG:NH1	2.30	0.46
3:C5:228:ARG:O	3:C5:232:VAL:HG23	2.14	0.46
4:E5:75:ILE:HG13	4:F5:58:MET:HG2	1.96	0.46
2:B6:11:VAL:O	2:B6:15:MET:HG2	2.15	0.46
3:C6:228:ARG:O	3:C6:232:VAL:HG23	2.14	0.46
3:C6:254:VAL:O	4:D6:75:ILE:HD12	2.15	0.46
3:C6:299:VAL:HA	4:F6:132:MET:CE	2.45	0.46
2:B7:135:VAL:HG11	2:B8:194:GLY:HA3	1.98	0.46
4:E8:74:THR:HG22	4:E8:75:ILE:H	1.79	0.46
4:E9:131:ARG:HA	4:E9:134:ARG:NH1	2.30	0.46
4:EC:125:ILE:O	4:EC:126:ILE:HB	2.13	0.46
3:CD:125:ILE:HG12	3:CD:211:LEU:HD13	1.97	0.46
2:BE:12:ILE:HD11	2:BE:47:ILE:HG12	1.98	0.46
3:CE:75:ARG:HD3	3:CE:129:ASN:ND2	2.31	0.46
3:CE:302:LEU:HD13	3:CE:317:VAL:HG13	1.98	0.46
4:DE:102:ASN:ND2	4:EE:61:PRO:O	2.39	0.46
1:AF:558:ASP:OD1	2:BF:6:GLY:HA3	2.15	0.46
3:CF:228:ARG:O	3:CF:232:VAL:HG23	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:75:ARG:HD3	3:CH:129:ASN:ND2	2.30	0.46
3:CH:228:ARG:O	3:CH:232:VAL:HG23	2.15	0.46
3:CJ:251:VAL:O	3:CJ:255:GLN:HG3	2.15	0.46
1:AK:544:PRO:HA	1:AK:547:VAL:HG12	1.95	0.46
2:BL:21:ARG:O	2:BL:25:VAL:HG23	2.15	0.46
3:CL:146:PHE:HA	3:CL:150:GLU:OE1	2.15	0.46
4:EL:73:MET:HE1	4:EL:78:LEU:HD23	1.97	0.46
2:BN:11:VAL:O	2:BN:15:MET:HG2	2.16	0.46
2:BN:268:PRO:HG3	2:BN:271:ARG:HH21	1.80	0.46
2:BP:157:VAL:O	2:BP:161:ILE:HG12	2.16	0.46
3:CP:146:PHE:HA	3:CP:150:GLU:OE1	2.16	0.46
4:FP:134:ARG:HA	4:FP:137:ARG:HH12	1.81	0.46
4:EQ:76:LYS:HZ1	4:FQ:58:MET:C	2.20	0.46
2:BR:246:SER:O	2:BR:250:LEU:HD23	2.16	0.46
2:BR:268:PRO:HG3	2:BR:271:ARG:HH21	1.80	0.46
2:BR:308:ILE:O	2:BR:312:VAL:HG23	2.15	0.46
3:CT:228:ARG:O	3:CT:232:VAL:HG23	2.14	0.46
4:ET:125:ILE:O	4:ET:126:ILE:HB	2.15	0.46
2:BU:10:SER:O	2:BU:14:LEU:HD23	2.16	0.46
3:CU:250:LEU:HD21	4:EV:78:LEU:O	2.15	0.46
4:EU:75:ILE:HB	4:EU:76:LYS:NZ	2.31	0.46
4:FU:134:ARG:HA	4:FU:137:ARG:NH1	2.30	0.46
1:AV:553:GLN:O	1:AV:557:ASN:ND2	2.48	0.46
2:BV:242:VAL:O	2:BV:243:ASP:OD1	2.34	0.46
3:CV:75:ARG:HD3	3:CV:129:ASN:ND2	2.30	0.46
3:CV:228:ARG:O	3:CV:232:VAL:HG23	2.15	0.46
3:CW:125:ILE:HG12	3:CW:211:LEU:HD13	1.97	0.46
3:CW:154:ILE:HA	3:CW:157:MET:HG2	1.97	0.46
2:BX:41:MET:HE3	2:BX:41:MET:HB2	1.81	0.46
2:BY:110:LEU:HA	2:BY:113:MET:HG3	1.97	0.46
3:CY:255:GLN:HA	4:DY:75:ILE:HB	1.96	0.46
2:B1:268:PRO:HG3	2:B1:271:ARG:HH21	1.81	0.46
4:E1:106:ILE:HD12	4:E1:125:ILE:HD11	1.98	0.46
4:D3:104:TYR:HB3	4:D3:131:ARG:NH2	2.31	0.46
1:A4:553:GLN:O	1:A4:557:ASN:ND2	2.48	0.46
2:B4:127:PRO:HB2	2:B4:160:ARG:NE	2.30	0.46
3:C4:89:TYR:HD2	3:C4:195:PRO:HA	1.81	0.46
3:C4:125:ILE:HG12	3:C4:211:LEU:HD13	1.97	0.46
4:D4:104:TYR:HB3	4:D4:131:ARG:NH2	2.30	0.46
4:E5:117:LYS:HA	4:E5:117:LYS:HD2	1.71	0.46
4:E5:126:ILE:O	4:E5:128:PRO:HD3	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:103:THR:OG1	2:B6:105:SER:O	2.30	0.46
3:C6:302:LEU:HD13	3:C6:317:VAL:HG13	1.98	0.46
3:C7:125:ILE:HG12	3:C7:211:LEU:HD13	1.97	0.46
4:E7:125:ILE:O	4:E7:126:ILE:HB	2.14	0.46
3:C8:271:ARG:HH21	4:D8:59:ASP:HB2	1.80	0.46
2:B9:242:VAL:O	2:B9:246:SER:OG	2.33	0.46
4:F9:100:LEU:HA	4:F9:105:LEU:HA	1.98	0.46
2:BA:127:PRO:HB2	2:BA:160:ARG:NE	2.31	0.46
2:BB:253:GLU:HG3	2:BB:315:LEU:HD11	1.97	0.46
4:DC:105:LEU:HB2	4:DC:131:ARG:HE	1.80	0.46
4:EC:58:MET:SD	4:FC:75:ILE:HG13	2.55	0.46
1:AD:536:ILE:HA	1:AD:539:MET:HG2	1.97	0.46
2:BD:253:GLU:OE1	2:BD:314:ARG:NH2	2.48	0.46
3:CD:107:LEU:HD11	3:CD:219:LEU:HD22	1.97	0.46
4:DD:101:ILE:HD13	4:ED:60:ILE:HD13	1.97	0.46
4:ED:58:MET:HE2	4:FD:76:LYS:HD3	1.98	0.46
1:AE:548:ALA:HA	2:BE:25:VAL:HG13	1.98	0.46
3:CE:89:TYR:HD2	3:CE:195:PRO:HA	1.81	0.46
3:CE:228:ARG:O	3:CE:232:VAL:HG23	2.15	0.46
3:CF:89:TYR:HD2	3:CF:195:PRO:HA	1.80	0.46
1:AG:547:VAL:HG23	2:BG:59:PHE:CZ	2.45	0.46
3:CG:228:ARG:O	3:CG:232:VAL:HG23	2.14	0.46
3:CG:271:ARG:HH21	4:DG:59:ASP:HB2	1.80	0.46
2:BI:62:GLU:O	2:BI:65:GLN:HG3	2.15	0.46
3:CJ:271:ARG:HH21	4:DJ:59:ASP:HB2	1.80	0.46
2:BK:93:LEU:O	2:BK:97:ILE:HG12	2.15	0.46
3:CK:75:ARG:HD3	3:CK:129:ASN:ND2	2.30	0.46
1:AM:544:PRO:HA	1:AM:547:VAL:HG12	1.96	0.46
3:CM:146:PHE:HA	3:CM:150:GLU:OE1	2.15	0.46
3:CN:251:VAL:O	3:CN:255:GLN:HG3	2.15	0.46
2:BO:110:LEU:HA	2:BO:113:MET:HG3	1.96	0.46
4:EO:71:THR:HB	4:FO:64:LEU:HD21	1.96	0.46
1:AQ:522:ARG:HD3	2:BR:64:GLU:HG3	1.98	0.46
2:BQ:139:ARG:HG2	2:BR:201:GLU:OE1	2.15	0.46
3:CQ:146:PHE:HA	3:CQ:150:GLU:OE1	2.15	0.46
3:CR:271:ARG:HH21	4:DR:59:ASP:HB2	1.80	0.46
4:ER:74:THR:O	4:ER:78:LEU:HG	2.15	0.46
4:FR:132:MET:SD	4:FR:135:LEU:HB3	2.56	0.46
2:BT:125:GLU:HA	3:CT:147:THR:HG21	1.96	0.46
2:BT:161:ILE:O	2:BU:195:GLY:HA2	2.15	0.46
2:BU:46:GLN:HG2	2:BV:70:ASN:HD22	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:127:PRO:HB2	2:BU:160:ARG:NE	2.30	0.46
3:CU:271:ARG:HH21	4:DU:59:ASP:HB2	1.81	0.46
4:EV:76:LYS:HZ1	4:FV:58:MET:C	2.20	0.46
1:AW:532:MET:O	1:AW:536:ILE:HG12	2.16	0.46
3:CW:255:GLN:HA	4:DW:75:ILE:HB	1.96	0.46
4:FW:70:ARG:HH21	4:FW:137:ARG:NH2	2.12	0.46
2:BX:48:SER:HB3	2:BY:66:PHE:CD1	2.50	0.46
3:CX:75:ARG:HD3	3:CX:129:ASN:ND2	2.30	0.46
2:B1:46:GLN:CD	2:B2:70:ASN:HD22	2.23	0.46
2:B3:158:MET:HE3	2:B4:214:VAL:CG1	2.35	0.46
4:E3:75:ILE:HG13	4:F3:58:MET:HG2	1.96	0.46
4:E3:125:ILE:O	4:E3:126:ILE:HB	2.15	0.46
4:F5:126:ILE:HD11	4:F5:131:ARG:HH21	1.80	0.46
3:C6:125:ILE:HG12	3:C6:211:LEU:HD13	1.98	0.46
2:B7:273:LYS:HA	2:B7:276:ARG:NH1	2.30	0.46
4:D8:101:ILE:HG22	4:D8:106:ILE:HB	1.97	0.46
1:A9:547:VAL:HG23	2:B9:59:PHE:CZ	2.47	0.46
2:BA:253:GLU:HG3	2:BA:315:LEU:HD11	1.98	0.46
2:BB:268:PRO:HG3	2:BB:271:ARG:HH21	1.81	0.46
3:CC:302:LEU:HD13	3:CC:317:VAL:HG13	1.98	0.46
2:BD:268:PRO:HG3	2:BD:271:ARG:HH21	1.81	0.46
4:ED:125:ILE:O	4:ED:126:ILE:HB	2.13	0.46
4:FE:70:ARG:HH21	4:FE:137:ARG:NH2	2.14	0.46
1:AF:548:ALA:HA	2:BF:25:VAL:HG13	1.97	0.46
2:BF:103:THR:OG1	2:BF:105:SER:O	2.31	0.46
2:BH:246:SER:O	2:BH:250:LEU:HD23	2.15	0.46
4:FJ:76:LYS:O	4:FJ:79:LEU:HG	2.14	0.46
1:AK:540:SER:OG	2:BK:21:ARG:HD3	2.15	0.46
2:BK:251:LEU:HA	2:BK:254:VAL:HG12	1.98	0.46
2:BK:268:PRO:HG3	2:BK:271:ARG:HH21	1.80	0.46
3:CK:238:ASN:ND2	3:CL:112:GLY:HA2	2.30	0.46
4:FK:110:GLU:OE1	4:FK:121:ARG:NH1	2.49	0.46
2:BL:139:ARG:HG3	2:BM:205:LEU:CD1	2.45	0.46
3:CL:125:ILE:HG12	3:CL:211:LEU:HD13	1.97	0.46
2:BM:207:LYS:HE3	2:BM:209:GLN:H	1.81	0.46
2:BM:246:SER:O	2:BM:250:LEU:HD23	2.15	0.46
3:CM:228:ARG:O	3:CM:232:VAL:HG23	2.15	0.46
4:EP:76:LYS:NZ	4:FP:59:ASP:HA	2.31	0.46
3:CQ:107:LEU:HD11	3:CQ:219:LEU:HD22	1.97	0.46
4:DQ:99:ILE:HD12	4:DQ:107:ALA:HB3	1.98	0.46
2:BR:297:ARG:NH2	2:BS:328:ASP:HB3	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FR:71:THR:HG1	4:FR:89:LEU:HA	1.80	0.46
2:BS:10:SER:O	2:BS:14:LEU:HD23	2.15	0.46
3:CT:125:ILE:HG12	3:CT:211:LEU:HD13	1.97	0.46
2:BU:245:ARG:NH1	2:BU:249:ARG:HB2	2.30	0.46
2:BU:268:PRO:HG3	2:BU:271:ARG:HH21	1.80	0.46
4:EV:69:GLY:C	4:EV:70:ARG:HD3	2.40	0.46
4:EV:75:ILE:O	4:EV:79:LEU:HG	2.16	0.46
4:DW:102:ASN:ND2	4:EW:61:PRO:O	2.42	0.46
2:BX:196:VAL:C	2:BX:198:THR:H	2.23	0.46
4:EY:125:ILE:O	4:EY:126:ILE:HB	2.13	0.46
2:B1:97:ILE:HG22	2:B1:101:ARG:HH12	1.80	0.46
3:C1:271:ARG:HH21	4:D1:59:ASP:HB2	1.80	0.46
2:B2:21:ARG:O	2:B2:25:VAL:HG23	2.16	0.46
4:E2:75:ILE:O	4:E2:79:LEU:HG	2.16	0.46
2:B3:268:PRO:HG3	2:B3:271:ARG:HH21	1.80	0.46
3:C3:238:ASN:HD22	3:C4:112:GLY:HA2	1.80	0.46
3:C4:228:ARG:O	3:C4:232:VAL:HG23	2.14	0.46
4:E4:75:ILE:O	4:E4:79:LEU:HG	2.16	0.46
2:B6:110:LEU:HA	2:B6:113:MET:HG3	1.97	0.46
3:C6:75:ARG:HD3	3:C6:129:ASN:ND2	2.31	0.46
4:E9:75:ILE:HG13	4:F9:58:MET:HG2	1.97	0.46
3:CA:146:PHE:HA	3:CA:150:GLU:OE1	2.15	0.46
3:CB:228:ARG:O	3:CB:232:VAL:HG23	2.14	0.46
4:EB:55:ASP:HB3	4:EB:57:ILE:HD12	1.98	0.46
4:DC:104:TYR:HB3	4:DC:131:ARG:NH2	2.31	0.46
4:EC:73:MET:HE1	4:EC:78:LEU:HD23	1.97	0.46
2:BD:46:GLN:CD	2:BE:70:ASN:HD22	2.24	0.46
2:BD:127:PRO:HB2	2:BD:160:ARG:NE	2.31	0.46
2:BF:246:SER:O	2:BF:250:LEU:HD23	2.15	0.46
2:BG:253:GLU:OE1	2:BG:314:ARG:NH2	2.48	0.46
3:CG:56:ILE:HD11	3:CH:188:PHE:CD1	2.50	0.46
4:FG:70:ARG:HH21	4:FG:137:ARG:HH22	1.63	0.46
3:CH:146:PHE:CD2	3:CH:184:MET:HE1	2.51	0.46
4:FH:134:ARG:HA	4:FH:137:ARG:HH12	1.80	0.46
2:BI:31:THR:O	2:BI:35:GLN:HG2	2.15	0.46
2:BJ:246:SER:O	2:BJ:250:LEU:HD23	2.15	0.46
1:AL:553:GLN:O	1:AL:557:ASN:ND2	2.48	0.46
2:BL:85:LEU:HD23	2:BL:89:ARG:NH2	2.30	0.46
2:BL:125:GLU:HA	3:CL:147:THR:HG21	1.96	0.46
3:CM:75:ARG:HD3	3:CM:129:ASN:ND2	2.30	0.46
4:FM:134:ARG:HA	4:FM:137:ARG:HH12	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:540:SER:OG	2:BN:21:ARG:HD3	2.16	0.46
2:BN:174:GLU:HA	2:BN:177:GLU:HG2	1.98	0.46
2:BP:245:ARG:NH1	2:BP:249:ARG:HB2	2.30	0.46
1:AQ:544:PRO:HA	1:AQ:547:VAL:HG12	1.96	0.46
2:BR:30:SER:O	2:BR:34:VAL:HG23	2.15	0.46
3:CS:125:ILE:HG12	3:CS:211:LEU:HD13	1.98	0.46
4:ET:75:ILE:O	4:ET:79:LEU:HG	2.16	0.46
3:CU:56:ILE:HD11	3:CV:188:PHE:CD1	2.50	0.46
2:BV:207:LYS:HE3	2:BV:209:GLN:H	1.80	0.46
3:CV:73:LEU:HB3	3:CV:129:ASN:ND2	2.30	0.46
3:CV:259:LEU:HD21	4:FW:60:ILE:HG21	1.97	0.46
4:EV:73:MET:HE1	4:EV:78:LEU:HD23	1.98	0.46
4:EV:75:ILE:HG13	4:FV:58:MET:HG2	1.97	0.46
2:BW:21:ARG:O	2:BW:25:VAL:HG23	2.15	0.46
2:B1:198:THR:HG23	2:BY:139:ARG:CZ	2.45	0.46
2:B2:212:GLU:HA	2:B2:215:ILE:HG12	1.98	0.46
4:E2:125:ILE:O	4:E2:126:ILE:HB	2.15	0.46
2:B3:246:SER:O	2:B3:250:LEU:HD23	2.15	0.46
3:C3:125:ILE:HG12	3:C3:211:LEU:HD13	1.98	0.46
2:B4:161:ILE:HG22	2:B5:199:ALA:HB2	1.98	0.46
2:B4:246:SER:O	2:B4:250:LEU:HD23	2.16	0.46
2:B5:93:LEU:O	2:B5:97:ILE:HG12	2.16	0.46
2:B5:166:GLY:O	2:B6:190:ARG:NE	2.30	0.46
3:C5:293:ILE:HD12	3:C5:302:LEU:O	2.15	0.46
3:C5:302:LEU:HD13	3:C5:317:VAL:HG13	1.98	0.46
2:B6:268:PRO:HG3	2:B6:271:ARG:HH21	1.81	0.46
3:C6:253:GLN:NE2	4:F7:126:ILE:O	2.49	0.46
3:C8:228:ARG:O	3:C8:232:VAL:HG23	2.14	0.46
3:C8:251:VAL:O	3:C8:255:GLN:HG3	2.15	0.46
4:E8:130:GLU:HA	4:E8:133:ARG:HE	1.80	0.46
2:B9:17:ILE:O	2:B9:21:ARG:HD2	2.15	0.46
4:E9:125:ILE:O	4:E9:126:ILE:HB	2.15	0.46
2:BA:17:ILE:O	2:BA:21:ARG:HD2	2.16	0.46
2:BA:161:ILE:HG22	2:BB:199:ALA:HB2	1.97	0.46
4:FA:110:GLU:OE1	4:FA:121:ARG:NH1	2.49	0.46
3:CB:246:TRP:HZ2	4:FC:122:ILE:HD12	1.81	0.46
3:CB:255:GLN:HA	4:DB:75:ILE:HB	1.98	0.46
2:BC:253:GLU:OE1	2:BC:314:ARG:NH2	2.49	0.46
3:CC:251:VAL:O	3:CC:255:GLN:HG3	2.16	0.46
4:ED:58:MET:C	4:FD:76:LYS:HZ1	2.24	0.46
2:BE:157:VAL:O	2:BE:161:ILE:HG12	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:101:ASN:HB3	3:CF:118:PHE:HB2	1.98	0.46
3:CF:125:ILE:HG12	3:CF:211:LEU:HD13	1.98	0.46
3:CF:293:ILE:HD12	3:CF:302:LEU:O	2.15	0.46
3:CG:75:ARG:HD3	3:CG:129:ASN:ND2	2.31	0.46
4:FG:134:ARG:HA	4:FG:137:ARG:HH12	1.80	0.46
1:AH:532:MET:SD	2:BH:56:LEU:HD13	2.56	0.46
3:CH:251:VAL:O	3:CH:255:GLN:HG3	2.15	0.46
4:EH:75:ILE:HG13	4:FH:58:MET:HG2	1.98	0.46
2:BJ:209:GLN:O	2:BJ:212:GLU:HG2	2.15	0.46
2:BJ:251:LEU:HD13	2:BJ:278:MET:HE3	1.98	0.46
3:CJ:75:ARG:HD3	3:CJ:129:ASN:ND2	2.30	0.46
4:FK:133:ARG:HH12	4:FK:137:ARG:NH1	2.14	0.46
4:FL:70:ARG:HH21	4:FL:137:ARG:HH22	1.62	0.46
3:CN:75:ARG:HD3	3:CN:129:ASN:ND2	2.30	0.46
1:AO:558:ASP:OD1	2:BO:6:GLY:HA3	2.16	0.46
2:BO:268:PRO:HG3	2:BO:271:ARG:HH21	1.80	0.46
4:FO:132:MET:SD	4:FO:135:LEU:HB3	2.55	0.46
3:CP:246:TRP:HZ2	4:FQ:122:ILE:HD12	1.81	0.46
3:CQ:56:ILE:HD11	3:CR:188:PHE:CD1	2.50	0.46
3:CQ:89:TYR:HD2	3:CQ:195:PRO:HA	1.80	0.46
4:EQ:75:ILE:O	4:EQ:79:LEU:HG	2.16	0.46
2:BR:93:LEU:O	2:BR:97:ILE:HG12	2.15	0.46
3:CR:146:PHE:HA	3:CR:150:GLU:OE1	2.15	0.46
2:BS:253:GLU:HG3	2:BS:315:LEU:HD11	1.96	0.46
2:BS:268:PRO:HG3	2:BS:271:ARG:HH21	1.80	0.46
1:AU:555:MET:SD	2:BU:33:GLU:HB3	2.55	0.46
2:BU:209:GLN:HA	2:BU:212:GLU:CD	2.40	0.46
2:BV:21:ARG:O	2:BV:25:VAL:HG23	2.15	0.46
2:BV:110:LEU:HA	2:BV:113:MET:HG3	1.97	0.46
4:DV:104:TYR:CE2	4:EV:61:PRO:HG3	2.50	0.46
2:BW:125:GLU:HA	3:CW:147:THR:HG21	1.97	0.46
3:CW:146:PHE:HA	3:CW:150:GLU:OE1	2.15	0.46
2:BY:125:GLU:HA	3:CY:147:THR:HG21	1.98	0.46
3:C2:89:TYR:HD2	3:C2:195:PRO:HA	1.81	0.46
4:D4:101:ILE:HG22	4:D4:106:ILE:HB	1.96	0.46
4:D6:101:ILE:HG22	4:D6:106:ILE:HB	1.96	0.46
2:B8:77:LEU:HB3	2:B8:94:LEU:HD21	1.97	0.46
2:B8:135:VAL:HG11	2:B9:194:GLY:HA3	1.98	0.46
2:B9:26:PHE:HA	2:B9:29:LEU:HD12	1.98	0.46
2:B9:110:LEU:HA	2:B9:113:MET:HG3	1.96	0.46
2:BB:246:SER:O	2:BB:250:LEU:HD23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:251:LEU:HD13	2:BB:278:MET:HE3	1.98	0.46
4:DC:99:ILE:HD12	4:DC:107:ALA:HB3	1.98	0.46
2:BD:46:GLN:NE2	2:BD:47:ILE:O	2.49	0.46
2:BE:171:ALA:O	2:BE:174:GLU:HG3	2.16	0.46
4:EE:73:MET:HE1	4:EE:78:LEU:HD23	1.98	0.46
3:CF:251:VAL:O	3:CF:255:GLN:HG3	2.16	0.46
2:BH:78:ARG:HA	2:BH:94:LEU:HD11	1.98	0.46
1:AJ:558:ASP:OD1	2:BJ:6:GLY:HA3	2.15	0.46
2:BM:251:LEU:HD13	2:BM:278:MET:HE3	1.98	0.46
4:EN:55:ASP:HB3	4:EN:57:ILE:HD12	1.98	0.46
2:BO:96:ASP:O	2:BO:100:THR:HG23	2.16	0.46
2:BO:203:ILE:HG12	2:BO:214:VAL:HG11	1.97	0.46
3:CO:271:ARG:HH21	4:DO:59:ASP:HB2	1.80	0.46
4:DO:101:ILE:HG22	4:DO:106:ILE:HB	1.97	0.46
2:BP:113:MET:SD	2:BP:118:ALA:HB2	2.56	0.46
2:BP:171:ALA:O	2:BP:174:GLU:HG3	2.16	0.46
4:ER:58:MET:HE1	4:FR:76:LYS:HD3	1.97	0.46
2:BS:174:GLU:HA	2:BS:177:GLU:HG2	1.98	0.46
1:AT:558:ASP:OD1	2:BT:6:GLY:HA3	2.16	0.46
3:CT:293:ILE:HD12	3:CT:302:LEU:O	2.15	0.46
1:AU:544:PRO:HA	1:AU:547:VAL:HG12	1.96	0.46
1:AV:555:MET:HA	1:AV:558:ASP:OD2	2.16	0.46
2:BV:125:GLU:HA	3:CV:147:THR:HG21	1.98	0.46
4:EV:117:LYS:HA	4:EV:117:LYS:HD2	1.71	0.46
2:BX:127:PRO:HB2	2:BX:160:ARG:NE	2.31	0.46
3:CX:56:ILE:HD11	3:CY:188:PHE:CD1	2.50	0.46
3:CX:255:GLN:HA	4:DX:75:ILE:HB	1.96	0.46
4:DY:98:ASP:OD1	4:DY:99:ILE:N	2.49	0.46
2:B1:127:PRO:HB2	2:B1:160:ARG:NE	2.31	0.46
3:C1:146:PHE:HA	3:C1:150:GLU:OE1	2.16	0.46
3:C1:228:ARG:O	3:C1:232:VAL:HG23	2.15	0.46
3:C1:251:VAL:O	3:C1:255:GLN:HG3	2.16	0.46
4:E1:125:ILE:O	4:E1:126:ILE:HB	2.14	0.46
4:F2:76:LYS:O	4:F2:79:LEU:HG	2.16	0.46
3:C3:75:ARG:HD3	3:C3:129:ASN:ND2	2.31	0.46
2:B4:268:PRO:HG3	2:B4:271:ARG:HH21	1.81	0.46
3:C5:146:PHE:HA	3:C5:150:GLU:OE1	2.15	0.46
4:F5:134:ARG:HA	4:F5:137:ARG:NH1	2.30	0.46
3:C6:89:TYR:HD2	3:C6:195:PRO:HA	1.81	0.46
3:C6:146:PHE:CD2	3:C6:184:MET:HE1	2.51	0.46
3:C6:250:LEU:HD21	4:E7:78:LEU:O	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E7:75:ILE:HG12	4:F7:60:ILE:O	2.16	0.46
4:F7:104:TYR:CE2	4:F7:106:ILE:HG22	2.51	0.46
2:BB:135:VAL:HG11	2:BC:194:GLY:HA3	1.97	0.46
3:CB:274:GLN:O	3:CB:278:LEU:HB2	2.15	0.46
1:AC:555:MET:HE1	2:BC:29:LEU:HD22	1.97	0.46
3:CC:89:TYR:HD2	3:CC:195:PRO:HA	1.81	0.46
3:CC:125:ILE:HG12	3:CC:211:LEU:HD13	1.98	0.46
3:CC:271:ARG:HH21	4:DC:59:ASP:HB2	1.81	0.46
3:CD:271:ARG:HH21	4:DD:59:ASP:HB2	1.81	0.46
2:BE:174:GLU:HA	2:BE:177:GLU:HG2	1.98	0.46
4:EE:67:GLU:OE1	4:EE:70:ARG:HD2	2.16	0.46
4:EE:75:ILE:HG13	4:FE:58:MET:HG2	1.97	0.46
2:BF:42:ALA:HB2	2:BG:97:ILE:HG23	1.96	0.46
2:BG:12:ILE:HD11	2:BG:47:ILE:HG12	1.97	0.46
3:CG:125:ILE:HG12	3:CG:211:LEU:HD13	1.98	0.46
3:CG:246:TRP:HZ2	4:FH:122:ILE:HD12	1.81	0.46
4:EH:76:LYS:HZ1	4:FH:58:MET:C	2.19	0.46
2:BK:253:GLU:OE1	2:BK:314:ARG:NH2	2.48	0.46
3:CK:125:ILE:HG12	3:CK:211:LEU:HD13	1.98	0.46
2:BL:247:ILE:HD11	2:BL:273:LYS:HG3	1.97	0.46
2:BM:268:PRO:HG3	2:BM:271:ARG:HH21	1.80	0.46
3:CM:239:SER:HB3	3:CM:243:ASP:CG	2.41	0.46
4:EM:75:ILE:HG12	4:FM:60:ILE:O	2.16	0.46
2:BP:81:LEU:HD13	2:BP:93:LEU:HB2	1.97	0.46
2:BP:174:GLU:HA	2:BP:177:GLU:HG2	1.98	0.46
3:CP:89:TYR:HD2	3:CP:195:PRO:HA	1.81	0.46
3:CQ:125:ILE:HG12	3:CQ:211:LEU:HD13	1.98	0.46
3:CQ:271:ARG:NH2	4:DQ:59:ASP:HB2	2.31	0.46
4:FQ:134:ARG:HA	4:FQ:137:ARG:NH1	2.31	0.46
2:BR:174:GLU:HA	2:BR:177:GLU:HG2	1.98	0.46
4:DR:99:ILE:HD12	4:DR:107:ALA:HB3	1.98	0.46
2:BS:110:LEU:HA	2:BS:113:MET:HG3	1.98	0.46
2:BS:135:VAL:HG11	2:BT:194:GLY:HA3	1.97	0.46
4:ES:76:LYS:NZ	4:FS:59:ASP:HA	2.30	0.46
4:FS:133:ARG:HH12	4:FS:137:ARG:HH11	1.62	0.46
4:DT:105:LEU:HB2	4:DT:131:ARG:HE	1.81	0.46
4:FU:100:LEU:HA	4:FU:105:LEU:HA	1.97	0.46
3:CV:293:ILE:HD12	3:CV:302:LEU:O	2.15	0.46
2:BX:96:ASP:O	2:BX:100:THR:HG23	2.16	0.46
2:BX:251:LEU:HA	2:BX:254:VAL:HG12	1.96	0.46
4:EY:75:ILE:HG13	4:FY:58:MET:HG2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:13:LEU:HD13	2:B2:59:PHE:CD1	2.51	0.46
1:A3:536:ILE:HA	1:A3:539:MET:HG2	1.98	0.46
1:A3:544:PRO:HA	1:A3:547:VAL:HG12	1.97	0.46
2:B3:30:SER:O	2:B3:34:VAL:HG23	2.15	0.46
4:D5:101:ILE:HG22	4:D5:106:ILE:HB	1.96	0.46
3:C6:251:VAL:O	3:C6:255:GLN:HG3	2.16	0.46
4:F6:101:ILE:N	4:F6:104:TYR:O	2.33	0.46
4:F6:126:ILE:HD12	4:F6:131:ARG:HB2	1.98	0.46
2:B7:62:GLU:O	2:B7:65:GLN:HG3	2.16	0.46
3:C9:228:ARG:O	3:C9:232:VAL:HG23	2.14	0.46
4:F9:133:ARG:HH12	4:F9:137:ARG:HH11	1.64	0.46
3:CA:75:ARG:HD3	3:CA:129:ASN:ND2	2.32	0.46
2:BB:69:LEU:HG	2:BB:70:ASN:N	2.31	0.46
1:AC:558:ASP:OD1	2:BC:6:GLY:HA3	2.16	0.46
2:BC:15:MET:HE1	2:BD:76:TYR:CD2	2.51	0.46
2:BC:17:ILE:O	2:BC:21:ARG:HD2	2.16	0.46
2:BC:203:ILE:HG12	2:BC:214:VAL:HG11	1.96	0.46
1:AE:547:VAL:HG13	2:BE:25:VAL:HG22	1.98	0.46
3:CE:125:ILE:HG12	3:CE:211:LEU:HD13	1.98	0.46
3:CE:239:SER:HB3	3:CE:243:ASP:CG	2.41	0.46
4:EF:58:MET:SD	4:FF:75:ILE:HG13	2.56	0.46
1:AG:558:ASP:OD1	2:BG:6:GLY:HA3	2.16	0.46
2:BG:230:ILE:O	2:BG:233:MET:HB2	2.16	0.46
2:BH:62:GLU:O	2:BH:65:GLN:HG3	2.16	0.46
4:EH:73:MET:HE1	4:EH:78:LEU:HD23	1.98	0.46
4:FH:96:PRO:HB2	4:FH:108:GLN:HB3	1.97	0.46
2:BI:26:PHE:HA	2:BI:29:LEU:HD12	1.98	0.46
1:AJ:552:ARG:HA	1:AJ:555:MET:HE3	1.98	0.46
3:CK:250:LEU:HD21	4:EL:78:LEU:O	2.15	0.46
3:CK:272:LEU:HB2	4:DK:60:ILE:HB	1.98	0.46
2:BL:96:ASP:O	2:BL:100:THR:HG23	2.16	0.46
4:EL:75:ILE:O	4:EL:79:LEU:HG	2.16	0.46
4:EL:76:LYS:HZ1	4:FL:58:MET:C	2.19	0.46
2:BN:14:LEU:HD13	2:BN:17:ILE:HD11	1.98	0.46
3:CP:251:VAL:O	3:CP:255:GLN:HG3	2.15	0.46
4:FP:133:ARG:HH12	4:FP:137:ARG:NH1	2.14	0.46
4:EQ:131:ARG:HA	4:EQ:134:ARG:NH1	2.30	0.46
4:DR:73:MET:HE1	4:DR:78:LEU:HA	1.98	0.46
1:AS:532:MET:O	1:AS:536:ILE:HG12	2.16	0.46
4:DS:99:ILE:HD12	4:DS:107:ALA:HB3	1.99	0.46
1:AT:548:ALA:HA	2:BT:25:VAL:HG13	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:97:ILE:HG22	2:BU:101:ARG:HH12	1.81	0.46
4:EU:75:ILE:O	4:EU:79:LEU:HG	2.16	0.46
2:BV:229:ILE:O	2:BV:233:MET:HG2	2.15	0.46
2:BW:246:SER:O	2:BW:250:LEU:HD23	2.15	0.46
4:DW:132:MET:HE1	4:EX:131:ARG:HD2	1.96	0.46
3:CX:146:PHE:HA	3:CX:150:GLU:OE1	2.15	0.46
4:EX:131:ARG:HA	4:EX:134:ARG:NH1	2.31	0.46
4:FY:100:LEU:HA	4:FY:105:LEU:HA	1.98	0.46
4:F1:100:LEU:HA	4:F1:105:LEU:HA	1.98	0.45
3:C2:125:ILE:HG12	3:C2:211:LEU:HD13	1.98	0.45
4:D2:131:ARG:NH1	4:E2:59:ASP:OD2	2.49	0.45
4:E2:73:MET:HE1	4:E2:78:LEU:HD23	1.98	0.45
4:E3:75:ILE:O	4:E3:79:LEU:HG	2.17	0.45
2:B4:209:GLN:HA	2:B4:212:GLU:CD	2.41	0.45
4:E6:75:ILE:O	4:E6:79:LEU:HG	2.15	0.45
2:B7:10:SER:HA	2:B7:13:LEU:HD12	1.98	0.45
3:C8:146:PHE:HA	3:C8:150:GLU:OE1	2.16	0.45
3:C9:125:ILE:HG12	3:C9:211:LEU:HD13	1.98	0.45
3:C9:302:LEU:HD13	3:C9:317:VAL:HG13	1.98	0.45
4:E9:55:ASP:HB3	4:E9:57:ILE:HD12	1.98	0.45
3:CA:228:ARG:O	3:CA:232:VAL:HG23	2.14	0.45
4:DB:102:ASN:ND2	4:EB:61:PRO:O	2.44	0.45
2:BE:110:LEU:HA	2:BE:113:MET:HG3	1.98	0.45
3:CF:271:ARG:HH21	4:DF:59:ASP:HB2	1.81	0.45
2:BG:229:ILE:O	2:BG:233:MET:HG2	2.17	0.45
3:CG:53:ALA:HB1	3:CG:172:ILE:HD13	1.98	0.45
2:BH:127:PRO:HB2	2:BH:160:ARG:NE	2.30	0.45
3:CH:146:PHE:HA	3:CH:150:GLU:OE1	2.16	0.45
2:BI:96:ASP:O	2:BI:100:THR:HG23	2.16	0.45
2:BI:246:SER:O	2:BI:250:LEU:HD23	2.16	0.45
2:BJ:127:PRO:HB2	2:BJ:160:ARG:NE	2.30	0.45
1:AK:547:VAL:HG13	2:BK:25:VAL:HG22	1.98	0.45
2:BK:38:SER:HB3	2:BL:97:ILE:HD11	1.98	0.45
3:CN:271:ARG:NH2	4:DN:59:ASP:HB2	2.32	0.45
2:BO:62:GLU:O	2:BO:65:GLN:HG3	2.16	0.45
2:BO:242:VAL:O	2:BO:243:ASP:OD1	2.34	0.45
1:AP:547:VAL:HG23	2:BP:59:PHE:CZ	2.43	0.45
2:BP:196:VAL:C	2:BP:198:THR:H	2.24	0.45
3:CP:293:ILE:HD12	3:CP:302:LEU:O	2.16	0.45
2:BR:127:PRO:HB2	2:BR:160:ARG:NE	2.31	0.45
2:BR:171:ALA:O	2:BR:174:GLU:HG3	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BS:139:ARG:NH2	2:BT:205:LEU:H	2.04	0.45
2:BS:212:GLU:HA	2:BS:215:ILE:HG12	1.97	0.45
2:BS:251:LEU:HA	2:BS:254:VAL:HG12	1.97	0.45
4:DT:99:ILE:HD12	4:DT:107:ALA:HB3	1.98	0.45
1:AU:536:ILE:HA	1:AU:539:MET:HG2	1.98	0.45
3:CU:125:ILE:HG12	3:CU:211:LEU:HD13	1.98	0.45
3:CU:271:ARG:NH2	4:DU:59:ASP:HB2	2.31	0.45
4:FU:76:LYS:O	4:FU:79:LEU:HG	2.16	0.45
2:BV:93:LEU:O	2:BV:97:ILE:HG12	2.15	0.45
4:FV:134:ARG:HA	4:FV:137:ARG:HH12	1.82	0.45
2:BW:10:SER:O	2:BW:14:LEU:HD23	2.16	0.45
2:BW:62:GLU:O	2:BW:65:GLN:HG3	2.16	0.45
3:CW:299:VAL:HA	4:FW:132:MET:CE	2.47	0.45
1:AX:558:ASP:OD1	2:BX:6:GLY:HA3	2.15	0.45
2:B2:139:ARG:HD2	2:B3:202:ILE:HG12	1.97	0.45
4:D2:99:ILE:HD12	4:D2:107:ALA:HB3	1.98	0.45
4:E4:75:ILE:HG13	4:F4:58:MET:HG2	1.97	0.45
3:C6:293:ILE:HD12	3:C6:302:LEU:O	2.15	0.45
2:B7:81:LEU:HD13	2:B7:93:LEU:HB2	1.98	0.45
4:F8:76:LYS:O	4:F8:79:LEU:HG	2.17	0.45
2:BB:12:ILE:HD11	2:BB:47:ILE:HG12	1.97	0.45
2:BB:62:GLU:O	2:BB:65:GLN:HG3	2.15	0.45
2:BB:113:MET:SD	2:BB:118:ALA:HB2	2.56	0.45
3:CB:251:VAL:O	3:CB:255:GLN:HG3	2.16	0.45
3:CB:253:GLN:HG3	4:FC:125:ILE:HD11	1.99	0.45
4:FC:104:TYR:CE2	4:FC:106:ILE:HG22	2.52	0.45
3:CD:239:SER:HB3	3:CD:243:ASP:CG	2.41	0.45
4:DD:99:ILE:HD12	4:DD:107:ALA:HB3	1.98	0.45
2:BE:321:MET:HE3	2:BE:321:MET:HB2	1.85	0.45
3:CE:260:GLU:HA	4:DE:72:ARG:HH22	1.82	0.45
4:EE:76:LYS:HZ1	4:FE:58:MET:C	2.20	0.45
1:AF:532:MET:O	1:AF:536:ILE:HG12	2.16	0.45
2:BF:26:PHE:CE2	2:BG:84:ALA:HB1	2.51	0.45
2:BG:207:LYS:HG3	2:BG:209:GLN:H	1.81	0.45
4:EG:75:ILE:O	4:EG:79:LEU:HG	2.16	0.45
2:BH:268:PRO:HG3	2:BH:271:ARG:HH21	1.80	0.45
3:CH:125:ILE:HG12	3:CH:211:LEU:HD13	1.98	0.45
4:FH:110:GLU:OE1	4:FH:121:ARG:NH1	2.49	0.45
2:BK:196:VAL:C	2:BK:198:THR:H	2.23	0.45
2:BM:161:ILE:O	2:BN:195:GLY:HA2	2.17	0.45
4:EM:117:LYS:HA	4:EM:117:LYS:HD2	1.71	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:98:LEU:HA	2:BN:101:ARG:NH2	2.32	0.45
2:BN:113:MET:SD	2:BN:118:ALA:HB2	2.57	0.45
2:BN:161:ILE:HG22	2:BO:199:ALA:HB2	1.97	0.45
4:DN:104:TYR:CD2	4:EN:61:PRO:HG3	2.51	0.45
4:EN:131:ARG:HA	4:EN:134:ARG:NH1	2.31	0.45
2:BQ:125:GLU:HA	3:CQ:147:THR:HG21	1.97	0.45
2:BQ:159:LEU:HB3	3:CQ:137:PHE:CE2	2.51	0.45
3:CQ:240:ARG:N	3:CQ:242:GLU:OE1	2.41	0.45
3:CQ:271:ARG:HH21	4:DQ:59:ASP:HB2	1.80	0.45
2:BT:166:GLY:HA3	2:BU:190:ARG:HG2	1.98	0.45
3:CU:89:TYR:HD2	3:CU:195:PRO:HA	1.81	0.45
2:BV:113:MET:SD	2:BV:118:ALA:HB2	2.56	0.45
3:CW:75:ARG:HD3	3:CW:129:ASN:ND2	2.31	0.45
4:FW:133:ARG:HH12	4:FW:137:ARG:HH11	1.64	0.45
3:CX:154:ILE:HA	3:CX:157:MET:HG2	1.98	0.45
2:BY:242:VAL:O	2:BY:246:SER:OG	2.33	0.45
4:FY:116:ASP:OD1	4:FY:116:ASP:O	2.34	0.45
4:F1:133:ARG:HH12	4:F1:137:ARG:HH11	1.64	0.45
2:B2:268:PRO:HG3	2:B2:271:ARG:HH21	1.81	0.45
4:E4:128:PRO:HG3	4:E4:131:ARG:HH21	1.82	0.45
2:B5:127:PRO:HB2	2:B5:160:ARG:NE	2.31	0.45
2:B7:127:PRO:HB2	2:B7:160:ARG:NE	2.31	0.45
2:B7:242:VAL:O	2:B7:243:ASP:OD1	2.35	0.45
4:E7:93:ALA:HB3	4:F7:116:ASP:OD1	2.15	0.45
2:B8:247:ILE:HD11	2:B8:273:LYS:HG3	1.97	0.45
3:C8:293:ILE:HD12	3:C8:302:LEU:O	2.16	0.45
4:F8:110:GLU:OE1	4:F8:121:ARG:NH1	2.49	0.45
2:BD:242:VAL:O	2:BD:243:ASP:OD1	2.34	0.45
4:FD:134:ARG:HA	4:FD:137:ARG:NH1	2.31	0.45
3:CE:260:GLU:OE1	4:DE:72:ARG:NH2	2.49	0.45
2:BF:90:ALA:O	2:BF:94:LEU:HG	2.16	0.45
2:BG:11:VAL:O	2:BG:15:MET:HG2	2.16	0.45
2:BG:42:ALA:HB2	2:BH:97:ILE:HG23	1.97	0.45
3:CG:293:ILE:HD12	3:CG:302:LEU:O	2.16	0.45
4:EG:76:LYS:NZ	4:FG:59:ASP:HA	2.31	0.45
4:DH:101:ILE:HG22	4:DH:106:ILE:HB	1.98	0.45
4:EH:131:ARG:HA	4:EH:134:ARG:NH1	2.31	0.45
4:FH:76:LYS:O	4:FH:79:LEU:HG	2.16	0.45
2:BI:97:ILE:HG22	2:BI:101:ARG:HH12	1.82	0.45
3:CI:146:PHE:HA	3:CI:150:GLU:OE1	2.16	0.45
1:AJ:549:LEU:O	1:AJ:552:ARG:HB2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DJ:101:ILE:HG22	4:DJ:106:ILE:HB	1.98	0.45
2:BO:125:GLU:HA	3:CO:147:THR:HG21	1.97	0.45
1:AQ:515:ASP:OD2	1:AR:535:ARG:NH2	2.49	0.45
2:BQ:62:GLU:O	2:BQ:65:GLN:HG3	2.16	0.45
2:BQ:268:PRO:HG3	2:BQ:271:ARG:HH21	1.80	0.45
2:BR:62:GLU:O	2:BR:65:GLN:HG3	2.16	0.45
4:DR:105:LEU:HB2	4:DR:131:ARG:HE	1.81	0.45
4:DR:130:GLU:HG3	4:DR:134:ARG:HD2	1.98	0.45
1:AS:558:ASP:OD1	2:BS:6:GLY:HA3	2.16	0.45
2:BS:11:VAL:O	2:BS:15:MET:HG2	2.17	0.45
2:BT:171:ALA:O	2:BT:174:GLU:HG3	2.15	0.45
2:BT:212:GLU:HA	2:BT:215:ILE:HG12	1.98	0.45
2:BV:253:GLU:OE1	2:BV:314:ARG:NH2	2.50	0.45
3:CW:53:ALA:HB1	3:CW:172:ILE:HD13	1.99	0.45
2:B1:96:ASP:O	2:B1:100:THR:HG23	2.16	0.45
2:B1:212:GLU:HA	2:B1:215:ILE:HG12	1.98	0.45
3:C1:125:ILE:HG12	3:C1:211:LEU:HD13	1.98	0.45
2:B2:19:GLU:OE2	2:B3:79:SER:HB3	2.15	0.45
2:B2:113:MET:CE	2:B2:117:SER:HB2	2.45	0.45
3:C2:228:ARG:O	3:C2:232:VAL:HG23	2.14	0.45
4:D2:74:THR:N	4:D2:77:GLU:OE2	2.25	0.45
4:E2:75:ILE:HG13	4:F2:58:MET:HG2	1.97	0.45
3:C3:238:ASN:ND2	3:C4:112:GLY:HA2	2.32	0.45
3:C5:125:ILE:HG12	3:C5:211:LEU:HD13	1.97	0.45
4:E5:76:LYS:HZ1	4:F5:58:MET:C	2.20	0.45
2:B6:166:GLY:O	2:B7:190:ARG:NE	2.31	0.45
2:B6:246:SER:O	2:B6:250:LEU:HD23	2.16	0.45
2:B6:274:PHE:CE2	2:B6:278:MET:HE1	2.51	0.45
2:B7:113:MET:SD	2:B7:118:ALA:HB2	2.57	0.45
2:B8:212:GLU:HA	2:B8:215:ILE:HG12	1.98	0.45
3:C8:89:TYR:HD2	3:C8:195:PRO:HA	1.82	0.45
2:B9:10:SER:HA	2:B9:13:LEU:HD12	1.98	0.45
3:C9:238:ASN:HD22	3:CA:112:GLY:HA2	1.80	0.45
2:BA:268:PRO:HG3	2:BA:271:ARG:HH21	1.80	0.45
3:CA:51:LEU:HD22	3:CA:231:LEU:HB3	1.98	0.45
3:CA:89:TYR:HD2	3:CA:195:PRO:HA	1.82	0.45
4:EA:117:LYS:HD2	4:EA:117:LYS:HA	1.71	0.45
2:BB:98:LEU:HA	2:BB:101:ARG:NH2	2.32	0.45
2:BB:251:LEU:HA	2:BB:254:VAL:HG12	1.98	0.45
3:CB:271:ARG:HH21	4:DB:59:ASP:HB2	1.82	0.45
2:BD:62:GLU:O	2:BD:65:GLN:HG3	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:546:VAL:HG22	2:BE:70:ASN:HD21	1.81	0.45
4:EE:75:ILE:O	4:EE:79:LEU:HG	2.16	0.45
2:BF:38:SER:HB3	2:BG:97:ILE:HD11	1.98	0.45
2:BF:253:GLU:OE1	2:BF:314:ARG:NH2	2.50	0.45
2:BI:161:ILE:O	2:BJ:195:GLY:HA2	2.17	0.45
3:CI:239:SER:HB3	3:CI:243:ASP:CG	2.42	0.45
4:DI:102:ASN:ND2	4:EI:61:PRO:O	2.41	0.45
4:DI:130:GLU:HG3	4:DI:134:ARG:HD2	1.98	0.45
4:FI:76:LYS:O	4:FI:79:LEU:HG	2.17	0.45
2:BJ:161:ILE:HG22	2:BK:199:ALA:HB2	1.99	0.45
4:DJ:131:ARG:NH1	4:EJ:59:ASP:OD2	2.49	0.45
4:FL:134:ARG:HA	4:FL:137:ARG:HH12	1.82	0.45
2:BN:42:ALA:CB	2:BO:97:ILE:HG23	2.47	0.45
4:EN:74:THR:O	4:EN:78:LEU:HG	2.16	0.45
4:EO:67:GLU:OE1	4:EO:70:ARG:HD2	2.17	0.45
1:AP:532:MET:O	1:AP:536:ILE:HG12	2.17	0.45
4:EP:58:MET:SD	4:FP:75:ILE:HG13	2.57	0.45
4:FP:76:LYS:O	4:FP:79:LEU:HG	2.16	0.45
3:CR:51:LEU:HD22	3:CR:231:LEU:HB3	1.98	0.45
3:CR:271:ARG:NH2	4:DR:59:ASP:HB2	2.32	0.45
3:CS:271:ARG:NH2	4:DS:59:ASP:HB2	2.32	0.45
3:CS:300:PRO:HD2	4:FS:132:MET:HE2	1.99	0.45
4:ES:75:ILE:HB	4:ES:76:LYS:NZ	2.31	0.45
2:BT:171:ALA:HB1	3:CT:131:PHE:CE1	2.51	0.45
4:ET:73:MET:HE1	4:ET:78:LEU:HD23	1.98	0.45
2:BU:96:ASP:O	2:BU:100:THR:HG23	2.16	0.45
4:DU:99:ILE:HD12	4:DU:107:ALA:HB3	1.99	0.45
2:BV:14:LEU:HD13	2:BV:17:ILE:HD11	1.97	0.45
2:BW:196:VAL:C	2:BW:198:THR:H	2.25	0.45
2:BW:242:VAL:O	2:BW:243:ASP:OD1	2.35	0.45
3:CW:266:ALA:HB1	3:CW:286:ILE:HG12	1.99	0.45
1:AY:540:SER:OG	2:BY:21:ARG:HD3	2.16	0.45
2:BY:41:MET:HA	2:BY:44:VAL:HB	1.98	0.45
4:DY:129:SER:O	4:DY:133:ARG:HD3	2.16	0.45
4:EY:75:ILE:O	4:EY:79:LEU:HG	2.16	0.45
2:B1:195:GLY:HA2	2:BY:161:ILE:O	2.16	0.45
2:B1:253:GLU:OE1	2:B1:314:ARG:NH2	2.49	0.45
3:C1:42:THR:HG22	3:C1:44:ARG:HG3	1.99	0.45
3:C2:53:ALA:HB1	3:C2:172:ILE:HD13	1.99	0.45
4:D2:101:ILE:HD13	4:E2:60:ILE:HD13	1.98	0.45
2:B3:93:LEU:O	2:B3:97:ILE:HG12	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F7:116:ASP:OD1	4:F7:116:ASP:O	2.35	0.45
3:C8:271:ARG:NH2	4:D8:59:ASP:HB2	2.31	0.45
2:BA:242:VAL:O	2:BA:243:ASP:OD1	2.35	0.45
2:BC:10:SER:O	2:BC:14:LEU:HD23	2.16	0.45
3:CD:271:ARG:NH2	4:DD:59:ASP:HB2	2.32	0.45
4:EE:58:MET:SD	4:FE:75:ILE:HG13	2.57	0.45
4:EE:117:LYS:HD2	4:EE:117:LYS:HA	1.71	0.45
3:CF:53:ALA:HB1	3:CF:172:ILE:HD13	1.99	0.45
4:EF:99:ILE:HG12	4:EF:120:VAL:HG21	1.98	0.45
1:AG:522:ARG:HD3	2:BH:64:GLU:HG3	1.97	0.45
3:CG:239:SER:HB3	3:CG:243:ASP:CG	2.42	0.45
1:AH:558:ASP:OD1	2:BH:6:GLY:HA3	2.16	0.45
3:CH:272:LEU:HB2	4:DH:60:ILE:HB	1.99	0.45
2:BI:17:ILE:O	2:BI:21:ARG:HD2	2.17	0.45
2:BI:159:LEU:HB3	3:CI:137:PHE:CE2	2.51	0.45
2:BI:268:PRO:HG3	2:BI:271:ARG:HH21	1.80	0.45
2:BJ:139:ARG:NH1	2:BK:201:GLU:HB3	2.32	0.45
2:BM:10:SER:O	2:BM:14:LEU:HD23	2.16	0.45
2:BM:204:ASN:HD21	2:BM:233:MET:HA	1.81	0.45
3:CM:271:ARG:NH2	4:DM:59:ASP:HB2	2.32	0.45
2:BN:81:LEU:HD12	2:BN:94:LEU:HG	1.99	0.45
3:CN:146:PHE:CD2	3:CN:184:MET:HE1	2.51	0.45
2:BO:113:MET:SD	2:BO:118:ALA:HB2	2.57	0.45
2:BO:212:GLU:HA	2:BO:215:ILE:HG12	1.99	0.45
4:EO:126:ILE:O	4:EO:128:PRO:HD3	2.17	0.45
3:CP:250:LEU:HD21	4:EQ:78:LEU:O	2.16	0.45
3:CQ:239:SER:HB3	3:CQ:243:ASP:CG	2.42	0.45
2:BS:113:MET:SD	2:BS:118:ALA:HB2	2.56	0.45
4:ES:75:ILE:O	4:ES:79:LEU:HG	2.17	0.45
2:BT:242:VAL:O	2:BT:243:ASP:OD1	2.35	0.45
3:CT:42:THR:HG22	3:CT:44:ARG:HG3	1.99	0.45
3:CT:302:LEU:HD13	3:CT:317:VAL:HG13	1.99	0.45
2:BU:125:GLU:HA	3:CU:147:THR:HG21	1.99	0.45
3:CU:107:LEU:HD11	3:CU:219:LEU:HD22	1.99	0.45
3:CU:251:VAL:HA	3:CU:254:VAL:HG22	1.98	0.45
4:EV:58:MET:SD	4:FV:75:ILE:HG13	2.57	0.45
2:BW:93:LEU:O	2:BW:97:ILE:HG12	2.17	0.45
2:BW:113:MET:SD	2:BW:118:ALA:HB2	2.57	0.45
2:BX:110:LEU:HA	2:BX:113:MET:HG3	1.97	0.45
4:FX:100:LEU:HA	4:FX:105:LEU:HA	1.98	0.45
2:BY:10:SER:O	2:BY:14:LEU:HD23	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:81:LEU:HD13	2:BY:93:LEU:HB2	1.98	0.45
2:BY:212:GLU:HA	2:BY:215:ILE:HG12	1.98	0.45
4:EY:117:LYS:HA	4:EY:117:LYS:HD2	1.71	0.45
4:D1:102:ASN:ND2	4:E1:61:PRO:O	2.40	0.45
4:E1:118:TYR:CG	4:F1:68:LEU:HD21	2.52	0.45
2:B2:93:LEU:O	2:B2:97:ILE:HG12	2.16	0.45
4:D2:105:LEU:HB2	4:D2:131:ARG:HE	1.82	0.45
3:C3:228:ARG:O	3:C3:232:VAL:HG23	2.14	0.45
4:F3:133:ARG:HH12	4:F3:137:ARG:HH11	1.65	0.45
3:C4:250:LEU:HD21	4:E5:78:LEU:O	2.15	0.45
2:B5:17:ILE:O	2:B5:21:ARG:HD2	2.17	0.45
3:C5:246:TRP:HZ2	4:F6:122:ILE:HD12	1.81	0.45
4:E5:75:ILE:O	4:E5:79:LEU:HG	2.16	0.45
2:B6:157:VAL:O	2:B6:161:ILE:HG12	2.16	0.45
3:C6:42:THR:HG22	3:C6:44:ARG:HG3	1.99	0.45
3:C6:271:ARG:HH21	4:D6:59:ASP:HB2	1.82	0.45
2:B8:158:MET:HE1	2:B9:218:VAL:HG21	1.98	0.45
3:C8:246:TRP:HZ2	4:F9:122:ILE:HD12	1.82	0.45
4:E9:75:ILE:O	4:E9:79:LEU:HG	2.17	0.45
4:DA:101:ILE:HG22	4:DA:106:ILE:HB	1.98	0.45
2:BB:93:LEU:O	2:BB:97:ILE:HG12	2.16	0.45
2:BB:96:ASP:O	2:BB:100:THR:HG23	2.17	0.45
2:BB:242:VAL:O	2:BB:243:ASP:OD1	2.35	0.45
4:EB:71:THR:HB	4:FB:64:LEU:HD21	1.99	0.45
2:BC:62:GLU:O	2:BC:65:GLN:HG3	2.15	0.45
2:BC:242:VAL:O	2:BC:243:ASP:OD1	2.35	0.45
3:CC:299:VAL:HG22	4:FC:132:MET:HE2	1.98	0.45
4:DC:101:ILE:HG22	4:DC:106:ILE:HB	1.97	0.45
2:BD:96:ASP:O	2:BD:100:THR:HG23	2.17	0.45
2:BD:98:LEU:HA	2:BD:101:ARG:NH2	2.31	0.45
3:CD:293:ILE:HD12	3:CD:302:LEU:O	2.16	0.45
4:FD:101:ILE:N	4:FD:104:TYR:O	2.33	0.45
2:BE:31:THR:O	2:BE:35:GLN:HG2	2.17	0.45
3:CE:251:VAL:O	3:CE:255:GLN:HG3	2.16	0.45
2:BF:242:VAL:O	2:BF:243:ASP:OD1	2.35	0.45
3:CF:255:GLN:HA	4:DF:75:ILE:HB	1.99	0.45
4:DF:106:ILE:HD13	4:EF:60:ILE:HD11	1.97	0.45
2:BG:10:SER:O	2:BG:14:LEU:HD23	2.15	0.45
2:BG:62:GLU:O	2:BG:65:GLN:HG3	2.16	0.45
2:BG:127:PRO:HB2	2:BG:160:ARG:NE	2.31	0.45
2:BH:14:LEU:O	2:BI:76:TYR:OH	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:157:VAL:O	2:BH:161:ILE:HG12	2.17	0.45
4:EH:75:ILE:O	4:EH:79:LEU:HG	2.16	0.45
3:CI:125:ILE:HG12	3:CI:211:LEU:HD13	1.99	0.45
3:CI:250:LEU:HD21	4:EJ:78:LEU:O	2.14	0.45
4:EI:106:ILE:HD12	4:EI:125:ILE:HD11	1.99	0.45
2:BJ:321:MET:HE3	2:BJ:321:MET:HB3	1.90	0.45
3:CJ:108:LYS:O	3:CJ:175:LEU:HB2	2.17	0.45
3:CJ:272:LEU:HB2	4:DJ:60:ILE:HB	1.99	0.45
3:CK:53:ALA:HB1	3:CK:172:ILE:HD13	1.99	0.45
2:BL:268:PRO:HG3	2:BL:271:ARG:HH21	1.80	0.45
3:CL:239:SER:HB3	3:CL:243:ASP:CG	2.42	0.45
3:CL:271:ARG:HH21	4:DL:59:ASP:HB2	1.81	0.45
2:BM:38:SER:HA	2:BM:41:MET:HG2	1.98	0.45
3:CM:146:PHE:CD2	3:CM:184:MET:HE1	2.52	0.45
3:CM:274:GLN:O	3:CM:278:LEU:HB2	2.17	0.45
3:CM:293:ILE:HD12	3:CM:302:LEU:O	2.16	0.45
4:DM:131:ARG:NH1	4:EM:59:ASP:OD2	2.49	0.45
3:CN:108:LYS:O	3:CN:175:LEU:HB2	2.17	0.45
2:BO:251:LEU:HD22	2:BO:278:MET:HG3	1.98	0.45
2:BQ:246:SER:O	2:BQ:250:LEU:HD23	2.17	0.45
2:BR:125:GLU:HA	3:CR:147:THR:HG21	1.97	0.45
2:BR:161:ILE:HG22	2:BS:199:ALA:HB2	1.99	0.45
4:ER:93:ALA:HB3	4:FR:116:ASP:OD1	2.17	0.45
3:CS:108:LYS:O	3:CS:175:LEU:HB2	2.17	0.45
1:AW:558:ASP:OD1	2:BW:6:GLY:HA3	2.17	0.45
3:CW:179:TYR:OH	3:CW:182:SER:OG	2.25	0.45
4:EW:58:MET:SD	4:FW:75:ILE:HG13	2.57	0.45
4:EW:75:ILE:O	4:EW:79:LEU:HG	2.17	0.45
2:BY:68:ALA:O	2:BY:70:ASN:ND2	2.50	0.45
3:CY:108:LYS:O	3:CY:175:LEU:HB2	2.17	0.45
4:FY:133:ARG:HH12	4:FY:137:ARG:HH11	1.64	0.45
2:B1:206:MET:HB2	2:B1:211:GLU:HB3	1.97	0.45
2:B5:81:LEU:HD13	2:B5:93:LEU:HB2	1.99	0.45
3:C5:146:PHE:CD2	3:C5:184:MET:HE1	2.52	0.45
2:B6:195:GLY:O	2:B6:198:THR:HB	2.16	0.45
1:A7:549:LEU:HA	1:A7:552:ARG:HB2	1.98	0.45
2:B7:17:ILE:O	2:B7:21:ARG:HD2	2.17	0.45
4:E8:75:ILE:O	4:E8:79:LEU:HG	2.16	0.45
1:AA:547:VAL:HG13	2:BA:25:VAL:HG22	1.99	0.45
3:CA:125:ILE:HG12	3:CA:211:LEU:HD13	1.99	0.45
4:FA:76:LYS:O	4:FA:79:LEU:HG	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:125:ILE:HG12	3:CB:211:LEU:HD13	1.98	0.45
4:DB:101:ILE:HG22	4:DB:106:ILE:HB	1.98	0.45
2:BC:15:MET:HB3	2:BD:69:LEU:HD11	1.99	0.45
2:BC:251:LEU:HA	2:BC:254:VAL:HG12	1.98	0.45
3:CD:89:TYR:HD2	3:CD:195:PRO:HA	1.81	0.45
3:CE:146:PHE:HA	3:CE:150:GLU:OE1	2.17	0.45
4:EF:75:ILE:O	4:EF:79:LEU:HG	2.17	0.45
4:EF:117:LYS:HD2	4:EF:117:LYS:HA	1.69	0.45
3:CH:239:SER:HB3	3:CH:243:ASP:CG	2.42	0.45
3:CH:293:ILE:HD12	3:CH:302:LEU:O	2.17	0.45
3:CI:179:TYR:OH	3:CI:182:SER:OG	2.25	0.45
3:CK:239:SER:HB3	3:CK:243:ASP:CG	2.42	0.45
2:BL:10:SER:O	2:BL:14:LEU:HD23	2.16	0.45
3:CL:53:ALA:HB1	3:CL:172:ILE:HD13	1.99	0.45
2:BM:127:PRO:HB2	2:BM:160:ARG:NE	2.31	0.45
2:BN:62:GLU:O	2:BN:65:GLN:HG3	2.17	0.45
2:BN:96:ASP:O	2:BN:100:THR:HG23	2.17	0.45
3:CO:89:TYR:HD2	3:CO:195:PRO:HA	1.81	0.45
3:CO:272:LEU:HB2	4:DO:60:ILE:HB	1.98	0.45
2:BP:110:LEU:HA	2:BP:113:MET:HG3	1.97	0.45
2:BP:135:VAL:HG11	2:BQ:194:GLY:HA3	1.98	0.45
2:BP:212:GLU:HA	2:BP:215:ILE:HG12	1.98	0.45
2:BP:297:ARG:NH2	2:BQ:329:THR:O	2.35	0.45
4:DQ:126:ILE:HD13	4:DQ:131:ARG:HH21	1.81	0.45
3:CR:42:THR:HG22	3:CR:44:ARG:HG3	1.98	0.45
2:BS:171:ALA:O	2:BS:174:GLU:HG3	2.17	0.45
3:CS:107:LEU:HD11	3:CS:219:LEU:HD22	1.98	0.45
2:BT:62:GLU:O	2:BT:65:GLN:HG3	2.17	0.45
3:CT:271:ARG:NH2	4:DT:59:ASP:HB2	2.32	0.45
4:ET:76:LYS:NZ	4:FT:59:ASP:HA	2.32	0.45
3:CV:272:LEU:HB2	4:DV:60:ILE:HB	1.99	0.45
4:DW:101:ILE:HG22	4:DW:106:ILE:HB	1.99	0.45
2:BX:242:VAL:O	2:BX:243:ASP:OD1	2.35	0.45
4:EX:58:MET:SD	4:FX:75:ILE:HG13	2.57	0.45
4:EX:76:LYS:NZ	4:FX:59:ASP:HA	2.32	0.45
3:CY:293:ILE:HD12	3:CY:302:LEU:O	2.16	0.45
1:A1:547:VAL:HG23	2:B1:59:PHE:CZ	2.44	0.45
1:A3:540:SER:OG	2:B3:21:ARG:HD3	2.16	0.45
2:B3:116:GLN:HA	2:B3:148:LEU:HD13	1.98	0.45
2:B3:171:ALA:HB1	3:C3:131:PHE:CE1	2.51	0.45
4:E3:117:LYS:HD2	4:E3:117:LYS:HA	1.71	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:204:ASN:HD21	2:B4:233:MET:HA	1.81	0.45
4:E4:71:THR:HB	4:F4:64:LEU:HD11	1.99	0.45
4:F4:76:LYS:O	4:F4:79:LEU:HG	2.17	0.45
2:B5:113:MET:SD	2:B5:118:ALA:HB2	2.57	0.45
3:C5:42:THR:HG22	3:C5:44:ARG:HG3	1.99	0.45
3:C5:271:ARG:NH2	4:D5:59:ASP:HB2	2.32	0.45
2:B6:161:ILE:O	2:B7:195:GLY:HA2	2.16	0.45
2:B7:251:LEU:HD22	2:B7:278:MET:HG3	1.98	0.45
3:C7:251:VAL:O	3:C7:255:GLN:HG3	2.16	0.45
4:F7:76:LYS:O	4:F7:79:LEU:HG	2.17	0.45
1:A8:549:LEU:HA	1:A8:552:ARG:HB2	1.98	0.45
2:B8:62:GLU:O	2:B8:65:GLN:HG3	2.17	0.45
2:B9:93:LEU:O	2:B9:97:ILE:HG12	2.16	0.45
2:BA:26:PHE:CD2	2:BB:84:ALA:HB1	2.52	0.45
3:CC:271:ARG:NH2	4:DC:59:ASP:HB2	2.32	0.45
4:FC:134:ARG:HA	4:FC:137:ARG:NH1	2.31	0.45
2:BE:41:MET:CE	2:BF:77:LEU:HB2	2.44	0.45
2:BE:93:LEU:O	2:BE:97:ILE:HG12	2.17	0.45
2:BF:96:ASP:O	2:BF:100:THR:HG23	2.17	0.45
2:BF:229:ILE:O	2:BF:233:MET:HG2	2.17	0.45
3:CF:253:GLN:HG3	4:FG:125:ILE:HD11	1.99	0.45
2:BG:17:ILE:O	2:BG:21:ARG:HD2	2.16	0.45
2:BG:77:LEU:HB3	2:BG:94:LEU:HD21	1.98	0.45
1:AI:549:LEU:HA	1:AI:552:ARG:HB2	1.98	0.45
3:CI:54:LEU:HB2	3:CI:231:LEU:HD23	1.99	0.45
4:EI:58:MET:SD	4:FI:75:ILE:HG13	2.57	0.45
2:BJ:245:ARG:NH1	2:BJ:249:ARG:HB2	2.31	0.45
3:CJ:53:ALA:HB1	3:CJ:172:ILE:HD13	1.99	0.45
3:CJ:293:ILE:HD12	3:CJ:302:LEU:O	2.16	0.45
3:CK:89:TYR:HD2	3:CK:195:PRO:HA	1.82	0.45
2:BL:11:VAL:HG22	2:BL:41:MET:HB2	1.99	0.45
2:BL:74:ASN:O	2:BL:77:LEU:HB2	2.17	0.45
3:CM:53:ALA:HB1	3:CM:172:ILE:HD13	1.99	0.45
3:CM:108:LYS:O	3:CM:175:LEU:HB2	2.17	0.45
3:CN:42:THR:HG22	3:CN:44:ARG:HG3	1.99	0.45
1:AO:522:ARG:HD3	2:BP:64:GLU:HG3	1.98	0.45
3:CP:42:THR:HG22	3:CP:44:ARG:HG3	1.99	0.45
3:CP:271:ARG:NH2	4:DP:59:ASP:HB2	2.32	0.45
3:CP:271:ARG:HH21	4:DP:59:ASP:HB2	1.81	0.45
2:BQ:139:ARG:NH1	2:BR:201:GLU:HB3	2.32	0.45
4:FQ:76:LYS:O	4:FQ:79:LEU:HG	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BR:42:ALA:CB	2:BS:97:ILE:HG23	2.47	0.45
2:BR:242:VAL:O	2:BR:243:ASP:OD1	2.35	0.45
4:DR:101:ILE:HG22	4:DR:106:ILE:HB	1.97	0.45
2:BT:26:PHE:HD1	2:BT:29:LEU:HD12	1.82	0.45
3:CU:42:THR:HG22	3:CU:44:ARG:HG3	1.99	0.45
3:CU:53:ALA:HB1	3:CU:172:ILE:HD13	1.99	0.45
3:CV:53:ALA:HB1	3:CV:172:ILE:HD13	1.99	0.45
4:DV:131:ARG:NH1	4:EV:59:ASP:OD2	2.49	0.45
4:EW:75:ILE:HA	4:EW:78:LEU:HD12	1.99	0.45
2:BY:245:ARG:NH1	2:BY:249:ARG:HB2	2.32	0.45
4:E1:58:MET:SD	4:F1:75:ILE:HG13	2.57	0.45
2:B3:157:VAL:O	2:B3:161:ILE:HG12	2.16	0.45
3:C3:239:SER:HB3	3:C3:243:ASP:CG	2.42	0.45
2:B4:274:PHE:CE2	2:B4:278:MET:HE1	2.51	0.45
3:C4:53:ALA:HB1	3:C4:172:ILE:HD13	1.99	0.45
3:C4:223:MET:HA	3:C4:223:MET:HE3	1.98	0.45
2:B6:10:SER:O	2:B6:14:LEU:HD23	2.16	0.45
4:E6:125:ILE:O	4:E6:126:ILE:HB	2.15	0.45
4:F6:133:ARG:HH12	4:F6:137:ARG:HH11	1.65	0.45
2:B7:11:VAL:O	2:B7:15:MET:HG2	2.17	0.45
3:C8:183:GLU:O	3:C8:184:MET:HE2	2.17	0.45
2:B9:46:GLN:CD	2:BA:70:ASN:HD22	2.25	0.45
2:B9:62:GLU:O	2:B9:65:GLN:HG3	2.16	0.45
2:B9:159:LEU:HB3	3:C9:137:PHE:CE2	2.52	0.45
3:CA:239:SER:HB3	3:CA:243:ASP:CG	2.42	0.45
3:CA:271:ARG:HH21	4:DA:59:ASP:HB2	1.82	0.45
2:BB:42:ALA:CB	2:BC:97:ILE:HG23	2.47	0.45
3:CB:271:ARG:NH2	4:DB:59:ASP:HB2	2.32	0.45
3:CC:254:VAL:O	4:DC:75:ILE:HD12	2.16	0.45
4:DC:102:ASN:ND2	4:EC:61:PRO:O	2.43	0.45
2:BD:212:GLU:HA	2:BD:215:ILE:HG12	1.98	0.45
2:BD:251:LEU:HA	2:BD:254:VAL:HG12	1.98	0.45
3:CE:53:ALA:HB1	3:CE:172:ILE:HD13	1.99	0.45
3:CE:271:ARG:NH2	4:DE:59:ASP:HB2	2.32	0.45
3:CE:299:VAL:HA	4:FE:132:MET:CE	2.44	0.45
4:DE:73:MET:SD	4:DE:78:LEU:HD12	2.56	0.45
2:BF:127:PRO:HB2	2:BF:160:ARG:NE	2.31	0.45
2:BF:251:LEU:HA	2:BF:254:VAL:HG12	1.99	0.45
4:FG:104:TYR:CE2	4:FG:106:ILE:HG22	2.52	0.45
2:BH:96:ASP:O	2:BH:100:THR:HG23	2.16	0.45
2:BH:125:GLU:HA	3:CH:147:THR:HG21	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:89:TYR:HD2	3:CH:195:PRO:HA	1.81	0.45
2:BI:239:LEU:HD23	2:BI:239:LEU:HA	1.86	0.45
1:AJ:544:PRO:HA	1:AJ:547:VAL:HG12	1.99	0.45
3:CJ:183:GLU:O	3:CJ:184:MET:HE2	2.16	0.45
3:CJ:255:GLN:HA	4:DJ:75:ILE:HB	1.99	0.45
4:FJ:134:ARG:HA	4:FJ:137:ARG:NH1	2.32	0.45
2:BK:242:VAL:O	2:BK:243:ASP:OD1	2.35	0.45
3:CK:293:ILE:HD12	3:CK:302:LEU:O	2.15	0.45
2:BL:26:PHE:HD1	2:BL:29:LEU:HD12	1.82	0.45
2:BL:127:PRO:HB2	2:BL:160:ARG:NE	2.31	0.45
3:CM:89:TYR:HD2	3:CM:195:PRO:HA	1.82	0.45
2:BN:97:ILE:HG22	2:BN:101:ARG:HH12	1.81	0.45
2:BN:155:HIS:HA	2:BN:158:MET:HE2	1.99	0.45
2:BN:171:ALA:O	2:BN:174:GLU:HG3	2.17	0.45
3:CO:56:ILE:HD11	3:CP:188:PHE:CD1	2.52	0.45
3:CO:253:GLN:OE1	4:FP:125:ILE:HG12	2.16	0.45
2:BP:274:PHE:CE2	2:BP:278:MET:HE1	2.52	0.45
4:EQ:117:LYS:HA	4:EQ:117:LYS:HD2	1.71	0.45
2:BR:78:ARG:HA	2:BR:94:LEU:HD11	1.98	0.45
2:BR:116:GLN:HA	2:BR:148:LEU:HD13	1.97	0.45
2:BT:268:PRO:HG3	2:BT:271:ARG:HH21	1.80	0.45
2:BV:161:ILE:HG22	2:BW:199:ALA:HB2	1.98	0.45
2:BV:212:GLU:HA	2:BV:215:ILE:HG12	1.99	0.45
3:CV:300:PRO:HD2	4:FV:132:MET:SD	2.57	0.45
3:CX:53:ALA:HB1	3:CX:172:ILE:HD13	1.99	0.45
2:B3:62:GLU:O	2:B3:65:GLN:HG3	2.17	0.45
4:F4:100:LEU:HA	4:F4:105:LEU:HA	1.99	0.45
2:B5:26:PHE:CD2	2:B6:84:ALA:HB1	2.51	0.45
2:B5:41:MET:CE	2:B6:77:LEU:HB2	2.43	0.45
3:C6:108:LYS:O	3:C6:175:LEU:HB2	2.17	0.45
3:C6:239:SER:HB3	3:C6:243:ASP:CG	2.41	0.45
4:E6:117:LYS:HD2	4:E6:117:LYS:HA	1.71	0.45
1:A8:547:VAL:HG13	2:B8:25:VAL:HG22	1.99	0.45
2:B8:12:ILE:HD11	2:B8:47:ILE:HG12	1.99	0.45
3:CC:239:SER:HB3	3:CC:243:ASP:CG	2.42	0.45
2:BD:113:MET:SD	2:BD:118:ALA:HB2	2.57	0.45
2:BE:10:SER:HA	2:BE:13:LEU:HD12	1.99	0.45
2:BE:10:SER:O	2:BE:14:LEU:HD23	2.16	0.45
2:BE:113:MET:SD	2:BE:118:ALA:HB2	2.57	0.45
2:BE:136:HIS:NE2	2:BF:193:MET:HE2	2.31	0.45
2:BE:212:GLU:HA	2:BE:215:ILE:HG12	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BF:125:GLU:HA	3:CF:147:THR:HG21	1.99	0.45
2:BF:230:ILE:O	2:BF:233:MET:HB2	2.16	0.45
2:BH:11:VAL:O	2:BH:15:MET:HG2	2.17	0.45
3:CI:293:ILE:HD12	3:CI:302:LEU:O	2.17	0.45
3:CJ:247:ARG:CZ	4:EK:79:LEU:HB3	2.47	0.45
2:BL:206:MET:HG3	2:BL:210:GLN:HB2	1.98	0.45
2:BL:209:GLN:HA	2:BL:212:GLU:CD	2.42	0.45
4:FL:76:LYS:O	4:FL:79:LEU:HG	2.17	0.45
3:CN:107:LEU:HD11	3:CN:219:LEU:HD22	1.98	0.45
2:BO:81:LEU:HD12	2:BO:94:LEU:HG	1.99	0.45
3:CO:125:ILE:HG12	3:CO:211:LEU:HD13	1.98	0.45
3:CO:299:VAL:HA	4:FO:132:MET:CE	2.44	0.45
2:BS:139:ARG:NH1	2:BT:205:LEU:HB2	2.23	0.45
2:BS:242:VAL:O	2:BS:243:ASP:OD1	2.35	0.45
2:BT:273:LYS:HA	2:BT:276:ARG:NH1	2.32	0.45
3:CU:108:LYS:O	3:CU:175:LEU:HB2	2.17	0.45
4:EU:76:LYS:NZ	4:FU:59:ASP:HA	2.32	0.45
2:BV:53:THR:HA	2:BV:56:LEU:HD21	1.99	0.45
3:CV:108:LYS:O	3:CV:175:LEU:HB2	2.17	0.45
3:CW:239:SER:HB3	3:CW:243:ASP:CG	2.42	0.45
1:AX:540:SER:OG	2:BX:21:ARG:HD3	2.17	0.45
3:CX:42:THR:HG22	3:CX:44:ARG:HG3	1.99	0.45
4:EX:75:ILE:O	4:EX:79:LEU:HG	2.17	0.45
2:BY:113:MET:SD	2:BY:118:ALA:HB2	2.57	0.45
4:F1:76:LYS:O	4:F1:79:LEU:HG	2.17	0.44
4:E2:58:MET:SD	4:F2:75:ILE:HG13	2.57	0.44
4:E2:76:LYS:HZ1	4:F2:58:MET:C	2.21	0.44
2:B3:41:MET:HA	2:B3:44:VAL:HB	1.99	0.44
3:C3:53:ALA:HB1	3:C3:172:ILE:HD13	1.99	0.44
2:B4:9:LYS:HA	2:B4:12:ILE:HD12	1.99	0.44
1:A5:555:MET:HA	1:A5:558:ASP:OD2	2.17	0.44
1:A5:555:MET:HE1	2:B5:29:LEU:HD22	1.98	0.44
2:B6:113:MET:SD	2:B6:118:ALA:HB2	2.57	0.44
1:A7:546:VAL:HG22	2:B7:70:ASN:HD21	1.81	0.44
4:D7:105:LEU:HB2	4:D7:131:ARG:HE	1.82	0.44
2:BA:230:ILE:O	2:BA:233:MET:HB2	2.18	0.44
3:CA:42:THR:HG22	3:CA:44:ARG:HG3	1.98	0.44
3:CA:272:LEU:HB2	4:DA:60:ILE:HB	1.99	0.44
4:EA:93:ALA:HB3	4:FA:116:ASP:OD2	2.17	0.44
2:BC:11:VAL:O	2:BC:15:MET:HG2	2.17	0.44
2:BC:127:PRO:HB2	2:BC:160:ARG:NE	2.31	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:301:VAL:C	3:CC:321:ILE:HG12	2.41	0.44
3:CE:108:LYS:O	3:CE:175:LEU:HB2	2.17	0.44
3:CG:179:TYR:OH	3:CG:182:SER:OG	2.25	0.44
2:BH:113:MET:SD	2:BH:118:ALA:HB2	2.57	0.44
4:FH:100:LEU:HA	4:FH:105:LEU:HA	2.00	0.44
4:EI:117:LYS:HA	4:EI:117:LYS:HD2	1.71	0.44
2:BJ:103:THR:OG1	2:BJ:105:SER:O	2.29	0.44
3:CJ:271:ARG:NH2	4:DJ:59:ASP:HB2	2.33	0.44
2:BK:116:GLN:HA	2:BK:148:LEU:HD13	1.97	0.44
1:AO:532:MET:O	1:AO:536:ILE:HG12	2.17	0.44
3:CO:53:ALA:HB1	3:CO:172:ILE:HD13	1.99	0.44
2:BP:62:GLU:O	2:BP:65:GLN:HG3	2.17	0.44
2:BP:93:LEU:O	2:BP:97:ILE:HG12	2.17	0.44
2:BP:125:GLU:HA	3:CP:147:THR:HG21	1.97	0.44
2:BP:136:HIS:NE2	2:BQ:193:MET:HE2	2.32	0.44
3:CQ:293:ILE:HD12	3:CQ:302:LEU:O	2.17	0.44
1:AR:548:ALA:HA	2:BR:25:VAL:HG13	1.99	0.44
2:BR:166:GLY:HA3	2:BS:190:ARG:HG2	1.98	0.44
3:CR:234:PRO:O	3:CR:236:LEU:N	2.44	0.44
3:CS:42:THR:HG22	3:CS:44:ARG:HG3	1.99	0.44
3:CS:183:GLU:O	3:CS:184:MET:HE2	2.17	0.44
3:CS:239:SER:HB3	3:CS:243:ASP:CG	2.42	0.44
1:AT:547:VAL:HG13	2:BT:25:VAL:HG22	1.99	0.44
2:BT:143:ALA:HB1	2:BU:206:MET:HG3	1.98	0.44
2:BT:253:GLU:OE1	2:BT:314:ARG:NH2	2.49	0.44
3:CU:239:SER:HB3	3:CU:243:ASP:CG	2.42	0.44
3:CU:249:ASN:O	3:CU:253:GLN:HG3	2.17	0.44
4:EU:93:ALA:HB3	4:FU:116:ASP:OD1	2.17	0.44
2:BV:159:LEU:HB3	3:CV:137:PHE:CE2	2.52	0.44
2:BV:251:LEU:HA	2:BV:254:VAL:HG12	1.98	0.44
3:CV:42:THR:HG22	3:CV:44:ARG:HG3	1.99	0.44
3:CV:89:TYR:HD2	3:CV:195:PRO:HA	1.82	0.44
4:EV:76:LYS:NZ	4:FV:59:ASP:HA	2.32	0.44
2:BX:101:ARG:N	2:BX:101:ARG:HD3	2.32	0.44
2:BX:210:GLN:O	2:BX:214:VAL:HG23	2.17	0.44
1:AY:552:ARG:HA	1:AY:555:MET:HE3	1.97	0.44
2:BY:171:ALA:HB1	3:CY:131:PHE:CE1	2.53	0.44
3:CY:239:SER:HB3	3:CY:243:ASP:CG	2.42	0.44
3:C1:271:ARG:NH2	4:D1:59:ASP:HB2	2.32	0.44
2:B2:242:VAL:O	2:B2:243:ASP:OD1	2.35	0.44
2:B2:245:ARG:NH2	2:B2:321:MET:HB3	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:251:LEU:HA	2:B2:254:VAL:HG12	1.97	0.44
2:B4:103:THR:OG1	2:B4:105:SER:O	2.30	0.44
4:D4:73:MET:HE1	4:D4:78:LEU:HA	2.00	0.44
2:B5:212:GLU:HA	2:B5:215:ILE:HG12	1.99	0.44
3:C5:271:ARG:HH21	4:D5:59:ASP:HB2	1.83	0.44
4:F5:76:LYS:O	4:F5:79:LEU:HG	2.18	0.44
2:B6:242:VAL:O	2:B6:243:ASP:OD1	2.36	0.44
3:C6:271:ARG:NH2	4:D6:59:ASP:HB2	2.32	0.44
3:C7:53:ALA:HB1	3:C7:172:ILE:HD13	1.99	0.44
3:C7:107:LEU:HD11	3:C7:219:LEU:HD22	1.99	0.44
4:E7:114:VAL:O	4:E7:117:LYS:HB2	2.18	0.44
4:E7:117:LYS:HD2	4:E7:117:LYS:HA	1.71	0.44
2:B8:13:LEU:HD13	2:B8:59:PHE:CD1	2.52	0.44
2:B8:17:ILE:O	2:B8:21:ARG:HD2	2.17	0.44
2:B8:93:LEU:O	2:B8:97:ILE:HG12	2.17	0.44
2:B8:96:ASP:O	2:B8:100:THR:HG23	2.17	0.44
4:F8:100:LEU:HA	4:F8:105:LEU:HA	1.99	0.44
2:BA:13:LEU:HD13	2:BA:59:PHE:CD1	2.52	0.44
4:EC:114:VAL:O	4:EC:117:LYS:HB2	2.18	0.44
2:BD:93:LEU:O	2:BD:97:ILE:HG12	2.17	0.44
4:FE:76:LYS:O	4:FE:79:LEU:HG	2.16	0.44
3:CF:108:LYS:O	3:CF:175:LEU:HB2	2.17	0.44
3:CF:239:SER:HB3	3:CF:243:ASP:CG	2.42	0.44
1:AG:548:ALA:HA	2:BG:25:VAL:HG13	1.98	0.44
2:BH:1:MET:HA	2:BH:51:GLN:HE22	1.82	0.44
2:BI:158:MET:HE1	2:BJ:218:VAL:HG21	2.00	0.44
3:CJ:239:SER:HB3	3:CJ:243:ASP:CG	2.42	0.44
2:BK:62:GLU:O	2:BK:65:GLN:HG3	2.17	0.44
2:BM:161:ILE:HG22	2:BN:199:ALA:HB2	1.97	0.44
3:CM:107:LEU:HD11	3:CM:219:LEU:HD22	1.98	0.44
3:CN:246:TRP:HZ2	4:FO:122:ILE:HD12	1.82	0.44
3:CO:271:ARG:NH2	4:DO:59:ASP:HB2	2.33	0.44
4:FO:76:LYS:O	4:FO:79:LEU:HG	2.17	0.44
2:BP:253:GLU:HG3	2:BP:315:LEU:HD11	1.99	0.44
4:EP:73:MET:HB3	4:FP:64:LEU:HD23	1.99	0.44
2:BQ:274:PHE:CE2	2:BQ:278:MET:HE1	2.53	0.44
2:BR:98:LEU:HA	2:BR:101:ARG:HH11	1.82	0.44
4:ER:117:LYS:HD2	4:ER:117:LYS:HA	1.71	0.44
2:BT:251:LEU:HA	2:BT:254:VAL:HG12	1.98	0.44
3:CT:271:ARG:HH21	4:DT:59:ASP:HB2	1.82	0.44
3:CU:272:LEU:HB2	4:DU:60:ILE:HB	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:239:SER:HB3	3:CX:243:ASP:CG	2.43	0.44
2:BY:174:GLU:OE2	3:CY:149:THR:HA	2.17	0.44
1:A1:547:VAL:HG13	2:B1:25:VAL:HG22	1.98	0.44
4:E1:114:VAL:O	4:E1:117:LYS:HB2	2.17	0.44
3:C2:271:ARG:HH21	4:D2:59:ASP:HB2	1.81	0.44
4:D2:64:LEU:HD13	4:D2:101:ILE:HB	2.00	0.44
4:E2:76:LYS:NZ	4:F2:59:ASP:HA	2.32	0.44
1:A4:532:MET:O	1:A4:536:ILE:HG12	2.17	0.44
2:B4:242:VAL:O	2:B4:243:ASP:OD1	2.36	0.44
3:C4:42:THR:HG22	3:C4:44:ARG:HG3	1.99	0.44
2:B5:48:SER:HB3	2:B6:66:PHE:CD1	2.52	0.44
3:C6:238:ASN:ND2	3:C7:112:GLY:HA2	2.32	0.44
1:A7:522:ARG:HD3	2:B8:64:GLU:HG3	1.99	0.44
3:C7:302:LEU:HD13	3:C7:317:VAL:HG13	2.00	0.44
2:B8:113:MET:SD	2:B8:118:ALA:HB2	2.57	0.44
3:C8:239:SER:HB3	3:C8:243:ASP:CG	2.42	0.44
2:BA:245:ARG:NH2	2:BA:321:MET:HB3	2.30	0.44
2:BD:43:ASN:O	2:BD:45:ARG:NH1	2.48	0.44
2:BE:81:LEU:HD12	2:BE:94:LEU:HG	1.98	0.44
2:BE:135:VAL:HG11	2:BF:194:GLY:HA3	1.98	0.44
4:EE:76:LYS:NZ	4:FE:59:ASP:HA	2.33	0.44
4:FF:134:ARG:HA	4:FF:137:ARG:NH1	2.32	0.44
2:BG:96:ASP:O	2:BG:100:THR:HG23	2.16	0.44
3:CG:89:TYR:HD2	3:CG:195:PRO:HA	1.83	0.44
4:EG:131:ARG:HA	4:EG:134:ARG:HH11	1.81	0.44
3:CI:89:TYR:HD2	3:CI:195:PRO:HA	1.83	0.44
3:CJ:107:LEU:HD11	3:CJ:219:LEU:HD22	1.99	0.44
3:CJ:125:ILE:HG12	3:CJ:211:LEU:HD13	1.98	0.44
4:FJ:132:MET:HE2	4:FJ:136:SER:HB3	2.00	0.44
4:FK:76:LYS:O	4:FK:79:LEU:HG	2.17	0.44
2:BL:84:ALA:HB3	2:BL:85:LEU:HD12	1.99	0.44
3:CL:89:TYR:HD2	3:CL:195:PRO:HA	1.82	0.44
4:FL:133:ARG:HH12	4:FL:137:ARG:NH1	2.14	0.44
1:AM:532:MET:O	1:AM:536:ILE:HG12	2.17	0.44
3:CM:272:LEU:HB2	4:DM:60:ILE:HB	2.00	0.44
4:FN:70:ARG:HH21	4:FN:137:ARG:HH22	1.63	0.44
2:BO:17:ILE:O	2:BO:21:ARG:HD2	2.17	0.44
2:BO:246:SER:O	2:BO:250:LEU:HD23	2.17	0.44
2:BQ:139:ARG:HH12	2:BR:198:THR:HA	1.82	0.44
3:CQ:274:GLN:O	3:CQ:278:LEU:HB2	2.18	0.44
3:CR:247:ARG:CZ	4:ES:79:LEU:HB3	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DS:104:TYR:HB3	4:DS:131:ARG:NH2	2.31	0.44
3:CU:293:ILE:HD12	3:CU:302:LEU:O	2.17	0.44
4:EU:106:ILE:HD12	4:EU:125:ILE:HD11	1.99	0.44
4:FV:106:ILE:O	4:FV:126:ILE:HG12	2.18	0.44
2:BW:253:GLU:OE1	2:BW:314:ARG:NH2	2.50	0.44
3:CW:183:GLU:O	3:CW:184:MET:HE2	2.18	0.44
3:CW:271:ARG:NH2	4:DW:59:ASP:HB2	2.32	0.44
2:BY:93:LEU:O	2:BY:97:ILE:HG12	2.16	0.44
2:BY:159:LEU:HB3	3:CY:137:PHE:CE2	2.52	0.44
3:CY:42:THR:HG22	3:CY:44:ARG:HG3	2.00	0.44
2:B1:242:VAL:O	2:B1:243:ASP:OD1	2.36	0.44
2:B3:46:GLN:HG2	1:A4:549:LEU:HD13	1.99	0.44
3:C3:183:GLU:O	3:C3:184:MET:HE2	2.18	0.44
4:F3:100:LEU:HA	4:F3:105:LEU:HA	1.99	0.44
2:B5:62:GLU:O	2:B5:65:GLN:HG3	2.16	0.44
2:B5:171:ALA:HB1	3:C5:131:PHE:CE1	2.53	0.44
3:C5:251:VAL:O	3:C5:255:GLN:HG3	2.17	0.44
4:E6:58:MET:HG2	4:F6:75:ILE:HD11	1.99	0.44
2:B8:207:LYS:HG3	2:B8:209:GLN:H	1.82	0.44
2:B8:246:SER:O	2:B8:250:LEU:HD23	2.16	0.44
2:B8:308:ILE:O	2:B8:312:VAL:HG23	2.18	0.44
4:E8:58:MET:SD	4:F8:75:ILE:HG13	2.57	0.44
3:C9:271:ARG:NH2	4:D9:59:ASP:HB2	2.32	0.44
3:C9:274:GLN:O	3:C9:278:LEU:HB2	2.16	0.44
3:CA:271:ARG:NH2	4:DA:59:ASP:HB2	2.32	0.44
3:CA:302:LEU:HD13	3:CA:317:VAL:HG13	2.00	0.44
2:BB:196:VAL:C	2:BB:198:THR:H	2.26	0.44
4:EB:114:VAL:O	4:EB:117:LYS:HB2	2.18	0.44
2:BE:161:ILE:HG22	2:BF:199:ALA:HB2	1.99	0.44
4:DF:102:ASN:ND2	4:EF:61:PRO:O	2.42	0.44
2:BG:93:LEU:O	2:BG:97:ILE:HG12	2.16	0.44
3:CG:146:PHE:HA	3:CG:150:GLU:OE1	2.17	0.44
4:FG:77:GLU:O	4:FG:81:LEU:HG	2.18	0.44
2:BH:10:SER:O	2:BH:14:LEU:HD23	2.16	0.44
2:BK:21:ARG:O	2:BK:25:VAL:HG23	2.16	0.44
4:EK:75:ILE:O	4:EK:79:LEU:HG	2.17	0.44
4:FK:134:ARG:HA	4:FK:137:ARG:HH12	1.82	0.44
2:BL:212:GLU:HA	2:BL:215:ILE:HG12	1.99	0.44
3:CL:153:VAL:HG12	3:CL:157:MET:HE2	2.00	0.44
3:CL:223:MET:HA	3:CL:223:MET:HE3	1.98	0.44
2:BM:17:ILE:O	2:BM:21:ARG:HD2	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:166:GLY:O	3:CM:132:GLY:HA2	2.17	0.44
2:BN:229:ILE:O	2:BN:233:MET:HG2	2.18	0.44
1:AO:555:MET:HE1	2:BO:29:LEU:HD22	1.99	0.44
2:BO:43:ASN:HB3	2:BP:101:ARG:NH2	2.32	0.44
2:BP:159:LEU:HB3	3:CP:137:PHE:CE2	2.52	0.44
3:CP:125:ILE:HG12	3:CP:211:LEU:HD13	1.99	0.44
2:BQ:171:ALA:HB1	3:CQ:131:PHE:CE1	2.53	0.44
2:BR:253:GLU:HG3	2:BR:315:LEU:HD11	1.99	0.44
3:CR:183:GLU:O	3:CR:184:MET:HE2	2.17	0.44
3:CS:234:PRO:O	3:CS:236:LEU:N	2.46	0.44
3:CS:272:LEU:HB2	4:DS:60:ILE:HB	2.00	0.44
1:AU:547:VAL:HG13	2:BU:25:VAL:HG22	1.98	0.44
2:BU:166:GLY:O	2:BV:190:ARG:NE	2.32	0.44
2:BU:212:GLU:HA	2:BU:215:ILE:HG12	1.99	0.44
3:CV:107:LEU:HD11	3:CV:219:LEU:HD22	2.00	0.44
3:CW:42:THR:HG22	3:CW:44:ARG:HG3	1.98	0.44
3:CY:53:ALA:HB1	3:CY:172:ILE:HD13	1.99	0.44
2:B1:239:LEU:HD23	2:B1:239:LEU:HA	1.85	0.44
3:C2:108:LYS:O	3:C2:175:LEU:HB2	2.17	0.44
3:C2:239:SER:HB3	3:C2:243:ASP:CG	2.42	0.44
3:C3:260:GLU:HA	4:D3:72:ARG:NH2	2.33	0.44
1:A4:555:MET:HE1	2:B4:29:LEU:HD22	2.00	0.44
3:C4:302:LEU:HD13	3:C4:317:VAL:HG13	2.00	0.44
4:E4:76:LYS:NZ	4:F4:59:ASP:HA	2.32	0.44
1:A6:540:SER:OG	2:B6:21:ARG:HD3	2.17	0.44
2:B6:46:GLN:CD	2:B7:70:ASN:HD22	2.26	0.44
2:B6:212:GLU:HA	2:B6:215:ILE:HG12	1.99	0.44
3:C6:253:GLN:HG3	4:F7:125:ILE:HD11	2.00	0.44
2:B7:13:LEU:HD13	2:B7:59:PHE:CD1	2.53	0.44
4:D7:130:GLU:HG3	4:D7:134:ARG:HD2	1.99	0.44
2:B8:26:PHE:HD1	2:B8:29:LEU:HD12	1.82	0.44
2:B8:78:ARG:HA	2:B8:94:LEU:HD11	1.99	0.44
3:C8:53:ALA:HB1	3:C8:172:ILE:HD13	1.99	0.44
4:E8:114:VAL:O	4:E8:117:LYS:HB2	2.18	0.44
1:A9:532:MET:HE1	2:B9:56:LEU:HD22	2.00	0.44
3:C9:293:ILE:HD12	3:C9:302:LEU:O	2.17	0.44
4:DA:129:SER:O	4:DA:133:ARG:HD3	2.18	0.44
2:BB:245:ARG:NH2	2:BB:321:MET:HB3	2.32	0.44
3:CB:42:THR:HG22	3:CB:44:ARG:HG3	1.99	0.44
2:BC:139:ARG:CD	2:BD:201:GLU:HG3	2.48	0.44
4:EC:59:ASP:HA	4:FC:76:LYS:HZ1	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:234:PRO:O	3:CE:236:LEU:N	2.46	0.44
2:BF:113:MET:SD	2:BF:118:ALA:HB2	2.57	0.44
3:CF:271:ARG:NH2	4:DF:59:ASP:HB2	2.32	0.44
1:AG:540:SER:OG	2:BG:21:ARG:HD3	2.16	0.44
2:BG:212:GLU:HA	2:BG:215:ILE:HG12	1.98	0.44
3:CG:258:GLU:HA	4:DG:74:THR:HA	1.99	0.44
3:CH:271:ARG:NH2	4:DH:59:ASP:HB2	2.33	0.44
2:BK:135:VAL:HG11	2:BL:194:GLY:HA3	1.98	0.44
2:BK:273:LYS:HA	2:BK:276:ARG:NH1	2.33	0.44
2:BN:212:GLU:HA	2:BN:215:ILE:HG12	1.99	0.44
3:CN:260:GLU:HA	4:DN:72:ARG:HH22	1.82	0.44
2:BO:209:GLN:HA	2:BO:212:GLU:CD	2.43	0.44
3:CO:42:THR:HG22	3:CO:44:ARG:HG3	2.00	0.44
3:CO:274:GLN:O	3:CO:278:LEU:HB2	2.18	0.44
1:AP:549:LEU:HA	1:AP:552:ARG:HB2	1.98	0.44
2:BP:38:SER:HB3	2:BQ:97:ILE:HD11	1.98	0.44
3:CQ:259:LEU:HD21	4:FR:60:ILE:HG21	2.00	0.44
2:BS:251:LEU:HD13	2:BS:278:MET:HE3	1.99	0.44
2:BS:273:LYS:HA	2:BS:276:ARG:NH1	2.33	0.44
3:CS:259:LEU:HD21	4:FT:60:ILE:HG21	1.99	0.44
4:ET:75:ILE:HB	4:ET:76:LYS:NZ	2.33	0.44
1:AU:540:SER:OG	2:BU:21:ARG:HD3	2.17	0.44
2:BV:13:LEU:HD13	2:BV:59:PHE:CD1	2.53	0.44
2:BV:171:ALA:HB1	3:CV:131:PHE:CE1	2.52	0.44
4:DW:130:GLU:HG3	4:DW:134:ARG:HD2	1.99	0.44
2:BX:37:LEU:O	2:BX:41:MET:HG2	2.18	0.44
2:BX:273:LYS:HA	2:BX:276:ARG:NH1	2.32	0.44
3:CX:260:GLU:HA	4:DX:72:ARG:NH2	2.33	0.44
3:CY:70:PHE:HA	3:CY:75:ARG:O	2.18	0.44
2:B1:166:GLY:O	2:B2:190:ARG:NE	2.29	0.44
1:A2:532:MET:O	1:A2:536:ILE:HG12	2.18	0.44
4:E2:114:VAL:O	4:E2:117:LYS:HB2	2.18	0.44
2:B3:212:GLU:HA	2:B3:215:ILE:HG12	2.00	0.44
3:C3:89:TYR:HD2	3:C3:195:PRO:HA	1.82	0.44
3:C4:239:SER:HB3	3:C4:243:ASP:CG	2.42	0.44
4:E4:73:MET:HE1	4:E4:78:LEU:HD23	1.99	0.44
1:A5:532:MET:O	1:A5:536:ILE:HG12	2.17	0.44
2:B6:159:LEU:HB3	3:C6:137:PHE:CE2	2.52	0.44
2:B6:171:ALA:HB1	3:C6:131:PHE:CE1	2.53	0.44
4:E6:58:MET:SD	4:F6:76:LYS:NZ	2.83	0.44
4:E6:114:VAL:O	4:E6:117:LYS:HB2	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:271:ARG:NH2	4:D7:59:ASP:HB2	2.33	0.44
3:C8:301:VAL:C	3:C8:321:ILE:HG12	2.42	0.44
2:B9:56:LEU:HD12	2:B9:57:SER:N	2.33	0.44
3:C9:183:GLU:O	3:C9:184:MET:HE2	2.18	0.44
3:C9:239:SER:HB3	3:C9:243:ASP:CG	2.42	0.44
3:C9:271:ARG:HH21	4:D9:59:ASP:HB2	1.81	0.44
3:CA:183:GLU:O	3:CA:184:MET:HE2	2.18	0.44
3:CA:299:VAL:HG22	4:FA:132:MET:HE2	2.00	0.44
2:BB:212:GLU:HA	2:BB:215:ILE:HG12	1.98	0.44
3:CB:258:GLU:HA	4:DB:74:THR:HA	1.99	0.44
2:BC:10:SER:HA	2:BC:13:LEU:HD12	1.99	0.44
3:CC:299:VAL:HG21	4:FD:61:PRO:CD	2.47	0.44
4:EC:75:ILE:O	4:EC:79:LEU:HG	2.17	0.44
4:ED:117:LYS:HD2	4:ED:117:LYS:HA	1.71	0.44
2:BE:13:LEU:HD13	2:BE:59:PHE:CD1	2.53	0.44
1:AF:522:ARG:HD3	2:BG:64:GLU:HG3	1.99	0.44
1:AH:551:ILE:HG13	1:AH:555:MET:HE2	1.99	0.44
1:AH:552:ARG:HA	1:AH:555:MET:HE3	1.99	0.44
2:BH:93:LEU:O	2:BH:97:ILE:HG12	2.16	0.44
4:EH:106:ILE:HD12	4:EH:125:ILE:HD11	1.99	0.44
4:FH:134:ARG:HA	4:FH:137:ARG:NH1	2.33	0.44
3:CI:271:ARG:NH2	4:DI:59:ASP:HB2	2.33	0.44
4:EJ:121:ARG:NH1	4:FJ:86:VAL:HA	2.31	0.44
2:BK:46:GLN:CD	2:BL:70:ASN:HD22	2.25	0.44
2:BK:72:ASN:HB3	2:BK:76:TYR:HB2	1.99	0.44
2:BK:157:VAL:O	2:BK:161:ILE:HG12	2.18	0.44
3:CK:302:LEU:HD13	3:CK:317:VAL:HG13	1.99	0.44
2:BL:113:MET:SD	2:BL:118:ALA:HB2	2.57	0.44
3:CM:125:ILE:HG12	3:CM:211:LEU:HD13	1.98	0.44
4:DM:129:SER:O	4:DM:133:ARG:HD3	2.17	0.44
4:FM:100:LEU:HA	4:FM:105:LEU:HA	2.00	0.44
2:BN:207:LYS:HG3	2:BN:209:GLN:H	1.83	0.44
3:CN:293:ILE:HD12	3:CN:302:LEU:O	2.17	0.44
2:BO:174:GLU:OE2	3:CO:149:THR:HA	2.17	0.44
4:EP:74:THR:O	4:EP:78:LEU:HG	2.17	0.44
4:FP:105:LEU:HD22	4:FP:126:ILE:HD13	2.00	0.44
2:BQ:143:ALA:HA	2:BR:206:MET:HE2	2.00	0.44
4:EQ:75:ILE:HG13	4:FQ:58:MET:HG2	1.99	0.44
4:FQ:100:LEU:HA	4:FQ:105:LEU:HA	1.99	0.44
4:DR:102:ASN:ND2	4:ER:61:PRO:O	2.42	0.44
3:CS:260:GLU:HA	4:DS:72:ARG:HH22	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ET:58:MET:SD	4:FT:75:ILE:HG13	2.58	0.44
3:CW:260:GLU:HA	4:DW:72:ARG:HH22	1.83	0.44
4:DW:73:MET:HE1	4:DW:78:LEU:HA	2.00	0.44
4:EW:76:LYS:NZ	4:FW:59:ASP:HA	2.32	0.44
3:CX:179:TYR:OH	3:CX:182:SER:OG	2.25	0.44
4:FX:133:ARG:HH12	4:FX:137:ARG:HH11	1.65	0.44
3:CY:271:ARG:NH2	4:DY:59:ASP:HB2	2.32	0.44
4:DY:67:GLU:HG3	4:DY:98:ASP:HB3	1.99	0.44
3:C1:239:SER:HB3	3:C1:243:ASP:CG	2.42	0.44
3:C1:258:GLU:HA	4:D1:74:THR:HA	2.00	0.44
4:F1:60:ILE:HG21	3:CY:259:LEU:HD21	1.99	0.44
3:C2:107:LEU:HD11	3:C2:219:LEU:HD22	1.99	0.44
4:D2:104:TYR:HB3	4:D2:131:ARG:NH2	2.33	0.44
4:D3:101:ILE:HD13	4:E3:60:ILE:HD13	1.99	0.44
2:B7:146:LEU:O	2:B7:154:ARG:NE	2.50	0.44
3:C8:42:THR:HG22	3:C8:44:ARG:HG3	1.99	0.44
2:B9:171:ALA:HB1	3:C9:131:PHE:CE1	2.53	0.44
3:CA:107:LEU:HD11	3:CA:219:LEU:HD22	2.00	0.44
3:CA:246:TRP:HZ2	4:FB:122:ILE:HD12	1.83	0.44
3:CA:301:VAL:C	3:CA:321:ILE:HG12	2.43	0.44
2:BB:26:PHE:HA	2:BB:29:LEU:HD12	1.99	0.44
2:BB:43:ASN:O	2:BB:45:ARG:NH1	2.49	0.44
3:CB:293:ILE:HD12	3:CB:302:LEU:O	2.18	0.44
4:FB:100:LEU:HA	4:FB:105:LEU:HA	2.00	0.44
2:BC:15:MET:HE3	2:BC:41:MET:SD	2.58	0.44
2:BC:96:ASP:O	2:BC:100:THR:HG23	2.18	0.44
3:CC:229:GLU:HG2	3:CC:230:LEU:N	2.33	0.44
4:DC:130:GLU:HG3	4:DC:134:ARG:HD2	1.99	0.44
1:AD:555:MET:HE1	2:BD:29:LEU:HD22	1.99	0.44
4:ED:114:VAL:O	4:ED:117:LYS:HB2	2.18	0.44
3:CF:301:VAL:C	3:CF:321:ILE:HG12	2.43	0.44
2:BH:245:ARG:NH1	2:BH:249:ARG:HB2	2.32	0.44
4:FH:133:ARG:HH12	4:FH:137:ARG:NH1	2.16	0.44
3:CI:260:GLU:HA	4:DI:72:ARG:NH2	2.33	0.44
3:CJ:89:TYR:HD2	3:CJ:195:PRO:HA	1.82	0.44
4:DJ:73:MET:HE1	4:DJ:78:LEU:HA	1.99	0.44
2:BK:171:ALA:HB1	3:CK:131:PHE:CE1	2.53	0.44
4:FK:96:PRO:HB2	4:FK:108:GLN:HB3	1.99	0.44
3:CL:271:ARG:NH2	4:DL:59:ASP:HB2	2.32	0.44
2:BM:43:ASN:O	2:BM:45:ARG:NH1	2.49	0.44
2:BM:110:LEU:HA	2:BM:113:MET:HG3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:42:THR:HG22	3:CM:44:ARG:HG3	1.99	0.44
3:CM:246:TRP:HZ2	4:FN:122:ILE:HD12	1.82	0.44
2:BN:246:SER:O	2:BN:250:LEU:HD23	2.17	0.44
3:CN:260:GLU:HA	4:DN:72:ARG:NH2	2.33	0.44
2:BQ:46:GLN:CD	2:BR:70:ASN:HD22	2.25	0.44
2:BQ:247:ILE:HD11	2:BQ:273:LYS:HG3	1.99	0.44
4:DT:129:SER:O	4:DT:133:ARG:HD3	2.18	0.44
2:BU:308:ILE:O	2:BU:312:VAL:HG23	2.17	0.44
3:CU:247:ARG:CZ	4:EV:79:LEU:HB3	2.48	0.44
3:CU:251:VAL:O	3:CU:255:GLN:HG3	2.18	0.44
4:FV:134:ARG:HA	4:FV:137:ARG:NH1	2.33	0.44
2:BY:224:GLU:OE2	2:BY:228:LYS:HE3	2.18	0.44
4:EY:76:LYS:NZ	4:FY:59:ASP:HA	2.33	0.44
2:B2:139:ARG:HG2	2:B3:201:GLU:OE1	2.17	0.44
2:B2:171:ALA:HB1	3:C2:131:PHE:CE1	2.53	0.44
2:B2:203:ILE:HG22	2:B2:211:GLU:HB2	2.00	0.44
3:C2:183:GLU:O	3:C2:184:MET:HE2	2.17	0.44
3:C2:259:LEU:HD21	4:F3:60:ILE:HG21	2.00	0.44
3:C2:302:LEU:HD13	3:C2:317:VAL:HG13	2.00	0.44
2:B3:13:LEU:HD13	2:B3:59:PHE:CD1	2.53	0.44
2:B3:72:ASN:O	2:B3:76:TYR:HB2	2.17	0.44
3:C3:302:LEU:HD13	3:C3:317:VAL:HG13	2.00	0.44
4:D3:73:MET:HE1	4:D3:78:LEU:HA	2.00	0.44
2:B4:139:ARG:HG3	2:B5:205:LEU:CD1	2.48	0.44
3:C4:183:GLU:O	3:C4:184:MET:HE2	2.18	0.44
2:B5:26:PHE:CE2	2:B6:84:ALA:HB1	2.53	0.44
3:C5:234:PRO:O	3:C5:236:LEU:N	2.47	0.44
2:B6:93:LEU:O	2:B6:97:ILE:HG12	2.18	0.44
3:C6:246:TRP:HZ2	4:F7:122:ILE:HD12	1.83	0.44
3:C7:42:THR:HG22	3:C7:44:ARG:HG3	2.00	0.44
3:C9:118:PHE:CD2	3:C9:157:MET:HE3	2.52	0.44
2:BC:166:GLY:O	3:CC:132:GLY:HA2	2.18	0.44
4:EC:118:TYR:CG	4:FC:68:LEU:HD21	2.53	0.44
2:BE:17:ILE:O	2:BE:21:ARG:HD2	2.17	0.44
3:CE:253:GLN:HG3	4:FF:125:ILE:HD11	2.00	0.44
2:BF:43:ASN:O	2:BF:45:ARG:NH1	2.50	0.44
3:CF:183:GLU:O	3:CF:184:MET:HE2	2.17	0.44
2:BG:81:LEU:HD13	2:BG:93:LEU:HB2	1.99	0.44
2:BG:98:LEU:HA	2:BG:101:ARG:NH2	2.33	0.44
4:DG:73:MET:HE1	4:DG:78:LEU:HA	2.00	0.44
2:BH:212:GLU:HA	2:BH:215:ILE:HG12	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:246:TRP:HZ2	4:FI:122:ILE:HD12	1.83	0.44
3:CI:42:THR:HG22	3:CI:44:ARG:HG3	1.99	0.44
1:AJ:532:MET:O	1:AJ:536:ILE:HG12	2.17	0.44
2:BL:171:ALA:HB1	3:CL:131:PHE:CE1	2.53	0.44
3:CL:64:GLN:O	3:CL:67:MET:HG3	2.18	0.44
3:CL:293:ILE:HD12	3:CL:302:LEU:O	2.17	0.44
4:DL:104:TYR:HB3	4:DL:131:ARG:NH2	2.33	0.44
2:BM:171:ALA:HB1	3:CM:131:PHE:CE1	2.53	0.44
2:BN:93:LEU:O	2:BN:97:ILE:HG12	2.17	0.44
3:CN:239:SER:HB3	3:CN:243:ASP:CG	2.42	0.44
4:DO:104:TYR:CD2	4:EO:61:PRO:HG3	2.53	0.44
2:BP:246:SER:O	2:BP:250:LEU:HD23	2.17	0.44
4:DQ:68:LEU:HA	4:DQ:97:LEU:HD23	2.00	0.44
1:AR:547:VAL:HG23	2:BR:59:PHE:CZ	2.44	0.44
2:BS:96:ASP:O	2:BS:100:THR:HG23	2.18	0.44
3:CS:271:ARG:HH21	4:DS:59:ASP:HB2	1.81	0.44
1:AU:552:ARG:HA	1:AU:555:MET:HE3	1.99	0.44
2:BU:273:LYS:HA	2:BU:276:ARG:NH1	2.33	0.44
1:AV:536:ILE:HA	1:AV:539:MET:HE3	1.99	0.44
2:BV:273:LYS:HA	2:BV:276:ARG:NH1	2.32	0.44
3:CV:271:ARG:NH2	4:DV:59:ASP:HB2	2.32	0.44
3:CW:260:GLU:HA	4:DW:72:ARG:NH2	2.32	0.44
1:AX:532:MET:O	1:AX:536:ILE:HG12	2.18	0.44
2:BY:273:LYS:HA	2:BY:276:ARG:NH1	2.33	0.44
2:B1:41:MET:CE	2:B2:77:LEU:HB2	2.48	0.44
2:B1:98:LEU:HA	2:B1:101:ARG:NH2	2.33	0.44
4:D3:130:GLU:HG3	4:D3:134:ARG:HD2	2.00	0.44
2:B5:209:GLN:HA	2:B5:212:GLU:CD	2.43	0.44
3:C5:247:ARG:CZ	4:E6:79:LEU:HB3	2.47	0.44
1:A6:532:MET:O	1:A6:536:ILE:HG12	2.18	0.44
4:E6:71:THR:HA	4:E6:90:ASP:OD2	2.18	0.44
4:E6:76:LYS:HE2	4:F6:59:ASP:HA	1.99	0.44
2:B8:158:MET:SD	2:B8:158:MET:C	3.01	0.44
4:E8:130:GLU:OE1	4:E8:130:GLU:N	2.49	0.44
1:A9:540:SER:OG	2:B9:21:ARG:HD3	2.18	0.44
1:A9:549:LEU:HA	1:A9:552:ARG:HB2	1.99	0.44
3:C9:258:GLU:HA	4:D9:74:THR:HA	2.00	0.44
4:D9:102:ASN:ND2	4:E9:61:PRO:O	2.40	0.44
4:E9:76:LYS:NZ	4:F9:59:ASP:HA	2.33	0.44
2:BA:246:SER:O	2:BA:250:LEU:HD23	2.17	0.44
4:DA:106:ILE:HD13	4:EA:60:ILE:HD11	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:549:LEU:HA	1:AB:552:ARG:HB2	1.99	0.44
3:CB:301:VAL:C	3:CB:321:ILE:HG12	2.43	0.44
4:EB:74:THR:O	4:EB:78:LEU:HG	2.18	0.44
3:CC:293:ILE:HD12	3:CC:302:LEU:O	2.18	0.44
2:BE:125:GLU:HA	3:CE:147:THR:HG21	2.00	0.44
3:CE:260:GLU:HA	4:DE:72:ARG:NH2	2.32	0.44
3:CF:70:PHE:HA	3:CF:75:ARG:O	2.18	0.44
3:CF:279:LYS:HA	3:CF:279:LYS:HD3	1.83	0.44
3:CG:183:GLU:O	3:CG:184:MET:HE2	2.18	0.44
2:BH:98:LEU:HA	2:BH:101:ARG:NH2	2.32	0.44
4:EH:114:VAL:O	4:EH:117:LYS:HB2	2.18	0.44
1:AI:532:MET:O	1:AI:536:ILE:HG12	2.17	0.44
1:AI:540:SER:OG	2:BI:21:ARG:HD3	2.18	0.44
2:BI:46:GLN:HE22	2:BJ:67:ALA:HA	1.83	0.44
2:BI:171:ALA:HB1	3:CI:131:PHE:CE1	2.53	0.44
2:BI:250:LEU:O	2:BI:254:VAL:HG12	2.18	0.44
3:CI:183:GLU:O	3:CI:184:MET:HE2	2.17	0.44
3:CI:234:PRO:O	3:CI:236:LEU:N	2.46	0.44
4:EI:114:VAL:O	4:EI:117:LYS:HB2	2.18	0.44
3:CJ:260:GLU:HA	4:DJ:72:ARG:NH2	2.32	0.44
4:EJ:75:ILE:O	4:EJ:79:LEU:HG	2.17	0.44
2:BK:96:ASP:O	2:BK:100:THR:HG23	2.18	0.44
3:CK:260:GLU:HA	4:DK:72:ARG:NH2	2.33	0.44
4:EK:114:VAL:O	4:EK:117:LYS:HB2	2.18	0.44
2:BL:11:VAL:O	2:BL:15:MET:HG2	2.18	0.44
2:BL:207:LYS:HG3	2:BL:209:GLN:H	1.82	0.44
3:CM:302:LEU:HD13	3:CM:317:VAL:HG13	1.99	0.44
4:FM:76:LYS:O	4:FM:79:LEU:HG	2.17	0.44
1:AN:532:MET:O	1:AN:536:ILE:HG12	2.17	0.44
4:EN:75:ILE:HG12	4:FN:60:ILE:O	2.18	0.44
3:CO:229:GLU:HG2	3:CO:230:LEU:N	2.33	0.44
2:BP:239:LEU:HD23	2:BP:239:LEU:HA	1.86	0.44
2:BQ:135:VAL:HG11	2:BR:194:GLY:HA3	2.00	0.44
4:DS:129:SER:O	4:DS:133:ARG:HD3	2.18	0.44
4:ES:74:THR:HG22	4:ES:75:ILE:N	2.33	0.44
4:ES:114:VAL:O	4:ES:117:LYS:HB2	2.17	0.44
4:ES:118:TYR:CG	4:FS:68:LEU:HD21	2.53	0.44
2:BT:174:GLU:HA	2:BT:177:GLU:HG2	2.00	0.44
2:BT:239:LEU:HD23	2:BT:239:LEU:HA	1.86	0.44
2:BU:68:ALA:O	2:BU:70:ASN:ND2	2.51	0.44
2:BV:62:GLU:O	2:BV:65:GLN:HG3	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:246:TRP:HZ2	4:FW:122:ILE:HD12	1.82	0.44
4:EV:114:VAL:O	4:EV:117:LYS:HB2	2.18	0.44
4:FV:76:LYS:O	4:FV:79:LEU:HG	2.17	0.44
1:AW:536:ILE:HA	1:AW:539:MET:HE3	2.00	0.44
3:CW:101:ASN:HB3	3:CW:118:PHE:HB2	2.00	0.44
4:DW:129:SER:O	4:DW:133:ARG:HD3	2.18	0.44
4:EW:76:LYS:HZ1	4:FW:58:MET:C	2.22	0.44
2:BX:93:LEU:O	2:BX:97:ILE:HG12	2.18	0.44
4:EX:75:ILE:HB	4:EX:76:LYS:NZ	2.33	0.44
4:DY:73:MET:HE1	4:DY:78:LEU:HA	2.00	0.44
4:DY:101:ILE:HG22	4:DY:106:ILE:HB	1.99	0.44
4:FY:76:LYS:O	4:FY:79:LEU:HG	2.17	0.44
2:B1:166:GLY:HA3	2:B2:190:ARG:HG2	1.99	0.43
4:D1:73:MET:HE1	4:D1:78:LEU:HA	2.00	0.43
2:B2:81:LEU:HD13	2:B2:93:LEU:HB2	1.99	0.43
3:C2:42:THR:HG22	3:C2:44:ARG:HG3	2.00	0.43
2:B3:166:GLY:O	3:C3:132:GLY:HA2	2.18	0.43
4:E3:114:VAL:O	4:E3:117:LYS:HB2	2.18	0.43
3:C4:153:VAL:HG12	3:C4:157:MET:HE2	2.00	0.43
3:C4:293:ILE:HD12	3:C4:302:LEU:O	2.18	0.43
2:B5:11:VAL:O	2:B5:15:MET:HG2	2.18	0.43
3:C5:70:PHE:HA	3:C5:75:ARG:O	2.19	0.43
3:C5:89:TYR:HD2	3:C5:195:PRO:HA	1.82	0.43
3:C5:239:SER:HB3	3:C5:243:ASP:CG	2.42	0.43
2:B6:207:LYS:HG3	2:B6:209:GLN:H	1.83	0.43
3:C6:229:GLU:HG2	3:C6:230:LEU:N	2.33	0.43
4:D6:64:LEU:HD13	4:D6:101:ILE:HB	2.00	0.43
1:A7:555:MET:HE1	2:B7:29:LEU:HD22	2.00	0.43
4:D7:73:MET:HE1	4:D7:78:LEU:HA	2.00	0.43
4:D7:101:ILE:HG22	4:D7:106:ILE:HB	1.99	0.43
2:B9:113:MET:SD	2:B9:118:ALA:HB2	2.57	0.43
3:C9:70:PHE:HA	3:C9:75:ARG:O	2.18	0.43
3:C9:229:GLU:HG2	3:C9:230:LEU:N	2.33	0.43
3:C9:250:LEU:HD21	4:EA:78:LEU:O	2.18	0.43
4:EA:128:PRO:HG3	4:EA:131:ARG:HH21	1.82	0.43
2:BB:103:THR:HG21	2:BB:109:THR:CG2	2.48	0.43
2:BC:209:GLN:HA	2:BC:212:GLU:CD	2.43	0.43
3:CC:42:THR:HG22	3:CC:44:ARG:HG3	1.99	0.43
3:CC:108:LYS:O	3:CC:175:LEU:HB2	2.17	0.43
4:EC:75:ILE:HA	4:EC:78:LEU:HD12	2.00	0.43
1:AE:544:PRO:HA	1:AE:547:VAL:HG12	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:555:MET:HE1	2:BE:29:LEU:HD22	1.99	0.43
3:CE:153:VAL:HG12	3:CE:157:MET:HE2	2.00	0.43
3:CF:42:THR:HG22	3:CF:44:ARG:HG3	1.98	0.43
4:FF:76:LYS:O	4:FF:79:LEU:HG	2.18	0.43
4:EG:75:ILE:HB	4:EG:76:LYS:NZ	2.33	0.43
4:EG:114:VAL:O	4:EG:117:LYS:HB2	2.18	0.43
1:AH:532:MET:O	1:AH:536:ILE:HG12	2.18	0.43
2:BH:273:LYS:HA	2:BH:276:ARG:NH1	2.33	0.43
2:BI:212:GLU:HA	2:BI:215:ILE:HG12	1.99	0.43
2:BI:242:VAL:O	2:BI:243:ASP:OD1	2.36	0.43
3:CI:258:GLU:HA	4:DI:74:THR:HA	2.00	0.43
2:BJ:113:MET:CE	2:BJ:117:SER:HB2	2.45	0.43
4:EJ:58:MET:SD	4:FJ:75:ILE:HG13	2.58	0.43
2:BK:4:LEU:HD23	2:BK:4:LEU:HA	1.90	0.43
2:BK:41:MET:HE2	2:BL:77:LEU:HD22	2.00	0.43
3:CK:301:VAL:C	3:CK:321:ILE:HG12	2.43	0.43
4:DK:99:ILE:HD12	4:DK:107:ALA:HB3	2.00	0.43
3:CL:183:GLU:O	3:CL:184:MET:HE2	2.18	0.43
4:DL:101:ILE:HG22	4:DL:106:ILE:HB	1.98	0.43
4:EL:114:VAL:O	4:EL:117:LYS:HB2	2.18	0.43
1:AM:540:SER:OG	2:BM:21:ARG:HD3	2.18	0.43
1:AO:547:VAL:HG23	2:BO:59:PHE:CZ	2.45	0.43
2:BO:196:VAL:C	2:BO:198:THR:H	2.26	0.43
4:EP:117:LYS:HD2	4:EP:117:LYS:HA	1.71	0.43
3:CR:118:PHE:CD2	3:CR:157:MET:HE3	2.53	0.43
3:CR:239:SER:HB3	3:CR:243:ASP:CG	2.42	0.43
4:ER:58:MET:SD	4:FR:75:ILE:HG13	2.58	0.43
2:BS:207:LYS:HG3	2:BS:209:GLN:H	1.82	0.43
2:BT:41:MET:CE	2:BU:77:LEU:HB2	2.46	0.43
2:BU:81:LEU:HD13	2:BU:93:LEU:HB2	2.00	0.43
2:BU:113:MET:SD	2:BU:118:ALA:HB2	2.58	0.43
3:CU:184:MET:H	3:CU:188:PHE:HD2	1.66	0.43
3:CU:246:TRP:HZ2	4:FV:122:ILE:HD12	1.81	0.43
4:EU:114:VAL:O	4:EU:117:LYS:HB2	2.18	0.43
2:BV:166:GLY:O	2:BW:190:ARG:NE	2.33	0.43
2:BV:239:LEU:HD23	2:BV:239:LEU:HA	1.86	0.43
2:BW:251:LEU:HA	2:BW:254:VAL:HG12	1.99	0.43
2:BW:273:LYS:HA	2:BW:276:ARG:NH1	2.32	0.43
3:CW:247:ARG:CZ	4:EX:79:LEU:HB3	2.48	0.43
4:EW:117:LYS:HA	4:EW:117:LYS:HD2	1.71	0.43
4:FW:76:LYS:O	4:FW:79:LEU:HG	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:113:MET:SD	2:BX:118:ALA:HB2	2.57	0.43
3:CX:259:LEU:HD21	4:FY:60:ILE:HG21	2.00	0.43
3:CX:260:GLU:HA	4:DX:72:ARG:HH22	1.83	0.43
3:CX:271:ARG:NH2	4:DX:59:ASP:HB2	2.32	0.43
1:AY:544:PRO:HA	1:AY:547:VAL:HG12	2.00	0.43
2:BY:96:ASP:O	2:BY:100:THR:HG23	2.18	0.43
4:DY:104:TYR:CD2	4:EY:61:PRO:HG3	2.53	0.43
2:B2:96:ASP:O	2:B2:100:THR:HG23	2.19	0.43
2:B3:245:ARG:NH1	2:B3:249:ARG:HB2	2.33	0.43
3:C3:42:THR:HG22	3:C3:44:ARG:HG3	1.99	0.43
2:B4:10:SER:O	2:B4:14:LEU:HD23	2.18	0.43
2:B4:196:VAL:C	2:B4:198:THR:H	2.26	0.43
3:C4:271:ARG:NH2	4:D4:59:ASP:HB2	2.32	0.43
4:E5:114:VAL:O	4:E5:117:LYS:HB2	2.18	0.43
2:B7:166:GLY:O	2:B8:190:ARG:NE	2.31	0.43
3:C7:259:LEU:HD21	4:F8:60:ILE:HG21	2.00	0.43
3:C7:274:GLN:O	3:C7:278:LEU:HB2	2.18	0.43
2:B8:72:ASN:O	2:B8:76:TYR:HB2	2.18	0.43
4:E8:118:TYR:CG	4:F8:68:LEU:HD21	2.53	0.43
2:B9:30:SER:O	2:B9:34:VAL:HG23	2.18	0.43
2:B9:53:THR:HA	2:B9:56:LEU:HD21	2.00	0.43
4:D9:73:MET:HE1	4:D9:78:LEU:HA	2.00	0.43
2:BA:166:GLY:HA2	2:BB:191:SER:O	2.19	0.43
2:BA:196:VAL:C	2:BA:198:THR:H	2.26	0.43
4:EB:75:ILE:HG12	4:FB:60:ILE:O	2.19	0.43
3:CC:246:TRP:HZ2	4:FD:122:ILE:HD12	1.83	0.43
4:DC:106:ILE:HD13	4:EC:60:ILE:HD11	2.00	0.43
2:BD:103:THR:HG21	2:BD:109:THR:CG2	2.48	0.43
3:CD:230:LEU:HD23	3:CD:230:LEU:HA	1.90	0.43
4:DF:101:ILE:HG22	4:DF:106:ILE:HB	1.99	0.43
2:BG:242:VAL:O	2:BG:243:ASP:OD1	2.36	0.43
2:BG:273:LYS:HA	2:BG:276:ARG:NH1	2.33	0.43
3:CG:42:THR:HG22	3:CG:44:ARG:HG3	1.99	0.43
4:FG:134:ARG:HA	4:FG:137:ARG:NH1	2.33	0.43
3:CH:42:THR:HG22	3:CH:44:ARG:HG3	1.99	0.43
4:FI:100:LEU:HA	4:FI:105:LEU:HA	2.00	0.43
2:BJ:81:LEU:HD13	2:BJ:93:LEU:HB2	2.00	0.43
4:EJ:118:TYR:CG	4:FJ:68:LEU:HD21	2.53	0.43
3:CK:271:ARG:NH2	4:DK:59:ASP:HB2	2.33	0.43
4:EK:74:THR:HA	4:FK:61:PRO:HA	2.00	0.43
4:EL:76:LYS:NZ	4:FL:59:ASP:HA	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DN:99:ILE:HD12	4:DN:107:ALA:HB3	2.00	0.43
4:EO:75:ILE:HG12	4:FO:60:ILE:O	2.18	0.43
1:AP:547:VAL:HG13	2:BP:25:VAL:HG22	2.00	0.43
2:BP:268:PRO:HG3	2:BP:271:ARG:HH21	1.81	0.43
3:CP:239:SER:HB3	3:CP:243:ASP:CG	2.42	0.43
3:CP:254:VAL:O	4:DP:75:ILE:HD13	2.18	0.43
4:EP:73:MET:CE	4:EP:78:LEU:HD23	2.48	0.43
2:BQ:113:MET:SD	2:BQ:118:ALA:HB2	2.58	0.43
2:BQ:161:ILE:O	2:BR:195:GLY:HA2	2.19	0.43
3:CQ:42:THR:HG22	3:CQ:44:ARG:HG3	1.99	0.43
3:CQ:70:PHE:HA	3:CQ:75:ARG:O	2.18	0.43
3:CQ:118:PHE:CD2	3:CQ:157:MET:HE3	2.52	0.43
3:CQ:127:VAL:HG22	3:CQ:153:VAL:HG21	2.00	0.43
3:CQ:183:GLU:O	3:CQ:184:MET:HE2	2.18	0.43
3:CQ:234:PRO:O	3:CQ:236:LEU:N	2.44	0.43
3:CR:53:ALA:HB1	3:CR:172:ILE:HD13	2.00	0.43
4:ER:75:ILE:O	4:ER:79:LEU:HG	2.18	0.43
4:ER:114:VAL:O	4:ER:117:LYS:HB2	2.18	0.43
2:BS:139:ARG:NH2	2:BT:202:ILE:O	2.51	0.43
4:ES:76:LYS:HZ3	4:FS:59:ASP:HA	1.84	0.43
4:ET:114:VAL:O	4:ET:117:LYS:HB2	2.18	0.43
2:BU:76:TYR:CE2	2:BU:80:VAL:HG21	2.53	0.43
2:BU:171:ALA:HB1	3:CU:131:PHE:CE1	2.53	0.43
3:CV:239:SER:HB3	3:CV:243:ASP:CG	2.43	0.43
4:FV:100:LEU:HA	4:FV:105:LEU:HA	2.00	0.43
2:BW:212:GLU:HA	2:BW:215:ILE:HG12	1.99	0.43
4:EW:75:ILE:HB	4:EW:76:LYS:NZ	2.33	0.43
2:BX:11:VAL:O	2:BX:15:MET:HG2	2.19	0.43
3:CX:101:ASN:HB3	3:CX:118:PHE:HB2	2.00	0.43
4:EY:114:VAL:O	4:EY:117:LYS:HB2	2.18	0.43
3:C1:56:ILE:HD11	3:C2:188:PHE:CD1	2.53	0.43
3:C1:89:TYR:HD2	3:C1:195:PRO:HA	1.82	0.43
3:C1:260:GLU:HA	4:D1:72:ARG:HH22	1.83	0.43
3:C1:293:ILE:HD12	3:C1:302:LEU:O	2.18	0.43
4:E3:76:LYS:NZ	4:F3:59:ASP:HA	2.33	0.43
1:A4:540:SER:OG	2:B4:21:ARG:HD3	2.18	0.43
1:A4:555:MET:HA	1:A4:558:ASP:OD2	2.18	0.43
2:B4:171:ALA:HB1	3:C4:131:PHE:CE1	2.53	0.43
4:E4:118:TYR:CG	4:F4:68:LEU:HD21	2.54	0.43
4:E5:76:LYS:NZ	4:F5:59:ASP:HA	2.33	0.43
2:B6:17:ILE:O	2:B6:21:ARG:HD2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:68:ALA:O	2:B6:70:ASN:ND2	2.51	0.43
3:C6:53:ALA:HB1	3:C6:172:ILE:HD13	1.99	0.43
4:D6:56:LEU:HD23	4:D6:56:LEU:H	1.84	0.43
2:B8:171:ALA:HB1	3:C8:131:PHE:CE1	2.53	0.43
3:C8:229:GLU:HG2	3:C8:230:LEU:N	2.33	0.43
3:C8:260:GLU:HA	4:D8:72:ARG:HH22	1.84	0.43
4:E8:75:ILE:HG13	4:F8:58:MET:HG2	2.01	0.43
2:B9:308:ILE:O	2:B9:312:VAL:HG23	2.18	0.43
3:C9:42:THR:HG22	3:C9:44:ARG:HG3	1.99	0.43
2:BA:14:LEU:O	2:BB:76:TYR:OH	2.27	0.43
4:DA:64:LEU:HD13	4:DA:101:ILE:HB	2.00	0.43
4:EA:75:ILE:O	4:EA:79:LEU:HG	2.18	0.43
4:EA:114:VAL:O	4:EA:117:LYS:HB2	2.18	0.43
3:CB:70:PHE:HA	3:CB:75:ARG:O	2.19	0.43
1:AC:532:MET:O	1:AC:536:ILE:HG12	2.18	0.43
4:DC:64:LEU:HD13	4:DC:101:ILE:HB	2.00	0.43
4:EC:75:ILE:HG13	4:FC:58:MET:HG2	2.00	0.43
3:CD:234:PRO:O	3:CD:236:LEU:N	2.44	0.43
4:DD:56:LEU:HD23	4:DD:56:LEU:H	1.82	0.43
4:ED:75:ILE:O	4:ED:79:LEU:HG	2.17	0.43
4:FD:104:TYR:CE2	4:FD:106:ILE:HG22	2.54	0.43
2:BE:158:MET:SD	2:BE:158:MET:C	3.02	0.43
3:CE:246:TRP:HZ2	4:FF:122:ILE:HD12	1.83	0.43
2:BF:139:ARG:HD2	2:BG:202:ILE:CA	2.44	0.43
2:BH:15:MET:HB3	2:BI:69:LEU:HD11	2.00	0.43
2:BI:46:GLN:NE2	2:BJ:66:PHE:O	2.50	0.43
2:BI:207:LYS:HG3	2:BI:209:GLN:H	1.82	0.43
3:CI:246:TRP:HZ2	4:FJ:122:ILE:HD12	1.83	0.43
4:DI:73:MET:HE1	4:DI:78:LEU:HA	2.00	0.43
2:BJ:139:ARG:HD2	2:BK:202:ILE:CG1	2.48	0.43
2:BJ:212:GLU:HA	2:BJ:215:ILE:HG12	1.99	0.43
3:CJ:179:TYR:OH	3:CJ:182:SER:OG	2.23	0.43
4:DJ:129:SER:O	4:DJ:133:ARG:HD3	2.18	0.43
4:EJ:114:VAL:O	4:EJ:117:LYS:HB2	2.18	0.43
1:AK:532:MET:O	1:AK:536:ILE:HG12	2.18	0.43
1:AL:532:MET:O	1:AL:536:ILE:HG12	2.17	0.43
3:CL:42:THR:HG22	3:CL:44:ARG:HG3	1.99	0.43
3:CM:260:GLU:HA	4:DM:72:ARG:NH2	2.33	0.43
3:CM:273:SER:OG	4:DM:58:MET:O	2.12	0.43
4:DM:56:LEU:HD23	4:DM:56:LEU:H	1.84	0.43
2:BN:17:ILE:O	2:BN:21:ARG:HD2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:46:GLN:CD	2:BO:70:ASN:HD22	2.25	0.43
4:DP:56:LEU:HD23	4:DP:56:LEU:H	1.84	0.43
4:DP:66:VAL:HG12	4:DP:99:ILE:HG12	2.00	0.43
4:FP:134:ARG:HA	4:FP:137:ARG:NH1	2.33	0.43
3:CQ:229:GLU:HG2	3:CQ:230:LEU:N	2.33	0.43
4:DQ:129:SER:O	4:DQ:133:ARG:HD3	2.17	0.43
1:AR:547:VAL:HG13	2:BR:25:VAL:HG22	2.00	0.43
3:CR:246:TRP:HZ2	4:FS:122:ILE:HD12	1.82	0.43
3:CS:53:ALA:HB1	3:CS:172:ILE:HD13	1.99	0.43
3:CS:260:GLU:HA	4:DS:72:ARG:NH2	2.32	0.43
1:AT:532:MET:O	1:AT:536:ILE:HG12	2.17	0.43
2:BT:209:GLN:HA	2:BT:212:GLU:CD	2.43	0.43
3:CT:89:TYR:HD2	3:CT:195:PRO:HA	1.81	0.43
3:CT:260:GLU:HA	4:DT:72:ARG:NH2	2.32	0.43
4:FT:100:LEU:HA	4:FT:105:LEU:HA	2.00	0.43
3:CW:246:TRP:HZ2	4:FX:122:ILE:HD12	1.82	0.43
3:CW:293:ILE:HD12	3:CW:302:LEU:O	2.17	0.43
4:DW:106:ILE:HD13	4:EW:60:ILE:HD11	2.00	0.43
4:EW:114:VAL:O	4:EW:117:LYS:HB2	2.18	0.43
2:BX:166:GLY:O	2:BY:190:ARG:NE	2.30	0.43
2:BX:209:GLN:HA	2:BX:212:GLU:CD	2.42	0.43
3:CX:89:TYR:HD2	3:CX:195:PRO:HA	1.83	0.43
2:BY:17:ILE:O	2:BY:21:ARG:HD2	2.18	0.43
3:CY:301:VAL:C	3:CY:321:ILE:HG12	2.43	0.43
2:B3:11:VAL:O	2:B3:15:MET:HG2	2.19	0.43
3:C3:229:GLU:HG2	3:C3:230:LEU:N	2.33	0.43
3:C3:258:GLU:HA	4:D3:74:THR:HA	2.01	0.43
3:C3:271:ARG:NH2	4:D3:59:ASP:HB2	2.32	0.43
4:D3:105:LEU:HB2	4:D3:131:ARG:HE	1.84	0.43
2:B4:155:HIS:HA	2:B4:158:MET:HE2	2.00	0.43
3:C4:229:GLU:HG2	3:C4:230:LEU:N	2.33	0.43
3:C4:247:ARG:CZ	4:E5:79:LEU:HB3	2.49	0.43
4:D5:64:LEU:HD13	4:D5:101:ILE:HB	2.00	0.43
1:A7:532:MET:O	1:A7:536:ILE:HG12	2.18	0.43
2:B7:212:GLU:HA	2:B7:215:ILE:HG12	2.00	0.43
3:C7:229:GLU:HG2	3:C7:230:LEU:N	2.33	0.43
3:C7:230:LEU:HD23	3:C7:230:LEU:HA	1.91	0.43
3:C7:260:GLU:HA	4:D7:72:ARG:HH22	1.83	0.43
3:C8:125:ILE:HG12	3:C8:211:LEU:HD13	1.99	0.43
3:C8:259:LEU:HD21	4:F9:60:ILE:HG21	2.00	0.43
3:C9:64:GLN:O	3:C9:67:MET:HG3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E9:114:VAL:O	4:E9:117:LYS:HB2	2.18	0.43
2:BA:171:ALA:HB1	3:CA:131:PHE:CE1	2.54	0.43
3:CA:296:VAL:HG23	3:CA:301:VAL:HG21	2.00	0.43
1:AB:532:MET:O	1:AB:536:ILE:HG12	2.17	0.43
3:CB:53:ALA:HB1	3:CB:172:ILE:HD13	2.00	0.43
4:FB:76:LYS:O	4:FB:79:LEU:HG	2.18	0.43
1:AC:555:MET:SD	2:BC:33:GLU:HB3	2.59	0.43
3:CC:53:ALA:HB1	3:CC:172:ILE:HD13	1.99	0.43
4:DC:56:LEU:HD23	4:DC:56:LEU:H	1.84	0.43
2:BD:139:ARG:HH12	2:BE:198:THR:HG23	1.83	0.43
2:BD:171:ALA:HB1	3:CD:131:PHE:CE1	2.53	0.43
4:ED:75:ILE:HG12	4:FD:60:ILE:O	2.18	0.43
4:EE:114:VAL:O	4:EE:117:LYS:HB2	2.18	0.43
3:CF:253:GLN:HE22	4:FG:126:ILE:HG13	1.83	0.43
3:CF:258:GLU:HA	4:DF:74:THR:HA	2.01	0.43
4:EF:93:ALA:HB3	4:FF:116:ASP:OD2	2.18	0.43
1:AG:532:MET:O	1:AG:536:ILE:HG12	2.17	0.43
2:BG:103:THR:HG21	2:BG:109:THR:CG2	2.49	0.43
1:AH:547:VAL:HG23	2:BH:59:PHE:CZ	2.44	0.43
2:BH:17:ILE:O	2:BH:21:ARG:HD2	2.17	0.43
2:BH:166:GLY:O	3:CH:132:GLY:HA2	2.19	0.43
3:CH:70:PHE:HA	3:CH:75:ARG:O	2.18	0.43
2:BJ:42:ALA:HB2	2:BK:97:ILE:HG23	1.99	0.43
3:CJ:42:THR:HG22	3:CJ:44:ARG:HG3	1.99	0.43
3:CJ:64:GLN:O	3:CJ:67:MET:HG3	2.19	0.43
4:DJ:105:LEU:HB2	4:DJ:131:ARG:HE	1.84	0.43
1:AL:540:SER:OG	2:BL:21:ARG:HD3	2.18	0.43
3:CM:64:GLN:O	3:CM:67:MET:HG3	2.19	0.43
3:CM:229:GLU:HG2	3:CM:230:LEU:N	2.33	0.43
4:EM:73:MET:CE	4:EM:78:LEU:HD23	2.48	0.43
2:BO:13:LEU:HD13	2:BO:59:PHE:CD1	2.54	0.43
3:CO:183:GLU:O	3:CO:184:MET:HE2	2.18	0.43
3:CO:260:GLU:HA	4:DO:72:ARG:HH22	1.83	0.43
3:CP:247:ARG:CZ	4:EQ:79:LEU:HB3	2.49	0.43
4:DP:78:LEU:HA	4:DP:81:LEU:HD23	1.99	0.43
1:AQ:540:SER:OG	2:BQ:21:ARG:HD3	2.18	0.43
4:DR:106:ILE:HD13	4:ER:60:ILE:HD11	2.00	0.43
3:CT:239:SER:HB3	3:CT:243:ASP:CG	2.42	0.43
3:CT:272:LEU:HB2	4:DT:60:ILE:HB	1.99	0.43
2:BU:93:LEU:O	2:BU:97:ILE:HG12	2.18	0.43
2:BU:134:LEU:HD13	2:BU:146:LEU:HD11	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:171:ALA:HB1	3:CW:131:PHE:CE1	2.53	0.43
3:CW:258:GLU:HA	4:DW:74:THR:HA	2.00	0.43
3:CX:246:TRP:HZ2	4:FY:122:ILE:HD12	1.83	0.43
4:EX:118:TYR:CG	4:FX:68:LEU:HD21	2.53	0.43
2:BY:308:ILE:O	2:BY:312:VAL:HG23	2.19	0.43
3:CY:260:GLU:HA	4:DY:72:ARG:NH2	2.33	0.43
4:EY:58:MET:SD	4:FY:75:ILE:HG13	2.59	0.43
3:C1:183:GLU:O	3:C1:184:MET:HE2	2.18	0.43
4:E1:93:ALA:HB3	4:F1:116:ASP:OD2	2.17	0.43
1:A2:547:VAL:HG23	2:B2:59:PHE:CZ	2.46	0.43
2:B2:239:LEU:HD23	2:B2:239:LEU:HA	1.82	0.43
2:B3:96:ASP:O	2:B3:100:THR:HG23	2.18	0.43
3:C3:259:LEU:HD21	4:F4:60:ILE:HG21	2.00	0.43
4:E3:130:GLU:HA	4:E3:133:ARG:HE	1.82	0.43
1:A4:552:ARG:HA	1:A4:555:MET:HE3	2.01	0.43
2:B4:146:LEU:O	2:B4:154:ARG:NE	2.49	0.43
3:C4:69:LEU:HB2	3:C4:77:PRO:HG3	2.01	0.43
3:C4:260:GLU:HA	4:D4:72:ARG:HH22	1.84	0.43
2:B5:13:LEU:HD13	2:B5:59:PHE:CD1	2.53	0.43
4:D5:102:ASN:ND2	4:E5:61:PRO:O	2.40	0.43
4:E5:118:TYR:CG	4:F5:68:LEU:HD21	2.54	0.43
3:C6:107:LEU:HD11	3:C6:219:LEU:HD22	1.99	0.43
2:B7:171:ALA:HB1	3:C7:131:PHE:CE1	2.54	0.43
3:C7:70:PHE:HA	3:C7:75:ARG:O	2.18	0.43
4:E7:128:PRO:HG3	4:E7:131:ARG:HH21	1.83	0.43
3:C8:64:GLN:O	3:C8:67:MET:HG3	2.19	0.43
4:D8:130:GLU:HG3	4:D8:134:ARG:HD2	2.01	0.43
2:B9:96:ASP:O	2:B9:100:THR:HG23	2.19	0.43
3:C9:238:ASN:ND2	3:CA:112:GLY:HA2	2.33	0.43
4:D9:56:LEU:HD23	4:D9:56:LEU:H	1.84	0.43
1:AA:532:MET:O	1:AA:536:ILE:HG12	2.18	0.43
3:CB:183:GLU:O	3:CB:184:MET:HE2	2.17	0.43
4:DB:129:SER:O	4:DB:133:ARG:HD3	2.19	0.43
2:BC:103:THR:HG21	2:BC:109:THR:CG2	2.49	0.43
3:CC:183:GLU:O	3:CC:184:MET:HE2	2.18	0.43
4:FC:105:LEU:HD22	4:FC:126:ILE:HD13	2.00	0.43
1:AD:540:SER:OG	2:BD:21:ARG:HD3	2.18	0.43
2:BD:207:LYS:HG3	2:BD:209:GLN:H	1.82	0.43
2:BF:26:PHE:HA	2:BF:29:LEU:HD12	2.00	0.43
3:CF:246:TRP:HZ2	4:FG:122:ILE:HD12	1.83	0.43
4:DF:64:LEU:HD13	4:DF:101:ILE:HB	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:114:VAL:O	4:EF:117:LYS:HB2	2.18	0.43
2:BG:166:GLY:O	3:CG:132:GLY:HA2	2.18	0.43
3:CG:271:ARG:NH2	4:DG:59:ASP:HB2	2.33	0.43
4:FG:76:LYS:O	4:FG:79:LEU:HG	2.19	0.43
2:BH:30:SER:O	2:BH:34:VAL:HG23	2.19	0.43
4:DH:106:ILE:HD13	4:EH:60:ILE:HD11	2.00	0.43
2:BJ:93:LEU:O	2:BJ:97:ILE:HG12	2.18	0.43
2:BK:174:GLU:OE2	3:CK:149:THR:HA	2.18	0.43
3:CK:64:GLN:O	3:CK:67:MET:HG3	2.19	0.43
4:EK:118:TYR:CG	4:FK:68:LEU:HD21	2.54	0.43
2:BL:93:LEU:O	2:BL:97:ILE:HG12	2.17	0.43
3:CL:69:LEU:HB2	3:CL:77:PRO:HG3	2.00	0.43
3:CL:179:TYR:OH	3:CL:182:SER:OG	2.25	0.43
4:EL:75:ILE:HG13	4:FL:58:MET:HG2	2.00	0.43
2:BM:4:LEU:HD23	2:BM:4:LEU:HA	1.90	0.43
4:EM:114:VAL:O	4:EM:117:LYS:HB2	2.18	0.43
3:CN:271:ARG:HH21	4:DN:59:ASP:HB2	1.81	0.43
4:FN:134:ARG:HA	4:FN:137:ARG:NH1	2.33	0.43
2:BO:46:GLN:CD	2:BP:70:ASN:HD22	2.26	0.43
3:CO:271:ARG:O	3:CO:275:ILE:HG12	2.19	0.43
1:AP:546:VAL:HG22	2:BP:70:ASN:HD21	1.84	0.43
2:BP:11:VAL:O	2:BP:15:MET:HG2	2.17	0.43
2:BP:161:ILE:HG22	2:BQ:199:ALA:HB2	2.00	0.43
4:EP:75:ILE:O	4:EP:79:LEU:HG	2.18	0.43
4:EQ:118:TYR:CG	4:FQ:68:LEU:HD21	2.53	0.43
2:BR:4:LEU:HD23	2:BR:4:LEU:HA	1.91	0.43
3:CR:101:ASN:HB3	3:CR:118:PHE:HB2	2.00	0.43
2:BS:46:GLN:HE22	2:BT:68:ALA:C	2.26	0.43
3:CS:246:TRP:HZ2	4:FT:122:ILE:HD12	1.83	0.43
3:CS:302:LEU:HD13	3:CS:317:VAL:HG13	2.00	0.43
4:DS:56:LEU:HD23	4:DS:56:LEU:H	1.84	0.43
4:FS:76:LYS:O	4:FS:79:LEU:HG	2.17	0.43
2:BT:96:ASP:O	2:BT:100:THR:HG23	2.18	0.43
3:CU:260:GLU:HA	4:DU:72:ARG:NH2	2.33	0.43
3:CV:301:VAL:C	3:CV:321:ILE:HG12	2.44	0.43
4:EV:71:THR:O	4:FV:64:LEU:HD23	2.18	0.43
2:BW:166:GLY:O	2:BX:190:ARG:NE	2.31	0.43
3:CW:108:LYS:O	3:CW:175:LEU:HB2	2.17	0.43
4:DW:64:LEU:HD13	4:DW:101:ILE:HB	2.00	0.43
3:CX:70:PHE:HA	3:CX:75:ARG:O	2.19	0.43
4:DY:56:LEU:HD23	4:DY:56:LEU:H	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:209:GLN:HA	2:B1:212:GLU:CD	2.44	0.43
3:C2:293:ILE:HD12	3:C2:302:LEU:O	2.17	0.43
1:A3:549:LEU:HD23	1:A3:552:ARG:HG3	2.00	0.43
3:C3:70:PHE:HA	3:C3:75:ARG:O	2.18	0.43
3:C4:260:GLU:HA	4:D4:72:ARG:NH2	2.33	0.43
3:C4:313:TYR:HB3	4:D4:68:LEU:HD21	2.01	0.43
4:D5:129:SER:O	4:D5:133:ARG:HD3	2.18	0.43
2:B7:41:MET:SD	2:B7:41:MET:C	3.02	0.43
3:C7:64:GLN:O	3:C7:67:MET:HG3	2.19	0.43
3:C8:70:PHE:HA	3:C8:75:ARG:O	2.19	0.43
3:C8:279:LYS:HA	3:C8:279:LYS:HD3	1.85	0.43
4:D8:56:LEU:HD23	4:D8:56:LEU:H	1.84	0.43
4:D8:73:MET:HE1	4:D8:78:LEU:HA	2.00	0.43
4:E8:75:ILE:HG12	4:F8:60:ILE:O	2.19	0.43
2:B9:245:ARG:NH1	2:B9:249:ARG:HB2	2.33	0.43
3:C9:69:LEU:HB2	3:C9:77:PRO:HG3	2.01	0.43
4:DA:79:LEU:HD12	4:FB:58:MET:HE1	2.00	0.43
2:BB:26:PHE:CE2	2:BC:84:ALA:HB1	2.53	0.43
3:CB:229:GLU:HG2	3:CB:230:LEU:N	2.33	0.43
4:DB:56:LEU:HD23	4:DB:56:LEU:H	1.84	0.43
4:DB:105:LEU:HB2	4:DB:131:ARG:HE	1.83	0.43
3:CC:64:GLN:O	3:CC:67:MET:HG3	2.18	0.43
3:CC:107:LEU:HD11	3:CC:219:LEU:HD22	2.00	0.43
2:BF:264:LYS:NZ	2:BF:294:GLY:O	2.48	0.43
2:BG:43:ASN:O	2:BG:45:ARG:NH1	2.51	0.43
3:CG:260:GLU:HA	4:DG:72:ARG:HH22	1.83	0.43
3:CH:260:GLU:HA	4:DH:72:ARG:NH2	2.33	0.43
2:BJ:171:ALA:HB1	3:CJ:131:PHE:CE1	2.53	0.43
2:BK:10:SER:O	2:BK:14:LEU:HD23	2.18	0.43
3:CK:42:THR:HG22	3:CK:44:ARG:HG3	1.99	0.43
3:CK:183:GLU:O	3:CK:184:MET:HE2	2.17	0.43
4:FK:134:ARG:HA	4:FK:137:ARG:NH1	2.33	0.43
2:BL:273:LYS:HA	2:BL:276:ARG:NH1	2.34	0.43
3:CL:107:LEU:HD11	3:CL:219:LEU:HD22	2.00	0.43
3:CL:273:SER:OG	4:DL:58:MET:O	2.12	0.43
4:FL:134:ARG:HA	4:FL:137:ARG:NH1	2.33	0.43
1:AM:549:LEU:O	1:AM:552:ARG:HB3	2.19	0.43
2:BM:245:ARG:NH1	2:BM:249:ARG:HB2	2.32	0.43
3:CM:234:PRO:O	3:CM:236:LEU:N	2.46	0.43
2:BN:9:LYS:HA	2:BN:12:ILE:HD12	2.00	0.43
3:CN:64:GLN:O	3:CN:67:MET:HG3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DN:130:GLU:HG3	4:DN:134:ARG:HD2	1.99	0.43
4:EN:59:ASP:HA	4:FN:76:LYS:HZ1	1.82	0.43
4:FN:76:LYS:O	4:FN:79:LEU:HG	2.19	0.43
4:FN:134:ARG:HG3	4:FN:137:ARG:HH22	1.84	0.43
2:BO:171:ALA:HB1	3:CO:131:PHE:CE1	2.53	0.43
2:BP:17:ILE:O	2:BP:21:ARG:HD2	2.19	0.43
4:EQ:75:ILE:HB	4:EQ:76:LYS:NZ	2.34	0.43
3:CR:125:ILE:HG12	3:CR:211:LEU:HD13	1.99	0.43
3:CR:293:ILE:HD12	3:CR:302:LEU:O	2.19	0.43
4:ER:71:THR:HB	4:FR:64:LEU:HD21	1.99	0.43
4:ER:118:TYR:CG	4:FR:68:LEU:HD21	2.53	0.43
3:CS:159:LYS:O	3:CS:162:LEU:HG	2.19	0.43
3:CS:229:GLU:HG2	3:CS:230:LEU:N	2.33	0.43
2:BT:113:MET:CE	2:BT:117:SER:HB2	2.46	0.43
3:CT:229:GLU:HG2	3:CT:230:LEU:N	2.33	0.43
4:DT:64:LEU:HD13	4:DT:101:ILE:HB	1.99	0.43
2:BU:98:LEU:HA	2:BU:101:ARG:NH2	2.34	0.43
2:BU:196:VAL:C	2:BU:198:THR:H	2.26	0.43
3:CU:230:LEU:HD23	3:CU:230:LEU:HA	1.91	0.43
3:CU:260:GLU:HA	4:DU:72:ARG:HH22	1.84	0.43
3:CU:313:TYR:HB3	4:DU:68:LEU:HD21	2.01	0.43
4:EU:58:MET:SD	4:FU:75:ILE:HG13	2.58	0.43
4:EV:118:TYR:CG	4:FV:68:LEU:HD21	2.54	0.43
1:AW:547:VAL:HG13	2:BW:25:VAL:HG22	2.01	0.43
4:DW:104:TYR:HB3	4:DW:131:ARG:NH2	2.34	0.43
2:BX:171:ALA:HB1	3:CX:131:PHE:CE1	2.54	0.43
3:CX:293:ILE:HD12	3:CX:302:LEU:O	2.18	0.43
3:CX:302:LEU:HD13	3:CX:317:VAL:HG13	2.01	0.43
4:EX:114:VAL:O	4:EX:117:LYS:HB2	2.18	0.43
4:DY:66:VAL:HG12	4:DY:99:ILE:HG12	1.99	0.43
2:B1:81:LEU:HD12	2:B1:94:LEU:HG	1.99	0.43
3:C1:53:ALA:HB1	3:C1:172:ILE:HD13	2.01	0.43
3:C1:229:GLU:HG2	3:C1:230:LEU:N	2.33	0.43
3:C1:260:GLU:HA	4:D1:72:ARG:NH2	2.33	0.43
3:C2:260:GLU:HA	4:D2:72:ARG:NH2	2.34	0.43
3:C3:271:ARG:O	3:C3:275:ILE:HG12	2.19	0.43
4:F3:76:LYS:O	4:F3:79:LEU:HG	2.18	0.43
2:B4:166:GLY:O	3:C4:132:GLY:HA2	2.19	0.43
2:B6:135:VAL:HG11	2:B7:194:GLY:HA3	2.01	0.43
4:D6:78:LEU:HA	4:D6:81:LEU:HD23	2.01	0.43
4:E6:118:TYR:CG	4:F6:68:LEU:HD21	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:536:ILE:HD13	1:A8:539:MET:HE3	2.00	0.43
3:C8:302:LEU:HD13	3:C8:317:VAL:HG13	2.01	0.43
4:D8:64:LEU:HD13	4:D8:101:ILE:HB	2.01	0.43
4:F8:122:ILE:O	4:F8:122:ILE:HG13	2.19	0.43
3:C9:89:TYR:HD2	3:C9:195:PRO:HA	1.83	0.43
4:F9:76:LYS:O	4:F9:79:LEU:HG	2.18	0.43
3:CA:64:GLN:O	3:CA:67:MET:HG3	2.19	0.43
4:EA:58:MET:SD	4:FA:75:ILE:HG13	2.59	0.43
3:CB:159:LYS:O	3:CB:162:LEU:HG	2.19	0.43
3:CB:294:ALA:O	3:CB:301:VAL:N	2.33	0.43
2:BC:85:LEU:HB3	2:BC:89:ARG:HB2	2.01	0.43
3:CC:70:PHE:HA	3:CC:75:ARG:O	2.19	0.43
3:CD:42:THR:HG22	3:CD:44:ARG:HG3	1.99	0.43
4:ED:71:THR:O	4:FD:64:LEU:HD23	2.19	0.43
3:CE:42:THR:HG22	3:CE:44:ARG:HG3	1.99	0.43
3:CE:301:VAL:C	3:CE:321:ILE:HG12	2.44	0.43
3:CF:247:ARG:CZ	4:EG:79:LEU:HB3	2.48	0.43
2:BG:171:ALA:HB1	3:CG:131:PHE:CE1	2.53	0.43
2:BH:171:ALA:HB1	3:CH:131:PHE:CE1	2.53	0.43
3:CI:260:GLU:HA	4:DI:72:ARG:HH22	1.83	0.43
3:CJ:38:TYR:H	4:EJ:112:VAL:HA	1.83	0.43
3:CJ:152:ARG:HA	3:CJ:152:ARG:HD2	1.84	0.43
2:BK:212:GLU:HA	2:BK:215:ILE:HG12	1.99	0.43
3:CK:247:ARG:CZ	4:EL:79:LEU:HB3	2.49	0.43
4:FK:100:LEU:HA	4:FK:105:LEU:HA	2.00	0.43
1:AL:555:MET:HE1	2:BL:29:LEU:HD22	1.99	0.43
2:BL:98:LEU:HA	2:BL:101:ARG:NH2	2.33	0.43
2:BL:245:ARG:HH12	2:BL:249:ARG:HB2	1.83	0.43
3:CM:69:LEU:HB2	3:CM:77:PRO:HG3	2.01	0.43
3:CM:271:ARG:HH21	4:DM:59:ASP:HB2	1.82	0.43
2:BN:247:ILE:HD11	2:BN:273:LYS:HG3	2.00	0.43
3:CN:53:ALA:HB1	3:CN:172:ILE:HD13	2.00	0.43
2:BP:136:HIS:CD2	2:BQ:193:MET:HE2	2.53	0.43
4:EP:131:ARG:HA	4:EP:134:ARG:NH1	2.34	0.43
1:AR:532:MET:O	1:AR:536:ILE:HG12	2.18	0.43
3:CR:299:VAL:HA	4:FR:132:MET:CE	2.43	0.43
3:CS:247:ARG:CZ	4:ET:79:LEU:HB3	2.49	0.43
4:ES:118:TYR:CE2	4:FS:93:ALA:HA	2.54	0.43
4:FT:76:LYS:O	4:FT:79:LEU:HG	2.19	0.43
2:BV:96:ASP:O	2:BV:100:THR:HG23	2.18	0.43
4:FV:110:GLU:HG3	4:FV:123:THR:OG1	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:96:ASP:O	2:BW:100:THR:HG23	2.19	0.43
2:BW:158:MET:SD	2:BW:159:LEU:N	2.92	0.43
4:FW:100:LEU:HA	4:FW:105:LEU:HA	2.00	0.43
2:BX:11:VAL:HG13	2:BX:41:MET:HB3	2.01	0.43
2:BX:12:ILE:HD11	2:BX:47:ILE:HG12	2.00	0.43
2:BX:81:LEU:HD13	2:BX:93:LEU:HB2	2.01	0.43
3:CX:313:TYR:HB3	4:DX:68:LEU:HD21	2.01	0.43
4:DX:98:ASP:OD1	4:DX:99:ILE:N	2.52	0.43
3:C1:313:TYR:HB3	4:D1:68:LEU:HD21	2.01	0.43
1:A2:552:ARG:HA	1:A2:555:MET:HE3	2.00	0.43
3:C2:271:ARG:NH2	4:D2:59:ASP:HB2	2.33	0.43
3:C2:279:LYS:HA	3:C2:279:LYS:HD3	1.83	0.43
3:C2:313:TYR:HB3	4:D2:68:LEU:HD21	2.01	0.43
3:C3:247:ARG:CZ	4:E4:79:LEU:HB3	2.49	0.43
4:D3:132:MET:HE1	4:E4:131:ARG:HD2	2.01	0.43
3:C4:234:PRO:O	3:C4:236:LEU:N	2.46	0.43
3:C4:246:TRP:HZ2	4:F5:122:ILE:HD12	1.84	0.43
4:E4:114:VAL:O	4:E4:117:LYS:HB2	2.18	0.43
2:B5:166:GLY:O	3:C5:132:GLY:HA2	2.19	0.43
3:C7:183:GLU:O	3:C7:184:MET:HE2	2.18	0.43
3:C7:239:SER:HB3	3:C7:243:ASP:CG	2.44	0.43
3:C7:260:GLU:HA	4:D7:72:ARG:NH2	2.33	0.43
3:C7:313:TYR:HB3	4:D7:68:LEU:HD21	2.00	0.43
4:E7:75:ILE:O	4:E7:79:LEU:HG	2.17	0.43
2:BA:78:ARG:HA	2:BA:94:LEU:HD11	2.00	0.43
2:BA:209:GLN:HA	2:BA:212:GLU:CD	2.44	0.43
3:CB:64:GLN:O	3:CB:67:MET:HG3	2.19	0.43
3:CB:239:SER:HB3	3:CB:243:ASP:CG	2.43	0.43
4:DB:64:LEU:HD13	4:DB:101:ILE:HB	2.01	0.43
4:DC:96:PRO:HB2	4:DC:108:GLN:HG3	2.01	0.43
2:BD:75:GLU:CD	2:BD:75:GLU:H	2.27	0.43
2:BD:166:GLY:O	3:CD:132:GLY:HA2	2.19	0.43
4:ED:126:ILE:O	4:ED:128:PRO:HD3	2.19	0.43
3:CE:64:GLN:O	3:CE:67:MET:HG3	2.19	0.43
3:CE:229:GLU:HG2	3:CE:230:LEU:N	2.33	0.43
2:BF:171:ALA:HB1	3:CF:131:PHE:CE1	2.53	0.43
2:BH:21:ARG:O	2:BH:25:VAL:HG23	2.19	0.43
2:BH:85:LEU:HD23	2:BH:89:ARG:HE	1.83	0.43
2:BH:264:LYS:NZ	2:BH:294:GLY:O	2.49	0.43
3:CH:64:GLN:O	3:CH:67:MET:HG3	2.19	0.43
1:AI:555:MET:SD	2:BI:33:GLU:HB3	2.59	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:166:GLY:O	3:CJ:132:GLY:HA2	2.19	0.43
3:CK:69:LEU:HB2	3:CK:77:PRO:HG3	2.01	0.43
3:CK:229:GLU:HG2	3:CK:230:LEU:N	2.33	0.43
2:BL:13:LEU:HD13	2:BL:59:PHE:CD1	2.54	0.43
2:BL:264:LYS:NZ	2:BL:294:GLY:O	2.49	0.43
3:CL:108:LYS:O	3:CL:175:LEU:HB2	2.19	0.43
4:EL:118:TYR:CG	4:FL:68:LEU:HD21	2.54	0.43
4:EL:131:ARG:HG3	4:EL:134:ARG:HH11	1.83	0.43
4:EM:131:ARG:HA	4:EM:134:ARG:NH1	2.33	0.43
4:FM:134:ARG:HA	4:FM:137:ARG:NH1	2.33	0.43
2:BN:46:GLN:HB2	1:AO:549:LEU:HD22	2.01	0.43
2:BO:11:VAL:O	2:BO:15:MET:HG2	2.18	0.43
3:CO:260:GLU:HA	4:DO:72:ARG:NH2	2.33	0.43
3:CP:272:LEU:HB2	4:DP:60:ILE:HB	2.01	0.43
3:CP:302:LEU:HD13	3:CP:317:VAL:HG13	2.00	0.43
4:DP:74:THR:O	4:DP:78:LEU:HB2	2.17	0.43
1:AQ:517:GLN:O	1:AQ:520:GLN:HG3	2.19	0.43
4:EQ:114:VAL:O	4:EQ:117:LYS:HB2	2.18	0.43
3:CR:69:LEU:HB2	3:CR:77:PRO:HG3	2.01	0.43
2:BS:21:ARG:O	2:BS:25:VAL:HG23	2.19	0.43
2:BS:245:ARG:NH2	2:BS:321:MET:HB3	2.33	0.43
1:AT:536:ILE:HA	1:AT:539:MET:HE3	1.99	0.43
2:BT:13:LEU:HD13	2:BT:59:PHE:CD1	2.53	0.43
4:DT:96:PRO:HB2	4:DT:108:GLN:HG3	2.01	0.43
4:ET:118:TYR:CG	4:FT:68:LEU:HD21	2.54	0.43
1:AV:517:GLN:O	1:AV:520:GLN:HG3	2.19	0.43
3:CV:234:PRO:O	3:CV:236:LEU:N	2.46	0.43
3:CV:247:ARG:CZ	4:EW:79:LEU:HB3	2.49	0.43
4:DV:129:SER:O	4:DV:133:ARG:HD3	2.19	0.43
3:CW:313:TYR:HB3	4:DW:68:LEU:HD21	2.01	0.43
2:BX:13:LEU:HD13	2:BX:59:PHE:CD1	2.53	0.43
4:DX:64:LEU:HD13	4:DX:101:ILE:HB	2.01	0.43
4:DX:73:MET:HE1	4:DX:78:LEU:HA	2.00	0.43
3:CY:64:GLN:O	3:CY:67:MET:HG3	2.19	0.43
3:CY:313:TYR:HB3	4:DY:68:LEU:HD21	1.99	0.43
2:B1:166:GLY:O	3:C1:132:GLY:HA2	2.18	0.43
3:C1:70:PHE:HA	3:C1:75:ARG:O	2.19	0.43
3:C1:247:ARG:CZ	4:E2:79:LEU:HB3	2.49	0.43
2:B2:9:LYS:HA	2:B2:12:ILE:HD12	2.01	0.43
2:B2:166:GLY:O	3:C2:132:GLY:HA2	2.18	0.43
3:C2:272:LEU:HB2	4:D2:60:ILE:HB	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E2:118:TYR:CG	4:F2:68:LEU:HD21	2.54	0.43
4:E2:127:THR:HG23	4:E2:130:GLU:OE2	2.19	0.43
3:C3:246:TRP:HZ2	4:F4:122:ILE:HD12	1.83	0.43
4:D5:56:LEU:HD23	4:D5:56:LEU:H	1.84	0.43
1:A6:558:ASP:OD1	2:B6:6:GLY:HA3	2.19	0.43
3:C6:260:GLU:HA	4:D6:72:ARG:NH2	2.34	0.43
4:F6:104:TYR:CE2	4:F6:106:ILE:HG22	2.53	0.43
3:C7:272:LEU:HB2	4:D7:60:ILE:HB	2.01	0.43
4:D8:129:SER:O	4:D8:133:ARG:HD3	2.18	0.43
2:BA:62:GLU:O	2:BA:65:GLN:HG3	2.18	0.43
2:BB:78:ARG:HA	2:BB:94:LEU:HD11	2.01	0.43
3:CB:89:TYR:HD2	3:CB:195:PRO:HA	1.83	0.43
3:CB:272:LEU:HB2	4:DB:60:ILE:HB	2.01	0.43
2:BC:146:LEU:O	2:BC:154:ARG:NE	2.51	0.43
4:DC:129:SER:O	4:DC:133:ARG:HD3	2.19	0.43
2:BD:17:ILE:O	2:BD:21:ARG:HD2	2.18	0.43
2:BD:246:SER:HB3	2:BD:321:MET:HE3	2.00	0.43
3:CD:302:LEU:HD13	3:CD:317:VAL:HG13	2.01	0.43
2:BE:62:GLU:O	2:BE:65:GLN:HG3	2.18	0.43
4:DE:66:VAL:HG12	4:DE:99:ILE:HG12	2.01	0.43
2:BF:209:GLN:HA	2:BF:212:GLU:CD	2.43	0.43
3:CF:38:TYR:HB2	4:EF:113:VAL:HB	2.01	0.43
3:CF:127:VAL:HG22	3:CF:153:VAL:HG21	2.00	0.43
3:CF:229:GLU:HG2	3:CF:230:LEU:N	2.33	0.43
2:BG:300:GLN:O	2:BG:304:GLU:HG2	2.19	0.43
4:EG:118:TYR:CE2	4:FG:93:ALA:HA	2.54	0.43
4:EG:118:TYR:CG	4:FG:68:LEU:HD21	2.53	0.43
4:DH:56:LEU:HD23	4:DH:56:LEU:H	1.84	0.43
2:BI:46:GLN:CD	2:BJ:70:ASN:HD22	2.27	0.43
2:BI:146:LEU:O	2:BI:154:ARG:NE	2.46	0.43
4:DI:96:PRO:HB2	4:DI:108:GLN:HG3	2.01	0.43
1:AJ:547:VAL:HG23	2:BJ:59:PHE:CZ	2.43	0.43
2:BK:17:ILE:O	2:BK:21:ARG:HD2	2.19	0.43
4:EK:117:LYS:HD2	4:EK:117:LYS:HA	1.71	0.43
4:DL:96:PRO:HB2	4:DL:108:GLN:HG3	2.01	0.43
2:BM:113:MET:SD	2:BM:118:ALA:HB2	2.58	0.43
1:AN:547:VAL:HG23	2:BN:59:PHE:CZ	2.45	0.43
3:CN:54:LEU:HB2	3:CN:231:LEU:HD23	2.01	0.43
4:EN:114:VAL:O	4:EN:117:LYS:HB2	2.18	0.43
2:BO:4:LEU:HD23	2:BO:4:LEU:HA	1.90	0.43
3:CO:64:GLN:O	3:CO:67:MET:HG3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:108:LYS:O	3:CO:175:LEU:HB2	2.19	0.43
4:EO:114:VAL:O	4:EO:117:LYS:HB2	2.18	0.43
3:CP:287:GLU:H	3:CP:287:GLU:CD	2.27	0.43
2:BQ:13:LEU:HD13	2:BQ:59:PHE:CD1	2.54	0.43
3:CQ:258:GLU:OE1	4:DQ:72:ARG:HA	2.19	0.43
1:AR:549:LEU:HA	1:AR:552:ARG:HB2	2.01	0.43
2:BS:151:GLU:HG2	2:BS:155:HIS:CE1	2.54	0.43
3:CT:54:LEU:HB2	3:CT:231:LEU:HD23	2.00	0.43
3:CT:183:GLU:O	3:CT:184:MET:HE2	2.18	0.43
3:CT:267:ASP:OD1	4:DT:63:LYS:HD2	2.19	0.43
2:BU:207:LYS:HG3	2:BU:209:GLN:H	1.83	0.43
4:DU:56:LEU:HD23	4:DU:56:LEU:H	1.84	0.43
4:DV:105:LEU:HB2	4:DV:131:ARG:HE	1.84	0.43
4:EV:118:TYR:CE2	4:FV:93:ALA:HA	2.54	0.43
4:FV:133:ARG:HH12	4:FV:137:ARG:NH1	2.15	0.43
3:CW:69:LEU:HB2	3:CW:77:PRO:HG3	2.01	0.43
4:EW:118:TYR:CG	4:FW:68:LEU:HD21	2.54	0.43
4:EX:117:LYS:HD2	4:EX:117:LYS:HA	1.71	0.43
4:EX:118:TYR:CE2	4:FX:93:ALA:HA	2.54	0.43
4:FX:116:ASP:OD1	4:FX:116:ASP:O	2.37	0.43
4:FY:95:GLU:OE1	4:FY:95:GLU:N	2.51	0.43
1:A1:517:GLN:O	1:A1:520:GLN:HG3	2.19	0.43
1:A1:532:MET:O	1:A1:536:ILE:HG12	2.19	0.43
4:D1:64:LEU:HD13	4:D1:101:ILE:HB	2.01	0.43
4:F1:95:GLU:OE1	4:F1:95:GLU:N	2.51	0.43
2:B2:166:GLY:O	2:B3:190:ARG:NE	2.30	0.43
4:D2:106:ILE:HD13	4:E2:60:ILE:HD11	2.00	0.43
2:B3:43:ASN:HB3	2:B4:101:ARG:NH2	2.33	0.43
3:C3:260:GLU:HA	4:D3:72:ARG:HH22	1.83	0.43
4:E3:118:TYR:CG	4:F3:68:LEU:HD21	2.54	0.43
2:B4:159:LEU:HB3	3:C4:137:PHE:CE2	2.53	0.43
4:E4:76:LYS:HZ1	4:F4:58:MET:C	2.20	0.43
2:B5:103:THR:HG21	2:B5:109:THR:CG2	2.49	0.43
3:C5:313:TYR:HB3	4:D5:68:LEU:HD21	2.01	0.43
1:A6:551:ILE:HD13	2:B6:14:LEU:HD21	2.00	0.43
2:B6:308:ILE:O	2:B6:312:VAL:HG23	2.19	0.43
3:C6:64:GLN:O	3:C6:67:MET:HG3	2.19	0.43
2:B7:103:THR:HG21	2:B7:109:THR:CG2	2.49	0.43
2:B7:139:ARG:NH2	2:B8:198:THR:HG23	2.34	0.43
3:C7:108:LYS:O	3:C7:175:LEU:HB2	2.19	0.43
2:B8:166:GLY:O	2:B9:190:ARG:NE	2.31	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D8:102:ASN:ND2	4:E8:61:PRO:O	2.41	0.43
4:D9:105:LEU:HB2	4:D9:131:ARG:HE	1.83	0.43
4:D9:129:SER:O	4:D9:133:ARG:HD3	2.19	0.43
4:E9:75:ILE:HB	4:E9:76:LYS:NZ	2.34	0.43
4:E9:117:LYS:HD2	4:E9:117:LYS:HA	1.71	0.43
3:CB:108:LYS:O	3:CB:175:LEU:HB2	2.19	0.43
1:AC:540:SER:OG	2:BC:21:ARG:HD3	2.18	0.43
3:CD:246:TRP:HZ2	4:FE:122:ILE:HD12	1.84	0.43
4:DD:129:SER:O	4:DD:133:ARG:HD3	2.19	0.43
3:CF:159:LYS:O	3:CF:162:LEU:HG	2.18	0.43
3:CG:259:LEU:HD21	4:FH:60:ILE:HG21	2.01	0.43
3:CG:260:GLU:HA	4:DG:72:ARG:NH2	2.33	0.43
1:AI:547:VAL:HG23	2:BI:59:PHE:CZ	2.44	0.43
3:CI:64:GLN:O	3:CI:67:MET:HG3	2.19	0.43
3:CJ:229:GLU:HG2	3:CJ:230:LEU:N	2.33	0.43
3:CJ:302:LEU:HD13	3:CJ:317:VAL:HG13	2.00	0.43
4:DJ:64:LEU:HD13	4:DJ:101:ILE:HB	2.00	0.43
4:DJ:106:ILE:HD13	4:EJ:60:ILE:HD11	1.99	0.43
1:AL:549:LEU:O	1:AL:552:ARG:HB2	2.19	0.43
4:DL:66:VAL:HG12	4:DL:99:ILE:HG12	2.01	0.43
4:DM:101:ILE:HD13	4:EM:60:ILE:HD13	2.01	0.43
2:BN:78:ARG:HA	2:BN:94:LEU:HD11	2.01	0.43
3:CN:152:ARG:HA	3:CN:152:ARG:HD2	1.85	0.43
3:CO:239:SER:HB3	3:CO:243:ASP:CG	2.43	0.43
3:CO:302:LEU:HD13	3:CO:317:VAL:HG13	2.00	0.43
2:BP:273:LYS:HA	2:BP:276:ARG:NH1	2.34	0.43
3:CP:183:GLU:O	3:CP:184:MET:HE2	2.17	0.43
3:CP:267:ASP:OD1	4:DP:63:LYS:HD2	2.19	0.43
4:DP:105:LEU:HB2	4:DP:131:ARG:HE	1.84	0.43
4:FP:132:MET:HE3	4:FP:132:MET:O	2.19	0.43
1:AQ:555:MET:HE1	2:BQ:29:LEU:HD22	2.01	0.43
2:BQ:5:SER:O	2:BQ:9:LYS:HG3	2.19	0.43
2:BQ:261:ILE:HG22	2:BQ:301:VAL:HA	2.01	0.43
3:CQ:57:ILE:HG21	3:CQ:169:TRP:CD1	2.54	0.43
2:BR:2:SER:H	2:BR:51:GLN:NE2	2.17	0.43
2:BR:209:GLN:HA	2:BR:212:GLU:CD	2.43	0.43
4:DR:56:LEU:HD23	4:DR:56:LEU:H	1.84	0.43
2:BS:12:ILE:HD11	2:BS:47:ILE:HG12	2.00	0.43
1:AU:517:GLN:O	1:AU:520:GLN:HG3	2.19	0.43
1:AV:558:ASP:OD1	2:BV:6:GLY:HA3	2.19	0.43
2:BW:13:LEU:HD13	2:BW:59:PHE:CD1	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:274:GLN:O	3:CW:278:LEU:HB2	2.19	0.43
4:FW:95:GLU:OE1	4:FW:95:GLU:N	2.51	0.43
3:CX:169:TRP:HH2	3:CX:231:LEU:HD11	1.83	0.43
4:EX:106:ILE:HD12	4:EX:125:ILE:HD11	2.01	0.43
2:BY:53:THR:HA	2:BY:56:LEU:HD21	2.00	0.43
1:A1:549:LEU:O	1:A1:552:ARG:HB3	2.18	0.42
2:B1:26:PHE:HD2	2:B1:34:VAL:HG22	1.84	0.42
2:B1:46:GLN:HE22	2:B2:68:ALA:C	2.22	0.42
2:B1:93:LEU:O	2:B1:97:ILE:HG12	2.18	0.42
3:C1:246:TRP:HZ2	4:F2:122:ILE:HD12	1.84	0.42
2:B2:207:LYS:HG3	2:B2:209:GLN:H	1.83	0.42
3:C2:229:GLU:HG2	3:C2:230:LEU:N	2.33	0.42
3:C3:159:LYS:O	3:C3:162:LEU:HG	2.19	0.42
3:C4:64:GLN:O	3:C4:67:MET:HG3	2.18	0.42
3:C4:107:LEU:HD11	3:C4:219:LEU:HD22	2.00	0.42
4:E4:58:MET:SD	4:F4:75:ILE:HG13	2.59	0.42
3:C5:69:LEU:HB2	3:C5:77:PRO:HG3	2.01	0.42
3:C5:220:PRO:HD2	3:C5:223:MET:HG3	2.01	0.42
3:C6:301:VAL:C	3:C6:321:ILE:HG12	2.44	0.42
4:E6:74:THR:HA	4:F6:61:PRO:HA	1.99	0.42
1:A7:555:MET:SD	2:B7:33:GLU:HB3	2.59	0.42
2:B7:96:ASP:O	2:B7:100:THR:HG23	2.19	0.42
2:B7:239:LEU:HD23	2:B7:239:LEU:HA	1.87	0.42
2:B9:209:GLN:HA	2:B9:212:GLU:CD	2.44	0.42
3:C9:56:ILE:HD11	3:CA:188:PHE:CD1	2.53	0.42
2:BA:26:PHE:HA	2:BA:29:LEU:HD12	2.01	0.42
3:CA:229:GLU:HG2	3:CA:230:LEU:N	2.34	0.42
4:FA:134:ARG:HA	4:FA:137:ARG:NH1	2.34	0.42
2:BB:75:GLU:O	2:BB:78:ARG:HG3	2.19	0.42
2:BB:171:ALA:HB1	3:CB:131:PHE:CE1	2.53	0.42
2:BD:12:ILE:HD11	2:BD:47:ILE:HG12	2.01	0.42
2:BD:43:ASN:HB3	2:BE:101:ARG:NH2	2.34	0.42
2:BD:166:GLY:O	2:BE:190:ARG:NE	2.30	0.42
3:CD:64:GLN:O	3:CD:67:MET:HG3	2.19	0.42
4:DD:64:LEU:HD13	4:DD:101:ILE:HB	2.01	0.42
3:CE:272:LEU:HB2	4:DE:60:ILE:HB	2.01	0.42
4:FE:67:GLU:HG2	4:FE:100:LEU:HD13	2.01	0.42
2:BF:62:GLU:O	2:BF:65:GLN:HG3	2.18	0.42
2:BF:166:GLY:O	3:CF:132:GLY:HA2	2.19	0.42
3:CF:296:VAL:HG23	3:CF:301:VAL:HG21	2.00	0.42
2:BG:4:LEU:HD23	2:BG:4:LEU:HA	1.90	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:302:LEU:HD13	3:CG:317:VAL:HG13	2.01	0.42
4:DH:64:LEU:HD13	4:DH:101:ILE:HB	2.00	0.42
1:AI:552:ARG:HA	1:AI:555:MET:HE3	2.01	0.42
2:BI:273:LYS:HA	2:BI:276:ARG:NH1	2.34	0.42
4:DI:98:ASP:OD1	4:DI:99:ILE:N	2.51	0.42
2:BJ:17:ILE:O	2:BJ:21:ARG:HD2	2.18	0.42
4:DK:56:LEU:HD23	4:DK:56:LEU:H	1.84	0.42
3:CL:302:LEU:HD13	3:CL:317:VAL:HG13	2.00	0.42
3:CN:70:PHE:HA	3:CN:75:ARG:O	2.19	0.42
3:CO:313:TYR:HB3	4:DO:68:LEU:HD21	2.01	0.42
2:BP:207:LYS:HG3	2:BP:209:GLN:H	1.84	0.42
2:BP:262:ALA:HA	2:BP:301:VAL:HG13	2.01	0.42
2:BP:297:ARG:CZ	2:BP:297:ARG:HA	2.48	0.42
2:BP:308:ILE:O	2:BP:312:VAL:HG23	2.17	0.42
3:CP:101:ASN:HB3	3:CP:118:PHE:HB2	2.01	0.42
4:DP:104:TYR:HD2	4:EP:61:PRO:HG3	1.82	0.42
2:BQ:242:VAL:O	2:BQ:246:SER:OG	2.30	0.42
3:CQ:258:GLU:HA	4:DQ:74:THR:HG22	2.01	0.42
2:BR:11:VAL:O	2:BR:15:MET:HG2	2.19	0.42
2:BR:166:GLY:O	2:BS:190:ARG:NE	2.32	0.42
4:DR:68:LEU:HA	4:DR:97:LEU:HD23	2.01	0.42
3:CS:64:GLN:O	3:CS:67:MET:HG3	2.19	0.42
3:CS:293:ILE:HD12	3:CS:302:LEU:O	2.18	0.42
4:DS:101:ILE:HD13	4:ES:60:ILE:HD13	2.01	0.42
2:BU:161:ILE:HG21	2:BV:202:ILE:HD12	2.00	0.42
3:CV:229:GLU:HG2	3:CV:230:LEU:N	2.33	0.42
4:DV:96:PRO:HB2	4:DV:108:GLN:HG3	2.01	0.42
2:BX:41:MET:CE	2:BY:77:LEU:HB2	2.49	0.42
4:DX:56:LEU:HD23	4:DX:56:LEU:H	1.84	0.42
4:EX:74:THR:HG22	4:EX:75:ILE:N	2.34	0.42
4:FX:95:GLU:OE1	4:FX:95:GLU:N	2.51	0.42
2:B1:190:ARG:NE	2:BY:166:GLY:O	2.32	0.42
4:D1:129:SER:O	4:D1:133:ARG:HD3	2.18	0.42
2:B2:62:GLU:O	2:B2:65:GLN:HG3	2.18	0.42
4:F2:95:GLU:OE1	4:F2:95:GLU:N	2.51	0.42
2:B3:239:LEU:HD23	2:B3:239:LEU:HA	1.88	0.42
3:C3:69:LEU:HB2	3:C3:77:PRO:HG3	2.01	0.42
2:B4:212:GLU:HA	2:B4:215:ILE:HG12	2.00	0.42
2:B4:308:ILE:O	2:B4:312:VAL:HG23	2.19	0.42
4:E4:75:ILE:HB	4:E4:76:LYS:NZ	2.34	0.42
1:A6:549:LEU:O	1:A6:552:ARG:HB3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:247:ARG:CZ	4:E9:79:LEU:HB3	2.49	0.42
3:C8:260:GLU:HA	4:D8:72:ARG:NH2	2.33	0.42
3:C8:272:LEU:HB2	4:D8:60:ILE:HB	2.01	0.42
3:C9:53:ALA:HB1	3:C9:172:ILE:HD13	2.01	0.42
2:BA:212:GLU:HA	2:BA:215:ILE:HG12	2.00	0.42
3:CA:234:PRO:O	3:CA:236:LEU:N	2.48	0.42
2:BB:72:ASN:O	2:BB:76:TYR:HB2	2.18	0.42
4:EC:119:GLY:HA2	4:FC:89:LEU:HD13	2.01	0.42
3:CD:53:ALA:HB1	3:CD:172:ILE:HD13	2.01	0.42
3:CD:70:PHE:HA	3:CD:75:ARG:O	2.19	0.42
4:ED:127:THR:HG23	4:ED:130:GLU:OE2	2.18	0.42
3:CE:313:TYR:HB3	4:DE:68:LEU:HD21	2.00	0.42
3:CF:69:LEU:HB2	3:CF:77:PRO:HG3	2.02	0.42
2:BG:261:ILE:HG22	2:BG:301:VAL:HA	2.01	0.42
3:CG:64:GLN:O	3:CG:67:MET:HG3	2.19	0.42
4:DG:56:LEU:HD23	4:DG:56:LEU:H	1.84	0.42
4:FG:126:ILE:HD11	4:FG:131:ARG:HH21	1.85	0.42
3:CH:54:LEU:HB2	3:CH:231:LEU:HD23	2.01	0.42
2:BI:161:ILE:HG22	2:BJ:199:ALA:HB2	2.00	0.42
4:DI:106:ILE:HD13	4:EI:60:ILE:HD11	2.01	0.42
2:BJ:96:ASP:O	2:BJ:100:THR:HG23	2.19	0.42
2:BK:113:MET:CE	2:BK:117:SER:HB2	2.46	0.42
2:BL:62:GLU:O	2:BL:65:GLN:HG3	2.18	0.42
3:CL:229:GLU:HG2	3:CL:230:LEU:N	2.33	0.42
3:CL:246:TRP:HZ2	4:FM:122:ILE:HD12	1.83	0.42
3:CM:70:PHE:HA	3:CM:75:ARG:O	2.19	0.42
1:AN:549:LEU:HA	1:AN:552:ARG:HB2	2.01	0.42
4:EN:117:LYS:HA	4:EN:117:LYS:HD2	1.71	0.42
4:EN:127:THR:HG23	4:EN:130:GLU:OE2	2.19	0.42
4:FN:71:THR:HG1	4:FN:89:LEU:HA	1.84	0.42
2:BO:146:LEU:O	2:BO:154:ARG:NE	2.47	0.42
2:BO:246:SER:HB3	2:BO:321:MET:HE3	2.01	0.42
2:BP:46:GLN:CD	2:BQ:70:ASN:HD22	2.27	0.42
3:CP:260:GLU:HA	4:DP:72:ARG:NH2	2.34	0.42
4:EP:114:VAL:O	4:EP:117:LYS:HB2	2.18	0.42
4:EP:118:TYR:CG	4:FP:68:LEU:HD21	2.54	0.42
4:FP:100:LEU:HA	4:FP:105:LEU:HA	2.01	0.42
4:DQ:74:THR:O	4:DQ:78:LEU:HB2	2.19	0.42
1:AS:555:MET:HE1	2:BS:29:LEU:HD22	2.01	0.42
4:DS:73:MET:HE1	4:DS:78:LEU:HA	1.99	0.42
1:AT:547:VAL:HG23	2:BT:59:PHE:CZ	2.45	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:549:LEU:HA	1:AT:552:ARG:HB2	2.01	0.42
3:CT:246:TRP:HZ2	4:FU:122:ILE:HD12	1.83	0.42
1:AU:547:VAL:HG23	2:BU:59:PHE:CZ	2.43	0.42
3:CX:64:GLN:O	3:CX:67:MET:HG3	2.19	0.42
4:EX:99:ILE:HG12	4:EX:120:VAL:HG21	2.01	0.42
1:AY:549:LEU:O	1:AY:552:ARG:HB3	2.19	0.42
3:CY:229:GLU:HG2	3:CY:230:LEU:N	2.33	0.42
2:B1:12:ILE:HD11	2:B1:47:ILE:HG12	2.01	0.42
2:B1:81:LEU:HD13	2:B1:93:LEU:HB2	2.00	0.42
2:B1:308:ILE:O	2:B1:312:VAL:HG23	2.19	0.42
4:E1:77:GLU:HG3	4:E1:80:ARG:NH2	2.33	0.42
1:A3:549:LEU:HA	1:A3:552:ARG:HB2	2.01	0.42
2:B3:5:SER:O	2:B3:9:LYS:HG3	2.19	0.42
3:C3:293:ILE:HD12	3:C3:302:LEU:O	2.19	0.42
2:B4:17:ILE:O	2:B4:21:ARG:HD2	2.19	0.42
3:C5:229:GLU:HG2	3:C5:230:LEU:N	2.33	0.42
3:C5:260:GLU:HA	4:D5:72:ARG:NH2	2.34	0.42
4:F5:106:ILE:O	4:F5:126:ILE:HG12	2.19	0.42
1:A6:547:VAL:HG23	2:B6:59:PHE:CZ	2.43	0.42
3:C6:70:PHE:HA	3:C6:75:ARG:O	2.19	0.42
4:D7:104:TYR:HB3	4:D7:131:ARG:NH2	2.34	0.42
4:E7:118:TYR:CG	4:F7:68:LEU:HD21	2.54	0.42
2:B8:158:MET:SD	2:B8:159:LEU:N	2.92	0.42
2:B8:166:GLY:O	3:C8:132:GLY:HA2	2.19	0.42
3:C9:247:ARG:CZ	4:EA:79:LEU:HB3	2.48	0.42
4:FA:134:ARG:HA	4:FA:137:ARG:HH12	1.83	0.42
1:AB:555:MET:HE1	2:BB:29:LEU:HD22	2.01	0.42
2:BB:17:ILE:O	2:BB:21:ARG:HD2	2.18	0.42
4:DB:73:MET:HE1	4:DB:78:LEU:HA	2.01	0.42
4:DB:106:ILE:HD13	4:EB:60:ILE:HD11	2.01	0.42
4:FB:106:ILE:O	4:FB:126:ILE:HG12	2.19	0.42
1:AC:552:ARG:HA	1:AC:555:MET:HE3	2.02	0.42
4:DC:98:ASP:OD1	4:DC:99:ILE:N	2.52	0.42
2:BD:85:LEU:HD22	2:BD:89:ARG:CZ	2.49	0.42
4:ED:75:ILE:HA	4:ED:78:LEU:HD12	2.01	0.42
4:FD:133:ARG:HH12	4:FD:137:ARG:NH1	2.16	0.42
1:AE:540:SER:OG	2:BE:21:ARG:HD3	2.19	0.42
4:DE:56:LEU:HD23	4:DE:56:LEU:H	1.85	0.42
4:EF:127:THR:HG23	4:EF:130:GLU:OE2	2.19	0.42
2:BG:46:GLN:HB3	2:BH:66:PHE:CE2	2.54	0.42
2:BH:46:GLN:CG	2:BI:70:ASN:HD22	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EH:76:LYS:NZ	4:FH:59:ASP:HA	2.34	0.42
4:FH:110:GLU:OE1	4:FH:121:ARG:HB3	2.19	0.42
3:CJ:70:PHE:HA	3:CJ:75:ARG:O	2.18	0.42
4:DJ:56:LEU:HD23	4:DJ:56:LEU:H	1.84	0.42
4:DJ:66:VAL:HG12	4:DJ:99:ILE:HG12	2.02	0.42
4:EJ:75:ILE:HG12	4:FJ:60:ILE:O	2.19	0.42
3:CK:159:LYS:O	3:CK:162:LEU:HG	2.19	0.42
3:CK:258:GLU:HA	4:DK:74:THR:HA	2.01	0.42
4:DK:104:TYR:HB3	4:DK:131:ARG:NH2	2.35	0.42
3:CL:70:PHE:HA	3:CL:75:ARG:O	2.19	0.42
2:BM:212:GLU:HA	2:BM:215:ILE:HG12	1.99	0.42
4:DM:130:GLU:HG3	4:DM:134:ARG:HD2	2.01	0.42
2:BN:249:ARG:NH1	2:BN:252:GLN:HB2	2.35	0.42
2:BO:98:LEU:HA	2:BO:101:ARG:NH2	2.35	0.42
3:CO:293:ILE:HD12	3:CO:302:LEU:O	2.19	0.42
1:AP:517:GLN:O	1:AP:520:GLN:HG3	2.20	0.42
2:BP:42:ALA:HB2	2:BQ:97:ILE:HG23	2.01	0.42
4:EP:118:TYR:CE2	4:FP:93:ALA:HA	2.55	0.42
3:CQ:101:ASN:HB3	3:CQ:118:PHE:HB2	2.01	0.42
3:CS:247:ARG:HH12	4:ET:79:LEU:HD22	1.84	0.42
2:BT:11:VAL:O	2:BT:15:MET:HG2	2.19	0.42
1:AU:532:MET:O	1:AU:536:ILE:HG12	2.19	0.42
2:BV:5:SER:O	2:BV:9:LYS:HG3	2.19	0.42
3:CV:64:GLN:O	3:CV:67:MET:HG3	2.19	0.42
4:FV:95:GLU:OE1	4:FV:95:GLU:N	2.51	0.42
2:BW:4:LEU:HD23	2:BW:4:LEU:HA	1.92	0.42
2:BW:209:GLN:HA	2:BW:212:GLU:CD	2.44	0.42
2:BX:203:ILE:HA	2:BX:206:MET:HE1	2.01	0.42
4:DX:106:ILE:O	4:DX:126:ILE:HG12	2.19	0.42
1:AY:517:GLN:O	1:AY:520:GLN:HG3	2.19	0.42
2:BY:103:THR:HG21	2:BY:109:THR:CG2	2.49	0.42
3:C1:259:LEU:HD21	4:F2:60:ILE:HG21	2.01	0.42
4:E1:118:TYR:CE2	4:F1:93:ALA:HA	2.54	0.42
4:D2:56:LEU:HD23	4:D2:56:LEU:H	1.84	0.42
3:C3:230:LEU:HD23	3:C3:230:LEU:HA	1.90	0.42
4:D3:56:LEU:HD23	4:D3:56:LEU:H	1.84	0.42
2:B4:96:ASP:O	2:B4:100:THR:HG23	2.19	0.42
2:B4:166:GLY:O	2:B5:190:ARG:NE	2.30	0.42
2:B4:239:LEU:HD23	2:B4:239:LEU:HA	1.86	0.42
3:C4:108:LYS:O	3:C4:175:LEU:HB2	2.19	0.42
3:C4:118:PHE:CZ	3:C4:157:MET:HG3	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:12:ILE:HD11	2:B5:47:ILE:HG12	2.01	0.42
4:E5:58:MET:SD	4:F5:75:ILE:HG13	2.59	0.42
2:B6:9:LYS:HA	2:B6:12:ILE:HD12	2.00	0.42
2:B6:166:GLY:O	3:C6:132:GLY:HA2	2.19	0.42
2:B7:196:VAL:C	2:B7:198:THR:H	2.27	0.42
4:D7:96:PRO:HB2	4:D7:108:GLN:HG3	2.02	0.42
2:B8:273:LYS:HA	2:B8:276:ARG:NH1	2.34	0.42
2:B9:166:GLY:O	3:C9:132:GLY:HA2	2.20	0.42
3:C9:57:ILE:HG21	3:C9:169:TRP:CD1	2.54	0.42
4:E9:71:THR:O	4:F9:64:LEU:HD23	2.19	0.42
3:CA:69:LEU:HB2	3:CA:77:PRO:HG3	2.02	0.42
3:CA:70:PHE:HA	3:CA:75:ARG:O	2.20	0.42
4:DA:73:MET:HE1	4:DA:78:LEU:HA	2.01	0.42
4:FA:133:ARG:HH12	4:FA:137:ARG:NH1	2.16	0.42
2:BB:161:ILE:HG22	2:BC:199:ALA:HB2	2.01	0.42
3:CB:220:PRO:HD2	3:CB:223:MET:HG3	2.02	0.42
4:EB:75:ILE:O	4:EB:79:LEU:HG	2.20	0.42
2:BC:46:GLN:CG	2:BD:70:ASN:HD22	2.33	0.42
2:BC:85:LEU:HD22	2:BC:89:ARG:CZ	2.49	0.42
3:CC:272:LEU:HB2	4:DC:60:ILE:HB	2.00	0.42
2:BD:21:ARG:O	2:BD:25:VAL:HG23	2.20	0.42
3:CD:229:GLU:HG2	3:CD:230:LEU:N	2.33	0.42
4:ED:93:ALA:HB3	4:FD:116:ASP:OD1	2.20	0.42
2:BE:131:ALA:HB1	2:BE:161:ILE:HD13	2.01	0.42
2:BE:207:LYS:HG3	2:BE:209:GLN:H	1.84	0.42
3:CE:69:LEU:HB2	3:CE:77:PRO:HG3	2.02	0.42
4:DE:129:SER:O	4:DE:133:ARG:HD3	2.19	0.42
2:BF:312:VAL:HG13	2:BF:321:MET:SD	2.60	0.42
3:CF:64:GLN:O	3:CF:67:MET:HG3	2.19	0.42
2:BG:139:ARG:HD3	2:BG:139:ARG:HA	1.79	0.42
3:CG:70:PHE:HA	3:CG:75:ARG:O	2.20	0.42
3:CG:247:ARG:CZ	4:EH:79:LEU:HB3	2.49	0.42
4:DG:98:ASP:OD1	4:DG:99:ILE:N	2.52	0.42
2:BH:308:ILE:O	2:BH:312:VAL:HG23	2.18	0.42
3:CH:301:VAL:C	3:CH:321:ILE:HG12	2.44	0.42
4:DH:66:VAL:HG12	4:DH:99:ILE:HG12	2.02	0.42
4:EH:75:ILE:HB	4:EH:76:LYS:NZ	2.35	0.42
2:BI:166:GLY:O	3:CI:132:GLY:HA2	2.19	0.42
3:CI:53:ALA:HB1	3:CI:172:ILE:HD13	2.01	0.42
3:CI:301:VAL:C	3:CI:321:ILE:HG12	2.44	0.42
4:EI:118:TYR:CG	4:FI:68:LEU:HD21	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:21:ARG:O	2:BJ:25:VAL:HG23	2.19	0.42
1:AK:549:LEU:HA	1:AK:552:ARG:HB2	2.01	0.42
2:BK:5:SER:O	2:BK:9:LYS:HG3	2.19	0.42
3:CK:70:PHE:HA	3:CK:75:ARG:O	2.19	0.42
3:CK:260:GLU:HA	4:DK:72:ARG:HH22	1.84	0.42
3:CL:296:VAL:HG23	3:CL:301:VAL:HG21	2.01	0.42
3:CM:301:VAL:C	3:CM:321:ILE:HG12	2.44	0.42
4:EM:118:TYR:CG	4:FM:68:LEU:HD21	2.54	0.42
2:BN:146:LEU:O	2:BN:154:ARG:NE	2.47	0.42
4:DN:105:LEU:HB2	4:DN:131:ARG:HE	1.84	0.42
2:BO:161:ILE:HG22	2:BP:199:ALA:HB2	2.00	0.42
4:DO:105:LEU:HB2	4:DO:131:ARG:HE	1.84	0.42
2:BP:103:THR:OG1	2:BP:105:SER:O	2.27	0.42
2:BQ:166:GLY:O	2:BR:190:ARG:NE	2.31	0.42
2:BQ:273:LYS:HA	2:BQ:276:ARG:NH1	2.34	0.42
2:BQ:308:ILE:O	2:BQ:312:VAL:HG23	2.18	0.42
1:AR:522:ARG:HD3	2:BS:64:GLU:HG3	2.01	0.42
1:AR:540:SER:OG	2:BR:21:ARG:HD3	2.19	0.42
3:CR:70:PHE:HA	3:CR:75:ARG:O	2.19	0.42
3:CS:70:PHE:HA	3:CS:75:ARG:O	2.19	0.42
2:BT:46:GLN:OE1	1:AU:549:LEU:HD11	2.20	0.42
2:BT:103:THR:HG21	2:BT:109:THR:CG2	2.49	0.42
3:CT:64:GLN:O	3:CT:67:MET:HG3	2.19	0.42
3:CT:70:PHE:HA	3:CT:75:ARG:O	2.19	0.42
3:CT:247:ARG:CZ	4:EU:79:LEU:HB3	2.49	0.42
3:CT:287:GLU:H	3:CT:287:GLU:CD	2.28	0.42
3:CU:240:ARG:N	3:CU:242:GLU:OE1	2.43	0.42
4:EU:74:THR:HG22	4:EU:75:ILE:N	2.34	0.42
4:FU:95:GLU:OE1	4:FU:95:GLU:N	2.51	0.42
1:AV:547:VAL:HG13	2:BV:25:VAL:HG22	2.01	0.42
1:AW:540:SER:OG	2:BW:21:ARG:HD3	2.19	0.42
1:AW:549:LEU:HA	1:AW:552:ARG:HB2	2.01	0.42
2:BW:103:THR:HG21	2:BW:109:THR:CG2	2.49	0.42
3:CW:159:LYS:O	3:CW:162:LEU:HG	2.20	0.42
1:AX:549:LEU:HA	1:AX:552:ARG:HB2	2.01	0.42
1:AY:532:MET:CE	2:BY:56:LEU:HD22	2.49	0.42
1:AY:534:GLN:O	1:AY:538:GLU:HG2	2.19	0.42
2:BY:207:LYS:HG3	2:BY:209:GLN:H	1.83	0.42
4:DY:105:LEU:HB2	4:DY:131:ARG:HH21	1.84	0.42
4:EY:130:GLU:OE1	4:EY:130:GLU:N	2.51	0.42
4:E2:74:THR:HA	4:F2:61:PRO:HA	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:103:THR:HG21	2:B3:109:THR:CG2	2.49	0.42
2:B3:113:MET:CE	2:B3:117:SER:HB2	2.46	0.42
4:D3:68:LEU:HA	4:D3:97:LEU:HD23	2.02	0.42
4:E3:71:THR:O	4:F3:64:LEU:HG	2.19	0.42
4:F3:95:GLU:OE1	4:F3:95:GLU:N	2.51	0.42
2:B4:62:GLU:O	2:B4:65:GLN:HG3	2.19	0.42
3:C5:64:GLN:O	3:C5:67:MET:HG3	2.19	0.42
3:C5:301:VAL:C	3:C5:321:ILE:HG12	2.44	0.42
2:B6:250:LEU:O	2:B6:254:VAL:HG12	2.19	0.42
3:C6:69:LEU:HB2	3:C6:77:PRO:HG3	2.01	0.42
2:B7:209:GLN:HA	2:B7:212:GLU:CD	2.45	0.42
3:C7:89:TYR:HD2	3:C7:195:PRO:HA	1.84	0.42
3:C7:253:GLN:OE1	4:F8:106:ILE:HB	2.20	0.42
3:C8:101:ASN:HB3	3:C8:118:PHE:HB2	2.00	0.42
3:C8:103:ASN:OD1	3:C8:182:SER:OG	2.22	0.42
3:C8:313:TYR:HB3	4:D8:68:LEU:HD21	2.01	0.42
4:E8:118:TYR:CE2	4:F8:93:ALA:HA	2.55	0.42
3:C9:101:ASN:HB3	3:C9:118:PHE:HB2	2.01	0.42
3:C9:233:ASN:HA	3:C9:234:PRO:HD3	1.93	0.42
4:D9:66:VAL:HG12	4:D9:99:ILE:HG12	2.00	0.42
1:AA:547:VAL:HG23	2:BA:59:PHE:CZ	2.45	0.42
3:CA:258:GLU:HA	4:DA:74:THR:HA	2.02	0.42
4:DA:96:PRO:HB2	4:DA:108:GLN:HG3	2.02	0.42
4:DA:98:ASP:OD1	4:DA:99:ILE:N	2.52	0.42
3:CB:253:GLN:HE22	4:FC:126:ILE:HG13	1.84	0.42
3:CB:260:GLU:HA	4:DB:72:ARG:HH22	1.85	0.42
2:BC:211:GLU:HA	2:BC:214:VAL:HB	2.01	0.42
1:AD:532:MET:O	1:AD:536:ILE:HG12	2.18	0.42
2:BD:239:LEU:HD23	2:BD:239:LEU:HA	1.87	0.42
3:CD:259:LEU:HD21	4:FE:60:ILE:HG21	2.02	0.42
4:DD:73:MET:HE1	4:DD:78:LEU:HA	2.02	0.42
2:BE:158:MET:SD	2:BE:159:LEU:N	2.92	0.42
4:DE:64:LEU:HD13	4:DE:101:ILE:HB	2.01	0.42
2:BF:12:ILE:HD11	2:BF:47:ILE:HG12	2.01	0.42
4:DF:96:PRO:HB2	4:DF:108:GLN:HG3	2.02	0.42
3:CG:301:VAL:C	3:CG:321:ILE:HG12	2.45	0.42
3:CH:229:GLU:HG2	3:CH:230:LEU:N	2.33	0.42
3:CH:230:LEU:HD23	3:CH:230:LEU:HA	1.90	0.42
3:CH:260:GLU:HA	4:DH:72:ARG:HH22	1.84	0.42
2:BJ:5:SER:O	2:BJ:9:LYS:HG3	2.20	0.42
3:CJ:271:ARG:O	3:CJ:275:ILE:HG12	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EJ:71:THR:O	4:FJ:64:LEU:HD23	2.19	0.42
1:AK:517:GLN:O	1:AK:520:GLN:HG3	2.20	0.42
2:BK:166:GLY:O	3:CK:132:GLY:HA2	2.19	0.42
3:CL:54:LEU:HB2	3:CL:231:LEU:HD23	2.02	0.42
4:DN:101:ILE:HG22	4:DN:106:ILE:HB	2.00	0.42
1:AO:549:LEU:HA	1:AO:552:ARG:HB2	2.01	0.42
4:DO:56:LEU:HD23	4:DO:56:LEU:H	1.84	0.42
4:EO:71:THR:HA	4:EO:90:ASP:OD2	2.20	0.42
1:AP:548:ALA:HA	2:BP:25:VAL:HG13	2.00	0.42
3:CP:53:ALA:HB1	3:CP:172:ILE:HD13	2.02	0.42
3:CP:229:GLU:HG2	3:CP:230:LEU:N	2.33	0.42
3:CP:301:VAL:C	3:CP:321:ILE:HG12	2.44	0.42
2:BQ:96:ASP:O	2:BQ:100:THR:HG23	2.19	0.42
4:DQ:78:LEU:HA	4:DQ:81:LEU:HD23	2.00	0.42
3:CR:107:LEU:HD11	3:CR:219:LEU:HD22	2.00	0.42
3:CR:302:LEU:HD13	3:CR:317:VAL:HG13	2.01	0.42
3:CS:240:ARG:N	3:CS:242:GLU:OE1	2.44	0.42
4:FS:106:ILE:O	4:FS:126:ILE:HG12	2.19	0.42
3:CT:53:ALA:HB1	3:CT:172:ILE:HD13	2.01	0.42
3:CT:260:GLU:HA	4:DT:72:ARG:HH22	1.84	0.42
4:DT:98:ASP:OD1	4:DT:99:ILE:N	2.52	0.42
2:BU:251:LEU:HD13	2:BU:278:MET:HE3	2.01	0.42
3:CU:64:GLN:O	3:CU:67:MET:HG3	2.19	0.42
4:DU:96:PRO:HB2	4:DU:108:GLN:HG3	2.02	0.42
4:DU:98:ASP:OD1	4:DU:99:ILE:N	2.52	0.42
4:EU:75:ILE:HA	4:EU:78:LEU:HD12	2.01	0.42
4:EU:127:THR:HG23	4:EU:130:GLU:OE2	2.19	0.42
4:EV:75:ILE:HB	4:EV:76:LYS:NZ	2.35	0.42
2:BW:166:GLY:O	3:CW:132:GLY:HA2	2.19	0.42
2:BX:14:LEU:HD13	2:BX:17:ILE:HD11	2.01	0.42
3:CX:229:GLU:HG2	3:CX:230:LEU:N	2.33	0.42
3:CX:234:PRO:O	3:CX:236:LEU:N	2.47	0.42
3:CX:247:ARG:CZ	4:EY:79:LEU:HB3	2.49	0.42
4:DX:96:PRO:HB2	4:DX:108:GLN:HG3	2.02	0.42
2:BY:5:SER:O	2:BY:9:LYS:HG3	2.19	0.42
3:C1:272:LEU:HB2	4:D1:60:ILE:HB	2.02	0.42
4:D1:96:PRO:HB2	4:D1:108:GLN:HG3	2.02	0.42
4:E1:75:ILE:HG12	4:F1:60:ILE:O	2.19	0.42
1:A2:517:GLN:O	1:A2:520:GLN:HG3	2.20	0.42
3:C2:301:VAL:C	3:C2:321:ILE:HG12	2.45	0.42
4:D3:98:ASP:OD1	4:D3:99:ILE:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D3:129:SER:O	4:D3:133:ARG:HD3	2.19	0.42
4:E3:58:MET:SD	4:F3:75:ILE:HG13	2.60	0.42
2:B4:113:MET:CE	2:B4:117:SER:HB2	2.45	0.42
3:C4:70:PHE:HA	3:C4:75:ARG:O	2.20	0.42
4:E4:118:TYR:CE2	4:F4:93:ALA:HA	2.54	0.42
1:A5:532:MET:SD	1:A5:532:MET:C	3.03	0.42
4:E5:75:ILE:HB	4:E5:76:LYS:NZ	2.34	0.42
2:B6:161:ILE:HG22	2:B7:199:ALA:HB2	2.01	0.42
2:B7:245:ARG:NH1	2:B7:249:ARG:HB2	2.34	0.42
3:C7:258:GLU:HA	4:D7:74:THR:HA	2.01	0.42
3:C7:271:ARG:O	3:C7:275:ILE:HG12	2.19	0.42
4:E9:76:LYS:HZ1	4:F9:58:MET:C	2.20	0.42
4:E9:118:TYR:CG	4:F9:68:LEU:HD21	2.54	0.42
3:CA:53:ALA:HB1	3:CA:172:ILE:HD13	2.02	0.42
4:DB:98:ASP:OD1	4:DB:99:ILE:N	2.52	0.42
4:EB:58:MET:SD	4:FB:75:ILE:HG13	2.59	0.42
4:EB:131:ARG:HA	4:EB:134:ARG:HH11	1.82	0.42
2:BC:171:ALA:HB1	3:CC:131:PHE:CE1	2.54	0.42
3:CC:260:GLU:HA	4:DC:72:ARG:NH2	2.33	0.42
4:EC:71:THR:O	4:FC:64:LEU:HD23	2.19	0.42
1:AD:558:ASP:OD1	2:BD:6:GLY:HA3	2.19	0.42
3:CD:56:ILE:HD11	3:CE:188:PHE:CD1	2.54	0.42
1:AE:551:ILE:HD11	2:BE:29:LEU:HD11	2.01	0.42
2:BE:46:GLN:CD	2:BF:70:ASN:HD22	2.27	0.42
4:EE:118:TYR:CE2	4:FE:93:ALA:HA	2.55	0.42
1:AF:536:ILE:HA	1:AF:539:MET:HE3	2.01	0.42
3:CF:313:TYR:HB3	4:DF:68:LEU:HD21	2.01	0.42
3:CG:38:TYR:HB2	4:EG:113:VAL:HB	2.02	0.42
3:CG:169:TRP:HH2	3:CG:231:LEU:HD11	1.83	0.42
4:DG:64:LEU:HD13	4:DG:101:ILE:HB	2.01	0.42
4:EG:74:THR:HG22	4:EG:75:ILE:N	2.34	0.42
1:AH:532:MET:SD	1:AH:532:MET:C	3.03	0.42
4:DH:129:SER:O	4:DH:133:ARG:HD3	2.19	0.42
4:EH:118:TYR:CG	4:FH:68:LEU:HD21	2.55	0.42
1:AI:555:MET:HA	1:AI:558:ASP:OD2	2.19	0.42
2:BI:46:GLN:HE21	2:BJ:68:ALA:H	1.65	0.42
2:BI:98:LEU:HA	2:BI:101:ARG:NH2	2.34	0.42
3:CI:229:GLU:HG2	3:CI:230:LEU:N	2.33	0.42
3:CI:259:LEU:HD21	4:FJ:60:ILE:HG21	2.02	0.42
1:AJ:555:MET:SD	2:BJ:33:GLU:HB3	2.60	0.42
3:CK:108:LYS:O	3:CK:175:LEU:HB2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CK:179:TYR:OH	3:CK:182:SER:OG	2.25	0.42
4:DK:130:GLU:HG3	4:DK:134:ARG:HD2	2.00	0.42
4:FK:110:GLU:OE1	4:FK:121:ARG:HB3	2.20	0.42
2:BL:246:SER:O	2:BL:250:LEU:HD23	2.20	0.42
4:DL:56:LEU:H	4:DL:56:LEU:HD23	1.84	0.42
3:CM:260:GLU:HA	4:DM:72:ARG:HH22	1.84	0.42
2:BN:103:THR:HG21	2:BN:109:THR:CG2	2.49	0.42
4:DN:56:LEU:HD23	4:DN:56:LEU:H	1.84	0.42
1:AO:540:SER:OG	2:BO:21:ARG:HD3	2.19	0.42
3:CO:38:TYR:HB2	4:EO:113:VAL:HB	2.02	0.42
3:CO:247:ARG:HH22	4:EP:79:LEU:HD13	1.84	0.42
4:DO:73:MET:HE1	4:DO:78:LEU:HA	2.00	0.42
4:DO:104:TYR:HB3	4:DO:131:ARG:NH2	2.34	0.42
3:CP:279:LYS:HA	3:CP:279:LYS:HD3	1.84	0.42
4:EP:130:GLU:OE1	4:EP:130:GLU:N	2.52	0.42
3:CQ:247:ARG:HH12	4:ER:79:LEU:HD22	1.84	0.42
2:BR:26:PHE:HD1	2:BR:29:LEU:HD12	1.84	0.42
4:DR:96:PRO:HB2	4:DR:108:GLN:HG3	2.02	0.42
2:BT:81:LEU:HD12	2:BT:94:LEU:HG	2.01	0.42
2:BT:158:MET:HE3	2:BU:214:VAL:CG1	2.40	0.42
3:CT:179:TYR:OH	3:CT:182:SER:OG	2.25	0.42
4:DT:79:LEU:HD23	4:DT:80:ARG:HH21	1.84	0.42
4:ET:117:LYS:HA	4:ET:117:LYS:HD2	1.71	0.42
2:BU:26:PHE:HD1	2:BU:29:LEU:HD12	1.85	0.42
3:CU:229:GLU:HG2	3:CU:230:LEU:N	2.33	0.42
3:CU:267:ASP:OD1	4:DU:63:LYS:HD2	2.20	0.42
4:EU:117:LYS:HD2	4:EU:117:LYS:HA	1.71	0.42
3:CV:260:GLU:HA	4:DV:72:ARG:HH22	1.84	0.42
4:DV:101:ILE:HG22	4:DV:106:ILE:HB	2.01	0.42
2:BW:158:MET:SD	2:BW:158:MET:C	3.03	0.42
3:CW:229:GLU:HG2	3:CW:230:LEU:N	2.33	0.42
4:DW:98:ASP:OD1	4:DW:99:ILE:N	2.53	0.42
1:A1:532:MET:SD	1:A1:532:MET:C	3.03	0.42
3:C1:230:LEU:HD23	3:C1:230:LEU:HA	1.90	0.42
4:E2:118:TYR:CE2	4:F2:93:ALA:HA	2.55	0.42
1:A3:517:GLN:O	1:A3:520:GLN:HG3	2.19	0.42
4:E3:68:LEU:HD12	4:E3:97:LEU:HD21	2.01	0.42
4:E3:75:ILE:HB	4:E3:76:LYS:NZ	2.35	0.42
3:C4:301:VAL:C	3:C4:321:ILE:HG12	2.45	0.42
4:D4:98:ASP:OD1	4:D4:99:ILE:N	2.53	0.42
2:B5:43:ASN:HB3	2:B6:101:ARG:NH2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:57:ILE:HG21	3:C5:169:TRP:CD1	2.55	0.42
4:D5:98:ASP:OD1	4:D5:99:ILE:N	2.53	0.42
4:F5:95:GLU:OE1	4:F5:95:GLU:N	2.51	0.42
2:B6:26:PHE:CD2	2:B7:84:ALA:HB1	2.55	0.42
4:F6:116:ASP:OD2	4:F6:116:ASP:O	2.38	0.42
2:B7:250:LEU:O	2:B7:254:VAL:HG12	2.20	0.42
3:C7:250:LEU:HD21	4:E8:78:LEU:O	2.19	0.42
4:D7:98:ASP:OD1	4:D7:99:ILE:N	2.53	0.42
4:E7:74:THR:HG22	4:E7:75:ILE:N	2.35	0.42
4:F7:95:GLU:OE1	4:F7:95:GLU:N	2.51	0.42
1:A8:523:ALA:HA	1:A8:526:ARG:HG2	2.02	0.42
2:B8:264:LYS:NZ	2:B8:294:GLY:O	2.48	0.42
3:C9:127:VAL:HG22	3:C9:153:VAL:HG21	2.01	0.42
4:D9:64:LEU:HD13	4:D9:101:ILE:HB	2.02	0.42
4:F9:95:GLU:OE1	4:F9:95:GLU:N	2.51	0.42
2:BA:4:LEU:HD23	2:BA:4:LEU:HA	1.90	0.42
3:CA:101:ASN:HB3	3:CA:118:PHE:HB2	2.00	0.42
3:CA:313:TYR:HB3	4:DA:68:LEU:HD21	2.01	0.42
1:AB:540:SER:OG	2:BB:21:ARG:HD3	2.19	0.42
4:EC:131:ARG:HA	4:EC:134:ARG:NH1	2.35	0.42
2:BD:10:SER:HA	2:BD:13:LEU:HD12	2.02	0.42
3:CD:260:GLU:HA	4:DD:72:ARG:HH22	1.85	0.42
4:DD:108:GLN:HB3	4:DD:124:ASP:OD1	2.20	0.42
2:BE:21:ARG:O	2:BE:25:VAL:HG23	2.20	0.42
4:DF:56:LEU:HD23	4:DF:56:LEU:H	1.84	0.42
4:DF:129:SER:O	4:DF:133:ARG:HD3	2.20	0.42
3:CH:259:LEU:HD21	4:FI:60:ILE:HG21	2.02	0.42
4:DH:105:LEU:HB2	4:DH:131:ARG:HE	1.84	0.42
4:EI:76:LYS:HA	4:EI:76:LYS:HD3	1.91	0.42
3:CJ:38:TYR:HB2	4:EJ:113:VAL:HB	2.02	0.42
3:CJ:301:VAL:C	3:CJ:321:ILE:HG12	2.45	0.42
4:DK:66:VAL:HG12	4:DK:99:ILE:HG12	2.02	0.42
4:DK:73:MET:HE1	4:DK:78:LEU:HA	2.00	0.42
4:DK:101:ILE:HG22	4:DK:106:ILE:HB	2.01	0.42
4:EK:73:MET:SD	4:EK:77:GLU:HB2	2.60	0.42
3:CL:267:ASP:OD1	4:DL:63:LYS:HD2	2.20	0.42
3:CL:274:GLN:HG3	3:CL:277:LYS:HE3	2.02	0.42
4:DL:105:LEU:HB2	4:DL:131:ARG:HE	1.85	0.42
1:AN:522:ARG:HD3	2:BO:64:GLU:HG3	2.00	0.42
2:BN:158:MET:HG3	2:BN:159:LEU:N	2.34	0.42
3:CN:229:GLU:HG2	3:CN:230:LEU:N	2.33	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DO:98:ASP:OD1	4:DO:99:ILE:N	2.52	0.42
4:EO:75:ILE:O	4:EO:78:LEU:HB2	2.20	0.42
3:CP:69:LEU:HB2	3:CP:77:PRO:HG3	2.01	0.42
2:BQ:4:LEU:HD11	2:BQ:51:GLN:HB3	2.01	0.42
2:BQ:209:GLN:HA	2:BQ:212:GLU:CD	2.45	0.42
3:CQ:64:GLN:O	3:CQ:67:MET:HG3	2.18	0.42
3:CQ:69:LEU:HB2	3:CQ:77:PRO:HG3	2.01	0.42
2:BR:103:THR:HG21	2:BR:109:THR:CG2	2.49	0.42
2:BR:167:VAL:HG13	2:BR:172:LEU:HD23	2.02	0.42
4:DR:64:LEU:HD13	4:DR:101:ILE:HB	2.00	0.42
3:CS:69:LEU:HB2	3:CS:77:PRO:HG3	2.02	0.42
4:DS:64:LEU:HD13	4:DS:101:ILE:HB	2.01	0.42
4:ET:74:THR:HG22	4:ET:75:ILE:N	2.35	0.42
4:FT:108:GLN:OE1	4:FT:134:ARG:NH2	2.52	0.42
1:AV:532:MET:CE	2:BV:56:LEU:HD22	2.49	0.42
2:BV:10:SER:O	2:BV:14:LEU:HD23	2.20	0.42
3:CV:70:PHE:HA	3:CV:75:ARG:O	2.19	0.42
3:CV:302:LEU:HD13	3:CV:317:VAL:HG13	2.01	0.42
3:CV:313:TYR:HB3	4:DV:68:LEU:HD21	2.01	0.42
4:DV:56:LEU:H	4:DV:56:LEU:HD23	1.85	0.42
4:DV:98:ASP:OD1	4:DV:99:ILE:N	2.53	0.42
3:CW:271:ARG:O	3:CW:275:ILE:HG12	2.20	0.42
2:BX:17:ILE:O	2:BX:21:ARG:HD2	2.20	0.42
2:BX:250:LEU:HD21	2:BX:321:MET:SD	2.59	0.42
4:FY:106:ILE:O	4:FY:126:ILE:HG12	2.19	0.42
2:B1:11:VAL:O	2:B1:15:MET:HG2	2.19	0.42
4:D1:98:ASP:OD1	4:D1:99:ILE:N	2.53	0.42
4:E1:75:ILE:O	4:E1:79:LEU:HG	2.19	0.42
4:E1:79:LEU:HD22	3:CY:247:ARG:HH12	1.84	0.42
1:A2:532:MET:SD	1:A2:532:MET:C	3.03	0.42
2:B2:244:ASP:HA	2:B2:247:ILE:HD12	2.02	0.42
3:C2:271:ARG:O	3:C2:275:ILE:HG12	2.20	0.42
1:A3:522:ARG:HD3	2:B4:64:GLU:HG3	2.01	0.42
2:B3:158:MET:O	2:B3:161:ILE:HB	2.20	0.42
2:B3:273:LYS:HA	2:B3:276:ARG:NH1	2.35	0.42
3:C3:101:ASN:HB3	3:C3:118:PHE:HB2	2.02	0.42
4:E3:75:ILE:HA	4:E3:78:LEU:HD12	2.01	0.42
4:E4:130:GLU:OE1	4:E4:130:GLU:N	2.53	0.42
2:B5:41:MET:SD	2:B6:77:LEU:HD13	2.60	0.42
4:D5:66:VAL:HG12	4:D5:99:ILE:HG12	2.01	0.42
2:B6:46:GLN:HE22	2:B7:68:ALA:C	2.28	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:169:TRP:HH2	3:C6:231:LEU:HD11	1.84	0.42
3:C6:313:TYR:HB3	4:D6:68:LEU:HD21	2.00	0.42
4:D6:130:GLU:HG3	4:D6:134:ARG:HD2	2.01	0.42
3:C7:38:TYR:HB2	4:E7:113:VAL:HB	2.02	0.42
3:C8:69:LEU:HB2	3:C8:77:PRO:HG3	2.01	0.42
4:D8:66:VAL:HG12	4:D8:99:ILE:HG12	2.01	0.42
4:D8:98:ASP:OD1	4:D8:99:ILE:N	2.53	0.42
2:B9:146:LEU:O	2:B9:154:ARG:NE	2.45	0.42
2:B9:207:LYS:HG3	2:B9:209:GLN:H	1.83	0.42
4:E9:106:ILE:HD12	4:E9:125:ILE:HD11	2.01	0.42
2:BA:273:LYS:HA	2:BA:276:ARG:NH1	2.35	0.42
4:DA:66:VAL:HG12	4:DA:99:ILE:HG12	2.00	0.42
4:DA:106:ILE:O	4:DA:126:ILE:HG12	2.20	0.42
1:AB:544:PRO:HA	1:AB:547:VAL:HG12	2.02	0.42
2:BB:5:SER:O	2:BB:9:LYS:HG3	2.20	0.42
2:BB:166:GLY:O	3:CB:132:GLY:HA2	2.20	0.42
4:DB:66:VAL:HG12	4:DB:99:ILE:HG12	2.01	0.42
4:FC:133:ARG:HH12	4:FC:137:ARG:NH1	2.18	0.42
3:CE:70:PHE:HA	3:CE:75:ARG:O	2.20	0.42
2:BF:5:SER:O	2:BF:9:LYS:HG3	2.20	0.42
2:BF:26:PHE:CD2	2:BG:84:ALA:HB1	2.55	0.42
2:BF:246:SER:HB3	2:BF:321:MET:HE3	2.02	0.42
3:CF:259:LEU:HD21	4:FG:60:ILE:HG21	2.02	0.42
4:DF:98:ASP:OD1	4:DF:99:ILE:N	2.52	0.42
2:BG:161:ILE:O	2:BH:195:GLY:HA2	2.20	0.42
3:CG:313:TYR:HB3	4:DG:68:LEU:HD21	2.01	0.42
2:BH:242:VAL:O	2:BH:246:SER:OG	2.31	0.42
3:CH:56:ILE:HD11	3:CI:188:PHE:CD1	2.54	0.42
3:CH:279:LYS:HD3	3:CH:279:LYS:HA	1.83	0.42
3:CH:302:LEU:HD13	3:CH:317:VAL:HG13	2.01	0.42
2:BI:11:VAL:O	2:BI:15:MET:HG2	2.18	0.42
2:BJ:111:ASN:CG	2:BJ:138:LYS:H	2.28	0.42
4:EJ:75:ILE:HG13	4:FJ:58:MET:HG2	2.01	0.42
3:CK:169:TRP:HH2	3:CK:231:LEU:HD11	1.84	0.42
1:AL:517:GLN:O	1:AL:520:GLN:HG3	2.20	0.42
1:AL:532:MET:SD	1:AL:532:MET:C	3.03	0.42
2:BL:17:ILE:O	2:BL:21:ARG:HD2	2.20	0.42
3:CL:169:TRP:HH2	3:CL:231:LEU:HD11	1.85	0.42
3:CL:301:VAL:C	3:CL:321:ILE:HG12	2.45	0.42
4:EL:118:TYR:CE2	4:FL:93:ALA:HA	2.55	0.42
3:CM:38:TYR:HB2	4:EM:113:VAL:HB	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:548:ALA:HA	2:BN:25:VAL:HG13	2.02	0.42
2:BN:5:SER:O	2:BN:9:LYS:HG3	2.20	0.42
4:EN:74:THR:HA	4:FN:61:PRO:HA	2.01	0.42
4:EN:93:ALA:HB3	4:FN:116:ASP:OD1	2.19	0.42
4:FN:95:GLU:OE1	4:FN:95:GLU:N	2.51	0.42
3:CO:169:TRP:HH2	3:CO:231:LEU:HD11	1.85	0.42
3:CO:267:ASP:OD1	4:DO:63:LYS:HD2	2.20	0.42
3:CP:64:GLN:O	3:CP:67:MET:HG3	2.19	0.42
4:DP:98:ASP:OD1	4:DP:99:ILE:N	2.52	0.42
4:DP:101:ILE:HD13	4:EP:60:ILE:HD13	2.02	0.42
1:AQ:549:LEU:HA	1:AQ:552:ARG:HB2	2.02	0.42
2:BQ:158:MET:SD	2:BQ:158:MET:C	3.03	0.42
3:CQ:53:ALA:HB1	3:CQ:172:ILE:HD13	2.02	0.42
4:EQ:118:TYR:CE2	4:FQ:93:ALA:HA	2.55	0.42
4:DR:98:ASP:OD1	4:DR:99:ILE:N	2.53	0.42
4:FR:95:GLU:OE1	4:FR:95:GLU:N	2.51	0.42
4:ES:73:MET:SD	4:ES:77:GLU:HB2	2.60	0.42
4:ES:76:LYS:HZ1	4:FS:58:MET:C	2.23	0.42
1:AT:532:MET:SD	1:AT:532:MET:C	3.03	0.42
3:CT:301:VAL:C	3:CT:321:ILE:HG12	2.45	0.42
4:DT:56:LEU:H	4:DT:56:LEU:HD23	1.84	0.42
4:ET:68:LEU:HD12	4:ET:97:LEU:HD21	2.01	0.42
4:ET:71:THR:O	4:FT:64:LEU:HG	2.20	0.42
4:ET:118:TYR:CE2	4:FT:93:ALA:HA	2.55	0.42
3:CU:301:VAL:C	3:CU:321:ILE:HG12	2.45	0.42
2:BV:41:MET:HA	2:BV:44:VAL:HB	2.01	0.42
3:CV:260:GLU:HA	4:DV:72:ARG:NH2	2.33	0.42
1:AW:517:GLN:O	1:AW:520:GLN:HG3	2.19	0.42
3:CW:64:GLN:O	3:CW:67:MET:HG3	2.19	0.42
2:BX:14:LEU:O	2:BY:76:TYR:OH	2.33	0.42
3:CY:54:LEU:HD23	3:CY:84:ILE:HD13	2.01	0.42
4:DY:130:GLU:HG3	4:DY:134:ARG:HD2	2.02	0.42
4:EY:71:THR:O	4:FY:64:LEU:HD23	2.19	0.42
4:F1:64:LEU:HD23	4:F1:64:LEU:H	1.85	0.42
2:B2:46:GLN:CD	2:B3:70:ASN:HD22	2.28	0.42
3:C2:70:PHE:HA	3:C2:75:ARG:O	2.19	0.42
3:C2:101:ASN:HB3	3:C2:118:PHE:HB2	2.02	0.42
3:C3:64:GLN:O	3:C3:67:MET:HG3	2.19	0.42
3:C3:108:LYS:O	3:C3:175:LEU:HB2	2.19	0.42
3:C3:152:ARG:HA	3:C3:152:ARG:HD2	1.84	0.42
2:B4:19:GLU:OE1	2:B5:80:VAL:HG23	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:95:GLU:OE1	4:F4:95:GLU:N	2.52	0.42
3:C5:54:LEU:HB2	3:C5:231:LEU:HD23	2.01	0.42
3:C6:54:LEU:HB2	3:C6:231:LEU:HD23	2.00	0.42
3:C6:233:ASN:HA	3:C6:234:PRO:HD3	1.93	0.42
4:D6:98:ASP:OD1	4:D6:99:ILE:N	2.53	0.42
4:D6:129:SER:O	4:D6:133:ARG:HD3	2.19	0.42
4:DA:56:LEU:HD23	4:DA:56:LEU:H	1.84	0.42
3:CB:253:GLN:NE2	4:FC:126:ILE:O	2.52	0.42
4:EB:118:TYR:CE2	4:FB:93:ALA:HA	2.55	0.42
2:BC:5:SER:O	2:BC:9:LYS:HG3	2.20	0.42
4:FC:64:LEU:HD23	4:FC:64:LEU:H	1.85	0.42
3:CD:260:GLU:HA	4:DD:72:ARG:NH2	2.34	0.42
1:AE:517:GLN:O	1:AE:520:GLN:HG3	2.19	0.42
2:BE:167:VAL:HG13	2:BE:172:LEU:HD23	2.02	0.42
4:EE:75:ILE:HB	4:EE:76:LYS:NZ	2.35	0.42
2:BF:196:VAL:C	2:BF:198:THR:H	2.27	0.42
4:EF:76:LYS:NZ	4:FF:59:ASP:HA	2.35	0.42
4:DG:66:VAL:HG12	4:DG:99:ILE:HG12	2.02	0.42
4:DG:129:SER:O	4:DG:133:ARG:HD3	2.20	0.42
1:AH:523:ALA:HA	1:AH:526:ARG:HG2	2.02	0.42
3:CI:38:TYR:HB2	4:EI:113:VAL:HB	2.02	0.42
3:CI:302:LEU:HD13	3:CI:317:VAL:HG13	2.02	0.42
2:BJ:196:VAL:C	2:BJ:198:THR:H	2.27	0.42
3:CJ:250:LEU:HD21	4:EK:78:LEU:O	2.19	0.42
4:EK:127:THR:HG23	4:EK:130:GLU:OE2	2.20	0.42
2:BL:250:LEU:CD2	2:BL:321:MET:HE1	2.50	0.42
3:CL:260:GLU:HA	4:DL:72:ARG:NH2	2.34	0.42
4:EL:75:ILE:HB	4:EL:76:LYS:NZ	2.35	0.42
2:BM:5:SER:O	2:BM:9:LYS:HG3	2.20	0.42
3:CM:233:ASN:HA	3:CM:234:PRO:HD3	1.93	0.42
4:EM:118:TYR:CE2	4:FM:93:ALA:HA	2.55	0.42
2:BN:159:LEU:HB3	3:CN:137:PHE:CE2	2.54	0.42
4:DN:104:TYR:HB3	4:DN:131:ARG:NH2	2.34	0.42
4:EN:118:TYR:CG	4:FN:68:LEU:HD21	2.54	0.42
2:BO:245:ARG:NH1	2:BO:249:ARG:HB2	2.34	0.42
4:FO:95:GLU:OE1	4:FO:95:GLU:N	2.51	0.42
2:BP:234:PHE:CE2	2:BP:309:LEU:HD22	2.55	0.42
3:CP:70:PHE:HA	3:CP:75:ARG:O	2.19	0.42
2:BQ:10:SER:HA	2:BQ:13:LEU:HD12	2.02	0.42
1:AR:555:MET:HE1	2:BR:29:LEU:HD22	2.02	0.42
3:CR:64:GLN:O	3:CR:67:MET:HG3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CR:260:GLU:HA	4:DR:72:ARG:NH2	2.34	0.42
4:ER:75:ILE:HB	4:ER:76:LYS:HZ2	1.85	0.42
4:ER:118:TYR:CE2	4:FR:93:ALA:HA	2.54	0.42
1:AT:517:GLN:O	1:AT:520:GLN:HG3	2.20	0.42
3:CT:258:GLU:HA	4:DT:74:THR:HG22	2.02	0.42
2:BV:167:VAL:HG13	2:BV:172:LEU:HD23	2.01	0.42
1:AW:532:MET:SD	1:AW:532:MET:C	3.03	0.42
4:EW:118:TYR:CE2	4:FW:93:ALA:HA	2.55	0.42
1:AX:547:VAL:HG13	2:BX:25:VAL:HG22	2.01	0.42
3:CX:267:ASP:OD1	4:DX:63:LYS:HD2	2.20	0.42
4:DX:66:VAL:HG12	4:DX:99:ILE:HG12	2.01	0.42
4:FX:106:ILE:O	4:FX:126:ILE:HG12	2.19	0.42
2:B1:253:GLU:HG3	2:B1:315:LEU:HD11	2.02	0.42
3:C1:64:GLN:O	3:C1:67:MET:HG3	2.19	0.42
3:C1:279:LYS:HA	3:C1:279:LYS:HD3	1.82	0.42
3:C1:302:LEU:HD13	3:C1:317:VAL:HG13	2.02	0.42
4:D1:56:LEU:HD23	4:D1:56:LEU:H	1.84	0.42
4:D2:102:ASN:HB2	4:E2:61:PRO:HG2	2.01	0.42
4:E2:117:LYS:HD2	4:E2:117:LYS:HA	1.71	0.42
3:C4:258:GLU:HA	4:D4:74:THR:HA	2.02	0.42
3:C4:271:ARG:O	3:C4:275:ILE:HG12	2.20	0.42
3:C5:38:TYR:HB2	4:E5:113:VAL:HB	2.02	0.42
4:D5:96:PRO:HB2	4:D5:108:GLN:HG3	2.02	0.42
2:B6:13:LEU:HD13	2:B6:59:PHE:CD1	2.55	0.42
3:C6:247:ARG:CZ	4:E7:79:LEU:HB3	2.50	0.42
2:B7:166:GLY:O	3:C7:132:GLY:HA2	2.19	0.42
3:C8:38:TYR:HB2	4:E8:113:VAL:HB	2.02	0.42
1:A9:523:ALA:HA	1:A9:526:ARG:HG2	2.02	0.42
1:A9:558:ASP:OD1	2:B9:6:GLY:HA3	2.19	0.42
2:B9:103:THR:HG21	2:B9:109:THR:CG2	2.49	0.42
4:D9:98:ASP:OD1	4:D9:99:ILE:N	2.53	0.42
2:BA:1:MET:HA	2:BA:51:GLN:HE22	1.85	0.42
4:EA:118:TYR:CG	4:FA:68:LEU:HD21	2.54	0.42
4:FA:106:ILE:O	4:FA:126:ILE:HG12	2.20	0.42
1:AB:516:GLU:HA	1:AB:519:GLN:HG2	2.02	0.42
2:BB:97:ILE:HG22	2:BB:101:ARG:HH12	1.84	0.42
3:CB:69:LEU:HB2	3:CB:77:PRO:HG3	2.02	0.42
3:CB:136:ARG:HG3	3:CB:137:PHE:HD1	1.85	0.42
3:CB:260:GLU:HA	4:DB:72:ARG:NH2	2.34	0.42
3:CB:286:ILE:HG13	3:CB:287:GLU:O	2.20	0.42
1:AC:523:ALA:HA	1:AC:526:ARG:HG2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:532:MET:SD	1:AC:532:MET:C	3.03	0.42
2:BC:166:GLY:O	2:BD:190:ARG:NE	2.31	0.42
3:CC:260:GLU:HA	4:DC:72:ARG:HH22	1.84	0.42
2:BD:97:ILE:HG22	2:BD:101:ARG:HH12	1.85	0.42
3:CD:301:VAL:C	3:CD:321:ILE:HG12	2.44	0.42
4:DD:101:ILE:HG22	4:DD:106:ILE:HB	2.01	0.42
1:AE:532:MET:SD	1:AE:532:MET:C	3.03	0.42
4:EE:127:THR:HG23	4:EE:130:GLU:OE2	2.20	0.42
1:AF:532:MET:SD	1:AF:532:MET:C	3.03	0.42
3:CF:272:LEU:HB2	4:DF:60:ILE:HB	2.00	0.42
3:CF:302:LEU:HD13	3:CF:317:VAL:HG13	2.02	0.42
4:DF:105:LEU:HB2	4:DF:131:ARG:HE	1.85	0.42
3:CG:69:LEU:HB2	3:CG:77:PRO:HG3	2.02	0.42
4:EG:71:THR:O	4:FG:64:LEU:HD23	2.20	0.42
4:FG:116:ASP:O	4:FG:116:ASP:OD1	2.38	0.42
1:AH:516:GLU:HA	1:AH:519:GLN:HG2	2.02	0.42
2:BH:5:SER:O	2:BH:9:LYS:HG3	2.20	0.42
3:CH:57:ILE:HG21	3:CH:169:TRP:CD1	2.55	0.42
4:DH:98:ASP:OD1	4:DH:99:ILE:N	2.52	0.42
4:EH:74:THR:HG22	4:EH:75:ILE:N	2.35	0.42
3:CI:70:PHE:HA	3:CI:75:ARG:O	2.19	0.42
3:CI:247:ARG:CZ	4:EJ:79:LEU:HB3	2.49	0.42
4:EI:93:ALA:HB3	4:FI:116:ASP:OD1	2.19	0.42
1:AJ:517:GLN:O	1:AJ:520:GLN:HG3	2.20	0.42
2:BK:26:PHE:HD1	2:BK:29:LEU:HD12	1.84	0.42
2:BK:207:LYS:HG3	2:BK:209:GLN:N	2.35	0.42
2:BL:166:GLY:O	3:CL:132:GLY:HA2	2.19	0.42
2:BL:196:VAL:C	2:BL:198:THR:H	2.27	0.42
3:CL:118:PHE:CZ	3:CL:157:MET:HG3	2.55	0.42
3:CM:159:LYS:O	3:CM:162:LEU:HG	2.20	0.42
4:EN:118:TYR:CE2	4:FN:93:ALA:HA	2.55	0.42
1:AO:517:GLN:O	1:AO:520:GLN:HG3	2.20	0.42
3:CO:258:GLU:HA	4:DO:74:THR:HA	2.01	0.42
2:BP:134:LEU:HD23	2:BP:134:LEU:HA	1.89	0.42
2:BP:167:VAL:HG13	2:BP:172:LEU:HD23	2.02	0.42
3:CP:57:ILE:HG21	3:CP:169:TRP:CD1	2.55	0.42
4:EP:68:LEU:HD12	4:EP:97:LEU:HD21	2.02	0.42
2:BQ:134:LEU:HD13	2:BQ:146:LEU:HD11	2.02	0.42
3:CQ:246:TRP:HZ2	4:FR:122:ILE:HD12	1.83	0.42
4:FQ:95:GLU:OE1	4:FQ:95:GLU:N	2.51	0.42
1:AR:517:GLN:O	1:AR:520:GLN:HG3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BR:166:GLY:O	3:CR:132:GLY:HA2	2.19	0.42
2:BT:158:MET:HE2	2:BT:158:MET:HB2	1.99	0.42
2:BT:200:ALA:HB2	2:BT:229:ILE:HG23	2.01	0.42
4:FT:95:GLU:OE1	4:FT:95:GLU:N	2.51	0.42
2:BU:17:ILE:O	2:BU:21:ARG:HD2	2.19	0.42
2:BU:139:ARG:HG3	2:BV:205:LEU:CD1	2.50	0.42
3:CU:247:ARG:HH12	4:EV:79:LEU:HD22	1.85	0.42
2:BV:17:ILE:O	2:BV:21:ARG:HD2	2.19	0.42
3:CV:271:ARG:O	3:CV:275:ILE:HG12	2.20	0.42
2:BW:245:ARG:NH1	2:BW:249:ARG:HB2	2.35	0.42
3:CW:70:PHE:HA	3:CW:75:ARG:O	2.20	0.42
3:CW:301:VAL:C	3:CW:321:ILE:HG12	2.45	0.42
3:CY:260:GLU:HA	4:DY:72:ARG:HH22	1.83	0.42
3:CY:267:ASP:OD1	4:DY:63:LYS:HD2	2.20	0.42
1:A1:555:MET:SD	2:B1:33:GLU:HB3	2.60	0.41
3:C1:101:ASN:HB3	3:C1:118:PHE:HB2	2.02	0.41
2:B2:264:LYS:NZ	2:B2:294:GLY:O	2.48	0.41
4:D2:96:PRO:HB2	4:D2:108:GLN:HG3	2.02	0.41
4:D2:98:ASP:OD1	4:D2:99:ILE:N	2.53	0.41
4:E2:71:THR:O	4:F2:64:LEU:HG	2.20	0.41
3:C3:301:VAL:C	3:C3:321:ILE:HG12	2.45	0.41
4:D4:56:LEU:HD23	4:D4:56:LEU:H	1.84	0.41
4:D4:96:PRO:HB2	4:D4:108:GLN:HG3	2.02	0.41
1:A5:516:GLU:HA	1:A5:519:GLN:HG2	2.02	0.41
1:A5:549:LEU:HA	1:A5:552:ARG:HB2	2.01	0.41
2:B5:264:LYS:NZ	2:B5:294:GLY:O	2.48	0.41
3:C5:53:ALA:HB1	3:C5:172:ILE:HD13	2.01	0.41
3:C5:233:ASN:HA	3:C5:234:PRO:HD3	1.93	0.41
4:E5:118:TYR:CE2	4:F5:93:ALA:HA	2.55	0.41
2:B6:78:ARG:HA	2:B6:94:LEU:HD11	2.02	0.41
2:B6:230:ILE:O	2:B6:233:MET:HB2	2.20	0.41
3:C6:259:LEU:HD21	4:F7:60:ILE:HG21	2.02	0.41
1:A7:540:SER:OG	2:B7:21:ARG:HD3	2.20	0.41
3:C7:265:PHE:HA	3:C7:292:ILE:HD12	2.02	0.41
4:E7:118:TYR:CE2	4:F7:93:ALA:HA	2.55	0.41
2:B8:14:LEU:HD13	2:B8:17:ILE:HD11	2.01	0.41
2:B8:139:ARG:NH1	2:B9:198:THR:HG23	2.33	0.41
3:C8:265:PHE:HA	3:C8:292:ILE:HD12	2.02	0.41
1:A9:534:GLN:O	1:A9:538:GLU:HG2	2.20	0.41
2:B9:161:ILE:O	2:BA:195:GLY:HA2	2.20	0.41
2:B9:264:LYS:NZ	2:B9:294:GLY:O	2.49	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:234:PRO:O	3:C9:236:LEU:N	2.47	0.41
1:AA:517:GLN:O	1:AA:520:GLN:HG3	2.19	0.41
4:FA:110:GLU:OE1	4:FA:121:ARG:HB3	2.20	0.41
1:AB:522:ARG:HD3	2:BC:64:GLU:HG3	2.00	0.41
1:AB:532:MET:SD	1:AB:532:MET:C	3.03	0.41
1:AB:552:ARG:HA	1:AB:555:MET:HE3	2.02	0.41
3:CB:313:TYR:HB3	4:DB:68:LEU:HD21	2.01	0.41
4:EB:68:LEU:HD12	4:EB:97:LEU:HD21	2.02	0.41
2:BC:161:ILE:O	2:BD:195:GLY:HA2	2.20	0.41
3:CC:54:LEU:HB2	3:CC:231:LEU:HD23	2.01	0.41
3:CC:69:LEU:HB2	3:CC:77:PRO:HG3	2.01	0.41
3:CC:258:GLU:HA	4:DC:74:THR:HG22	2.02	0.41
4:EC:118:TYR:CE2	4:FC:93:ALA:HA	2.54	0.41
4:FC:76:LYS:O	4:FC:79:LEU:HG	2.20	0.41
3:CD:247:ARG:CZ	4:EE:79:LEU:HB3	2.49	0.41
4:DD:66:VAL:HG12	4:DD:99:ILE:HG12	2.01	0.41
4:DD:98:ASP:OD1	4:DD:99:ILE:N	2.53	0.41
3:CE:169:TRP:HH2	3:CE:231:LEU:HD11	1.85	0.41
4:EE:71:THR:O	4:FE:64:LEU:HG	2.20	0.41
4:EF:73:MET:HE1	4:EF:78:LEU:HD23	2.01	0.41
4:EF:118:TYR:CE2	4:FF:93:ALA:HA	2.55	0.41
4:EF:119:GLY:HA2	4:FF:89:LEU:HD13	2.02	0.41
3:CH:258:GLU:HA	4:DH:74:THR:HA	2.01	0.41
3:CH:271:ARG:O	3:CH:275:ILE:HG12	2.19	0.41
3:CH:313:TYR:HB3	4:DH:68:LEU:HD21	2.01	0.41
4:DH:96:PRO:HB2	4:DH:108:GLN:HG3	2.02	0.41
1:AI:516:GLU:HA	1:AI:519:GLN:HG2	2.02	0.41
2:BI:30:SER:O	2:BI:34:VAL:HG23	2.20	0.41
2:BJ:209:GLN:HA	2:BJ:212:GLU:CD	2.44	0.41
3:CJ:230:LEU:HD23	3:CJ:230:LEU:HA	1.90	0.41
2:BK:103:THR:HG21	2:BK:109:THR:CG2	2.49	0.41
3:CK:259:LEU:HD21	4:FL:60:ILE:HG21	2.02	0.41
4:FK:64:LEU:HD23	4:FK:64:LEU:H	1.85	0.41
1:AM:517:GLN:O	1:AM:520:GLN:HG3	2.20	0.41
1:AM:547:VAL:HG13	2:BM:25:VAL:HG22	2.02	0.41
4:EM:58:MET:SD	4:FM:75:ILE:HG13	2.60	0.41
2:BN:74:ASN:O	2:BN:77:LEU:HB2	2.20	0.41
3:CN:302:LEU:HD13	3:CN:317:VAL:HG13	2.01	0.41
4:DN:96:PRO:HB2	4:DN:108:GLN:HG3	2.02	0.41
4:EN:71:THR:HB	4:FN:64:LEU:HD21	2.01	0.41
1:AO:532:MET:SD	1:AO:532:MET:C	3.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DO:66:VAL:HG12	4:DO:99:ILE:HG12	2.02	0.41
4:DO:96:PRO:HB2	4:DO:108:GLN:HG3	2.02	0.41
3:CP:38:TYR:HB2	4:EP:113:VAL:HB	2.02	0.41
3:CP:234:PRO:O	3:CP:236:LEU:N	2.44	0.41
3:CP:313:TYR:HB3	4:DP:68:LEU:HD21	2.00	0.41
4:EP:86:VAL:HA	4:FP:120:VAL:O	2.20	0.41
4:FP:95:GLU:OE1	4:FP:95:GLU:N	2.51	0.41
2:BQ:196:VAL:C	2:BQ:198:THR:H	2.27	0.41
3:CQ:237:GLU:OE2	3:CR:190:ASN:HB2	2.20	0.41
3:CQ:271:ARG:O	3:CQ:275:ILE:HG12	2.20	0.41
4:EQ:76:LYS:NZ	4:FQ:59:ASP:HA	2.34	0.41
2:BR:207:LYS:HG3	2:BR:209:GLN:H	1.85	0.41
3:CR:229:GLU:HG2	3:CR:230:LEU:N	2.34	0.41
3:CS:101:ASN:HB3	3:CS:118:PHE:HB2	2.02	0.41
4:DS:102:ASN:HB2	4:ES:61:PRO:HG2	2.02	0.41
2:BT:10:SER:O	2:BT:14:LEU:HD23	2.20	0.41
2:BT:250:LEU:O	2:BT:254:VAL:HG12	2.20	0.41
1:AV:555:MET:HE3	2:BV:37:LEU:CD2	2.51	0.41
2:BV:161:ILE:O	2:BW:195:GLY:HA2	2.20	0.41
4:EX:71:THR:HA	4:EX:90:ASP:OD2	2.20	0.41
4:EX:71:THR:O	4:FX:64:LEU:HD23	2.20	0.41
3:CY:69:LEU:HB2	3:CY:77:PRO:HG3	2.02	0.41
3:CY:271:ARG:O	3:CY:275:ILE:HG12	2.19	0.41
4:EY:74:THR:HG22	4:EY:75:ILE:N	2.35	0.41
4:EY:75:ILE:HB	4:EY:76:LYS:NZ	2.34	0.41
1:A1:558:ASP:OD1	2:B1:6:GLY:HA3	2.20	0.41
2:B1:146:LEU:O	2:B1:154:ARG:NE	2.48	0.41
2:B1:161:ILE:O	2:B2:195:GLY:HA2	2.20	0.41
3:C1:54:LEU:HB2	3:C1:231:LEU:HD23	2.00	0.41
3:C1:159:LYS:O	3:C1:162:LEU:HG	2.20	0.41
4:D1:66:VAL:HG12	4:D1:99:ILE:HG12	2.01	0.41
2:B2:5:SER:O	2:B2:9:LYS:HG3	2.20	0.41
2:B2:103:THR:HG21	2:B2:109:THR:CG2	2.49	0.41
3:C2:64:GLN:O	3:C2:67:MET:HG3	2.19	0.41
4:E2:75:ILE:HB	4:E2:76:LYS:NZ	2.35	0.41
3:C3:169:TRP:HH2	3:C3:231:LEU:HD11	1.85	0.41
3:C3:234:PRO:O	3:C3:236:LEU:N	2.45	0.41
4:E3:118:TYR:CE2	4:F3:93:ALA:HA	2.55	0.41
1:A4:549:LEU:O	1:A4:552:ARG:HB2	2.20	0.41
4:E4:74:THR:HG22	4:E4:75:ILE:N	2.35	0.41
2:B5:245:ARG:HH12	2:B5:249:ARG:HB2	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:56:ILE:HD11	3:C6:188:PHE:CD1	2.54	0.41
3:C5:253:GLN:HE22	4:F6:126:ILE:HG13	1.85	0.41
3:C5:271:ARG:O	3:C5:275:ILE:HG12	2.20	0.41
1:A6:523:ALA:HA	1:A6:526:ARG:HG2	2.02	0.41
2:B6:30:SER:O	2:B6:34:VAL:HG23	2.21	0.41
2:B7:48:SER:HB3	2:B8:66:PHE:CD1	2.55	0.41
4:D7:129:SER:O	4:D7:133:ARG:HD3	2.19	0.41
4:F8:110:GLU:OE1	4:F8:121:ARG:HB3	2.20	0.41
2:B9:167:VAL:HG13	2:B9:172:LEU:HD23	2.03	0.41
4:F9:60:ILE:HD12	4:F9:60:ILE:HA	1.97	0.41
1:AA:516:GLU:HA	1:AA:519:GLN:HG2	2.02	0.41
4:EA:86:VAL:HB	4:FA:121:ARG:HB2	2.02	0.41
1:AB:517:GLN:O	1:AB:520:GLN:HG3	2.20	0.41
4:EB:71:THR:HA	4:EB:90:ASP:OD2	2.19	0.41
4:EB:118:TYR:CG	4:FB:68:LEU:HD21	2.54	0.41
1:AC:547:VAL:HG23	2:BC:59:PHE:CZ	2.43	0.41
3:CC:38:TYR:HB2	4:EC:113:VAL:HB	2.02	0.41
3:CD:313:TYR:HB3	4:DD:68:LEU:HD21	2.01	0.41
1:AE:552:ARG:HA	1:AE:555:MET:HE3	2.01	0.41
4:DE:98:ASP:OD1	4:DE:99:ILE:N	2.53	0.41
3:CF:54:LEU:HB2	3:CF:231:LEU:HD23	2.02	0.41
4:DF:66:VAL:HG12	4:DF:99:ILE:HG12	2.01	0.41
2:BG:113:MET:CE	2:BG:117:SER:HB2	2.45	0.41
4:EH:71:THR:O	4:FH:64:LEU:HG	2.20	0.41
1:AI:532:MET:SD	1:AI:532:MET:C	3.03	0.41
3:CI:313:TYR:HB3	4:DI:68:LEU:HD21	2.01	0.41
4:EI:118:TYR:CE2	4:FI:93:ALA:HA	2.54	0.41
3:CJ:247:ARG:HH12	4:EK:79:LEU:HD22	1.85	0.41
1:AK:532:MET:SD	1:AK:532:MET:C	3.03	0.41
3:CK:246:TRP:HZ2	4:FL:122:ILE:HD12	1.84	0.41
3:CK:271:ARG:O	3:CK:275:ILE:HG12	2.19	0.41
4:EK:118:TYR:CE2	4:FK:93:ALA:HA	2.55	0.41
3:CL:260:GLU:HA	4:DL:72:ARG:HH22	1.85	0.41
4:DL:129:SER:O	4:DL:133:ARG:HD3	2.20	0.41
1:AM:516:GLU:HA	1:AM:519:GLN:HG2	2.02	0.41
3:CM:267:ASP:OD1	4:DM:63:LYS:HD2	2.20	0.41
1:AN:547:VAL:HG13	2:BN:25:VAL:HG22	2.01	0.41
2:BN:250:LEU:O	2:BN:254:VAL:HG12	2.21	0.41
3:CN:169:TRP:HH2	3:CN:231:LEU:HD11	1.85	0.41
2:BO:41:MET:HA	2:BO:44:VAL:HB	2.02	0.41
3:CO:230:LEU:HD23	3:CO:230:LEU:HA	1.91	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BP:300:GLN:O	2:BP:304:GLU:HG2	2.20	0.41
3:CP:220:PRO:HD2	3:CP:223:MET:HG3	2.02	0.41
3:CP:274:GLN:O	3:CP:278:LEU:HB2	2.21	0.41
2:BQ:53:THR:HA	2:BQ:56:LEU:HD21	2.02	0.41
2:BQ:103:THR:HG21	2:BQ:109:THR:CG2	2.49	0.41
2:BQ:249:ARG:NH1	2:BQ:252:GLN:HB2	2.35	0.41
3:CQ:247:ARG:HH22	4:ER:79:LEU:HD13	1.84	0.41
2:BR:46:GLN:NE2	2:BR:47:ILE:O	2.38	0.41
3:CR:108:LYS:O	3:CR:175:LEU:HB2	2.20	0.41
3:CR:179:TYR:OH	3:CR:182:SER:OG	2.25	0.41
3:CR:272:LEU:HB2	4:DR:60:ILE:HB	2.02	0.41
4:ER:74:THR:HA	4:FR:61:PRO:HA	2.02	0.41
1:AS:532:MET:SD	1:AS:532:MET:C	3.03	0.41
2:BS:46:GLN:CD	2:BT:70:ASN:HD22	2.25	0.41
3:CS:267:ASP:OD1	4:DS:63:LYS:HD2	2.21	0.41
3:CS:313:TYR:HB3	4:DS:68:LEU:HD21	2.01	0.41
4:DS:66:VAL:HG12	4:DS:99:ILE:HG12	2.02	0.41
4:ES:59:ASP:HA	4:FS:76:LYS:HZ1	1.84	0.41
4:DT:102:ASN:HB2	4:ET:61:PRO:HG2	2.02	0.41
2:BU:166:GLY:O	3:CU:132:GLY:HA2	2.19	0.41
3:CU:234:PRO:O	3:CU:236:LEU:N	2.44	0.41
2:BV:253:GLU:HG3	2:BV:315:LEU:HD11	2.02	0.41
3:CV:267:ASP:OD1	4:DV:63:LYS:HD2	2.21	0.41
2:BW:250:LEU:O	2:BW:254:VAL:HG12	2.20	0.41
4:DW:56:LEU:H	4:DW:56:LEU:HD23	1.84	0.41
2:BX:212:GLU:HA	2:BX:215:ILE:HG12	2.02	0.41
3:CX:69:LEU:HB2	3:CX:77:PRO:HG3	2.03	0.41
3:CX:271:ARG:O	3:CX:275:ILE:HG12	2.20	0.41
2:BY:41:MET:HB2	2:BY:41:MET:HE3	1.85	0.41
3:CY:107:LEU:HD11	3:CY:219:LEU:HD22	2.01	0.41
1:A1:555:MET:HA	1:A1:558:ASP:OD2	2.20	0.41
3:C1:253:GLN:HG3	4:F2:125:ILE:HD11	2.02	0.41
3:C1:267:ASP:OD1	4:D1:63:LYS:HD2	2.20	0.41
2:B2:250:LEU:O	2:B2:254:VAL:HG12	2.21	0.41
3:C2:260:GLU:HA	4:D2:72:ARG:HH22	1.85	0.41
4:E2:74:THR:HG22	4:E2:75:ILE:N	2.35	0.41
2:B3:17:ILE:O	2:B3:21:ARG:HD2	2.20	0.41
2:B3:158:MET:C	2:B3:158:MET:SD	3.04	0.41
2:B3:167:VAL:HG13	2:B3:172:LEU:HD23	2.03	0.41
1:A4:516:GLU:HA	1:A4:519:GLN:HG2	2.02	0.41
4:D4:66:VAL:HG12	4:D4:99:ILE:HG12	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:549:LEU:O	1:A5:552:ARG:HB2	2.21	0.41
1:A6:532:MET:SD	1:A6:532:MET:C	3.03	0.41
3:C6:86:ILE:HD13	3:C6:200:VAL:HG22	2.02	0.41
4:F6:95:GLU:OE1	4:F6:95:GLU:N	2.51	0.41
1:A7:517:GLN:O	1:A7:520:GLN:HG3	2.20	0.41
3:C7:247:ARG:CZ	4:E8:79:LEU:HB3	2.50	0.41
3:C7:293:ILE:HD12	3:C7:302:LEU:O	2.19	0.41
4:E7:71:THR:HA	4:E7:90:ASP:OD2	2.19	0.41
3:C8:258:GLU:HA	4:D8:74:THR:HA	2.02	0.41
2:B9:5:SER:O	2:B9:9:LYS:HG3	2.20	0.41
3:C9:179:TYR:OH	3:C9:182:SER:OG	2.25	0.41
2:BA:249:ARG:NH1	2:BA:252:GLN:HB2	2.35	0.41
3:CA:247:ARG:HH22	4:EB:79:LEU:HD13	1.85	0.41
3:CB:38:TYR:HB2	4:EB:113:VAL:HB	2.03	0.41
4:FB:95:GLU:OE1	4:FB:95:GLU:N	2.51	0.41
4:DC:66:VAL:HG12	4:DC:99:ILE:HG12	2.02	0.41
1:AD:517:GLN:O	1:AD:520:GLN:HG3	2.19	0.41
1:AD:523:ALA:HA	1:AD:526:ARG:HG2	2.03	0.41
3:CD:69:LEU:HB2	3:CD:77:PRO:HG3	2.02	0.41
4:DD:96:PRO:HB2	4:DD:108:GLN:HG3	2.02	0.41
3:CE:107:LEU:HD11	3:CE:219:LEU:HD22	2.01	0.41
4:DE:96:PRO:HB2	4:DE:108:GLN:HG3	2.01	0.41
4:EE:118:TYR:CG	4:FE:68:LEU:HD21	2.55	0.41
3:CG:108:LYS:O	3:CG:175:LEU:HB2	2.21	0.41
3:CH:38:TYR:HB2	4:EH:113:VAL:HB	2.03	0.41
4:EH:58:MET:SD	4:FH:75:ILE:HG13	2.61	0.41
4:EH:68:LEU:HD12	4:EH:97:LEU:HD21	2.02	0.41
3:CI:57:ILE:HG21	3:CI:169:TRP:CD1	2.55	0.41
2:BJ:167:VAL:HG13	2:BJ:172:LEU:HD23	2.02	0.41
3:CJ:313:TYR:HB3	4:DJ:68:LEU:HD21	2.01	0.41
4:DJ:98:ASP:OD1	4:DJ:99:ILE:N	2.53	0.41
3:CK:313:TYR:HB3	4:DK:68:LEU:HD21	2.01	0.41
4:EK:77:GLU:HG3	4:EK:80:ARG:NH2	2.35	0.41
2:BL:134:LEU:HD13	2:BL:146:LEU:HD11	2.02	0.41
3:CL:38:TYR:HB2	4:EL:113:VAL:HB	2.03	0.41
4:DL:73:MET:HE1	4:DL:78:LEU:HA	2.01	0.41
4:FL:71:THR:HG1	4:FL:89:LEU:HA	1.85	0.41
3:CM:258:GLU:HA	4:DM:74:THR:HA	2.01	0.41
2:BN:167:VAL:HG13	2:BN:172:LEU:HD23	2.02	0.41
3:CN:69:LEU:HB2	3:CN:77:PRO:HG3	2.02	0.41
4:DN:73:MET:HE1	4:DN:78:LEU:HA	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:75:ILE:O	4:EN:79:LEU:HG	2.20	0.41
2:BO:250:LEU:O	2:BO:254:VAL:HG12	2.20	0.41
2:BP:133:ILE:HD11	2:BP:175:LEU:HD11	2.02	0.41
2:BP:321:MET:HE2	2:BP:321:MET:HB3	1.82	0.41
4:EP:59:ASP:HA	4:FP:76:LYS:HZ1	1.85	0.41
1:AQ:547:VAL:HG13	2:BQ:25:VAL:HG22	2.01	0.41
3:CR:169:TRP:HH2	3:CR:231:LEU:HD11	1.85	0.41
2:BS:167:VAL:HG13	2:BS:172:LEU:HD23	2.02	0.41
1:AT:522:ARG:HD3	2:BU:64:GLU:HG3	2.02	0.41
2:BT:150:ASP:OD1	2:BT:153:LEU:HB3	2.21	0.41
2:BT:166:GLY:O	3:CT:132:GLY:HA2	2.19	0.41
3:CT:279:LYS:HD3	3:CT:279:LYS:HA	1.83	0.41
4:DT:101:ILE:HG22	4:DT:106:ILE:HB	2.01	0.41
3:CU:271:ARG:O	3:CU:275:ILE:HG12	2.20	0.41
1:AV:540:SER:OG	2:BV:21:ARG:HD3	2.20	0.41
3:CV:69:LEU:HB2	3:CV:77:PRO:HG3	2.02	0.41
3:CW:300:PRO:HD2	4:FW:132:MET:HE2	2.02	0.41
3:CX:108:LYS:O	3:CX:175:LEU:HB2	2.20	0.41
2:BY:264:LYS:NZ	2:BY:294:GLY:O	2.48	0.41
4:EY:106:ILE:HD12	4:EY:125:ILE:HD11	2.03	0.41
3:C1:57:ILE:HG21	3:C1:169:TRP:CD1	2.55	0.41
4:E1:74:THR:HG22	4:E1:75:ILE:N	2.35	0.41
1:A2:540:SER:OG	2:B2:21:ARG:HD3	2.20	0.41
2:B2:113:MET:SD	2:B2:118:ALA:HB2	2.61	0.41
3:C2:247:ARG:CZ	4:E3:79:LEU:HB3	2.50	0.41
3:C2:267:ASP:OD1	4:D2:63:LYS:HD2	2.20	0.41
4:D2:73:MET:HE1	4:D2:78:LEU:HA	2.02	0.41
2:B3:53:THR:HA	2:B3:56:LEU:HD21	2.01	0.41
2:B3:81:LEU:HD13	2:B3:93:LEU:HB2	2.02	0.41
2:B3:201:GLU:HA	2:B3:204:ASN:ND2	2.31	0.41
3:C3:134:ASP:OD1	3:C3:136:ARG:HG2	2.19	0.41
3:C3:240:ARG:N	3:C3:242:GLU:OE1	2.44	0.41
2:B4:158:MET:HG3	2:B4:159:LEU:N	2.35	0.41
3:C4:267:ASP:OD1	4:D4:63:LYS:HD2	2.20	0.41
4:E4:119:GLY:HA2	4:F4:89:LEU:HD13	2.02	0.41
1:A5:558:ASP:OD1	2:B5:6:GLY:HA3	2.20	0.41
2:B5:250:LEU:CD2	2:B5:321:MET:HE1	2.50	0.41
2:B6:4:LEU:HD23	2:B6:4:LEU:HA	1.91	0.41
2:B6:167:VAL:HG13	2:B6:172:LEU:HD23	2.03	0.41
3:C6:271:ARG:O	3:C6:275:ILE:HG12	2.20	0.41
4:D6:66:VAL:HG12	4:D6:99:ILE:HG12	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E6:75:ILE:HG12	4:F6:60:ILE:O	2.21	0.41
4:D7:56:LEU:H	4:D7:56:LEU:HD23	1.84	0.41
4:E7:76:LYS:HA	4:E7:76:LYS:HD3	1.95	0.41
2:B8:274:PHE:CE2	2:B8:278:MET:HE1	2.56	0.41
3:C8:179:TYR:OH	3:C8:182:SER:OG	2.25	0.41
4:F8:95:GLU:OE1	4:F8:95:GLU:N	2.51	0.41
3:C9:38:TYR:HB2	4:E9:113:VAL:HB	2.03	0.41
3:C9:313:TYR:HB3	4:D9:68:LEU:HD21	2.01	0.41
4:F9:64:LEU:HD23	4:F9:64:LEU:H	1.85	0.41
2:BA:250:LEU:O	2:BA:254:VAL:HG12	2.19	0.41
3:CA:38:TYR:HB2	4:EA:113:VAL:HB	2.03	0.41
3:CA:179:TYR:OH	3:CA:182:SER:OG	2.25	0.41
3:CA:260:GLU:HA	4:DA:72:ARG:NH2	2.36	0.41
1:AB:523:ALA:HA	1:AB:526:ARG:HG2	2.03	0.41
3:CB:101:ASN:HB3	3:CB:118:PHE:HB2	2.01	0.41
2:BD:250:LEU:O	2:BD:254:VAL:HG12	2.21	0.41
3:CD:249:ASN:HB3	4:FE:125:ILE:HD13	2.02	0.41
4:ED:118:TYR:CE2	4:FD:93:ALA:HA	2.56	0.41
2:BE:15:MET:HE1	2:BE:41:MET:SD	2.59	0.41
1:AF:517:GLN:O	1:AF:520:GLN:HG3	2.20	0.41
1:AG:516:GLU:HA	1:AG:519:GLN:HG2	2.03	0.41
2:BG:203:ILE:HG22	2:BG:211:GLU:HB2	2.02	0.41
2:BG:308:ILE:O	2:BG:312:VAL:HG23	2.19	0.41
4:EG:99:ILE:HG12	4:EG:120:VAL:HG21	2.02	0.41
2:BH:253:GLU:HG3	2:BH:315:LEU:HD11	2.01	0.41
3:CH:179:TYR:OH	3:CH:182:SER:OG	2.23	0.41
4:DI:56:LEU:H	4:DI:56:LEU:HD23	1.84	0.41
2:BJ:46:GLN:NE2	2:BK:68:ALA:O	2.33	0.41
3:CJ:101:ASN:HB3	3:CJ:118:PHE:HB2	2.02	0.41
3:CK:247:ARG:HH12	4:EL:79:LEU:HD22	1.85	0.41
3:CK:267:ASP:OD1	4:DK:63:LYS:HD2	2.20	0.41
2:BL:135:VAL:HG11	2:BM:194:GLY:HA3	2.02	0.41
3:CL:313:TYR:HB3	4:DL:68:LEU:HD21	2.02	0.41
4:DL:98:ASP:OD1	4:DL:99:ILE:N	2.53	0.41
4:EL:74:THR:HG22	4:EL:75:ILE:N	2.35	0.41
4:EM:74:THR:HA	4:FM:61:PRO:HA	2.02	0.41
4:EM:75:ILE:O	4:EM:79:LEU:HG	2.20	0.41
2:BN:274:PHE:CE2	2:BN:278:MET:HE1	2.55	0.41
4:FN:134:ARG:HA	4:FN:137:ARG:HH12	1.84	0.41
2:BO:48:SER:HB3	2:BP:66:PHE:HD1	1.85	0.41
3:CO:301:VAL:C	3:CO:321:ILE:HG12	2.45	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FO:67:GLU:HG2	4:FO:100:LEU:HD13	2.02	0.41
2:BP:5:SER:O	2:BP:9:LYS:HG3	2.21	0.41
2:BP:13:LEU:HD13	2:BP:59:PHE:CD1	2.56	0.41
3:CP:271:ARG:O	3:CP:275:ILE:HG12	2.21	0.41
2:BQ:212:GLU:HA	2:BQ:215:ILE:HG12	2.00	0.41
2:BQ:239:LEU:HD23	2:BQ:239:LEU:HA	1.85	0.41
2:BQ:250:LEU:O	2:BQ:254:VAL:HG12	2.20	0.41
2:BQ:300:GLN:O	2:BQ:304:GLU:HG2	2.20	0.41
3:CQ:38:TYR:HB2	4:EQ:113:VAL:HB	2.02	0.41
3:CQ:302:LEU:HD13	3:CQ:317:VAL:HG13	2.01	0.41
4:DQ:56:LEU:H	4:DQ:56:LEU:HD23	1.84	0.41
2:BR:13:LEU:HD13	2:BR:59:PHE:CD1	2.55	0.41
2:BR:245:ARG:NH2	2:BR:321:MET:HB3	2.32	0.41
2:BR:261:ILE:HG22	2:BR:301:VAL:HA	2.03	0.41
3:CR:38:TYR:HB2	4:ER:113:VAL:HB	2.02	0.41
3:CR:271:ARG:O	3:CR:275:ILE:HG12	2.20	0.41
4:ES:71:THR:O	4:FS:64:LEU:HG	2.20	0.41
4:ES:130:GLU:OE1	4:ES:130:GLU:N	2.52	0.41
3:CT:69:LEU:HB2	3:CT:77:PRO:HG3	2.02	0.41
3:CV:179:TYR:OH	3:CV:182:SER:OG	2.25	0.41
4:DV:66:VAL:HG12	4:DV:99:ILE:HG12	2.02	0.41
4:EV:99:ILE:HG12	4:EV:120:VAL:HG21	2.02	0.41
3:CW:279:LYS:HA	3:CW:279:LYS:HD3	1.83	0.41
1:AX:532:MET:SD	1:AX:532:MET:C	3.03	0.41
4:EX:127:THR:HG23	4:EX:130:GLU:OE2	2.20	0.41
2:BY:13:LEU:HD13	2:BY:59:PHE:CD1	2.56	0.41
2:BY:30:SER:O	2:BY:34:VAL:HG23	2.20	0.41
4:EY:118:TYR:CE2	4:FY:93:ALA:HA	2.55	0.41
3:C1:301:VAL:C	3:C1:321:ILE:HG12	2.46	0.41
3:C2:265:PHE:HA	3:C2:292:ILE:HD12	2.03	0.41
2:B3:300:GLN:O	2:B3:304:GLU:HG2	2.21	0.41
3:C3:233:ASN:HA	3:C3:234:PRO:HD3	1.93	0.41
3:C3:313:TYR:HB3	4:D3:68:LEU:HD21	2.01	0.41
2:B4:250:LEU:O	2:B4:254:VAL:HG12	2.20	0.41
3:C4:101:ASN:HB3	3:C4:118:PHE:HB2	2.03	0.41
4:E5:128:PRO:HB3	4:E5:131:ARG:HE	1.86	0.41
1:A6:516:GLU:HA	1:A6:519:GLN:HG2	2.03	0.41
3:C7:54:LEU:HB2	3:C7:231:LEU:HD23	2.01	0.41
3:C7:301:VAL:C	3:C7:321:ILE:HG12	2.45	0.41
1:A8:517:GLN:O	1:A8:520:GLN:HG3	2.20	0.41
3:C8:230:LEU:HD23	3:C8:230:LEU:HA	1.91	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:158:MET:SD	2:B9:158:MET:C	3.04	0.41
2:B9:166:GLY:O	2:BA:190:ARG:NE	2.32	0.41
3:C9:260:GLU:HA	4:D9:72:ARG:NH2	2.35	0.41
1:AA:555:MET:SD	2:BA:33:GLU:HB3	2.60	0.41
4:DA:108:GLN:HB3	4:DA:124:ASP:OD1	2.21	0.41
4:EA:118:TYR:CE2	4:FA:93:ALA:HA	2.56	0.41
2:BB:207:LYS:HG3	2:BB:209:GLN:H	1.85	0.41
2:BC:167:VAL:HG13	2:BC:172:LEU:HD23	2.03	0.41
4:FC:95:GLU:OE1	4:FC:95:GLU:N	2.51	0.41
4:FC:105:LEU:CD2	4:FC:126:ILE:HD13	2.51	0.41
4:ED:75:ILE:HG13	4:FD:58:MET:HG2	2.03	0.41
2:BE:4:LEU:HD23	2:BE:4:LEU:HA	1.90	0.41
2:BE:250:LEU:CD2	2:BE:321:MET:HE1	2.50	0.41
3:CE:233:ASN:HA	3:CE:234:PRO:HD3	1.93	0.41
4:FE:108:GLN:OE1	4:FE:134:ARG:NH2	2.54	0.41
1:AF:523:ALA:HA	1:AF:526:ARG:HG2	2.03	0.41
2:BF:201:GLU:HA	2:BF:204:ASN:HD22	1.85	0.41
4:EF:106:ILE:HD12	4:EF:125:ILE:HD11	2.03	0.41
3:CG:229:GLU:HG2	3:CG:230:LEU:N	2.33	0.41
4:DG:96:PRO:HB2	4:DG:108:GLN:HG3	2.02	0.41
4:DG:106:ILE:O	4:DG:126:ILE:HG12	2.19	0.41
4:EG:76:LYS:HZ1	4:FG:58:MET:C	2.21	0.41
4:EG:93:ALA:HB3	4:FG:116:ASP:OD1	2.21	0.41
4:EG:119:GLY:HA2	4:FG:89:LEU:HD13	2.02	0.41
3:CH:53:ALA:HB1	3:CH:172:ILE:HD13	2.02	0.41
4:DI:64:LEU:HD13	4:DI:101:ILE:HB	2.01	0.41
2:BJ:253:GLU:HG3	2:BJ:315:LEU:HD11	2.01	0.41
3:CJ:69:LEU:HB2	3:CJ:77:PRO:HG3	2.02	0.41
3:CJ:267:ASP:OD1	4:DJ:63:LYS:HD2	2.20	0.41
4:EJ:117:LYS:HA	4:EJ:117:LYS:HD2	1.71	0.41
1:AK:549:LEU:O	1:AK:552:ARG:HB2	2.21	0.41
3:CK:38:TYR:HB2	4:EK:113:VAL:HB	2.03	0.41
1:AL:516:GLU:HA	1:AL:519:GLN:HG2	2.02	0.41
4:EL:71:THR:O	4:FL:64:LEU:HD23	2.19	0.41
1:AM:532:MET:SD	1:AM:532:MET:C	3.03	0.41
4:DM:66:VAL:HG12	4:DM:99:ILE:HG12	2.03	0.41
4:DM:96:PRO:HB2	4:DM:108:GLN:HG3	2.02	0.41
1:AN:516:GLU:HA	1:AN:519:GLN:HG2	2.03	0.41
3:CN:313:TYR:HB3	4:DN:68:LEU:HD21	2.01	0.41
2:BO:251:LEU:HD22	2:BO:278:MET:HG2	2.03	0.41
4:EO:58:MET:SD	4:FO:75:ILE:HG13	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:532:MET:SD	1:AP:532:MET:C	3.03	0.41
2:BP:249:ARG:NH1	2:BP:252:GLN:HB2	2.36	0.41
4:DP:79:LEU:HD23	4:DP:80:ARG:HH21	1.86	0.41
2:BQ:139:ARG:HA	2:BQ:139:ARG:HD3	1.78	0.41
2:BQ:166:GLY:O	3:CQ:132:GLY:HA2	2.19	0.41
4:EQ:99:ILE:HG12	4:EQ:120:VAL:HG21	2.01	0.41
4:ER:128:PRO:HB3	4:ER:131:ARG:HE	1.86	0.41
2:BS:308:ILE:O	2:BS:312:VAL:HG23	2.20	0.41
3:CS:96:LEU:HD23	3:CS:96:LEU:HA	1.93	0.41
3:CS:179:TYR:OH	3:CS:182:SER:OG	2.25	0.41
4:DS:104:TYR:CD2	4:ES:61:PRO:HG3	2.56	0.41
4:FS:95:GLU:OE1	4:FS:95:GLU:N	2.51	0.41
2:BT:200:ALA:HA	2:BT:203:ILE:HD12	2.03	0.41
3:CT:38:TYR:HB2	4:ET:113:VAL:HB	2.02	0.41
3:CT:112:GLY:HA3	3:CT:223:MET:CE	2.49	0.41
3:CT:247:ARG:HH12	4:EU:79:LEU:HD22	1.84	0.41
2:BW:246:SER:HB3	2:BW:321:MET:HE3	2.02	0.41
2:BW:312:VAL:HG13	2:BW:321:MET:SD	2.60	0.41
4:DW:96:PRO:HB2	4:DW:108:GLN:HG3	2.02	0.41
1:AX:516:GLU:HA	1:AX:519:GLN:HG2	2.02	0.41
1:AX:522:ARG:HD3	2:BY:64:GLU:HG3	2.03	0.41
2:BX:5:SER:O	2:BX:9:LYS:HG3	2.21	0.41
2:BX:167:VAL:HG13	2:BX:172:LEU:HD23	2.02	0.41
3:CX:301:VAL:C	3:CX:321:ILE:HG12	2.45	0.41
2:BY:123:ARG:HE	2:BY:123:ARG:HB2	1.75	0.41
4:DY:104:TYR:CE2	4:EY:61:PRO:HG3	2.54	0.41
2:B1:264:LYS:NZ	2:B1:294:GLY:O	2.49	0.41
3:C2:69:LEU:HB2	3:C2:77:PRO:HG3	2.02	0.41
3:C2:246:TRP:HZ2	4:F3:122:ILE:HD12	1.84	0.41
2:B4:4:LEU:HD23	2:B4:4:LEU:HA	1.90	0.41
3:C4:38:TYR:HB2	4:E4:113:VAL:HB	2.02	0.41
3:C4:159:LYS:O	3:C4:162:LEU:HG	2.21	0.41
3:C4:240:ARG:N	3:C4:242:GLU:OE1	2.44	0.41
3:C4:272:LEU:HB2	4:D4:60:ILE:HB	2.03	0.41
4:D4:108:GLN:HB3	4:D4:124:ASP:OD1	2.21	0.41
4:E4:99:ILE:HG12	4:E4:120:VAL:HG21	2.03	0.41
3:C5:259:LEU:HD21	4:F6:60:ILE:HG21	2.02	0.41
4:E5:71:THR:O	4:F5:64:LEU:HD23	2.20	0.41
1:A6:517:GLN:O	1:A6:520:GLN:HG3	2.20	0.41
3:C6:258:GLU:C	3:C6:259:LEU:HD12	2.46	0.41
3:C6:272:LEU:HD12	3:C6:272:LEU:HA	1.94	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:523:ALA:HA	1:A7:526:ARG:HG2	2.03	0.41
2:B7:167:VAL:HG13	2:B7:172:LEU:HD23	2.03	0.41
3:C7:69:LEU:HB2	3:C7:77:PRO:HG3	2.01	0.41
4:D7:64:LEU:HD13	4:D7:101:ILE:HB	2.03	0.41
2:B8:249:ARG:NH1	2:B8:252:GLN:HB2	2.35	0.41
2:B8:250:LEU:O	2:B8:254:VAL:HG12	2.21	0.41
3:C8:169:TRP:HH2	3:C8:231:LEU:HD11	1.84	0.41
4:D8:106:ILE:HD13	4:E8:60:ILE:HD11	2.01	0.41
1:A9:517:GLN:O	1:A9:520:GLN:HG3	2.19	0.41
3:C9:57:ILE:HD12	3:C9:168:ALA:O	2.21	0.41
3:C9:247:ARG:HH12	4:EA:79:LEU:HD22	1.86	0.41
4:E9:118:TYR:CE2	4:F9:93:ALA:HA	2.55	0.41
1:AA:523:ALA:HA	1:AA:526:ARG:HG2	2.03	0.41
4:FA:95:GLU:OE1	4:FA:95:GLU:N	2.52	0.41
4:EC:99:ILE:HG12	4:EC:120:VAL:HG21	2.03	0.41
2:BD:78:ARG:HA	2:BD:94:LEU:HD11	2.03	0.41
2:BD:126:HIS:HB3	2:BD:129:ILE:HG12	2.03	0.41
3:CD:54:LEU:HB2	3:CD:231:LEU:HD23	2.02	0.41
1:AE:523:ALA:HA	1:AE:526:ARG:HG2	2.03	0.41
2:BE:78:ARG:HA	2:BE:94:LEU:HD11	2.02	0.41
2:BE:158:MET:O	2:BE:161:ILE:HB	2.21	0.41
4:EE:74:THR:HG22	4:EE:75:ILE:N	2.35	0.41
4:EE:74:THR:HA	4:FE:61:PRO:HA	2.02	0.41
3:CF:179:TYR:OH	3:CF:182:SER:OG	2.26	0.41
2:BG:201:GLU:HA	2:BG:204:ASN:ND2	2.28	0.41
4:EH:118:TYR:CE2	4:FH:93:ALA:HA	2.56	0.41
1:AI:558:ASP:OD1	2:BI:6:GLY:HA3	2.21	0.41
2:BI:103:THR:HG21	2:BI:109:THR:CG2	2.50	0.41
2:BI:133:ILE:HD13	2:BI:133:ILE:HA	1.93	0.41
4:DK:96:PRO:HB2	4:DK:108:GLN:HG3	2.02	0.41
4:DK:105:LEU:HB2	4:DK:131:ARG:HE	1.85	0.41
4:DK:129:SER:O	4:DK:133:ARG:HD3	2.21	0.41
4:FK:101:ILE:O	4:FK:102:ASN:OD1	2.38	0.41
1:AL:523:ALA:HA	1:AL:526:ARG:HG2	2.03	0.41
1:AL:547:VAL:HG23	2:BL:59:PHE:CZ	2.45	0.41
2:BL:103:THR:HG21	2:BL:109:THR:CG2	2.49	0.41
2:BM:253:GLU:HG3	2:BM:315:LEU:HD11	2.01	0.41
1:AN:517:GLN:O	1:AN:520:GLN:HG3	2.19	0.41
1:AN:549:LEU:O	1:AN:552:ARG:HB2	2.21	0.41
1:AN:552:ARG:HA	1:AN:555:MET:HE3	2.02	0.41
2:BN:230:ILE:O	2:BN:233:MET:HB2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:286:ILE:HG13	3:CN:287:GLU:O	2.21	0.41
2:BO:111:ASN:CG	2:BO:138:LYS:H	2.28	0.41
3:CO:70:PHE:HA	3:CO:75:ARG:O	2.19	0.41
3:CO:101:ASN:HB3	3:CO:118:PHE:HB2	2.02	0.41
3:CO:234:PRO:O	3:CO:236:LEU:N	2.46	0.41
2:BP:158:MET:HE1	2:BQ:218:VAL:HG21	2.03	0.41
3:CP:54:LEU:HB2	3:CP:231:LEU:HD23	2.02	0.41
3:CP:56:ILE:HD11	3:CQ:188:PHE:CD1	2.54	0.41
3:CQ:279:LYS:HA	4:DQ:125:ILE:HD11	2.01	0.41
4:EQ:127:THR:HG23	4:EQ:130:GLU:OE2	2.21	0.41
2:BR:5:SER:O	2:BR:9:LYS:HG3	2.21	0.41
2:BR:300:GLN:O	2:BR:304:GLU:HG2	2.20	0.41
1:AS:516:GLU:HA	1:AS:519:GLN:HG2	2.02	0.41
2:BS:13:LEU:HD13	2:BS:59:PHE:CD1	2.56	0.41
2:BS:46:GLN:HG2	1:AT:549:LEU:HD13	2.01	0.41
2:BS:158:MET:HE1	2:BT:214:VAL:HG22	2.02	0.41
3:CS:314:ALA:HA	4:DS:88:ALA:HA	2.03	0.41
4:ES:117:LYS:HA	4:ES:117:LYS:HD2	1.71	0.41
2:BT:300:GLN:O	2:BT:304:GLU:HG2	2.20	0.41
3:CT:230:LEU:HD23	3:CT:230:LEU:HA	1.90	0.41
4:ET:76:LYS:HZ1	4:FT:58:MET:C	2.21	0.41
1:AU:532:MET:SD	1:AU:532:MET:C	3.03	0.41
4:EU:99:ILE:HG12	4:EU:120:VAL:HG21	2.02	0.41
2:BV:42:ALA:CB	2:BW:97:ILE:HG23	2.51	0.41
2:BW:161:ILE:HG22	2:BX:199:ALA:HB2	2.03	0.41
4:EW:68:LEU:HD12	4:EW:97:LEU:HD21	2.02	0.41
1:AX:537:ARG:HG2	2:BX:17:ILE:O	2.20	0.41
2:BX:166:GLY:O	3:CX:132:GLY:HA2	2.19	0.41
2:BX:245:ARG:NH1	2:BX:249:ARG:HB2	2.36	0.41
4:DX:129:SER:O	4:DX:133:ARG:HD3	2.20	0.41
4:FX:65:THR:HG23	4:FX:100:LEU:HB2	2.02	0.41
3:CY:152:ARG:HA	3:CY:152:ARG:HD2	1.93	0.41
4:EY:118:TYR:CG	4:FY:68:LEU:HD21	2.55	0.41
3:C1:38:TYR:HB2	4:E1:113:VAL:HB	2.02	0.41
4:D1:68:LEU:HA	4:D1:97:LEU:HD23	2.03	0.41
2:B2:17:ILE:O	2:B2:21:ARG:HD2	2.20	0.41
3:C2:240:ARG:N	3:C2:242:GLU:OE1	2.44	0.41
4:D2:101:ILE:HG22	4:D2:106:ILE:HB	2.03	0.41
4:E2:68:LEU:HD12	4:E2:97:LEU:HD21	2.01	0.41
2:B3:150:ASP:OD1	2:B3:153:LEU:HB3	2.21	0.41
3:C3:272:LEU:HB2	4:D3:60:ILE:HB	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:279:LYS:HA	3:C3:279:LYS:HD3	1.83	0.41
4:E3:74:THR:HG22	4:E3:75:ILE:N	2.35	0.41
1:A4:532:MET:SD	1:A4:532:MET:C	3.03	0.41
4:D4:105:LEU:HB2	4:D4:131:ARG:HE	1.86	0.41
1:A5:522:ARG:HD3	2:B6:64:GLU:HG3	2.03	0.41
4:E5:71:THR:HA	4:E5:90:ASP:OD2	2.20	0.41
1:A6:544:PRO:HA	1:A6:547:VAL:HG12	2.03	0.41
2:B6:42:ALA:CB	2:B7:97:ILE:HG23	2.50	0.41
2:B7:48:SER:HB3	2:B8:66:PHE:HD1	1.85	0.41
2:B7:251:LEU:HD22	2:B7:278:MET:HG2	2.03	0.41
2:B8:5:SER:O	2:B8:9:LYS:HG3	2.21	0.41
2:B8:167:VAL:HG13	2:B8:172:LEU:HD23	2.03	0.41
2:B9:161:ILE:HG22	2:BA:199:ALA:HB2	2.03	0.41
2:B9:263:LEU:O	2:B9:271:ARG:HD3	2.21	0.41
3:C9:86:ILE:HD13	3:C9:200:VAL:HG22	2.03	0.41
4:D9:68:LEU:HA	4:D9:97:LEU:HD23	2.03	0.41
4:D9:108:GLN:HB3	4:D9:124:ASP:OD1	2.21	0.41
4:E9:127:THR:HG23	4:E9:130:GLU:OE2	2.20	0.41
1:AC:516:GLU:HA	1:AC:519:GLN:HG2	2.03	0.41
2:BC:30:SER:O	2:BC:34:VAL:HG23	2.21	0.41
2:BC:207:LYS:HG3	2:BC:209:GLN:H	1.85	0.41
2:BC:250:LEU:O	2:BC:254:VAL:HG12	2.21	0.41
3:CC:159:LYS:O	3:CC:162:LEU:HG	2.20	0.41
3:CC:253:GLN:HE22	4:FD:126:ILE:HG13	1.86	0.41
1:AD:532:MET:SD	1:AD:532:MET:C	3.03	0.41
2:BD:13:LEU:HD13	2:BD:59:PHE:CD1	2.56	0.41
2:BD:30:SER:O	2:BD:34:VAL:HG23	2.21	0.41
2:BD:167:VAL:HG13	2:BD:172:LEU:HD23	2.03	0.41
2:BD:263:LEU:O	2:BD:271:ARG:HD3	2.21	0.41
2:BE:166:GLY:O	3:CE:132:GLY:HA2	2.21	0.41
4:DE:75:ILE:H	4:DE:75:ILE:HD12	1.85	0.41
1:AF:555:MET:SD	2:BF:33:GLU:HB3	2.61	0.41
2:BF:11:VAL:O	2:BF:15:MET:HG2	2.20	0.41
3:CF:253:GLN:NE2	4:FG:126:ILE:HG13	2.36	0.41
4:EF:71:THR:O	4:FF:64:LEU:HD23	2.20	0.41
1:AG:517:GLN:O	1:AG:520:GLN:HG3	2.19	0.41
1:AG:523:ALA:HA	1:AG:526:ARG:HG2	2.03	0.41
4:DG:105:LEU:HB2	4:DG:131:ARG:HE	1.86	0.41
4:EG:58:MET:O	4:EG:58:MET:SD	2.79	0.41
4:EH:74:THR:HA	4:FH:61:PRO:HA	2.03	0.41
4:EH:127:THR:HG23	4:EH:130:GLU:OE2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:517:GLN:O	1:AI:520:GLN:HG3	2.19	0.41
2:BI:249:ARG:NH1	2:BI:252:GLN:HB2	2.36	0.41
3:CI:267:ASP:OD1	4:DI:63:LYS:HD2	2.21	0.41
4:DI:66:VAL:HG12	4:DI:99:ILE:HG12	2.02	0.41
3:CJ:260:GLU:HA	4:DJ:72:ARG:HH22	1.85	0.41
4:DJ:96:PRO:HB2	4:DJ:108:GLN:HG3	2.02	0.41
2:BK:158:MET:HE2	2:BK:158:MET:HB2	1.98	0.41
2:BL:245:ARG:NH1	2:BL:249:ARG:HB2	2.35	0.41
4:FL:95:GLU:OE1	4:FL:95:GLU:N	2.51	0.41
2:BM:93:LEU:O	2:BM:97:ILE:HG12	2.19	0.41
2:BM:239:LEU:HA	2:BM:239:LEU:HD23	1.82	0.41
3:CM:313:TYR:HB3	4:DM:68:LEU:HD21	2.01	0.41
4:DM:64:LEU:HD13	4:DM:101:ILE:HB	2.02	0.41
4:FM:95:GLU:OE1	4:FM:95:GLU:N	2.51	0.41
1:AN:532:MET:SD	1:AN:532:MET:C	3.03	0.41
3:CN:38:TYR:HB2	4:EN:113:VAL:HB	2.03	0.41
3:CN:271:ARG:O	3:CN:275:ILE:HG12	2.20	0.41
4:EN:58:MET:SD	4:FN:75:ILE:HG13	2.61	0.41
4:FN:100:LEU:HA	4:FN:105:LEU:HA	2.03	0.41
2:BO:166:GLY:O	3:CO:132:GLY:HA2	2.20	0.41
2:BP:4:LEU:HD23	2:BP:4:LEU:HA	1.90	0.41
2:BP:96:ASP:O	2:BP:100:THR:HG23	2.21	0.41
1:AQ:534:GLN:O	1:AQ:538:GLU:HG2	2.21	0.41
3:CQ:54:LEU:HD23	3:CQ:84:ILE:HD13	2.03	0.41
2:BR:230:ILE:O	2:BR:233:MET:HB2	2.21	0.41
4:DS:98:ASP:OD1	4:DS:99:ILE:N	2.53	0.41
4:DS:108:GLN:HB3	4:DS:124:ASP:OD1	2.21	0.41
4:FS:71:THR:HG1	4:FS:89:LEU:HA	1.85	0.41
3:CT:313:TYR:HB3	4:DT:68:LEU:HD21	2.03	0.41
4:ET:127:THR:HG23	4:ET:130:GLU:OE2	2.20	0.41
3:CU:69:LEU:HB2	3:CU:77:PRO:HG3	2.01	0.41
4:DU:129:SER:O	4:DU:133:ARG:HD3	2.21	0.41
4:EU:118:TYR:CE2	4:FU:93:ALA:HA	2.56	0.41
1:AV:536:ILE:HD13	1:AV:539:MET:CE	2.51	0.41
2:BW:239:LEU:HD23	2:BW:239:LEU:HA	1.86	0.41
2:BW:263:LEU:O	2:BW:271:ARG:HD3	2.21	0.41
3:CW:38:TYR:HB2	4:EW:113:VAL:HB	2.02	0.41
1:AX:517:GLN:O	1:AX:520:GLN:HG3	2.20	0.41
3:CX:222:SER:HA	3:CX:225:GLU:CG	2.51	0.41
2:BY:234:PHE:CE2	2:BY:309:LEU:HD22	2.56	0.41
3:CY:258:GLU:HA	4:DY:74:THR:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FY:65:THR:HG23	4:FY:100:LEU:HB2	2.03	0.41
1:A1:554:TRP:HA	1:A1:557:ASN:HD21	1.85	0.41
2:B1:250:LEU:O	2:B1:254:VAL:HG12	2.21	0.41
4:D1:106:ILE:O	4:D1:126:ILE:HG12	2.21	0.41
4:D1:106:ILE:HD13	4:E1:60:ILE:HD11	2.01	0.41
4:E1:79:LEU:HB3	3:CY:247:ARG:CZ	2.51	0.41
2:B3:46:GLN:CD	2:B4:70:ASN:HD22	2.29	0.41
3:C3:38:TYR:HB2	4:E3:113:VAL:HB	2.02	0.41
2:B4:167:VAL:HG13	2:B4:172:LEU:HD23	2.03	0.41
3:C4:265:PHE:HA	3:C4:292:ILE:HD12	2.03	0.41
1:A5:523:ALA:HA	1:A5:526:ARG:HG2	2.03	0.41
2:B5:207:LYS:HG3	2:B5:209:GLN:H	1.85	0.41
3:C5:272:LEU:HB2	4:D5:60:ILE:HB	2.03	0.41
2:B6:10:SER:HA	2:B6:13:LEU:HD12	2.03	0.41
2:B6:245:ARG:NH2	2:B6:321:MET:HB3	2.35	0.41
3:C6:274:GLN:O	3:C6:278:LEU:HB2	2.20	0.41
4:D6:68:LEU:HA	4:D6:97:LEU:HD23	2.03	0.41
4:E6:118:TYR:CE2	4:F6:93:ALA:HA	2.55	0.41
1:A7:516:GLU:HA	1:A7:519:GLN:HG2	2.02	0.41
4:E7:71:THR:O	4:F7:64:LEU:HD23	2.20	0.41
3:C8:86:ILE:HD13	3:C8:200:VAL:HG22	2.03	0.41
1:A9:516:GLU:HA	1:A9:519:GLN:HG2	2.03	0.41
4:D9:96:PRO:HB2	4:D9:108:GLN:HG3	2.02	0.41
4:D9:130:GLU:HG3	4:D9:134:ARG:HD2	2.02	0.41
1:AA:540:SER:OG	2:BA:21:ARG:HD3	2.20	0.41
2:BA:47:ILE:O	2:BB:68:ALA:HB3	2.21	0.41
2:BA:103:THR:OG1	2:BA:105:SER:O	2.29	0.41
3:CA:96:LEU:HD23	3:CA:96:LEU:HA	1.92	0.41
2:BB:167:VAL:HG13	2:BB:172:LEU:HD23	2.03	0.41
2:BB:201:GLU:O	2:BB:204:ASN:HB2	2.21	0.41
2:BB:209:GLN:HA	2:BB:212:GLU:CD	2.46	0.41
3:CB:86:ILE:HD13	3:CB:200:VAL:HG22	2.03	0.41
3:CB:169:TRP:HH2	3:CB:231:LEU:HD11	1.86	0.41
2:BC:234:PHE:CE2	2:BC:309:LEU:HD22	2.56	0.41
3:CC:169:TRP:HH2	3:CC:231:LEU:HD11	1.86	0.41
3:CC:313:TYR:HB3	4:DC:68:LEU:HD21	2.02	0.41
4:EC:75:ILE:HG12	4:FC:60:ILE:O	2.20	0.41
3:CD:38:TYR:HB2	4:ED:113:VAL:HB	2.03	0.41
4:FD:73:MET:HE1	4:FD:78:LEU:N	2.36	0.41
2:BE:133:ILE:HD11	2:BE:175:LEU:HD11	2.02	0.41
3:CE:230:LEU:HD23	3:CE:230:LEU:HA	1.90	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:86:VAL:HA	4:FE:120:VAL:O	2.21	0.41
2:BF:300:GLN:O	2:BF:304:GLU:HG2	2.21	0.41
3:CF:169:TRP:HH2	3:CF:231:LEU:HD11	1.86	0.41
3:CF:274:GLN:O	3:CF:278:LEU:HB2	2.20	0.41
4:DF:73:MET:HE1	4:DF:78:LEU:HA	2.02	0.41
4:EF:75:ILE:HB	4:EF:76:LYS:NZ	2.36	0.41
1:AG:532:MET:SD	1:AG:532:MET:C	3.03	0.41
2:BG:5:SER:O	2:BG:9:LYS:HG3	2.21	0.41
2:BG:97:ILE:HG22	2:BG:101:ARG:HH12	1.84	0.41
2:BG:123:ARG:HE	2:BG:123:ARG:HB2	1.75	0.41
2:BG:297:ARG:CZ	2:BH:328:ASP:HB3	2.51	0.41
4:FG:60:ILE:HD12	4:FG:60:ILE:HA	1.95	0.41
1:AH:517:GLN:O	1:AH:520:GLN:HG3	2.20	0.41
3:CH:54:LEU:HD23	3:CH:84:ILE:HD13	2.02	0.41
3:CH:267:ASP:OD1	4:DH:63:LYS:HD2	2.20	0.41
4:DH:73:MET:HE1	4:DH:78:LEU:HA	2.01	0.41
4:EH:93:ALA:HB3	4:FH:116:ASP:OD2	2.21	0.41
1:AI:523:ALA:HA	1:AI:526:ARG:HG2	2.03	0.41
3:CI:101:ASN:HB3	3:CI:118:PHE:HB2	2.02	0.41
1:AJ:516:GLU:HA	1:AJ:519:GLN:HG2	2.02	0.41
1:AJ:523:ALA:HA	1:AJ:526:ARG:HG2	2.03	0.41
1:AJ:532:MET:SD	1:AJ:532:MET:C	3.04	0.41
2:BJ:300:GLN:O	2:BJ:304:GLU:HG2	2.21	0.41
3:CJ:54:LEU:HB2	3:CJ:231:LEU:HD23	2.03	0.41
1:AK:523:ALA:HA	1:AK:526:ARG:HG2	2.03	0.41
4:EK:74:THR:HG22	4:EK:75:ILE:N	2.35	0.41
4:FK:71:THR:OG1	4:FK:89:LEU:HA	2.21	0.41
2:BL:139:ARG:HA	2:BL:139:ARG:NE	2.36	0.41
4:EL:106:ILE:HD12	4:EL:125:ILE:HD11	2.03	0.41
3:CM:54:LEU:HB2	3:CM:231:LEU:HD23	2.03	0.41
3:CM:247:ARG:HH12	4:EN:79:LEU:HD22	1.86	0.41
3:CM:300:PRO:HD2	4:FM:132:MET:SD	2.61	0.41
4:EO:93:ALA:HB3	4:FO:116:ASP:OD1	2.20	0.41
4:EO:118:TYR:CE2	4:FO:93:ALA:HA	2.55	0.41
2:BP:113:MET:CE	2:BP:117:SER:HB2	2.46	0.41
2:BP:131:ALA:HB1	2:BP:161:ILE:HD13	2.02	0.41
3:CP:179:TYR:OH	3:CP:182:SER:OG	2.25	0.41
1:AQ:548:ALA:HA	2:BQ:25:VAL:HG13	2.02	0.41
2:BQ:11:VAL:O	2:BQ:15:MET:HG2	2.19	0.41
3:CQ:313:TYR:HB3	4:DQ:68:LEU:HD21	2.02	0.41
4:DQ:66:VAL:HG12	4:DQ:99:ILE:HG12	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BR:14:LEU:HD13	2:BR:17:ILE:HD11	2.02	0.41
1:AS:517:GLN:O	1:AS:520:GLN:HG3	2.20	0.41
2:BS:103:THR:HG21	2:BS:109:THR:CG2	2.50	0.41
4:ES:58:MET:SD	4:FS:75:ILE:HG13	2.61	0.41
2:BT:17:ILE:O	2:BT:21:ARG:HD2	2.20	0.41
3:CT:240:ARG:N	3:CT:242:GLU:OE1	2.45	0.41
3:CT:271:ARG:O	3:CT:275:ILE:HG12	2.20	0.41
4:FT:106:ILE:O	4:FT:126:ILE:HG12	2.20	0.41
3:CU:70:PHE:HA	3:CU:75:ARG:O	2.20	0.41
4:DU:78:LEU:HA	4:DU:81:LEU:HD23	2.02	0.41
2:BV:245:ARG:NH1	2:BV:249:ARG:HB2	2.36	0.41
2:BV:300:GLN:O	2:BV:304:GLU:HG2	2.21	0.41
3:CV:136:ARG:HG3	3:CV:137:PHE:HD1	1.85	0.41
3:CV:287:GLU:H	3:CV:287:GLU:CD	2.29	0.41
4:EV:74:THR:HG22	4:EV:75:ILE:N	2.35	0.41
2:BW:146:LEU:O	2:BW:154:ARG:NE	2.46	0.41
3:CW:54:LEU:HB2	3:CW:231:LEU:HD23	2.01	0.41
3:CX:274:GLN:HG3	3:CX:277:LYS:HE3	2.03	0.41
1:AY:516:GLU:HA	1:AY:519:GLN:HG2	2.03	0.41
2:BY:166:GLY:O	3:CY:132:GLY:HA2	2.20	0.41
3:CY:233:ASN:HA	3:CY:234:PRO:HD3	1.93	0.41
4:DY:68:LEU:HA	4:DY:97:LEU:HD23	2.03	0.41
4:FY:71:THR:OG1	4:FY:89:LEU:HA	2.21	0.41
1:A1:516:GLU:HA	1:A1:519:GLN:HG2	2.02	0.41
1:A1:523:ALA:HA	1:A1:526:ARG:HG2	2.02	0.41
2:B1:103:THR:HG21	2:B1:109:THR:CG2	2.50	0.41
2:B1:263:LEU:O	2:B1:271:ARG:HD3	2.21	0.41
3:C1:69:LEU:HB2	3:C1:77:PRO:HG3	2.02	0.41
4:E1:71:THR:HA	4:E1:90:ASP:OD2	2.20	0.41
4:E1:71:THR:O	4:F1:64:LEU:HD23	2.21	0.41
4:F1:106:ILE:O	4:F1:126:ILE:HG12	2.20	0.41
2:B2:263:LEU:O	2:B2:271:ARG:HD3	2.21	0.41
3:C2:169:TRP:HH2	3:C2:231:LEU:HD11	1.85	0.41
4:D2:129:SER:O	4:D2:133:ARG:HD3	2.20	0.41
2:B3:41:MET:SD	2:B4:77:LEU:HD13	2.61	0.41
2:B3:85:LEU:HD22	2:B3:89:ARG:CZ	2.51	0.41
2:B3:113:MET:SD	2:B3:118:ALA:HB2	2.61	0.41
2:B3:158:MET:SD	2:B3:159:LEU:N	2.94	0.41
2:B3:242:VAL:O	2:B3:243:ASP:OD1	2.39	0.41
4:D3:108:GLN:HB3	4:D3:124:ASP:OD1	2.21	0.41
1:A4:517:GLN:O	1:A4:520:GLN:HG3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:314:ALA:HA	4:D4:88:ALA:HA	2.03	0.41
2:B5:167:VAL:HG13	2:B5:172:LEU:HD23	2.03	0.41
3:C5:267:ASP:OD1	4:D5:63:LYS:HD2	2.20	0.41
4:D5:78:LEU:HA	4:D5:81:LEU:HD23	2.03	0.41
4:D5:106:ILE:HD13	4:E5:60:ILE:HD11	2.01	0.41
1:A6:532:MET:CG	2:B6:56:LEU:HD13	2.51	0.41
2:B6:5:SER:O	2:B6:9:LYS:HG3	2.21	0.41
2:B6:300:GLN:O	2:B6:304:GLU:HG2	2.21	0.41
3:C6:38:TYR:HB2	4:E6:113:VAL:HB	2.03	0.41
3:C6:253:GLN:NE2	4:F7:126:ILE:HG13	2.36	0.41
3:C6:267:ASP:OD1	4:D6:63:LYS:HD2	2.20	0.41
3:C6:286:ILE:HG13	3:C6:287:GLU:O	2.21	0.41
4:D6:96:PRO:HB2	4:D6:108:GLN:HG3	2.02	0.41
2:B7:30:SER:O	2:B7:34:VAL:HG23	2.21	0.41
2:B7:42:ALA:HB3	2:B8:101:ARG:HH21	1.86	0.41
3:C7:233:ASN:HA	3:C7:234:PRO:HD3	1.93	0.41
3:C7:240:ARG:N	3:C7:242:GLU:OE1	2.44	0.41
3:C7:286:ILE:HG13	3:C7:287:GLU:O	2.20	0.41
2:B8:300:GLN:O	2:B8:304:GLU:HG2	2.21	0.41
3:C8:38:TYR:H	4:E8:112:VAL:HA	1.86	0.41
3:C8:54:LEU:HB2	3:C8:231:LEU:HD23	2.02	0.41
3:C8:271:ARG:O	3:C8:275:ILE:HG12	2.20	0.41
4:D8:96:PRO:HB2	4:D8:108:GLN:HG3	2.02	0.41
4:E8:68:LEU:HD12	4:E8:97:LEU:HD21	2.02	0.41
4:E8:71:THR:HA	4:E8:90:ASP:OD2	2.20	0.41
4:E8:74:THR:HA	4:F8:61:PRO:HA	2.03	0.41
3:C9:272:LEU:HB2	4:D9:60:ILE:HB	2.02	0.41
3:C9:301:VAL:C	3:C9:321:ILE:HG12	2.46	0.41
4:E9:68:LEU:HD12	4:E9:97:LEU:HD21	2.03	0.41
4:E9:74:THR:HG22	4:E9:75:ILE:N	2.35	0.41
4:F9:106:ILE:O	4:F9:126:ILE:HG12	2.20	0.41
2:BA:5:SER:O	2:BA:9:LYS:HG3	2.21	0.41
2:BA:101:ARG:HA	2:BA:101:ARG:HD3	1.89	0.41
2:BA:146:LEU:O	2:BA:154:ARG:NE	2.49	0.41
2:BA:169:PRO:O	2:BA:172:LEU:HG	2.21	0.41
2:BA:200:ALA:HA	2:BA:203:ILE:HD12	2.02	0.41
3:CA:65:PHE:CE1	3:CA:161:ALA:HB2	2.56	0.41
4:EA:71:THR:HA	4:EA:90:ASP:OD2	2.21	0.41
2:BB:13:LEU:HD13	2:BB:59:PHE:CD1	2.56	0.41
2:BB:131:ALA:HB1	2:BB:161:ILE:HD13	2.03	0.41
2:BB:250:LEU:O	2:BB:254:VAL:HG12	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:57:ILE:HD12	3:CB:168:ALA:O	2.21	0.41
1:AC:517:GLN:O	1:AC:520:GLN:HG3	2.20	0.41
2:BC:300:GLN:O	2:BC:304:GLU:HG2	2.21	0.41
3:CC:271:ARG:O	3:CC:275:ILE:HG12	2.21	0.41
1:AD:516:GLU:HA	1:AD:519:GLN:HG2	2.02	0.41
2:BD:5:SER:O	2:BD:9:LYS:HG3	2.21	0.41
2:BD:81:LEU:HD13	2:BD:93:LEU:HB2	2.03	0.41
2:BD:245:ARG:NH1	2:BD:249:ARG:HB2	2.35	0.41
3:CD:86:ILE:HD13	3:CD:200:VAL:HG22	2.03	0.41
4:FD:76:LYS:HD3	4:FD:76:LYS:HA	1.92	0.41
4:FD:95:GLU:OE1	4:FD:95:GLU:N	2.51	0.41
3:CE:118:PHE:CZ	3:CE:157:MET:HG3	2.56	0.41
1:AF:516:GLU:HA	1:AF:519:GLN:HG2	2.03	0.41
1:AF:540:SER:OG	2:BF:21:ARG:HD3	2.20	0.41
2:BF:166:GLY:O	2:BG:190:ARG:NE	2.31	0.41
2:BF:263:LEU:O	2:BF:271:ARG:HD3	2.21	0.41
3:CF:154:ILE:HA	3:CF:157:MET:HE3	2.02	0.41
4:EF:86:VAL:HA	4:FF:120:VAL:O	2.21	0.41
4:FF:101:ILE:N	4:FF:104:TYR:O	2.32	0.41
3:CG:54:LEU:HB2	3:CG:231:LEU:HD23	2.03	0.41
3:CG:247:ARG:HH12	4:EH:79:LEU:HD22	1.85	0.41
3:CG:267:ASP:OD1	4:DG:63:LYS:HD2	2.20	0.41
3:CG:300:PRO:HD2	4:FG:132:MET:SD	2.60	0.41
4:DG:108:GLN:HB3	4:DG:124:ASP:OD1	2.21	0.41
4:EG:106:ILE:HD12	4:EG:125:ILE:HD11	2.03	0.41
4:FG:64:LEU:HD23	4:FG:64:LEU:H	1.86	0.41
1:AH:522:ARG:HD3	2:BI:64:GLU:HG3	2.02	0.41
2:BH:97:ILE:HG22	2:BH:101:ARG:HH12	1.86	0.41
2:BH:103:THR:HG21	2:BH:109:THR:CG2	2.50	0.41
2:BH:166:GLY:O	2:BI:190:ARG:NE	2.30	0.41
2:BH:234:PHE:CE2	2:BH:309:LEU:HD22	2.56	0.41
1:AI:546:VAL:HG22	2:BI:70:ASN:HD21	1.85	0.41
2:BI:13:LEU:HD13	2:BI:59:PHE:CD1	2.56	0.41
2:BI:209:GLN:HA	2:BI:212:GLU:CD	2.46	0.41
2:BI:308:ILE:O	2:BI:312:VAL:HG23	2.20	0.41
3:CI:69:LEU:HB2	3:CI:77:PRO:HG3	2.02	0.41
3:CI:251:VAL:HA	3:CI:254:VAL:HG22	2.03	0.41
4:DI:129:SER:O	4:DI:133:ARG:HD3	2.20	0.41
1:AJ:540:SER:OG	2:BJ:21:ARG:HD3	2.21	0.41
2:BJ:133:ILE:HD13	2:BJ:133:ILE:HA	1.94	0.41
2:BJ:239:LEU:HD23	2:BJ:239:LEU:HA	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EJ:74:THR:HG22	4:EJ:75:ILE:N	2.36	0.41
4:EJ:75:ILE:HA	4:EJ:78:LEU:HD12	2.02	0.41
4:EJ:118:TYR:CE2	4:FJ:93:ALA:HA	2.56	0.41
2:BK:300:GLN:O	2:BK:304:GLU:HG2	2.21	0.41
4:EK:58:MET:SD	4:FK:75:ILE:HG13	2.61	0.41
1:AL:555:MET:HA	1:AL:558:ASP:OD2	2.20	0.41
2:BL:41:MET:HE1	2:BM:77:LEU:HD23	2.03	0.41
4:EL:99:ILE:HG12	4:EL:120:VAL:HG21	2.02	0.41
4:FL:132:MET:O	4:FL:132:MET:HE3	2.21	0.41
1:AM:523:ALA:HA	1:AM:526:ARG:HG2	2.03	0.41
1:AM:555:MET:SD	2:BM:33:GLU:HB3	2.60	0.41
2:BM:300:GLN:O	2:BM:304:GLU:HG2	2.21	0.41
4:DM:98:ASP:OD1	4:DM:99:ILE:N	2.53	0.41
1:AN:523:ALA:HA	1:AN:526:ARG:HG2	2.03	0.41
3:CN:249:ASN:HB3	4:FO:125:ILE:HD13	2.01	0.41
4:DN:98:ASP:OD1	4:DN:99:ILE:N	2.53	0.41
4:EN:68:LEU:HD12	4:EN:97:LEU:HD21	2.02	0.41
4:FN:71:THR:OG1	4:FN:89:LEU:HA	2.21	0.41
1:AO:554:TRP:HA	1:AO:557:ASN:HD21	1.85	0.41
2:BP:158:MET:C	2:BP:158:MET:SD	3.04	0.41
4:DP:96:PRO:HB2	4:DP:108:GLN:HG3	2.02	0.41
2:BQ:46:GLN:HB2	1:AR:549:LEU:HD22	2.03	0.41
3:CQ:265:PHE:HA	3:CQ:292:ILE:HD12	2.02	0.41
4:EQ:71:THR:O	4:FQ:64:LEU:HG	2.21	0.41
4:EQ:106:ILE:HD12	4:EQ:125:ILE:HD11	2.03	0.41
4:FQ:71:THR:OG1	4:FQ:89:LEU:HA	2.21	0.41
1:AR:516:GLU:HA	1:AR:519:GLN:HG2	2.02	0.41
4:ER:59:ASP:HA	4:FR:76:LYS:NZ	2.35	0.41
2:BS:81:LEU:HD12	2:BS:94:LEU:HG	2.02	0.41
2:BS:300:GLN:O	2:BS:304:GLU:HG2	2.21	0.41
3:CS:301:VAL:C	3:CS:321:ILE:HG12	2.46	0.41
4:DS:96:PRO:HB2	4:DS:108:GLN:HG3	2.02	0.41
4:DS:101:ILE:HG22	4:DS:106:ILE:HB	2.02	0.41
4:ES:68:LEU:HD12	4:ES:97:LEU:HD21	2.03	0.41
4:ES:131:ARG:HA	4:ES:134:ARG:NH1	2.36	0.41
1:AT:516:GLU:HA	1:AT:519:GLN:HG2	2.02	0.41
2:BT:263:LEU:O	2:BT:271:ARG:HD3	2.21	0.41
3:CT:272:LEU:HD12	3:CT:272:LEU:HA	1.93	0.41
1:AU:549:LEU:O	1:AU:552:ARG:HB3	2.21	0.41
2:BU:5:SER:O	2:BU:9:LYS:HG3	2.20	0.41
2:BU:123:ARG:HE	2:BU:123:ARG:HB2	1.75	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:38:TYR:HB2	4:EU:113:VAL:HB	2.03	0.41
3:CU:169:TRP:HH2	3:CU:231:LEU:HD11	1.85	0.41
4:DU:73:MET:HE1	4:DU:78:LEU:HA	2.01	0.41
4:EU:68:LEU:HD12	4:EU:97:LEU:HD21	2.02	0.41
4:EU:118:TYR:CG	4:FU:68:LEU:HD21	2.55	0.41
4:FU:60:ILE:HD12	4:FU:60:ILE:HA	1.96	0.41
2:BV:134:LEU:HD13	2:BV:146:LEU:HD11	2.02	0.41
2:BV:250:LEU:O	2:BV:254:VAL:HG12	2.20	0.41
3:CV:112:GLY:HA3	3:CV:223:MET:CE	2.48	0.41
3:CV:169:TRP:HH2	3:CV:231:LEU:HD11	1.85	0.41
3:CV:314:ALA:HA	4:DV:88:ALA:HA	2.03	0.41
4:EW:74:THR:HG22	4:EW:75:ILE:N	2.35	0.41
2:BX:300:GLN:O	2:BX:304:GLU:HG2	2.21	0.41
3:CX:38:TYR:HB2	4:EX:113:VAL:HB	2.02	0.41
3:CX:258:GLU:HA	4:DX:74:THR:HA	2.03	0.41
3:CX:314:ALA:HA	4:DX:88:ALA:HA	2.03	0.41
4:DX:108:GLN:HB3	4:DX:124:ASP:OD1	2.21	0.41
2:BY:10:SER:HA	2:BY:13:LEU:HD12	2.02	0.41
2:BY:158:MET:C	2:BY:158:MET:SD	3.04	0.41
1:A1:532:MET:CG	2:B1:56:LEU:HD13	2.51	0.41
2:B1:17:ILE:O	2:B1:21:ARG:HD2	2.21	0.41
4:D1:108:GLN:HB3	4:D1:124:ASP:OD1	2.21	0.41
3:C2:38:TYR:HB2	4:E2:113:VAL:HB	2.03	0.41
3:C2:65:PHE:CE1	3:C2:161:ALA:HB2	2.56	0.41
4:F2:60:ILE:HD12	4:F2:60:ILE:HA	1.99	0.41
1:A3:516:GLU:HA	1:A3:519:GLN:HG2	2.03	0.41
3:C4:86:ILE:HD13	3:C4:200:VAL:HG22	2.03	0.41
4:D4:68:LEU:HA	4:D4:97:LEU:HD23	2.03	0.41
3:C5:240:ARG:N	3:C5:242:GLU:OE1	2.44	0.41
4:F5:64:LEU:HD23	4:F5:64:LEU:H	1.86	0.41
1:A6:549:LEU:C	1:A6:549:LEU:HD12	2.46	0.41
3:C6:65:PHE:CE1	3:C6:161:ALA:HB2	2.56	0.41
4:D6:108:GLN:HB3	4:D6:124:ASP:OD1	2.21	0.41
4:E6:99:ILE:HG12	4:E6:120:VAL:HG21	2.03	0.41
1:A7:532:MET:SD	1:A7:532:MET:C	3.03	0.41
1:A7:558:ASP:OD1	2:B7:6:GLY:HA3	2.21	0.41
2:B7:139:ARG:HH22	2:B8:198:THR:HG23	1.85	0.41
2:B7:264:LYS:NZ	2:B7:294:GLY:O	2.50	0.41
4:D7:68:LEU:HA	4:D7:97:LEU:HD23	2.03	0.41
4:E7:68:LEU:HD12	4:E7:97:LEU:HD21	2.01	0.41
4:F7:64:LEU:HD23	4:F7:64:LEU:H	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:42:ALA:CB	2:B9:97:ILE:HG23	2.51	0.41
4:E8:128:PRO:HB3	4:E8:131:ARG:HE	1.86	0.41
2:B9:234:PHE:CE2	2:B9:309:LEU:HD22	2.55	0.41
1:AA:548:ALA:HA	2:BA:25:VAL:HG13	2.03	0.41
3:CA:57:ILE:HD12	3:CA:168:ALA:O	2.21	0.41
2:BB:38:SER:HA	2:BB:41:MET:SD	2.61	0.41
2:BB:300:GLN:O	2:BB:304:GLU:HG2	2.21	0.41
3:CB:179:TYR:OH	3:CB:182:SER:OG	2.25	0.41
3:CB:247:ARG:CZ	4:EC:79:LEU:HB3	2.51	0.41
3:CB:271:ARG:O	3:CB:275:ILE:HG12	2.21	0.41
4:EB:73:MET:HB3	4:FB:64:LEU:HD23	2.03	0.41
2:BC:41:MET:O	2:BC:41:MET:HE3	2.20	0.41
3:CD:240:ARG:N	3:CD:242:GLU:OE1	2.44	0.41
4:FD:64:LEU:HD23	4:FD:64:LEU:H	1.85	0.41
1:AE:558:ASP:OD1	2:BE:6:GLY:HA3	2.21	0.41
2:BF:13:LEU:HD13	2:BF:59:PHE:CD1	2.56	0.41
2:BF:167:VAL:HG13	2:BF:172:LEU:HD23	2.03	0.41
3:CF:56:ILE:HD12	3:CF:56:ILE:HA	1.97	0.41
3:CF:267:ASP:OD1	4:DF:63:LYS:HD2	2.20	0.41
4:FF:64:LEU:HD23	4:FF:64:LEU:H	1.86	0.41
1:AG:555:MET:SD	2:BG:33:GLU:HB3	2.61	0.41
2:BG:48:SER:HB3	2:BH:66:PHE:HD1	1.86	0.41
2:BG:207:LYS:HG3	2:BG:209:GLN:N	2.36	0.41
2:BG:250:LEU:O	2:BG:254:VAL:HG12	2.20	0.41
3:CG:96:LEU:HD23	3:CG:96:LEU:HA	1.92	0.41
2:BH:167:VAL:HG13	2:BH:172:LEU:HD23	2.03	0.41
2:BI:81:LEU:HD12	2:BI:94:LEU:HG	2.03	0.41
4:DJ:73:MET:SD	4:DJ:78:LEU:HD12	2.61	0.41
4:DJ:108:GLN:HB3	4:DJ:124:ASP:OD1	2.21	0.41
2:BK:75:GLU:H	2:BK:75:GLU:CD	2.29	0.41
4:DK:64:LEU:HD13	4:DK:101:ILE:HB	2.02	0.41
2:BL:249:ARG:NH1	2:BL:252:GLN:HB2	2.37	0.41
3:CL:311:GLY:O	4:DL:93:ALA:N	2.36	0.41
4:DL:64:LEU:HD13	4:DL:101:ILE:HB	2.02	0.41
3:CM:249:ASN:HB3	4:FN:125:ILE:HD13	2.02	0.41
4:DM:73:MET:HE1	4:DM:78:LEU:HA	2.01	0.41
2:BN:13:LEU:HD13	2:BN:59:PHE:CD1	2.55	0.41
1:AO:549:LEU:O	1:AO:552:ARG:HB2	2.21	0.41
4:FO:100:LEU:HG	4:FO:105:LEU:CA	2.50	0.41
4:FP:122:ILE:O	4:FP:122:ILE:HG13	2.20	0.41
2:BQ:158:MET:O	2:BQ:161:ILE:HB	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:249:ASN:HB3	4:FR:125:ILE:HD13	2.03	0.41
4:EQ:58:MET:SD	4:FQ:75:ILE:HG13	2.61	0.41
3:CR:301:VAL:C	3:CR:321:ILE:HG12	2.46	0.41
4:DR:108:GLN:HB3	4:DR:124:ASP:OD1	2.21	0.41
4:DR:129:SER:O	4:DR:133:ARG:HD3	2.20	0.41
4:ER:71:THR:HA	4:ER:90:ASP:OD2	2.21	0.41
2:BS:24:GLU:O	2:BS:27:LYS:HB2	2.20	0.41
3:CS:38:TYR:HB2	4:ES:113:VAL:HB	2.03	0.41
4:DT:101:ILE:HD13	4:ET:60:ILE:HD13	2.03	0.41
1:AU:554:TRP:HA	1:AU:557:ASN:HD21	1.85	0.41
2:BU:239:LEU:HD23	2:BU:239:LEU:HA	1.83	0.41
3:CU:112:GLY:HA3	3:CU:223:MET:CE	2.49	0.41
4:DU:66:VAL:HG12	4:DU:99:ILE:HG12	2.03	0.41
4:FU:116:ASP:OD1	4:FU:116:ASP:O	2.38	0.41
3:CV:251:VAL:HA	3:CV:254:VAL:HG22	2.03	0.41
3:CW:314:ALA:HA	4:DW:88:ALA:HA	2.03	0.41
2:BX:250:LEU:O	2:BX:254:VAL:HG12	2.21	0.41
3:CX:118:PHE:CE2	3:CX:157:MET:HG3	2.56	0.41
1:AY:554:TRP:HA	1:AY:557:ASN:HD21	1.86	0.41
2:BY:209:GLN:HA	2:BY:212:GLU:CD	2.46	0.41
2:B2:167:VAL:HG13	2:B2:172:LEU:HD23	2.03	0.40
1:A4:523:ALA:HA	1:A4:526:ARG:HG2	2.03	0.40
2:B4:13:LEU:HD13	2:B4:59:PHE:CD1	2.55	0.40
3:C4:169:TRP:HH2	3:C4:231:LEU:HD11	1.85	0.40
3:C4:179:TYR:OH	3:C4:182:SER:OG	2.26	0.40
1:A5:517:GLN:O	1:A5:520:GLN:HG3	2.20	0.40
2:B5:143:ALA:HB1	2:B6:206:MET:HG3	2.03	0.40
3:C5:57:ILE:HD12	3:C5:168:ALA:O	2.21	0.40
3:C5:86:ILE:HD13	3:C5:200:VAL:HG22	2.03	0.40
3:C5:260:GLU:HA	4:D5:72:ARG:HH22	1.86	0.40
4:D6:105:LEU:HB2	4:D6:131:ARG:HE	1.86	0.40
3:C7:169:TRP:HH2	3:C7:231:LEU:HD11	1.85	0.40
4:D7:66:VAL:HG12	4:D7:99:ILE:HG12	2.01	0.40
4:F7:65:THR:HG23	4:F7:100:LEU:HB2	2.02	0.40
4:E8:71:THR:O	4:F8:64:LEU:HD23	2.20	0.40
2:B9:43:ASN:HB3	2:BA:101:ARG:NH2	2.36	0.40
3:C9:265:PHE:HA	3:C9:292:ILE:HD12	2.03	0.40
3:C9:271:ARG:O	3:C9:275:ILE:HG12	2.21	0.40
4:EA:74:THR:O	4:EA:78:LEU:HG	2.22	0.40
2:BC:26:PHE:CE2	2:BD:84:ALA:HB1	2.56	0.40
3:CC:57:ILE:HD12	3:CC:168:ALA:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:71:THR:HA	4:EC:90:ASP:OD2	2.20	0.40
4:FC:71:THR:OG1	4:FC:89:LEU:HA	2.21	0.40
2:BD:85:LEU:HB3	2:BD:89:ARG:HB2	2.03	0.40
3:CD:57:ILE:HG21	3:CD:169:TRP:CD1	2.55	0.40
4:ED:118:TYR:CG	4:FD:68:LEU:HD21	2.56	0.40
1:AE:536:ILE:HA	1:AE:539:MET:HG2	2.03	0.40
3:CE:38:TYR:H	4:EE:112:VAL:HA	1.87	0.40
3:CE:38:TYR:HB2	4:EE:113:VAL:HB	2.03	0.40
3:CE:247:ARG:CZ	4:EF:79:LEU:HB3	2.50	0.40
2:BF:42:ALA:CB	2:BG:97:ILE:HG23	2.51	0.40
3:CF:265:PHE:HA	3:CF:292:ILE:HD12	2.02	0.40
4:DF:108:GLN:HB3	4:DF:124:ASP:OD1	2.21	0.40
4:EF:121:ARG:HH12	4:FF:85:SER:N	2.19	0.40
1:AG:555:MET:HE1	2:BG:29:LEU:HD22	2.04	0.40
3:CG:251:VAL:HA	3:CG:254:VAL:HG22	2.03	0.40
1:AH:532:MET:CG	2:BH:56:LEU:HD13	2.52	0.40
4:DH:79:LEU:HD12	4:FI:58:MET:HE1	2.03	0.40
3:CI:159:LYS:O	3:CI:162:LEU:HG	2.20	0.40
4:DI:68:LEU:HA	4:DI:97:LEU:HD23	2.03	0.40
4:EJ:121:ARG:NH1	4:FJ:85:SER:O	2.54	0.40
2:BK:158:MET:SD	2:BK:158:MET:C	3.04	0.40
2:BK:167:VAL:HG13	2:BK:172:LEU:HD23	2.03	0.40
2:BK:250:LEU:HD21	2:BK:321:MET:SD	2.61	0.40
3:CK:38:TYR:H	4:EK:112:VAL:HA	1.86	0.40
4:DK:98:ASP:OD1	4:DK:99:ILE:N	2.53	0.40
4:DK:108:GLN:HB3	4:DK:124:ASP:OD1	2.21	0.40
2:BL:97:ILE:HG22	2:BL:101:ARG:HH12	1.86	0.40
4:DL:68:LEU:HA	4:DL:97:LEU:HD23	2.04	0.40
4:FL:106:ILE:O	4:FL:126:ILE:HG12	2.21	0.40
4:DM:68:LEU:HA	4:DM:97:LEU:HD23	2.03	0.40
4:EM:86:VAL:HA	4:FM:120:VAL:O	2.22	0.40
2:BN:166:GLY:O	2:BO:190:ARG:NE	2.32	0.40
2:BN:166:GLY:O	3:CN:132:GLY:HA2	2.20	0.40
4:DN:79:LEU:HD12	4:FO:58:MET:HE1	2.04	0.40
4:FN:116:ASP:OD1	4:FN:116:ASP:O	2.38	0.40
1:AO:516:GLU:HA	1:AO:519:GLN:HG2	2.03	0.40
1:AO:523:ALA:HA	1:AO:526:ARG:HG2	2.03	0.40
1:AO:546:VAL:HG22	2:BO:70:ASN:HD21	1.85	0.40
2:BO:103:THR:HG21	2:BO:109:THR:CG2	2.51	0.40
3:CO:69:LEU:HB2	3:CO:77:PRO:HG3	2.02	0.40
2:BP:158:MET:HE3	2:BQ:214:VAL:HG13	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:57:ILE:HD12	3:CP:168:ALA:O	2.21	0.40
4:DP:108:GLN:HB3	4:DP:124:ASP:OD1	2.21	0.40
4:EP:130:GLU:CB	4:EP:133:ARG:HH21	2.34	0.40
2:BQ:17:ILE:O	2:BQ:21:ARG:HD2	2.21	0.40
3:CQ:159:LYS:O	3:CQ:162:LEU:HG	2.21	0.40
3:CQ:179:TYR:OH	3:CQ:182:SER:OG	2.26	0.40
4:DR:79:LEU:HD23	4:DR:80:ARG:HH21	1.87	0.40
2:BS:7:THR:O	2:BS:11:VAL:HG23	2.21	0.40
2:BS:126:HIS:HB3	2:BS:129:ILE:HG12	2.02	0.40
3:CS:57:ILE:HD12	3:CS:168:ALA:O	2.21	0.40
3:CS:65:PHE:CE1	3:CS:161:ALA:HB2	2.56	0.40
3:CT:57:ILE:HG21	3:CT:169:TRP:CD1	2.55	0.40
3:CT:191:ILE:HD12	3:CT:191:ILE:HA	1.96	0.40
3:CT:251:VAL:HA	3:CT:254:VAL:HG22	2.04	0.40
3:CU:65:PHE:CE1	3:CU:161:ALA:HB2	2.56	0.40
4:DU:68:LEU:HA	4:DU:97:LEU:HD23	2.03	0.40
4:EU:58:MET:SD	4:EU:58:MET:O	2.79	0.40
4:FU:71:THR:HG1	4:FU:89:LEU:HA	1.85	0.40
4:FU:71:THR:OG1	4:FU:89:LEU:HA	2.21	0.40
2:BV:166:GLY:O	3:CV:132:GLY:HA2	2.20	0.40
2:BV:234:PHE:CE2	2:BV:309:LEU:HD22	2.56	0.40
4:DV:64:LEU:HD13	4:DV:101:ILE:HB	2.02	0.40
4:DV:73:MET:HE1	4:DV:78:LEU:HA	2.02	0.40
3:CW:36:ARG:HH21	3:CW:44:ARG:HH11	1.69	0.40
3:CW:169:TRP:HH2	3:CW:231:LEU:HD11	1.86	0.40
4:DW:68:LEU:HA	4:DW:97:LEU:HD23	2.03	0.40
4:DW:108:GLN:HB3	4:DW:124:ASP:OD1	2.21	0.40
3:CX:272:LEU:HB2	4:DX:60:ILE:HB	2.03	0.40
4:EX:119:GLY:HA2	4:FX:89:LEU:HD13	2.03	0.40
1:AY:549:LEU:C	1:AY:549:LEU:HD12	2.46	0.40
2:BY:167:VAL:HG13	2:BY:172:LEU:HD23	2.03	0.40
2:BY:263:LEU:O	2:BY:271:ARG:HD3	2.21	0.40
2:BY:300:GLN:O	2:BY:304:GLU:HG2	2.21	0.40
2:B1:13:LEU:HD13	2:B1:59:PHE:CD1	2.56	0.40
4:F1:122:ILE:HD12	3:CY:246:TRP:HZ2	1.86	0.40
3:C3:36:ARG:HH21	3:C3:44:ARG:HH11	1.69	0.40
3:C4:54:LEU:HB2	3:C4:231:LEU:HD23	2.02	0.40
1:A5:540:SER:OG	2:B5:21:ARG:HD3	2.21	0.40
2:B6:158:MET:C	2:B6:158:MET:SD	3.04	0.40
4:F6:71:THR:OG1	4:F6:89:LEU:HA	2.22	0.40
2:B7:207:LYS:HG3	2:B7:209:GLN:H	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:300:GLN:O	2:B7:304:GLU:HG2	2.21	0.40
3:C7:179:TYR:OH	3:C7:182:SER:OG	2.25	0.40
2:B8:239:LEU:HD23	2:B8:239:LEU:HA	1.83	0.40
2:B9:300:GLN:O	2:B9:304:GLU:HG2	2.21	0.40
2:BB:111:ASN:CG	2:BB:138:LYS:H	2.29	0.40
4:FB:108:GLN:OE1	4:FB:134:ARG:NH2	2.54	0.40
2:BC:26:PHE:HA	2:BC:29:LEU:HD12	2.03	0.40
3:CC:86:ILE:HD13	3:CC:200:VAL:HG22	2.03	0.40
3:CC:267:ASP:OD1	4:DC:63:LYS:HD2	2.20	0.40
4:EC:74:THR:HG22	4:EC:75:ILE:N	2.37	0.40
2:BD:14:LEU:O	2:BE:76:TYR:OH	2.30	0.40
3:CD:57:ILE:HD12	3:CD:168:ALA:O	2.21	0.40
3:CD:65:PHE:CE1	3:CD:161:ALA:HB2	2.56	0.40
3:CD:271:ARG:O	3:CD:275:ILE:HG12	2.20	0.40
4:DD:68:LEU:HA	4:DD:97:LEU:HD23	2.03	0.40
2:BE:209:GLN:HA	2:BE:212:GLU:CD	2.47	0.40
3:CE:86:ILE:HD13	3:CE:200:VAL:HG22	2.03	0.40
3:CE:240:ARG:N	3:CE:242:GLU:OE1	2.44	0.40
2:BG:19:GLU:OE1	2:BH:79:SER:OG	2.33	0.40
2:BG:42:ALA:CB	2:BH:97:ILE:HG23	2.52	0.40
2:BG:48:SER:HB3	2:BH:66:PHE:CD1	2.56	0.40
2:BG:263:LEU:O	2:BG:271:ARG:HD3	2.21	0.40
3:CG:271:ARG:O	3:CG:275:ILE:HG12	2.20	0.40
4:EG:73:MET:SD	4:EG:77:GLU:HB2	2.61	0.40
1:AI:549:LEU:O	1:AI:552:ARG:HB2	2.21	0.40
2:BJ:42:ALA:CB	2:BK:97:ILE:HG23	2.52	0.40
2:BJ:136:HIS:CD2	2:BK:193:MET:HE1	2.56	0.40
2:BJ:207:LYS:HG3	2:BJ:209:GLN:H	1.87	0.40
3:CJ:54:LEU:HD23	3:CJ:84:ILE:HD13	2.03	0.40
3:CJ:57:ILE:HD12	3:CJ:168:ALA:O	2.22	0.40
3:CJ:86:ILE:HD13	3:CJ:200:VAL:HG22	2.02	0.40
3:CJ:169:TRP:HH2	3:CJ:231:LEU:HD11	1.85	0.40
4:EJ:86:VAL:HA	4:FJ:120:VAL:O	2.22	0.40
2:BK:69:LEU:HB3	2:BK:70:ASN:H	1.79	0.40
3:CK:54:LEU:HD23	3:CK:84:ILE:HD13	2.03	0.40
3:CK:251:VAL:HA	3:CK:254:VAL:HG22	2.03	0.40
4:FK:95:GLU:OE1	4:FK:95:GLU:N	2.51	0.40
3:CL:250:LEU:HD21	4:EM:78:LEU:O	2.21	0.40
4:FL:71:THR:OG1	4:FL:89:LEU:HA	2.21	0.40
3:CM:118:PHE:CD2	3:CM:157:MET:HE3	2.56	0.40
4:EN:86:VAL:HA	4:FN:120:VAL:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:5:SER:O	2:BO:9:LYS:HG3	2.21	0.40
2:BO:207:LYS:HG3	2:BO:209:GLN:H	1.86	0.40
3:CO:118:PHE:CZ	3:CO:157:MET:HG3	2.56	0.40
3:CQ:301:VAL:C	3:CQ:321:ILE:HG12	2.45	0.40
2:BR:126:HIS:HB3	2:BR:129:ILE:HG12	2.03	0.40
2:BR:263:LEU:O	2:BR:271:ARG:HD3	2.21	0.40
2:BU:167:VAL:HG13	2:BU:172:LEU:HD23	2.03	0.40
3:CV:230:LEU:HD23	3:CV:230:LEU:HA	1.90	0.40
4:DW:105:LEU:HB2	4:DW:131:ARG:HE	1.85	0.40
3:CY:38:TYR:HB2	4:EY:113:VAL:HB	2.03	0.40
2:B1:5:SER:O	2:B1:9:LYS:HG3	2.21	0.40
1:A2:523:ALA:HA	1:A2:526:ARG:HG2	2.03	0.40
3:C2:36:ARG:HH21	3:C2:44:ARG:HH11	1.69	0.40
3:C3:86:ILE:HD13	3:C3:200:VAL:HG22	2.03	0.40
1:A4:554:TRP:HA	1:A4:557:ASN:HD21	1.86	0.40
3:C4:54:LEU:HD23	3:C4:84:ILE:HD13	2.03	0.40
4:D4:129:SER:O	4:D4:133:ARG:HD3	2.21	0.40
1:A5:555:MET:SD	2:B5:33:GLU:HB3	2.61	0.40
2:B5:263:LEU:O	2:B5:271:ARG:HD3	2.21	0.40
4:D5:73:MET:HE1	4:D5:78:LEU:HA	2.02	0.40
2:B6:15:MET:HB3	2:B7:69:LEU:HD11	2.03	0.40
2:B6:158:MET:HE1	2:B7:218:VAL:HG21	2.03	0.40
2:B6:234:PHE:CE2	2:B6:309:LEU:HD22	2.57	0.40
3:C6:247:ARG:HH12	4:E7:79:LEU:HD22	1.86	0.40
4:E6:86:VAL:HA	4:F6:120:VAL:O	2.22	0.40
4:E6:127:THR:HG23	4:E6:130:GLU:OE2	2.21	0.40
3:C7:118:PHE:CZ	3:C7:157:MET:HG3	2.56	0.40
4:E7:99:ILE:HG12	4:E7:120:VAL:HG21	2.04	0.40
1:A8:532:MET:HE3	2:B8:56:LEU:HD13	2.03	0.40
2:B8:101:ARG:N	2:B8:101:ARG:HD3	2.36	0.40
3:C8:57:ILE:HD12	3:C8:168:ALA:O	2.22	0.40
3:C9:38:TYR:H	4:E9:112:VAL:HA	1.86	0.40
3:C9:267:ASP:OD1	4:D9:63:LYS:HD2	2.20	0.40
4:E9:99:ILE:HG12	4:E9:120:VAL:HG21	2.03	0.40
3:CB:234:PRO:O	3:CB:236:LEU:N	2.46	0.40
2:BC:4:LEU:HD23	2:BC:4:LEU:HA	1.91	0.40
2:BC:139:ARG:HD2	2:BD:201:GLU:C	2.46	0.40
2:BC:239:LEU:HD23	2:BC:239:LEU:HA	1.86	0.40
3:CC:65:PHE:CE1	3:CC:161:ALA:HB2	2.57	0.40
4:FC:65:THR:HG23	4:FC:100:LEU:HB2	2.03	0.40
1:AD:546:VAL:HG22	2:BD:70:ASN:HD21	1.85	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:267:ASP:OD1	4:DD:63:LYS:HD2	2.20	0.40
4:ED:86:VAL:HA	4:FD:120:VAL:O	2.21	0.40
4:ED:99:ILE:HG12	4:ED:120:VAL:HG21	2.03	0.40
2:BE:300:GLN:O	2:BE:304:GLU:HG2	2.21	0.40
3:CE:267:ASP:OD1	4:DE:63:LYS:HD2	2.20	0.40
4:DE:79:LEU:HD23	4:DE:80:ARG:HH21	1.85	0.40
4:FE:100:LEU:HG	4:FE:105:LEU:CA	2.51	0.40
2:BF:46:GLN:HE22	2:BG:70:ASN:HB3	1.85	0.40
2:BF:47:ILE:O	2:BG:68:ALA:HB3	2.22	0.40
2:BF:250:LEU:O	2:BF:254:VAL:HG12	2.20	0.40
3:CF:136:ARG:HG3	3:CF:137:PHE:HD1	1.86	0.40
4:DF:135:LEU:HD12	4:DF:135:LEU:HA	1.89	0.40
2:BG:133:ILE:HD13	2:BG:133:ILE:HA	1.94	0.40
2:BG:167:VAL:HG13	2:BG:172:LEU:HD23	2.03	0.40
3:CG:274:GLN:HG3	3:CG:277:LYS:HE3	2.03	0.40
4:EG:86:VAL:HA	4:FG:120:VAL:O	2.22	0.40
4:EG:130:GLU:HB2	4:EG:133:ARG:NE	2.37	0.40
2:BH:10:SER:HA	2:BH:13:LEU:HD12	2.02	0.40
2:BH:300:GLN:O	2:BH:304:GLU:HG2	2.21	0.40
3:CH:69:LEU:HB2	3:CH:77:PRO:HG3	2.03	0.40
2:BI:47:ILE:HD12	2:BI:47:ILE:HA	1.94	0.40
2:BJ:4:LEU:HD23	2:BJ:4:LEU:HA	1.91	0.40
2:BJ:250:LEU:O	2:BJ:254:VAL:HG12	2.22	0.40
4:FJ:95:GLU:OE1	4:FJ:95:GLU:N	2.51	0.40
2:BL:81:LEU:HD12	2:BL:94:LEU:HG	2.03	0.40
3:CM:96:LEU:HD23	3:CM:96:LEU:HA	1.94	0.40
4:EM:68:LEU:HD12	4:EM:97:LEU:HD21	2.02	0.40
4:EM:130:GLU:N	4:EM:130:GLU:OE1	2.52	0.40
2:BN:123:ARG:HE	2:BN:123:ARG:HB2	1.75	0.40
3:CN:38:TYR:H	4:EN:112:VAL:HA	1.86	0.40
4:DN:64:LEU:HD13	4:DN:101:ILE:HB	2.02	0.40
4:DN:68:LEU:HA	4:DN:97:LEU:HD23	2.03	0.40
4:EN:71:THR:HA	4:EN:90:ASP:OD2	2.21	0.40
2:BO:166:GLY:O	2:BP:190:ARG:NE	2.32	0.40
2:BO:263:LEU:O	2:BO:271:ARG:HD3	2.22	0.40
2:BO:300:GLN:O	2:BO:304:GLU:HG2	2.21	0.40
4:EO:118:TYR:CG	4:FO:68:LEU:HD21	2.55	0.40
1:AP:523:ALA:HA	1:AP:526:ARG:HG2	2.03	0.40
3:CP:251:VAL:HA	3:CP:254:VAL:HG22	2.03	0.40
3:CP:260:GLU:HA	4:DP:72:ARG:HH22	1.86	0.40
2:BQ:167:VAL:HG13	2:BQ:172:LEU:HD23	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:251:VAL:HA	3:CQ:254:VAL:HG22	2.04	0.40
4:DQ:96:PRO:HB2	4:DQ:108:GLN:HG3	2.03	0.40
2:BR:17:ILE:O	2:BR:21:ARG:HD2	2.20	0.40
3:CR:127:VAL:HG22	3:CR:153:VAL:HG21	2.04	0.40
1:AS:523:ALA:HA	1:AS:526:ARG:HG2	2.03	0.40
2:BS:5:SER:O	2:BS:9:LYS:HG3	2.21	0.40
3:CS:251:VAL:HA	3:CS:254:VAL:HG22	2.03	0.40
4:ES:86:VAL:HA	4:FS:120:VAL:O	2.22	0.40
4:FS:71:THR:OG1	4:FS:89:LEU:HA	2.21	0.40
1:AT:555:MET:HE1	2:BT:29:LEU:HD22	2.03	0.40
2:BT:5:SER:O	2:BT:9:LYS:HG3	2.22	0.40
2:BT:46:GLN:HE21	2:BU:68:ALA:H	1.69	0.40
2:BT:113:MET:SD	2:BT:118:ALA:HB2	2.61	0.40
1:AU:551:ILE:HD13	2:BU:14:LEU:HD21	2.03	0.40
2:BU:300:GLN:O	2:BU:304:GLU:HG2	2.21	0.40
2:BV:158:MET:HE1	2:BW:218:VAL:HG21	2.04	0.40
3:CV:38:TYR:HB2	4:EV:113:VAL:HB	2.03	0.40
3:CV:249:ASN:HB3	4:FW:125:ILE:HD13	2.03	0.40
1:AW:516:GLU:HA	1:AW:519:GLN:HG2	2.03	0.40
4:EW:71:THR:O	4:FW:64:LEU:HG	2.21	0.40
2:BX:126:HIS:HB3	2:BX:129:ILE:HG12	2.03	0.40
3:CX:272:LEU:HD12	3:CX:272:LEU:HA	1.95	0.40
4:EX:58:MET:SD	4:EX:58:MET:O	2.79	0.40
4:FX:64:LEU:HD23	4:FX:64:LEU:H	1.86	0.40
4:DY:79:LEU:HD23	4:DY:80:ARG:HH21	1.86	0.40
4:EY:99:ILE:HG12	4:EY:120:VAL:HG21	2.03	0.40
1:A1:549:LEU:HD11	2:BY:46:GLN:OE1	2.21	0.40
2:B1:21:ARG:O	2:B1:25:VAL:HG23	2.21	0.40
3:C1:86:ILE:HD13	3:C1:200:VAL:HG22	2.03	0.40
3:C1:251:VAL:HA	3:C1:254:VAL:HG22	2.03	0.40
3:C1:265:PHE:HA	3:C1:292:ILE:HD12	2.03	0.40
4:E1:73:MET:SD	4:E1:77:GLU:HB2	2.60	0.40
4:E1:119:GLY:HA2	4:F1:89:LEU:HD13	2.04	0.40
2:B2:230:ILE:O	2:B2:233:MET:HB2	2.21	0.40
3:C2:86:ILE:HD13	3:C2:200:VAL:HG22	2.03	0.40
4:D2:66:VAL:HG12	4:D2:99:ILE:HG12	2.02	0.40
4:E2:106:ILE:HD12	4:E2:125:ILE:HD11	2.04	0.40
4:F2:71:THR:OG1	4:F2:89:LEU:HA	2.22	0.40
3:C4:57:ILE:HD12	3:C4:168:ALA:O	2.22	0.40
4:F4:106:ILE:O	4:F4:126:ILE:HG12	2.21	0.40
1:A5:516:GLU:HG2	1:A5:517:GLN:N	2.37	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B5:300:GLN:O	2:B5:304:GLU:HG2	2.22	0.40
3:C5:191:ILE:HD12	3:C5:191:ILE:HA	1.94	0.40
4:D5:68:LEU:HA	4:D5:97:LEU:HD23	2.03	0.40
4:E6:106:ILE:HD12	4:E6:125:ILE:HD11	2.03	0.40
1:A7:554:TRP:HA	1:A7:557:ASN:HD21	1.86	0.40
3:C8:267:ASP:OD1	4:D8:63:LYS:HD2	2.20	0.40
4:F8:64:LEU:HD23	4:F8:64:LEU:H	1.85	0.40
4:F8:71:THR:OG1	4:F8:89:LEU:HA	2.22	0.40
2:B9:72:ASN:O	2:B9:76:TYR:HB2	2.22	0.40
3:C9:159:LYS:O	3:C9:162:LEU:HG	2.22	0.40
3:CA:267:ASP:OD1	4:DA:63:LYS:HD2	2.20	0.40
3:CA:271:ARG:O	3:CA:275:ILE:HG12	2.21	0.40
4:EA:71:THR:O	4:FA:64:LEU:HD23	2.21	0.40
4:EA:128:PRO:HB3	4:EA:131:ARG:HE	1.86	0.40
3:CB:267:ASP:OD1	4:DB:63:LYS:HD2	2.20	0.40
4:DB:96:PRO:HB2	4:DB:108:GLN:HG3	2.02	0.40
2:BC:133:ILE:HD13	2:BC:133:ILE:HA	1.93	0.40
2:BC:263:LEU:O	2:BC:271:ARG:HD3	2.21	0.40
3:CC:152:ARG:HA	3:CC:152:ARG:HD2	1.90	0.40
3:CC:247:ARG:HH12	4:ED:79:LEU:HD22	1.87	0.40
4:FC:126:ILE:HD12	4:FC:131:ARG:HB2	2.03	0.40
1:AD:552:ARG:HA	1:AD:555:MET:HE3	2.04	0.40
2:BD:209:GLN:HA	2:BD:212:GLU:CD	2.47	0.40
1:AE:555:MET:HA	1:AE:558:ASP:OD2	2.21	0.40
2:BE:234:PHE:CE2	2:BE:309:LEU:HD22	2.56	0.40
3:CE:54:LEU:HD23	3:CE:84:ILE:HD13	2.02	0.40
3:CE:286:ILE:HG13	3:CE:287:GLU:O	2.21	0.40
4:FE:106:ILE:O	4:FE:126:ILE:HG12	2.21	0.40
4:FE:133:ARG:HH12	4:FE:137:ARG:NH1	2.20	0.40
2:BF:30:SER:O	2:BF:34:VAL:HG23	2.21	0.40
2:BF:133:ILE:HD13	2:BF:133:ILE:HA	1.93	0.40
2:BF:245:ARG:NH1	2:BF:249:ARG:HB2	2.35	0.40
3:CF:96:LEU:HD23	3:CF:96:LEU:HA	1.94	0.40
4:FF:95:GLU:OE1	4:FF:95:GLU:N	2.51	0.40
2:BG:297:ARG:HH12	2:BH:329:THR:C	2.28	0.40
3:CG:272:LEU:HB2	4:DG:60:ILE:HB	2.04	0.40
2:BH:13:LEU:HD13	2:BH:59:PHE:CD1	2.56	0.40
3:CH:38:TYR:H	4:EH:112:VAL:HA	1.86	0.40
4:FH:71:THR:OG1	4:FH:89:LEU:HA	2.21	0.40
2:BI:245:ARG:NH2	2:BI:321:MET:HB3	2.36	0.40
2:BI:253:GLU:HG3	2:BI:315:LEU:HD11	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:136:ARG:HG3	3:CI:137:PHE:HD1	1.86	0.40
4:EJ:130:GLU:OE1	4:EJ:130:GLU:N	2.54	0.40
2:BL:111:ASN:CG	2:BL:138:LYS:H	2.30	0.40
3:CM:54:LEU:HD23	3:CM:84:ILE:HD13	2.03	0.40
3:CM:169:TRP:HH2	3:CM:231:LEU:HD11	1.86	0.40
2:BO:239:LEU:HD23	2:BO:239:LEU:HA	1.87	0.40
3:CO:220:PRO:HD2	3:CO:223:MET:HG3	2.01	0.40
4:DO:79:LEU:HD23	4:DO:80:ARG:HH21	1.87	0.40
2:BP:34:VAL:O	2:BP:38:SER:OG	2.30	0.40
2:BP:250:LEU:O	2:BP:254:VAL:HG12	2.21	0.40
3:CP:54:LEU:HD23	3:CP:84:ILE:HD13	2.03	0.40
3:CQ:86:ILE:HD13	3:CQ:200:VAL:HG22	2.02	0.40
4:ER:86:VAL:HA	4:FR:120:VAL:O	2.21	0.40
4:ER:119:GLY:HA2	4:FR:89:LEU:HD13	2.02	0.40
2:BS:111:ASN:OD1	2:BS:138:LYS:HB3	2.20	0.40
2:BS:166:GLY:O	3:CS:132:GLY:HA2	2.21	0.40
4:ES:99:ILE:HG12	4:ES:120:VAL:HG21	2.03	0.40
1:AT:540:SER:OG	2:BT:21:ARG:HD3	2.22	0.40
4:DT:68:LEU:HA	4:DT:97:LEU:HD23	2.03	0.40
1:AU:516:GLU:HA	1:AU:519:GLN:HG2	2.02	0.40
2:BU:134:LEU:HD23	2:BU:134:LEU:HA	1.90	0.40
3:CU:54:LEU:HB2	3:CU:231:LEU:HD23	2.03	0.40
4:FU:106:ILE:O	4:FU:126:ILE:HG12	2.21	0.40
4:FU:132:MET:SD	4:FU:135:LEU:HB3	2.62	0.40
3:CV:36:ARG:HH21	3:CV:44:ARG:HH11	1.69	0.40
4:FV:71:THR:OG1	4:FV:89:LEU:HA	2.21	0.40
2:BW:19:GLU:OE2	2:BX:80:VAL:HA	2.20	0.40
2:BW:167:VAL:HG13	2:BW:172:LEU:HD23	2.03	0.40
2:BW:300:GLN:O	2:BW:304:GLU:HG2	2.21	0.40
2:BW:308:ILE:O	2:BW:312:VAL:HG23	2.21	0.40
2:BX:230:ILE:O	2:BX:233:MET:HB2	2.20	0.40
4:EX:86:VAL:HA	4:FX:120:VAL:O	2.21	0.40
1:AY:551:ILE:HD13	2:BY:14:LEU:HD21	2.04	0.40
3:CY:86:ILE:HD13	3:CY:200:VAL:HG22	2.03	0.40
4:EY:128:PRO:HG3	4:EY:131:ARG:HH21	1.86	0.40
2:B1:53:THR:HA	2:B1:56:LEU:HG	2.03	0.40
2:B1:300:GLN:O	2:B1:304:GLU:HG2	2.21	0.40
4:E1:86:VAL:HA	4:F1:120:VAL:O	2.22	0.40
4:F1:65:THR:HG23	4:F1:100:LEU:HB2	2.03	0.40
1:A2:516:GLU:HA	1:A2:519:GLN:HG2	2.02	0.40
2:B2:139:ARG:HG2	2:B3:201:GLU:CD	2.47	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:300:GLN:O	2:B2:304:GLU:HG2	2.21	0.40
2:B3:42:ALA:HB3	2:B4:101:ARG:HH21	1.86	0.40
2:B3:207:LYS:HG3	2:B3:209:GLN:N	2.36	0.40
2:B3:250:LEU:O	2:B3:254:VAL:HG12	2.21	0.40
3:C4:247:ARG:HH12	4:E5:79:LEU:HD22	1.87	0.40
3:C4:274:GLN:HG3	3:C4:277:LYS:HE3	2.02	0.40
2:B5:234:PHE:CE2	2:B5:309:LEU:HD22	2.56	0.40
2:B6:85:LEU:HD22	2:B6:89:ARG:CZ	2.52	0.40
2:B6:146:LEU:O	2:B6:154:ARG:NE	2.46	0.40
3:C6:260:GLU:HA	4:D6:72:ARG:HH22	1.85	0.40
4:F6:65:THR:HG23	4:F6:100:LEU:HB2	2.02	0.40
1:A8:516:GLU:HA	1:A8:519:GLN:HG2	2.03	0.40
1:A8:555:MET:HE1	2:B8:29:LEU:HD22	2.04	0.40
1:AA:532:MET:SD	1:AA:532:MET:C	3.04	0.40
4:DA:105:LEU:HB2	4:DA:131:ARG:HE	1.86	0.40
2:BB:48:SER:HB3	2:BC:66:PHE:CD1	2.56	0.40
2:BB:95:GLU:HA	2:BB:98:LEU:HG	2.04	0.40
3:CB:65:PHE:CE1	3:CB:161:ALA:HB2	2.57	0.40
3:CB:302:LEU:HD13	3:CB:317:VAL:HG13	2.03	0.40
4:EB:86:VAL:HA	4:FB:120:VAL:O	2.22	0.40
2:BC:13:LEU:HD13	2:BC:59:PHE:CD1	2.56	0.40
2:BC:250:LEU:HD21	2:BC:321:MET:SD	2.61	0.40
3:CD:272:LEU:HD12	3:CD:272:LEU:HA	1.93	0.40
4:DD:130:GLU:HG3	4:DD:134:ARG:HD2	2.04	0.40
4:FE:95:GLU:OE1	4:FE:95:GLU:N	2.51	0.40
1:AF:549:LEU:O	1:AF:552:ARG:HB2	2.21	0.40
3:CF:314:ALA:HA	4:DF:88:ALA:HA	2.03	0.40
4:EF:131:ARG:HA	4:EF:134:ARG:NH1	2.37	0.40
2:BH:111:ASN:CG	2:BH:138:LYS:H	2.29	0.40
2:BH:133:ILE:HD13	2:BH:133:ILE:HA	1.94	0.40
3:CH:136:ARG:HG3	3:CH:137:PHE:HD1	1.86	0.40
3:CH:234:PRO:O	3:CH:236:LEU:N	2.46	0.40
2:BI:166:GLY:O	2:BJ:190:ARG:NE	2.31	0.40
2:BI:167:VAL:HG13	2:BI:172:LEU:HD23	2.03	0.40
3:CI:279:LYS:HA	3:CI:279:LYS:HD3	1.83	0.40
3:CJ:136:ARG:HG3	3:CJ:137:PHE:HD1	1.86	0.40
4:FJ:64:LEU:HD23	4:FJ:64:LEU:H	1.86	0.40
4:FJ:106:ILE:O	4:FJ:126:ILE:HG12	2.21	0.40
1:AK:516:GLU:HA	1:AK:519:GLN:HG2	2.03	0.40
2:BK:113:MET:SD	2:BK:118:ALA:HB2	2.62	0.40
2:BK:150:ASP:OD1	2:BK:153:LEU:HB3	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:230:ILE:O	2:BK:233:MET:HB2	2.21	0.40
2:BK:250:LEU:O	2:BK:254:VAL:HG12	2.21	0.40
2:BK:263:LEU:O	2:BK:271:ARG:HD3	2.21	0.40
3:CK:54:LEU:HB2	3:CK:231:LEU:HD23	2.04	0.40
3:CL:159:LYS:O	3:CL:162:LEU:HG	2.21	0.40
4:EL:128:PRO:HG3	4:EL:131:ARG:HH21	1.86	0.40
2:BM:167:VAL:HG13	2:BM:172:LEU:HD23	2.03	0.40
3:CM:38:TYR:H	4:EM:112:VAL:HA	1.87	0.40
4:FM:71:THR:OG1	4:FM:89:LEU:HA	2.21	0.40
4:FM:106:ILE:O	4:FM:126:ILE:HG12	2.22	0.40
2:BN:81:LEU:HD13	2:BN:93:LEU:HB2	2.04	0.40
4:DN:108:GLN:HB3	4:DN:124:ASP:OD1	2.22	0.40
4:FO:116:ASP:OD1	4:FO:116:ASP:O	2.39	0.40
2:BP:209:GLN:HA	2:BP:212:GLU:CD	2.47	0.40
4:DP:129:SER:O	4:DP:133:ARG:HD3	2.21	0.40
4:EP:71:THR:HA	4:EP:90:ASP:OD2	2.22	0.40
1:AQ:516:GLU:HA	1:AQ:519:GLN:HG2	2.03	0.40
1:AQ:536:ILE:HA	1:AQ:539:MET:HG2	2.03	0.40
3:CQ:136:ARG:HG3	3:CQ:137:PHE:HD1	1.86	0.40
2:BR:237:GLU:O	2:BR:240:VAL:HG12	2.22	0.40
2:BR:239:LEU:HD23	2:BR:239:LEU:HA	1.82	0.40
2:BR:250:LEU:O	2:BR:254:VAL:HG12	2.20	0.40
4:FR:106:ILE:O	4:FR:126:ILE:HG12	2.21	0.40
1:AS:546:VAL:HG22	2:BS:70:ASN:HD21	1.86	0.40
2:BS:111:ASN:CG	2:BS:138:LYS:H	2.29	0.40
2:BS:250:LEU:O	2:BS:254:VAL:HG12	2.21	0.40
2:BS:263:LEU:O	2:BS:271:ARG:HD3	2.21	0.40
2:BT:250:LEU:HD21	2:BT:321:MET:SD	2.61	0.40
2:BV:46:GLN:HG2	2:BW:70:ASN:HD22	1.86	0.40
2:BV:134:LEU:HA	2:BV:134:LEU:HD23	1.89	0.40
2:BV:157:VAL:O	2:BV:161:ILE:HG12	2.22	0.40
3:CV:286:ILE:HG13	3:CV:287:GLU:O	2.21	0.40
1:AW:523:ALA:HA	1:AW:526:ARG:HG2	2.03	0.40
2:BW:169:PRO:O	2:BW:172:LEU:HG	2.22	0.40
3:CW:118:PHE:CE2	3:CW:157:MET:HG3	2.57	0.40
4:FW:71:THR:OG1	4:FW:89:LEU:HA	2.22	0.40
4:FW:106:ILE:O	4:FW:126:ILE:HG12	2.21	0.40
3:CX:57:ILE:HD12	3:CX:168:ALA:O	2.22	0.40
2:BY:203:ILE:HG22	2:BY:211:GLU:HB2	2.04	0.40
3:CY:251:VAL:HA	3:CY:254:VAL:HG22	2.04	0.40
4:DY:64:LEU:HD13	4:DY:101:ILE:HB	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DY:96:PRO:HB2	4:DY:108:GLN:HG3	2.04	0.40
4:EY:86:VAL:HA	4:FY:120:VAL:O	2.21	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	A1	45/560 (8%)	45 (100%)	0	0	100	100
1	A2	45/560 (8%)	45 (100%)	0	0	100	100
1	A3	45/560 (8%)	45 (100%)	0	0	100	100
1	A4	45/560 (8%)	45 (100%)	0	0	100	100
1	A5	45/560 (8%)	45 (100%)	0	0	100	100
1	A6	45/560 (8%)	45 (100%)	0	0	100	100
1	A7	45/560 (8%)	45 (100%)	0	0	100	100
1	A8	45/560 (8%)	45 (100%)	0	0	100	100
1	A9	45/560 (8%)	45 (100%)	0	0	100	100
1	AA	45/560 (8%)	45 (100%)	0	0	100	100
1	AB	45/560 (8%)	45 (100%)	0	0	100	100
1	AC	45/560 (8%)	45 (100%)	0	0	100	100
1	AD	45/560 (8%)	45 (100%)	0	0	100	100
1	AE	45/560 (8%)	45 (100%)	0	0	100	100
1	AF	45/560 (8%)	45 (100%)	0	0	100	100
1	AG	45/560 (8%)	44 (98%)	1 (2%)	0	100	100
1	AH	45/560 (8%)	45 (100%)	0	0	100	100
1	AI	45/560 (8%)	45 (100%)	0	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AJ	45/560 (8%)	45 (100%)	0	0	100	100
1	AK	45/560 (8%)	45 (100%)	0	0	100	100
1	AL	45/560 (8%)	45 (100%)	0	0	100	100
1	AM	45/560 (8%)	45 (100%)	0	0	100	100
1	AN	45/560 (8%)	45 (100%)	0	0	100	100
1	AO	45/560 (8%)	45 (100%)	0	0	100	100
1	AP	45/560 (8%)	45 (100%)	0	0	100	100
1	AQ	45/560 (8%)	45 (100%)	0	0	100	100
1	AR	45/560 (8%)	45 (100%)	0	0	100	100
1	AS	45/560 (8%)	45 (100%)	0	0	100	100
1	AT	45/560 (8%)	45 (100%)	0	0	100	100
1	AU	45/560 (8%)	45 (100%)	0	0	100	100
1	AV	45/560 (8%)	45 (100%)	0	0	100	100
1	AW	45/560 (8%)	45 (100%)	0	0	100	100
1	AX	45/560 (8%)	44 (98%)	1 (2%)	0	100	100
1	AY	45/560 (8%)	45 (100%)	0	0	100	100
2	B1	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	B2	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	21	58
2	B3	329/331 (99%)	315 (96%)	12 (4%)	2 (1%)	21	58
2	B4	329/331 (99%)	312 (95%)	14 (4%)	3 (1%)	14	49
2	B5	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	B6	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	B7	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	B8	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	14	49
2	B9	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	BA	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	BB	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	21	58
2	BC	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	BD	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	BE	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BF	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	14	49

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BG	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	BH	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	BI	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BJ	329/331 (99%)	312 (95%)	15 (5%)	2 (1%)	21	58
2	BK	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	14	49
2	BL	329/331 (99%)	315 (96%)	11 (3%)	3 (1%)	14	49
2	BM	329/331 (99%)	310 (94%)	17 (5%)	2 (1%)	21	58
2	BN	329/331 (99%)	314 (95%)	13 (4%)	2 (1%)	21	58
2	BO	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BP	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	BQ	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BR	329/331 (99%)	313 (95%)	14 (4%)	2 (1%)	21	58
2	BS	329/331 (99%)	313 (95%)	14 (4%)	2 (1%)	21	58
2	BT	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
2	BU	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BV	329/331 (99%)	314 (95%)	12 (4%)	3 (1%)	14	49
2	BW	329/331 (99%)	317 (96%)	9 (3%)	3 (1%)	14	49
2	BX	329/331 (99%)	311 (94%)	15 (5%)	3 (1%)	14	49
2	BY	329/331 (99%)	313 (95%)	13 (4%)	3 (1%)	14	49
3	C1	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C2	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C3	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C4	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C5	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C6	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	C7	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	C8	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	C9	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CA	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CB	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CC	288/334 (86%)	277 (96%)	11 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CD	288/334 (86%)	279 (97%)	9 (3%)	0	100	100
3	CE	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CF	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CG	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CH	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CI	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CJ	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CK	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CL	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CM	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CN	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CO	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CP	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CQ	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CR	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CS	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CT	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CU	288/334 (86%)	278 (96%)	10 (4%)	0	100	100
3	CV	288/334 (86%)	277 (96%)	11 (4%)	0	100	100
3	CW	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
3	CX	288/334 (86%)	276 (96%)	12 (4%)	0	100	100
3	CY	288/334 (86%)	275 (96%)	13 (4%)	0	100	100
4	D1	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D2	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D3	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	D4	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D5	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D6	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D7	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D8	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	D9	79/137 (58%)	71 (90%)	8 (10%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	DA	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DB	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DC	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DD	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DE	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	DF	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DG	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DH	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DI	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DJ	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DK	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DL	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DM	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DN	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DO	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DP	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DQ	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DR	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DS	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DT	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DU	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DV	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	DW	79/137 (58%)	70 (89%)	9 (11%)	0	100	100
4	DX	79/137 (58%)	71 (90%)	8 (10%)	0	100	100
4	DY	79/137 (58%)	72 (91%)	7 (9%)	0	100	100
4	E1	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E2	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E3	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E4	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E5	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E6	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	E7	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E8	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	E9	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EA	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EB	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41
4	EC	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41
4	ED	79/137 (58%)	77 (98%)	1 (1%)	1 (1%)	9	41
4	EE	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EF	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	9	41
4	EG	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EH	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	9	41
4	EI	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EJ	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EK	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EL	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EM	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EN	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41
4	EO	79/137 (58%)	73 (92%)	5 (6%)	1 (1%)	9	41
4	EP	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41
4	EQ	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	ER	79/137 (58%)	76 (96%)	2 (2%)	1 (1%)	9	41
4	ES	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	ET	79/137 (58%)	75 (95%)	3 (4%)	1 (1%)	9	41
4	EU	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EV	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EW	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EX	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	EY	79/137 (58%)	74 (94%)	4 (5%)	1 (1%)	9	41
4	F1	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F2	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F3	79/137 (58%)	76 (96%)	3 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	F4	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F5	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F6	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	F7	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	F8	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	F9	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FA	79/137 (58%)	77 (98%)	2 (2%)	0	100	100
4	FB	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FC	79/137 (58%)	74 (94%)	5 (6%)	0	100	100
4	FD	79/137 (58%)	74 (94%)	5 (6%)	0	100	100
4	FE	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FF	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FG	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FH	79/137 (58%)	77 (98%)	2 (2%)	0	100	100
4	FI	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FJ	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FK	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FL	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FM	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FN	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FO	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FP	79/137 (58%)	75 (95%)	4 (5%)	0	100	100
4	FQ	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FR	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FS	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FT	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FU	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FV	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FW	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FX	79/137 (58%)	76 (96%)	3 (4%)	0	100	100
4	FY	79/137 (58%)	76 (96%)	3 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	30566/55624 (55%)	29108 (95%)	1330 (4%)	128 (0%)	31 67

All (128) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	E1	126	ILE
4	E2	126	ILE
4	E3	126	ILE
4	E4	126	ILE
4	E5	126	ILE
4	E6	126	ILE
4	E7	126	ILE
4	E8	126	ILE
4	E9	126	ILE
4	EA	126	ILE
4	EB	126	ILE
4	EC	126	ILE
4	ED	126	ILE
4	EE	126	ILE
4	EF	126	ILE
4	EG	126	ILE
4	EH	126	ILE
4	EI	126	ILE
4	EJ	126	ILE
4	EK	126	ILE
4	EL	126	ILE
4	EM	126	ILE
4	EN	126	ILE
4	EO	126	ILE
4	EP	126	ILE
4	EQ	126	ILE
4	ER	126	ILE
4	ES	126	ILE
4	ET	126	ILE
4	EU	126	ILE
4	EV	126	ILE
4	EW	126	ILE
4	EX	126	ILE
4	EY	126	ILE
2	B2	235	LEU
2	B3	235	LEU
2	B4	235	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B5	235	LEU
2	B6	235	LEU
2	B8	235	LEU
2	BB	235	LEU
2	BC	235	LEU
2	BE	235	LEU
2	BF	235	LEU
2	BG	235	LEU
2	BH	235	LEU
2	BJ	235	LEU
2	BK	235	LEU
2	BL	235	LEU
2	BM	235	LEU
2	BN	235	LEU
2	BO	235	LEU
2	BQ	235	LEU
2	BS	235	LEU
2	BT	235	LEU
2	BW	235	LEU
2	BX	235	LEU
2	BY	235	LEU
2	B1	235	LEU
2	B7	235	LEU
2	B9	235	LEU
2	BA	235	LEU
2	BD	235	LEU
2	BI	235	LEU
2	BP	235	LEU
2	BR	235	LEU
2	BU	235	LEU
2	BV	235	LEU
2	BL	243	ASP
2	BU	243	ASP
2	B1	187	ASN
2	B1	243	ASP
2	B2	187	ASN
2	B3	187	ASN
2	B4	187	ASN
2	B4	243	ASP
2	B5	187	ASN
2	B5	243	ASP
2	B6	187	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B6	243	ASP
2	B7	187	ASN
2	B7	243	ASP
2	B8	187	ASN
2	B8	243	ASP
2	B9	187	ASN
2	B9	243	ASP
2	BA	187	ASN
2	BA	243	ASP
2	BB	187	ASN
2	BC	187	ASN
2	BC	243	ASP
2	BD	187	ASN
2	BD	243	ASP
2	BE	187	ASN
2	BE	243	ASP
2	BF	187	ASN
2	BF	243	ASP
2	BG	187	ASN
2	BG	243	ASP
2	BH	187	ASN
2	BH	243	ASP
2	BI	187	ASN
2	BI	243	ASP
2	BJ	187	ASN
2	BK	187	ASN
2	BK	243	ASP
2	BL	187	ASN
2	BM	187	ASN
2	BN	187	ASN
2	BO	187	ASN
2	BO	243	ASP
2	BP	187	ASN
2	BP	243	ASP
2	BQ	187	ASN
2	BQ	243	ASP
2	BR	187	ASN
2	BS	187	ASN
2	BT	187	ASN
2	BT	243	ASP
2	BU	187	ASN
2	BV	187	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BV	243	ASP
2	BW	187	ASN
2	BW	243	ASP
2	BX	187	ASN
2	BX	243	ASP
2	BY	187	ASN
2	BY	243	ASP

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A1	43/467 (9%)	43 (100%)	0	100	100
1	A2	43/467 (9%)	43 (100%)	0	100	100
1	A3	43/467 (9%)	43 (100%)	0	100	100
1	A4	43/467 (9%)	43 (100%)	0	100	100
1	A5	43/467 (9%)	43 (100%)	0	100	100
1	A6	43/467 (9%)	43 (100%)	0	100	100
1	A7	43/467 (9%)	43 (100%)	0	100	100
1	A8	43/467 (9%)	43 (100%)	0	100	100
1	A9	43/467 (9%)	43 (100%)	0	100	100
1	AA	43/467 (9%)	43 (100%)	0	100	100
1	AB	43/467 (9%)	43 (100%)	0	100	100
1	AC	43/467 (9%)	43 (100%)	0	100	100
1	AD	43/467 (9%)	43 (100%)	0	100	100
1	AE	43/467 (9%)	43 (100%)	0	100	100
1	AF	43/467 (9%)	43 (100%)	0	100	100
1	AG	43/467 (9%)	43 (100%)	0	100	100
1	AH	43/467 (9%)	43 (100%)	0	100	100
1	AI	43/467 (9%)	43 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AJ	43/467 (9%)	43 (100%)	0	100	100
1	AK	43/467 (9%)	43 (100%)	0	100	100
1	AL	43/467 (9%)	43 (100%)	0	100	100
1	AM	43/467 (9%)	43 (100%)	0	100	100
1	AN	43/467 (9%)	43 (100%)	0	100	100
1	AO	43/467 (9%)	43 (100%)	0	100	100
1	AP	43/467 (9%)	43 (100%)	0	100	100
1	AQ	43/467 (9%)	43 (100%)	0	100	100
1	AR	43/467 (9%)	43 (100%)	0	100	100
1	AS	43/467 (9%)	43 (100%)	0	100	100
1	AT	43/467 (9%)	43 (100%)	0	100	100
1	AU	43/467 (9%)	43 (100%)	0	100	100
1	AV	43/467 (9%)	43 (100%)	0	100	100
1	AW	43/467 (9%)	43 (100%)	0	100	100
1	AX	43/467 (9%)	43 (100%)	0	100	100
1	AY	43/467 (9%)	43 (100%)	0	100	100
2	B1	282/282 (100%)	282 (100%)	0	100	100
2	B2	282/282 (100%)	282 (100%)	0	100	100
2	B3	282/282 (100%)	282 (100%)	0	100	100
2	B4	282/282 (100%)	282 (100%)	0	100	100
2	B5	282/282 (100%)	282 (100%)	0	100	100
2	B6	282/282 (100%)	282 (100%)	0	100	100
2	B7	282/282 (100%)	282 (100%)	0	100	100
2	B8	282/282 (100%)	282 (100%)	0	100	100
2	B9	282/282 (100%)	282 (100%)	0	100	100
2	BA	282/282 (100%)	282 (100%)	0	100	100
2	BB	282/282 (100%)	282 (100%)	0	100	100
2	BC	282/282 (100%)	282 (100%)	0	100	100
2	BD	282/282 (100%)	282 (100%)	0	100	100
2	BE	282/282 (100%)	282 (100%)	0	100	100
2	BF	282/282 (100%)	282 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	BG	282/282 (100%)	282 (100%)	0	100	100
2	BH	282/282 (100%)	282 (100%)	0	100	100
2	BI	282/282 (100%)	282 (100%)	0	100	100
2	BJ	282/282 (100%)	282 (100%)	0	100	100
2	BK	282/282 (100%)	282 (100%)	0	100	100
2	BL	282/282 (100%)	282 (100%)	0	100	100
2	BM	282/282 (100%)	282 (100%)	0	100	100
2	BN	282/282 (100%)	282 (100%)	0	100	100
2	BO	282/282 (100%)	282 (100%)	0	100	100
2	BP	282/282 (100%)	282 (100%)	0	100	100
2	BQ	282/282 (100%)	282 (100%)	0	100	100
2	BR	282/282 (100%)	282 (100%)	0	100	100
2	BS	282/282 (100%)	282 (100%)	0	100	100
2	BT	282/282 (100%)	282 (100%)	0	100	100
2	BU	282/282 (100%)	282 (100%)	0	100	100
2	BV	282/282 (100%)	282 (100%)	0	100	100
2	BW	282/282 (100%)	282 (100%)	0	100	100
2	BX	282/282 (100%)	282 (100%)	0	100	100
2	BY	282/282 (100%)	282 (100%)	0	100	100
3	C1	263/301 (87%)	263 (100%)	0	100	100
3	C2	263/301 (87%)	263 (100%)	0	100	100
3	C3	263/301 (87%)	263 (100%)	0	100	100
3	C4	263/301 (87%)	263 (100%)	0	100	100
3	C5	263/301 (87%)	263 (100%)	0	100	100
3	C6	263/301 (87%)	263 (100%)	0	100	100
3	C7	263/301 (87%)	263 (100%)	0	100	100
3	C8	263/301 (87%)	263 (100%)	0	100	100
3	C9	263/301 (87%)	263 (100%)	0	100	100
3	CA	263/301 (87%)	263 (100%)	0	100	100
3	CB	263/301 (87%)	263 (100%)	0	100	100
3	CC	263/301 (87%)	263 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	CD	263/301 (87%)	263 (100%)	0	100	100
3	CE	263/301 (87%)	263 (100%)	0	100	100
3	CF	263/301 (87%)	263 (100%)	0	100	100
3	CG	263/301 (87%)	263 (100%)	0	100	100
3	CH	263/301 (87%)	263 (100%)	0	100	100
3	CI	263/301 (87%)	263 (100%)	0	100	100
3	CJ	263/301 (87%)	263 (100%)	0	100	100
3	CK	263/301 (87%)	263 (100%)	0	100	100
3	CL	263/301 (87%)	263 (100%)	0	100	100
3	CM	263/301 (87%)	263 (100%)	0	100	100
3	CN	263/301 (87%)	263 (100%)	0	100	100
3	CO	263/301 (87%)	263 (100%)	0	100	100
3	CP	263/301 (87%)	263 (100%)	0	100	100
3	CQ	263/301 (87%)	263 (100%)	0	100	100
3	CR	263/301 (87%)	263 (100%)	0	100	100
3	CS	263/301 (87%)	263 (100%)	0	100	100
3	CT	263/301 (87%)	263 (100%)	0	100	100
3	CU	263/301 (87%)	263 (100%)	0	100	100
3	CV	263/301 (87%)	263 (100%)	0	100	100
3	CW	263/301 (87%)	263 (100%)	0	100	100
3	CX	263/301 (87%)	263 (100%)	0	100	100
3	CY	263/301 (87%)	263 (100%)	0	100	100
4	D1	70/113 (62%)	70 (100%)	0	100	100
4	D2	70/113 (62%)	70 (100%)	0	100	100
4	D3	70/113 (62%)	70 (100%)	0	100	100
4	D4	70/113 (62%)	70 (100%)	0	100	100
4	D5	70/113 (62%)	70 (100%)	0	100	100
4	D6	70/113 (62%)	70 (100%)	0	100	100
4	D7	70/113 (62%)	70 (100%)	0	100	100
4	D8	70/113 (62%)	70 (100%)	0	100	100
4	D9	70/113 (62%)	70 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	DA	70/113 (62%)	70 (100%)	0	100	100
4	DB	70/113 (62%)	70 (100%)	0	100	100
4	DC	70/113 (62%)	70 (100%)	0	100	100
4	DD	70/113 (62%)	70 (100%)	0	100	100
4	DE	70/113 (62%)	70 (100%)	0	100	100
4	DF	70/113 (62%)	70 (100%)	0	100	100
4	DG	70/113 (62%)	70 (100%)	0	100	100
4	DH	70/113 (62%)	70 (100%)	0	100	100
4	DI	70/113 (62%)	70 (100%)	0	100	100
4	DJ	70/113 (62%)	70 (100%)	0	100	100
4	DK	70/113 (62%)	70 (100%)	0	100	100
4	DL	70/113 (62%)	70 (100%)	0	100	100
4	DM	70/113 (62%)	70 (100%)	0	100	100
4	DN	70/113 (62%)	70 (100%)	0	100	100
4	DO	70/113 (62%)	70 (100%)	0	100	100
4	DP	70/113 (62%)	70 (100%)	0	100	100
4	DQ	70/113 (62%)	70 (100%)	0	100	100
4	DR	70/113 (62%)	70 (100%)	0	100	100
4	DS	70/113 (62%)	70 (100%)	0	100	100
4	DT	70/113 (62%)	70 (100%)	0	100	100
4	DU	70/113 (62%)	70 (100%)	0	100	100
4	DV	70/113 (62%)	70 (100%)	0	100	100
4	DW	70/113 (62%)	70 (100%)	0	100	100
4	DX	70/113 (62%)	70 (100%)	0	100	100
4	DY	70/113 (62%)	70 (100%)	0	100	100
4	E1	70/113 (62%)	70 (100%)	0	100	100
4	E2	70/113 (62%)	70 (100%)	0	100	100
4	E3	70/113 (62%)	70 (100%)	0	100	100
4	E4	70/113 (62%)	70 (100%)	0	100	100
4	E5	70/113 (62%)	70 (100%)	0	100	100
4	E6	70/113 (62%)	70 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	E7	70/113 (62%)	70 (100%)	0	100	100
4	E8	70/113 (62%)	70 (100%)	0	100	100
4	E9	70/113 (62%)	70 (100%)	0	100	100
4	EA	70/113 (62%)	70 (100%)	0	100	100
4	EB	70/113 (62%)	70 (100%)	0	100	100
4	EC	70/113 (62%)	70 (100%)	0	100	100
4	ED	70/113 (62%)	70 (100%)	0	100	100
4	EE	70/113 (62%)	70 (100%)	0	100	100
4	EF	70/113 (62%)	70 (100%)	0	100	100
4	EG	70/113 (62%)	70 (100%)	0	100	100
4	EH	70/113 (62%)	70 (100%)	0	100	100
4	EI	70/113 (62%)	70 (100%)	0	100	100
4	EJ	70/113 (62%)	70 (100%)	0	100	100
4	EK	70/113 (62%)	70 (100%)	0	100	100
4	EL	70/113 (62%)	70 (100%)	0	100	100
4	EM	70/113 (62%)	70 (100%)	0	100	100
4	EN	70/113 (62%)	70 (100%)	0	100	100
4	EO	70/113 (62%)	70 (100%)	0	100	100
4	EP	70/113 (62%)	70 (100%)	0	100	100
4	EQ	70/113 (62%)	70 (100%)	0	100	100
4	ER	70/113 (62%)	70 (100%)	0	100	100
4	ES	70/113 (62%)	70 (100%)	0	100	100
4	ET	70/113 (62%)	70 (100%)	0	100	100
4	EU	70/113 (62%)	70 (100%)	0	100	100
4	EV	70/113 (62%)	70 (100%)	0	100	100
4	EW	70/113 (62%)	70 (100%)	0	100	100
4	EX	70/113 (62%)	70 (100%)	0	100	100
4	EY	70/113 (62%)	70 (100%)	0	100	100
4	F1	70/113 (62%)	70 (100%)	0	100	100
4	F2	70/113 (62%)	70 (100%)	0	100	100
4	F3	70/113 (62%)	70 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	F4	70/113 (62%)	70 (100%)	0	100	100
4	F5	70/113 (62%)	70 (100%)	0	100	100
4	F6	70/113 (62%)	70 (100%)	0	100	100
4	F7	70/113 (62%)	70 (100%)	0	100	100
4	F8	70/113 (62%)	70 (100%)	0	100	100
4	F9	70/113 (62%)	70 (100%)	0	100	100
4	FA	70/113 (62%)	70 (100%)	0	100	100
4	FB	70/113 (62%)	70 (100%)	0	100	100
4	FC	70/113 (62%)	70 (100%)	0	100	100
4	FD	70/113 (62%)	70 (100%)	0	100	100
4	FE	70/113 (62%)	70 (100%)	0	100	100
4	FF	70/113 (62%)	70 (100%)	0	100	100
4	FG	70/113 (62%)	70 (100%)	0	100	100
4	FH	70/113 (62%)	70 (100%)	0	100	100
4	FI	70/113 (62%)	70 (100%)	0	100	100
4	FJ	70/113 (62%)	70 (100%)	0	100	100
4	FK	70/113 (62%)	70 (100%)	0	100	100
4	FL	70/113 (62%)	70 (100%)	0	100	100
4	FM	70/113 (62%)	70 (100%)	0	100	100
4	FN	70/113 (62%)	70 (100%)	0	100	100
4	FO	70/113 (62%)	70 (100%)	0	100	100
4	FP	70/113 (62%)	70 (100%)	0	100	100
4	FQ	70/113 (62%)	70 (100%)	0	100	100
4	FR	70/113 (62%)	70 (100%)	0	100	100
4	FS	70/113 (62%)	70 (100%)	0	100	100
4	FT	70/113 (62%)	70 (100%)	0	100	100
4	FU	70/113 (62%)	70 (100%)	0	100	100
4	FV	70/113 (62%)	70 (100%)	0	100	100
4	FW	70/113 (62%)	70 (100%)	0	100	100
4	FX	70/113 (62%)	70 (100%)	0	100	100
4	FY	70/113 (62%)	70 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	27132/47226 (58%)	27132 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (438) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	524	ASN
1	A1	557	ASN
2	B1	49	ASN
2	B1	51	GLN
2	B1	70	ASN
2	B1	155	HIS
2	B1	204	ASN
2	B1	252	GLN
2	B1	300	GLN
3	C1	64	GLN
3	C1	106	HIS
3	C1	129	ASN
4	E1	102	ASN
1	A2	553	GLN
1	A2	557	ASN
2	B2	49	ASN
2	B2	51	GLN
2	B2	70	ASN
2	B2	136	HIS
2	B2	155	HIS
2	B2	204	ASN
2	B2	300	GLN
3	C2	64	GLN
3	C2	106	HIS
3	C2	129	ASN
3	C2	173	ASN
3	C2	256	HIS
4	E2	102	ASN
1	A3	524	ASN
1	A3	525	GLN
2	B3	49	ASN
2	B3	51	GLN
2	B3	70	ASN
2	B3	136	HIS
2	B3	155	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B3	204	ASN
3	C3	64	GLN
3	C3	106	HIS
3	C3	129	ASN
3	C3	173	ASN
3	C3	256	HIS
4	E3	102	ASN
1	A4	557	ASN
2	B4	49	ASN
2	B4	51	GLN
2	B4	70	ASN
2	B4	136	HIS
2	B4	155	HIS
2	B4	204	ASN
2	B4	300	GLN
3	C4	64	GLN
3	C4	106	HIS
3	C4	129	ASN
3	C4	173	ASN
3	C4	256	HIS
4	E4	102	ASN
1	A5	524	ASN
1	A5	557	ASN
2	B5	46	GLN
2	B5	49	ASN
2	B5	51	GLN
2	B5	70	ASN
2	B5	136	HIS
2	B5	155	HIS
2	B5	204	ASN
2	B5	252	GLN
3	C5	64	GLN
3	C5	106	HIS
3	C5	129	ASN
4	E5	102	ASN
2	B6	46	GLN
2	B6	49	ASN
2	B6	51	GLN
2	B6	70	ASN
2	B6	155	HIS
2	B6	204	ASN
2	B6	300	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	C6	64	GLN
3	C6	106	HIS
3	C6	129	ASN
3	C6	173	ASN
3	C6	256	HIS
4	E6	102	ASN
1	A7	524	ASN
1	A7	557	ASN
2	B7	46	GLN
2	B7	49	ASN
2	B7	51	GLN
2	B7	70	ASN
2	B7	136	HIS
2	B7	155	HIS
2	B7	204	ASN
3	C7	64	GLN
3	C7	106	HIS
3	C7	129	ASN
3	C7	173	ASN
3	C7	256	HIS
4	E7	102	ASN
1	A8	557	ASN
2	B8	49	ASN
2	B8	51	GLN
2	B8	70	ASN
2	B8	155	HIS
2	B8	204	ASN
3	C8	64	GLN
3	C8	106	HIS
3	C8	129	ASN
3	C8	173	ASN
3	C8	256	HIS
4	E8	102	ASN
1	A9	557	ASN
2	B9	49	ASN
2	B9	51	GLN
2	B9	70	ASN
2	B9	136	HIS
2	B9	155	HIS
2	B9	204	ASN
2	B9	300	GLN
3	C9	64	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	C9	106	HIS
3	C9	129	ASN
4	E9	102	ASN
1	AA	557	ASN
2	BA	49	ASN
2	BA	51	GLN
2	BA	70	ASN
2	BA	136	HIS
2	BA	155	HIS
2	BA	204	ASN
2	BA	300	GLN
3	CA	64	GLN
3	CA	106	HIS
3	CA	129	ASN
4	EA	102	ASN
1	AB	524	ASN
1	AB	553	GLN
2	BB	46	GLN
2	BB	49	ASN
2	BB	51	GLN
2	BB	70	ASN
2	BB	136	HIS
2	BB	155	HIS
2	BB	204	ASN
2	BB	300	GLN
3	CB	64	GLN
3	CB	106	HIS
3	CB	129	ASN
3	CB	173	ASN
3	CB	256	HIS
4	EB	102	ASN
1	AC	524	ASN
2	BC	46	GLN
2	BC	49	ASN
2	BC	51	GLN
2	BC	70	ASN
2	BC	155	HIS
2	BC	204	ASN
2	BC	300	GLN
3	CC	64	GLN
3	CC	106	HIS
3	CC	129	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	CC	173	ASN
3	CC	256	HIS
4	EC	102	ASN
1	AD	524	ASN
1	AD	557	ASN
2	BD	49	ASN
2	BD	51	GLN
2	BD	70	ASN
2	BD	136	HIS
2	BD	155	HIS
2	BD	204	ASN
2	BD	300	GLN
3	CD	64	GLN
3	CD	106	HIS
3	CD	129	ASN
4	ED	102	ASN
2	BE	49	ASN
2	BE	51	GLN
2	BE	70	ASN
2	BE	155	HIS
2	BE	204	ASN
2	BE	252	GLN
2	BE	300	GLN
3	CE	64	GLN
3	CE	106	HIS
3	CE	129	ASN
3	CE	173	ASN
4	EE	102	ASN
1	AF	524	ASN
1	AF	557	ASN
2	BF	49	ASN
2	BF	51	GLN
2	BF	70	ASN
2	BF	136	HIS
2	BF	155	HIS
2	BF	204	ASN
3	CF	64	GLN
3	CF	106	HIS
3	CF	129	ASN
3	CF	173	ASN
3	CF	256	HIS
4	EF	102	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BG	46	GLN
2	BG	49	ASN
2	BG	51	GLN
2	BG	70	ASN
2	BG	136	HIS
2	BG	155	HIS
2	BG	204	ASN
3	CG	64	GLN
3	CG	129	ASN
3	CG	173	ASN
4	EG	102	ASN
2	BH	46	GLN
2	BH	49	ASN
2	BH	51	GLN
2	BH	70	ASN
2	BH	136	HIS
2	BH	155	HIS
2	BH	204	ASN
2	BH	300	GLN
3	CH	64	GLN
3	CH	106	HIS
3	CH	129	ASN
4	EH	102	ASN
1	AI	524	ASN
1	AI	557	ASN
2	BI	46	GLN
2	BI	49	ASN
2	BI	51	GLN
2	BI	70	ASN
2	BI	136	HIS
2	BI	155	HIS
2	BI	204	ASN
2	BI	300	GLN
3	CI	106	HIS
3	CI	129	ASN
3	CI	256	HIS
4	EI	102	ASN
1	AJ	524	ASN
2	BJ	49	ASN
2	BJ	51	GLN
2	BJ	70	ASN
2	BJ	155	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BJ	204	ASN
2	BJ	300	GLN
3	CJ	64	GLN
3	CJ	106	HIS
3	CJ	129	ASN
3	CJ	173	ASN
4	EJ	102	ASN
1	AK	524	ASN
2	BK	49	ASN
2	BK	51	GLN
2	BK	70	ASN
2	BK	155	HIS
2	BK	204	ASN
3	CK	64	GLN
3	CK	129	ASN
3	CK	173	ASN
3	CK	256	HIS
4	EK	102	ASN
2	BL	46	GLN
2	BL	49	ASN
2	BL	51	GLN
2	BL	70	ASN
2	BL	136	HIS
2	BL	155	HIS
2	BL	204	ASN
2	BL	300	GLN
3	CL	64	GLN
3	CL	106	HIS
3	CL	129	ASN
3	CL	173	ASN
4	EL	102	ASN
2	BM	49	ASN
2	BM	51	GLN
2	BM	70	ASN
2	BM	155	HIS
2	BM	204	ASN
2	BM	300	GLN
3	CM	64	GLN
3	CM	106	HIS
3	CM	129	ASN
3	CM	173	ASN
3	CM	256	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	EM	102	ASN
1	AN	524	ASN
2	BN	46	GLN
2	BN	49	ASN
2	BN	51	GLN
2	BN	70	ASN
2	BN	136	HIS
2	BN	155	HIS
2	BN	204	ASN
3	CN	64	GLN
3	CN	106	HIS
3	CN	129	ASN
3	CN	173	ASN
3	CN	256	HIS
4	EN	102	ASN
2	BO	46	GLN
2	BO	49	ASN
2	BO	51	GLN
2	BO	70	ASN
2	BO	155	HIS
2	BO	204	ASN
2	BO	300	GLN
3	CO	64	GLN
3	CO	106	HIS
3	CO	129	ASN
3	CO	173	ASN
3	CO	256	HIS
4	EO	102	ASN
2	BP	49	ASN
2	BP	51	GLN
2	BP	70	ASN
2	BP	204	ASN
3	CP	64	GLN
3	CP	129	ASN
3	CP	256	HIS
4	EP	102	ASN
1	AQ	525	GLN
2	BQ	49	ASN
2	BQ	51	GLN
2	BQ	70	ASN
2	BQ	136	HIS
2	BQ	155	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BQ	204	ASN
3	CQ	64	GLN
3	CQ	106	HIS
3	CQ	129	ASN
3	CQ	256	HIS
4	EQ	102	ASN
2	BR	46	GLN
2	BR	49	ASN
2	BR	51	GLN
2	BR	70	ASN
2	BR	155	HIS
2	BR	204	ASN
2	BR	252	GLN
3	CR	64	GLN
3	CR	129	ASN
3	CR	173	ASN
3	CR	256	HIS
4	ER	102	ASN
1	AS	524	ASN
1	AS	557	ASN
2	BS	28	HIS
2	BS	49	ASN
2	BS	51	GLN
2	BS	70	ASN
2	BS	155	HIS
2	BS	204	ASN
2	BS	300	GLN
3	CS	64	GLN
3	CS	106	HIS
3	CS	129	ASN
3	CS	173	ASN
3	CS	256	HIS
4	ES	102	ASN
2	BT	46	GLN
2	BT	49	ASN
2	BT	51	GLN
2	BT	155	HIS
2	BT	204	ASN
3	CT	64	GLN
3	CT	106	HIS
3	CT	129	ASN
3	CT	256	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	ET	102	ASN
1	AU	557	ASN
2	BU	49	ASN
2	BU	51	GLN
2	BU	70	ASN
2	BU	155	HIS
2	BU	204	ASN
2	BU	300	GLN
3	CU	64	GLN
3	CU	106	HIS
3	CU	129	ASN
3	CU	173	ASN
3	CU	256	HIS
4	EU	102	ASN
1	AV	524	ASN
1	AV	525	GLN
1	AV	557	ASN
2	BV	49	ASN
2	BV	51	GLN
2	BV	70	ASN
2	BV	204	ASN
2	BV	300	GLN
3	CV	64	GLN
3	CV	106	HIS
3	CV	129	ASN
3	CV	173	ASN
4	EV	102	ASN
2	BW	49	ASN
2	BW	51	GLN
2	BW	70	ASN
2	BW	136	HIS
2	BW	155	HIS
2	BW	204	ASN
2	BW	227	GLN
2	BW	300	GLN
3	CW	106	HIS
3	CW	129	ASN
3	CW	173	ASN
3	CW	256	HIS
4	EW	102	ASN
1	AX	557	ASN
2	BX	46	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	BX	49	ASN
2	BX	51	GLN
2	BX	70	ASN
2	BX	136	HIS
2	BX	155	HIS
2	BX	204	ASN
3	CX	64	GLN
3	CX	129	ASN
3	CX	173	ASN
3	CX	256	HIS
4	EX	102	ASN
2	BY	46	GLN
2	BY	49	ASN
2	BY	51	GLN
2	BY	70	ASN
2	BY	136	HIS
2	BY	155	HIS
2	BY	204	ASN
2	BY	300	GLN
3	CY	64	GLN
3	CY	106	HIS
3	CY	129	ASN
3	CY	173	ASN
3	CY	256	HIS
4	EY	102	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry (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

This section contains visualisations of the EMDB entry EMD-42439. 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

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

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

7 Map analysis

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

7.1 Map-value distribution

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

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

9 Map-model fit

This section was not generated.