



Full wwPDB NMR Structure Validation Report ⓘ

Mar 29, 2026 – 12:00 AM UTC

PDB ID : 5WCL / pdb_00005wcl
BMRB ID : 30308
Title : NMR structure of the N-domain of troponin C bound to switch region of troponin I and 3-methyldiphenylamine (solvent exposed mode)
Authors : Cai, F.; Hwang, P.M.; Sykes, B.D.
Deposited on : 2017-06-30

This is a Full wwPDB NMR Structure 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/NMRValidationReportHelp>

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:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

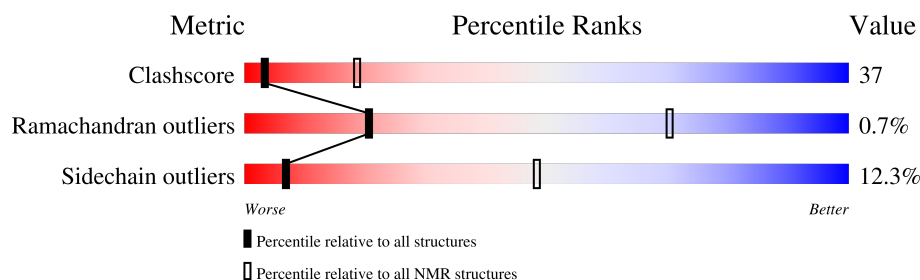
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 92%.

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)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	120	38% 32% 7% 23%

2 Ensemble composition and analysis

This entry contains 8 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:85, A:150-A:158 (92)	0.47	2

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 1 clusters and 5 single-model clusters were found.

Cluster number	Models
1	2, 3, 4
Single-model clusters	1; 5; 6; 7; 8

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1901 atoms, of which 949 are hydrogens and 0 are deuteriums.

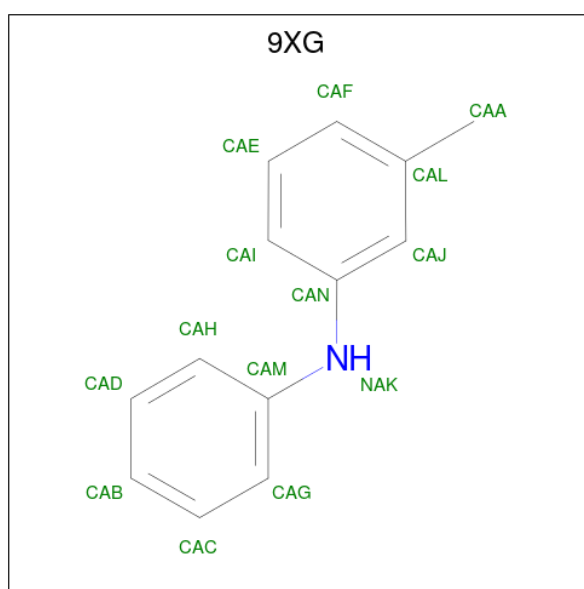
- Molecule 1 is a protein called Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle.

Mol	Chain	Residues	Atoms						Trace
1	A	120	Total	C	H	N	O	S	0
			1874	582	936	160	187	9	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	SER	CYS	engineered mutation	UNP P63316
A	84	SER	CYS	engineered mutation	UNP P63316
A	164	GLY	-	expression tag	UNP P19429
A	165	HIS	-	expression tag	UNP P19429

- Molecule 2 is 3-methyl-N-phenylaniline (CCD ID: 9XG) (formula: $C_{13}H_{13}N$).



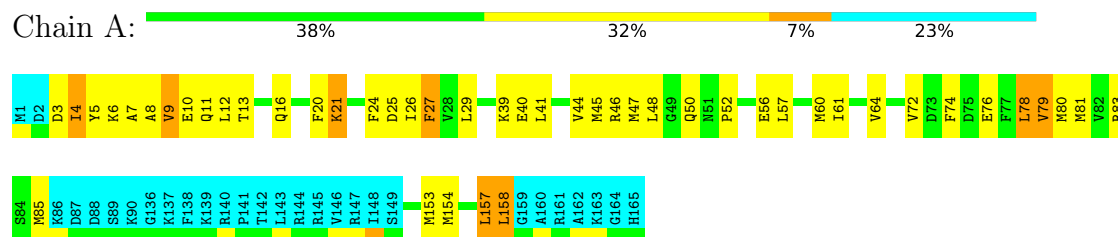
Mol	Chain	Residues	Atoms			
2	A	1	Total	C	H	N
			27	13	13	1

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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 outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

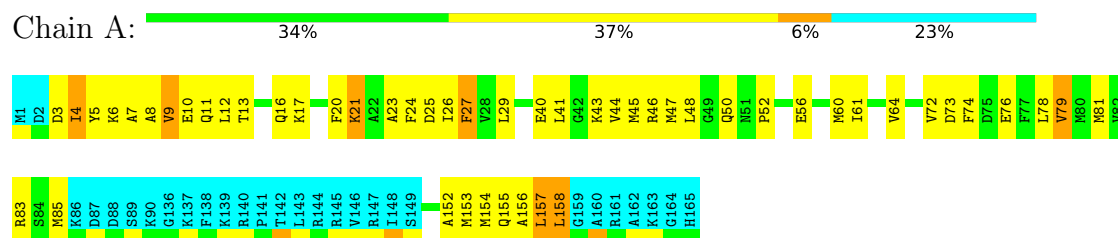


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

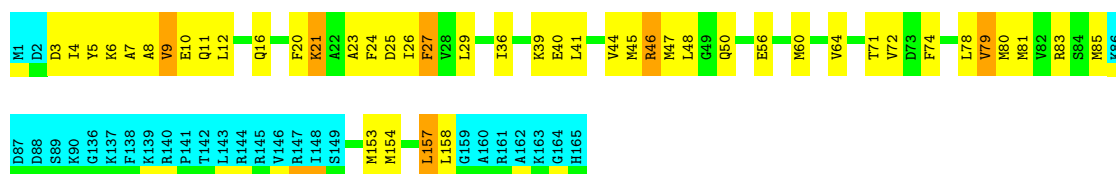
- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle



4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

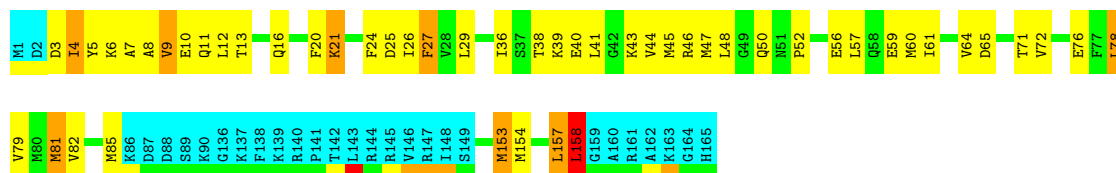




4.2.3 Score per residue for model 3

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

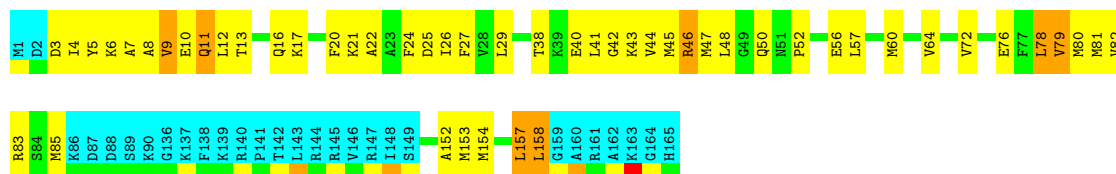
Chain A: 34% 35% 7% 23%



4.2.4 Score per residue for model 4

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

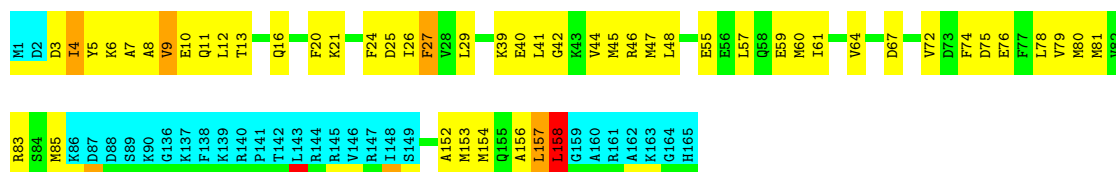
Chain A: 34% 37% 6% 23%



4.2.5 Score per residue for model 5

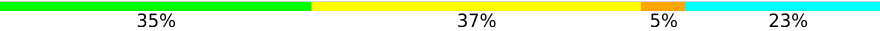
- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

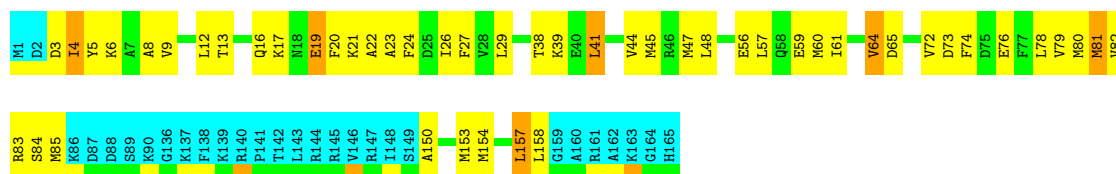
Chain A: 34% 38% 2% 23%



4.2.6 Score per residue for model 6

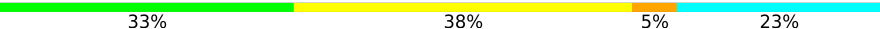
- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

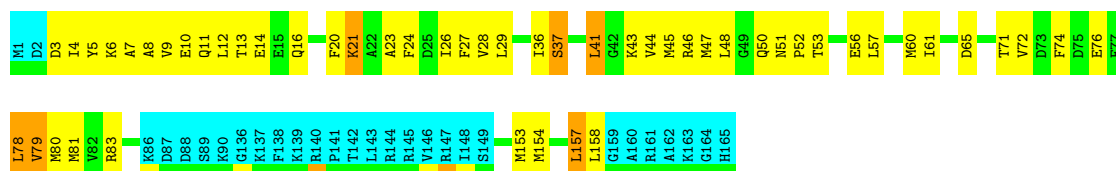
Chain A: 



4.2.7 Score per residue for model 7

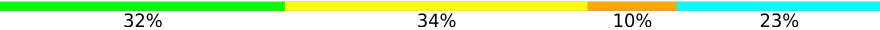
- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

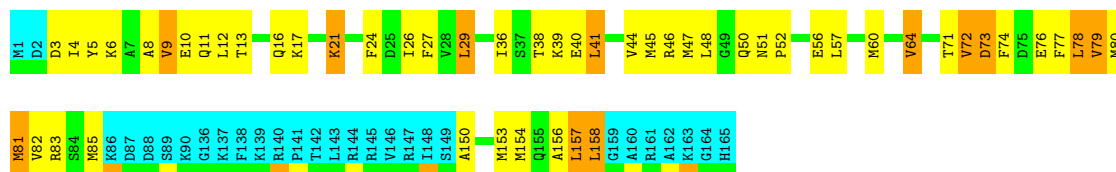
Chain A: 



4.2.8 Score per residue for model 8

- Molecule 1: Troponin C, slow skeletal and cardiac muscles, Troponin I, cardiac muscle

Chain A: 



5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 80 calculated structures, 8 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
ARIA2	structure calculation	
ARIA2	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1420
Number of shifts mapped to atoms	1420
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	92%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 9XG

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 (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.68±0.03	0±0/722 (0.0± 0.0%)	0.96±0.03	0±0/970 (0.0± 0.0%)
All	All	0.68	0/5776 (0.0%)	0.96	1/7760 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	9	VAL	CB-CA-C	-5.97	104.21	112.04	4	1

There are no chirality outliers.

There are no planarity outliers.

6.2 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 each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	714	692	692	52±7
2	A	14	13	0	2±1
All	All	5824	5640	5536	418

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 37.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:154:MET:HE2	1:A:158:LEU:HD11	0.95	1.36	7	1
1:A:61:ILE:HG23	1:A:72:VAL:HG23	0.85	1.45	7	3
1:A:23:ALA:HA	1:A:26:ILE:HD12	0.82	1.48	6	1
1:A:64:VAL:HG21	1:A:72:VAL:HG22	0.78	1.54	3	3
1:A:57:LEU:HA	1:A:60:MET:SD	0.77	2.19	8	1
1:A:80:MET:SD	1:A:83:ARG:HD3	0.76	2.20	2	5
1:A:81:MET:HA	1:A:81:MET:HE2	0.76	1.54	3	3
1:A:8:ALA:O	1:A:12:LEU:HG	0.75	1.81	4	8
1:A:44:VAL:O	1:A:48:LEU:HG	0.74	1.82	8	8
1:A:6:LYS:HA	1:A:79:VAL:CG2	0.70	2.16	3	5
1:A:26:ILE:HB	1:A:157:LEU:HB3	0.70	1.63	8	4
1:A:13:THR:OG1	1:A:16:GLN:HG2	0.69	1.86	1	7
1:A:3:ASP:HA	1:A:6:LYS:CB	0.69	2.17	6	6
1:A:81:MET:SD	1:A:153:MET:HE1	0.68	2.28	1	2
1:A:26:ILE:CG2	1:A:157:LEU:HB3	0.67	2.18	4	3
1:A:20:PHE:HD2	1:A:78:LEU:CD1	0.66	2.04	5	2
1:A:6:LYS:HA	1:A:79:VAL:HG21	0.65	1.68	4	2
1:A:26:ILE:O	1:A:29:LEU:HG	0.65	1.90	5	6
1:A:8:ALA:HA	1:A:11:GLN:HB3	0.65	1.69	3	7
1:A:5:TYR:CD2	1:A:83:ARG:HG3	0.64	2.28	5	1
1:A:64:VAL:HG21	1:A:72:VAL:CG2	0.64	2.22	3	1
1:A:5:TYR:CE1	1:A:83:ARG:HG3	0.63	2.28	6	5
1:A:36:ILE:O	1:A:71:THR:HA	0.63	1.94	8	3
1:A:72:VAL:HG13	1:A:76:GLU:HB2	0.63	1.71	6	6
1:A:9:VAL:O	1:A:17:LYS:HD3	0.62	1.95	6	2
1:A:21:LYS:HD3	1:A:74:PHE:CD2	0.61	2.30	6	1
1:A:44:VAL:CG2	1:A:157:LEU:HD11	0.61	2.26	5	3
1:A:46:ARG:HD2	1:A:52:PRO:HD2	0.61	1.73	1	3
1:A:81:MET:HE3	1:A:153:MET:HE1	0.60	1.73	3	1
1:A:157:LEU:HD22	1:A:157:LEU:H	0.60	1.56	8	1
1:A:43:LYS:HE3	1:A:47:MET:SD	0.60	2.37	1	3
1:A:154:MET:O	1:A:158:LEU:HB2	0.60	1.96	2	5
1:A:48:LEU:CD2	1:A:156:ALA:HB2	0.60	2.27	8	3
1:A:5:TYR:CE2	1:A:83:ARG:HG3	0.60	2.31	5	1
1:A:64:VAL:CG2	1:A:72:VAL:HG22	0.59	2.26	3	3
1:A:21:LYS:HD3	1:A:74:PHE:CG	0.59	2.32	6	1
1:A:27:PHE:CE2	1:A:157:LEU:HD21	0.59	2.32	5	2
1:A:81:MET:HA	1:A:81:MET:CE	0.59	2.28	6	2
1:A:9:VAL:HA	1:A:12:LEU:HD12	0.59	1.72	6	5
1:A:26:ILE:HG23	1:A:29:LEU:HD11	0.59	1.73	4	4
1:A:27:PHE:HE1	1:A:153:MET:SD	0.58	2.20	2	1
1:A:48:LEU:HD21	1:A:156:ALA:HB2	0.58	1.76	8	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:ALA:HB1	1:A:157:LEU:HD23	0.58	1.76	1	2
1:A:27:PHE:HZ	1:A:153:MET:SD	0.57	2.22	6	2
1:A:44:VAL:O	1:A:47:MET:HB2	0.57	2.00	7	8
1:A:21:LYS:CE	1:A:25:ASP:HB2	0.57	2.29	2	4
1:A:7:ALA:HA	1:A:10:GLU:HG3	0.57	1.76	2	5
1:A:5:TYR:CE2	1:A:83:ARG:HA	0.57	2.34	7	2
1:A:26:ILE:CB	1:A:157:LEU:HB3	0.57	2.29	8	3
1:A:55:GLU:O	1:A:59:GLU:HG2	0.57	2.00	5	1
1:A:27:PHE:CZ	1:A:153:MET:SD	0.57	2.98	6	1
1:A:20:PHE:HD1	1:A:78:LEU:CD1	0.57	2.13	2	3
1:A:5:TYR:HB2	1:A:79:VAL:HG13	0.56	1.75	2	2
1:A:60:MET:HE3	2:A:201:9XG:CAI	0.56	2.30	8	1
1:A:78:LEU:O	1:A:81:MET:HB2	0.56	1.99	2	2
1:A:3:ASP:HA	1:A:6:LYS:HB3	0.56	1.76	6	5
1:A:27:PHE:HE2	1:A:153:MET:SD	0.55	2.25	5	3
1:A:12:LEU:HB3	1:A:16:GLN:CB	0.55	2.31	1	6
1:A:72:VAL:HA	1:A:76:GLU:OE2	0.55	2.01	3	2
1:A:74:PHE:CE2	1:A:78:LEU:HD22	0.54	2.36	8	2
1:A:3:ASP:HA	1:A:6:LYS:HB2	0.54	1.80	3	5
1:A:21:LYS:O	1:A:24:PHE:HB3	0.54	2.03	2	6
1:A:78:LEU:O	1:A:81:MET:HB3	0.54	2.02	4	3
1:A:21:LYS:HA	1:A:74:PHE:CE2	0.54	2.38	7	2
1:A:57:LEU:HD23	1:A:60:MET:HE2	0.54	1.80	7	1
1:A:79:VAL:O	1:A:83:ARG:HB2	0.53	2.04	7	1
1:A:6:LYS:CA	1:A:79:VAL:HG21	0.53	2.33	4	1
1:A:64:VAL:HG11	1:A:80:MET:HB2	0.53	1.81	4	2
1:A:22:ALA:O	1:A:26:ILE:HD12	0.53	2.03	4	1
1:A:81:MET:C	1:A:81:MET:SD	0.53	2.92	8	1
1:A:9:VAL:HG23	1:A:78:LEU:HD13	0.52	1.81	3	1
1:A:74:PHE:CZ	1:A:78:LEU:HD22	0.52	2.40	1	4
1:A:44:VAL:CG2	1:A:157:LEU:HD21	0.52	2.34	4	2
1:A:23:ALA:HA	1:A:157:LEU:HD12	0.52	1.81	7	1
1:A:41:LEU:HD13	2:A:201:9XG:CAB	0.52	2.35	5	2
1:A:9:VAL:CG2	1:A:78:LEU:HD13	0.52	2.34	7	2
1:A:150:ALA:O	1:A:154:MET:HB2	0.52	2.04	6	1
1:A:5:TYR:CD1	1:A:83:ARG:HG3	0.52	2.40	7	2
1:A:27:PHE:CD2	1:A:157:LEU:HD21	0.52	2.40	1	2
1:A:46:ARG:HA	1:A:50:GLN:O	0.52	2.05	7	6
1:A:81:MET:O	1:A:85:MET:HE3	0.52	2.05	1	3
1:A:38:THR:O	1:A:57:LEU:HD13	0.52	2.04	6	4
1:A:154:MET:O	1:A:158:LEU:HG	0.51	2.05	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:PHE:HE1	1:A:41:LEU:HD12	0.51	1.64	1	2
1:A:41:LEU:HD23	1:A:61:ILE:HG13	0.51	1.82	6	1
1:A:24:PHE:CZ	1:A:73:ASP:HA	0.51	2.41	8	3
1:A:5:TYR:CB	1:A:79:VAL:HG13	0.51	2.36	3	2
1:A:26:ILE:HG21	1:A:157:LEU:HB3	0.51	1.80	4	1
1:A:21:LYS:O	1:A:21:LYS:HD2	0.51	2.06	8	2
1:A:6:LYS:O	1:A:10:GLU:HG3	0.50	2.06	7	4
1:A:27:PHE:HE1	1:A:41:LEU:HD13	0.50	1.66	6	1
1:A:60:MET:HB2	2:A:201:9XG:CAI	0.50	2.36	6	2
1:A:61:ILE:O	1:A:64:VAL:HG22	0.50	2.07	3	2
2:A:201:9XG:CAI	2:A:201:9XG:CAG	0.50	2.89	6	1
1:A:21:LYS:HE3	1:A:25:ASP:HB2	0.50	1.82	4	5
1:A:13:THR:O	1:A:16:GLN:HB2	0.50	2.06	8	1
1:A:46:ARG:HG3	1:A:50:GLN:O	0.50	2.07	3	3
1:A:9:VAL:CG1	1:A:17:LYS:HE3	0.50	2.36	4	1
1:A:26:ILE:HA	1:A:29:LEU:CB	0.49	2.37	8	1
1:A:42:GLY:O	1:A:46:ARG:HD3	0.49	2.06	5	2
1:A:22:ALA:O	1:A:26:ILE:HG13	0.49	2.07	6	1
1:A:41:LEU:HG	1:A:57:LEU:CD2	0.49	2.38	6	1
1:A:64:VAL:CG1	1:A:80:MET:HB2	0.49	2.37	4	2
1:A:45:MET:HE2	1:A:60:MET:HE1	0.49	1.83	6	1
1:A:23:ALA:HA	1:A:157:LEU:CD1	0.49	2.37	7	1
1:A:44:VAL:HG22	1:A:157:LEU:HD11	0.48	1.84	1	2
1:A:41:LEU:HD11	1:A:60:MET:CE	0.48	2.38	5	1
1:A:20:PHE:CZ	1:A:85:MET:HE1	0.48	2.43	2	4
1:A:57:LEU:O	1:A:60:MET:HG2	0.48	2.08	8	1
1:A:27:PHE:CE2	1:A:44:VAL:HB	0.48	2.43	2	2
1:A:26:ILE:HA	1:A:29:LEU:HB2	0.48	1.85	7	2
1:A:7:ALA:HA	1:A:10:GLU:OE1	0.48	2.09	2	2
1:A:60:MET:HB3	2:A:201:9XG:CAN	0.48	2.39	3	2
1:A:82:VAL:HA	1:A:85:MET:HE3	0.47	1.85	6	1
1:A:46:ARG:NE	1:A:51:ASN:HA	0.47	2.24	8	2
1:A:53:THR:O	1:A:56:GLU:HG2	0.47	2.09	7	1
1:A:5:TYR:CD2	1:A:82:VAL:HG13	0.47	2.44	8	1
1:A:4:ILE:HG23	1:A:5:TYR:N	0.47	2.24	6	1
1:A:80:MET:HE2	2:A:201:9XG:CAE	0.47	2.39	6	1
1:A:27:PHE:CZ	1:A:44:VAL:HG11	0.47	2.44	1	3
1:A:5:TYR:C	1:A:79:VAL:HG22	0.47	2.34	2	1
1:A:44:VAL:HA	1:A:47:MET:SD	0.47	2.50	4	1
1:A:41:LEU:HG	1:A:60:MET:HE2	0.47	1.87	8	1
1:A:41:LEU:HD21	1:A:60:MET:CE	0.47	2.40	3	5

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:ILE:HB	1:A:72:VAL:HB	0.47	1.87	3	1
1:A:5:TYR:HA	1:A:8:ALA:HB3	0.47	1.85	8	1
1:A:41:LEU:CG	1:A:60:MET:HE3	0.47	2.40	6	1
1:A:27:PHE:CE1	1:A:41:LEU:HD12	0.46	2.45	1	1
1:A:12:LEU:HB3	1:A:16:GLN:HB3	0.46	1.86	6	5
1:A:73:ASP:O	1:A:76:GLU:HB2	0.46	2.10	8	1
1:A:41:LEU:O	1:A:45:MET:HG2	0.46	2.11	7	2
1:A:48:LEU:HD11	1:A:153:MET:HA	0.46	1.88	5	1
1:A:21:LYS:HD2	1:A:21:LYS:C	0.46	2.35	8	1
1:A:27:PHE:CE2	1:A:153:MET:SD	0.46	3.08	5	1
1:A:41:LEU:HD12	1:A:41:LEU:O	0.46	2.11	6	1
1:A:26:ILE:HG22	1:A:157:LEU:HD12	0.46	1.86	2	2
1:A:79:VAL:O	1:A:82:VAL:HG12	0.46	2.10	8	1
1:A:26:ILE:HB	1:A:157:LEU:CB	0.45	2.39	8	1
1:A:47:MET:HE2	1:A:156:ALA:HB1	0.45	1.87	8	1
1:A:7:ALA:HA	1:A:10:GLU:CG	0.45	2.42	2	1
1:A:41:LEU:HD21	1:A:60:MET:HE3	0.45	1.88	6	1
1:A:27:PHE:CD1	1:A:157:LEU:HD21	0.45	2.46	8	1
1:A:45:MET:HB3	1:A:50:GLN:HB2	0.45	1.88	3	2
1:A:5:TYR:O	1:A:79:VAL:HG23	0.45	2.12	5	1
1:A:41:LEU:CD2	1:A:60:MET:HE3	0.45	2.41	6	1
1:A:81:MET:C	1:A:85:MET:HE3	0.45	2.37	4	1
1:A:23:ALA:O	1:A:27:PHE:HD2	0.45	1.94	7	1
1:A:17:LYS:CG	1:A:78:LEU:HD21	0.45	2.42	8	1
1:A:17:LYS:HG2	1:A:78:LEU:HD21	0.45	1.88	8	1
1:A:7:ALA:CA	1:A:10:GLU:HG3	0.45	2.41	2	1
1:A:12:LEU:HB3	1:A:16:GLN:HB2	0.45	1.89	1	1
1:A:5:TYR:C	1:A:79:VAL:HG23	0.44	2.37	5	1
1:A:72:VAL:HG11	1:A:77:PHE:HB2	0.44	1.89	8	1
1:A:157:LEU:HD22	1:A:157:LEU:N	0.44	2.25	8	1
1:A:78:LEU:O	1:A:78:LEU:HD12	0.44	2.12	5	2
1:A:48:LEU:HD11	1:A:153:MET:HG3	0.44	1.89	8	1
1:A:45:MET:C	1:A:50:GLN:HB2	0.44	2.37	3	2
1:A:44:VAL:HG21	1:A:157:LEU:HD11	0.44	1.88	5	1
1:A:4:ILE:C	1:A:4:ILE:HD13	0.44	2.37	6	3
1:A:80:MET:HE3	1:A:84:SER:OG	0.44	2.13	6	1
1:A:81:MET:HE1	1:A:153:MET:HE1	0.44	1.90	6	1
1:A:7:ALA:O	1:A:11:GLN:N	0.44	2.51	7	1
1:A:27:PHE:CE1	1:A:157:LEU:HD21	0.43	2.48	8	2
1:A:52:PRO:HA	1:A:56:GLU:OE2	0.43	2.12	8	1
1:A:9:VAL:HG12	1:A:17:LYS:HE3	0.43	1.89	4	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:PHE:HE2	1:A:41:LEU:HD12	0.43	1.74	4	1
1:A:44:VAL:HG21	1:A:157:LEU:HD21	0.43	1.90	3	1
1:A:44:VAL:HA	1:A:47:MET:HB2	0.43	1.90	5	3
1:A:154:MET:O	1:A:157:LEU:HD12	0.43	2.14	6	1
1:A:20:PHE:HD1	1:A:154:MET:HE1	0.43	1.74	7	1
1:A:24:PHE:O	1:A:28:VAL:HG22	0.43	2.12	7	1
1:A:20:PHE:HB3	1:A:81:MET:HG3	0.43	1.91	3	1
1:A:52:PRO:HB2	1:A:57:LEU:HD11	0.43	1.90	4	1
1:A:5:TYR:O	1:A:79:VAL:HG22	0.43	2.14	3	1
1:A:27:PHE:CD1	1:A:44:VAL:HG21	0.43	2.48	3	1
1:A:81:MET:CE	1:A:153:MET:HE1	0.43	2.42	3	1
1:A:20:PHE:CD1	1:A:20:PHE:N	0.43	2.86	5	1
1:A:9:VAL:HG23	1:A:17:LYS:HE3	0.42	1.90	1	1
2:A:201:9XG:CAH	2:A:201:9XG:CAJ	0.42	2.98	5	1
1:A:52:PRO:HB2	1:A:57:LEU:CD1	0.42	2.44	4	1
1:A:27:PHE:HE2	1:A:41:LEU:HD13	0.42	1.74	8	1
1:A:37:SER:CB	1:A:71:THR:HG22	0.42	2.44	7	1
1:A:41:LEU:HD12	1:A:45:MET:CG	0.42	2.44	7	2
1:A:41:LEU:HG	1:A:57:LEU:HD22	0.42	1.91	5	1
1:A:72:VAL:HG13	1:A:73:ASP:O	0.42	2.15	8	1
1:A:8:ALA:HB1	1:A:82:VAL:HG21	0.42	1.91	4	1
1:A:20:PHE:CD1	1:A:154:MET:HE1	0.42	2.50	7	1
1:A:44:VAL:HG22	1:A:157:LEU:CD2	0.41	2.45	6	1
1:A:46:ARG:CD	1:A:51:ASN:HA	0.41	2.44	8	1
1:A:5:TYR:HA	1:A:8:ALA:CB	0.41	2.45	8	1
1:A:41:LEU:HD13	2:A:201:9XG:CAD	0.41	2.46	2	1
1:A:81:MET:HE2	1:A:81:MET:CA	0.41	2.45	6	1
1:A:56:GLU:O	1:A:59:GLU:HG2	0.41	2.16	6	1
1:A:81:MET:HE3	1:A:154:MET:SD	0.41	2.55	8	1
1:A:23:ALA:CB	1:A:157:LEU:HD23	0.41	2.44	1	1
1:A:72:VAL:HG13	1:A:76:GLU:CB	0.41	2.44	1	1
1:A:45:MET:O	1:A:50:GLN:HB2	0.41	2.15	8	1
1:A:21:LYS:HD3	1:A:21:LYS:C	0.41	2.41	3	1
1:A:44:VAL:HG22	1:A:157:LEU:HD21	0.41	1.93	4	1
1:A:8:ALA:O	1:A:12:LEU:N	0.41	2.54	5	1
1:A:64:VAL:HG11	1:A:79:VAL:HG12	0.41	1.93	1	1
1:A:9:VAL:HA	1:A:12:LEU:CD1	0.41	2.46	3	1
1:A:57:LEU:HD23	1:A:60:MET:SD	0.41	2.56	8	1
1:A:36:ILE:CG2	1:A:41:LEU:HB2	0.40	2.47	7	1
1:A:150:ALA:O	1:A:154:MET:HG2	0.40	2.16	8	1
1:A:43:LYS:HG2	1:A:47:MET:SD	0.40	2.57	4	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:MET:HE2	2:A:201:9XG:CAI	0.40	2.46	6	1
1:A:154:MET:O	1:A:158:LEU:N	0.40	2.53	1	1
1:A:27:PHE:CE2	1:A:153:MET:CG	0.40	3.04	3	1

6.3 Torsion angles [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	92/120 (77%)	88±1 (96±1%)	3±1 (3±1%)	1±1 (1±1%)	20	70
All	All	736/960 (77%)	708 (96%)	23 (3%)	5 (1%)	20	70

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	65	ASP	3
1	A	158	LEU	2

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	78/101 (77%)	68±2 (88±3%)	10±2 (12±3%)	7	48
All	All	624/808 (77%)	547 (88%)	77 (12%)	7	48

All 24 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	4	ILE	8
1	A	157	LEU	8
1	A	40	GLU	6
1	A	79	VAL	6
1	A	9	VAL	5
1	A	21	LYS	5
1	A	158	LEU	5
1	A	39	LYS	5
1	A	27	PHE	4
1	A	78	LEU	4
1	A	81	MET	3
1	A	41	LEU	3
1	A	46	ARG	2
1	A	153	MET	2
1	A	64	VAL	2
1	A	11	GLN	1
1	A	67	ASP	1
1	A	75	ASP	1
1	A	19	GLU	1
1	A	14	GLU	1
1	A	37	SER	1
1	A	29	LEU	1
1	A	72	VAL	1
1	A	73	ASP	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	9XG	A	201	-	15,15,15	1.62±0.01	3±0 (20±0%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	9XG	A	201	-	19,19,19	0.49±0.05	0±0 (0±0%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	9XG	A	201	-	-	0±0,4,4,4	0±0,2,2,2

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	201	9XG	CAA-CAL	3.99	1.39	1.51	5	8
2	A	201	9XG	CAN-NAK	3.42	1.33	1.40	7	8
2	A	201	9XG	CAM-NAK	3.42	1.33	1.40	8	8

There are no bond-angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 92% for the well-defined parts and 87% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1420
Number of shifts mapped to atoms	1420
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	119	-0.13 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	110	0.09 ± 0.08	None needed (< 0.5 ppm)
$^{13}\text{C}'$	114	-0.40 ± 0.12	None needed (< 0.5 ppm)
^{15}N	111	0.03 ± 0.36	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 92%, i.e. 1113 atoms were assigned a chemical shift out of a possible 1216. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	462/462 (100%)	188/188 (100%)	184/184 (100%)	90/90 (100%)
Sidechain	621/695 (89%)	425/451 (94%)	196/226 (87%)	0/18 (0%)

Continued on next page...

Continued from previous page...

	Total	¹H	¹³C	¹⁵N
Aromatic	30/59 (51%)	15/29 (52%)	15/30 (50%)	0/0 (—%)
Overall	1113/1216 (92%)	628/668 (94%)	395/440 (90%)	90/108 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 87%, i.e. 1420 atoms were assigned a chemical shift out of a possible 1623. 0 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	583/603 (97%)	239/246 (97%)	233/240 (97%)	111/117 (95%)
Sidechain	805/943 (85%)	549/608 (90%)	256/297 (86%)	0/38 (0%)
Aromatic	32/77 (42%)	16/38 (42%)	16/37 (43%)	0/2 (0%)
Overall	1420/1623 (87%)	804/892 (90%)	505/574 (88%)	111/157 (71%)

7.1.4 Statistically unusual chemical shifts [i](#)

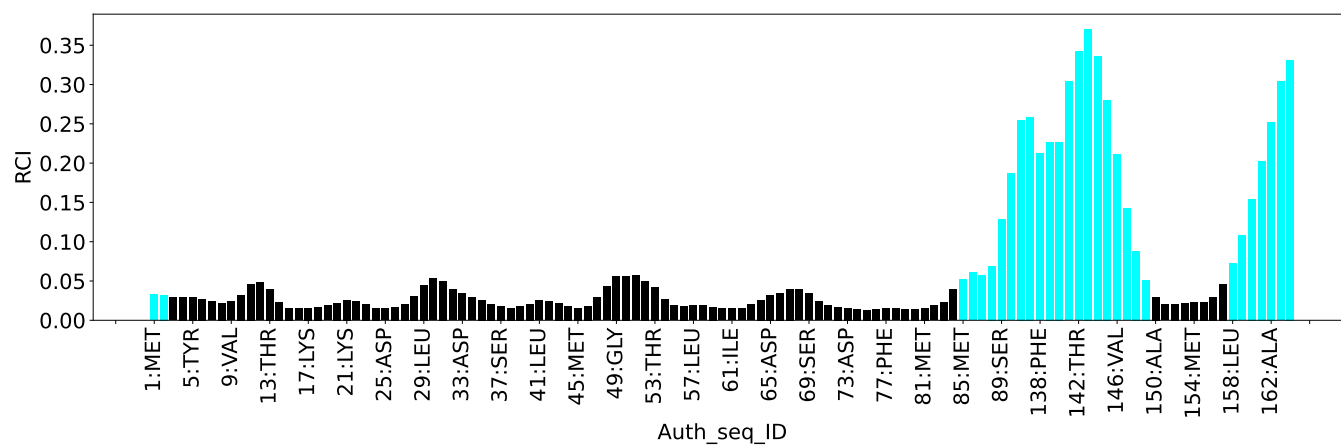
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	21	LYS	HD3	0.46	0.54 – 2.65	-5.4

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	1977
Intra-residue ($ i-j =0$)	779
Sequential ($ i-j =1$)	316
Medium range ($ i-j >1$ and $ i-j <5$)	362
Long range ($ i-j \geq 5$)	496
Inter-chain	24
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	16.3
Number of long range restraints per residue ¹	4.1

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	78.8	0.2
0.2-0.5 (Medium)	135.2	0.5
>0.5 (Large)	131.8	7.84

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

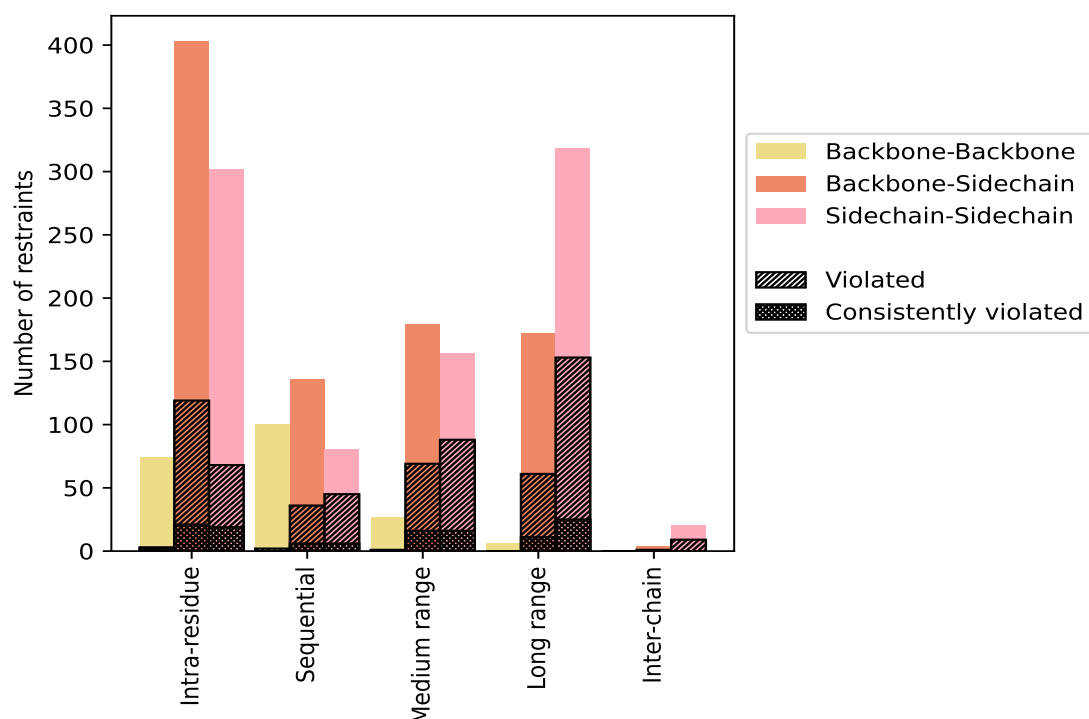
9.1 Summary of distance violations ⓘ

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	779	39.4	190	24.4	9.6	42	5.4	2.1
Backbone-Backbone	74	3.7	3	4.1	0.2	2	2.7	0.1
Backbone-Sidechain	403	20.4	119	29.5	6.0	21	5.2	1.1
Sidechain-Sidechain	302	15.3	68	22.5	3.4	19	6.3	1.0
Sequential ($i-j =1$)	316	16.0	83	26.3	4.2	12	3.8	0.6
Backbone-Backbone	100	5.1	2	2.0	0.1	0	0.0	0.0
Backbone-Sidechain	136	6.9	36	26.5	1.8	6	4.4	0.3
Sidechain-Sidechain	80	4.0	45	56.2	2.3	6	7.5	0.3
Medium range ($i-j >1$ & $i-j <5$)	362	18.3	158	43.6	8.0	32	8.8	1.6
Backbone-Backbone	27	1.4	1	3.7	0.1	0	0.0	0.0
Backbone-Sidechain	179	9.1	69	38.5	3.5	16	8.9	0.8
Sidechain-Sidechain	156	7.9	88	56.4	4.5	16	10.3	0.8
Long range ($i-j \geq 5$)	496	25.1	214	43.1	10.8	36	7.3	1.8
Backbone-Backbone	6	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	172	8.7	61	35.5	3.1	11	6.4	0.6
Sidechain-Sidechain	318	16.1	153	48.1	7.7	25	7.9	1.3
Inter-chain	24	1.2	10	41.7	0.5	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	4	0.2	1	25.0	0.1	0	0.0	0.0
Sidechain-Sidechain	20	1.0	9	45.0	0.5	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1977	100.0	655	33.1	33.1	122	6.2	6.2
Backbone-Backbone	207	10.5	6	2.9	0.3	2	1.0	0.1
Backbone-Sidechain	894	45.2	286	32.0	14.5	54	6.0	2.7
Sidechain-Sidechain	876	44.3	363	41.4	18.4	66	7.5	3.3

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfid bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model [i](#)

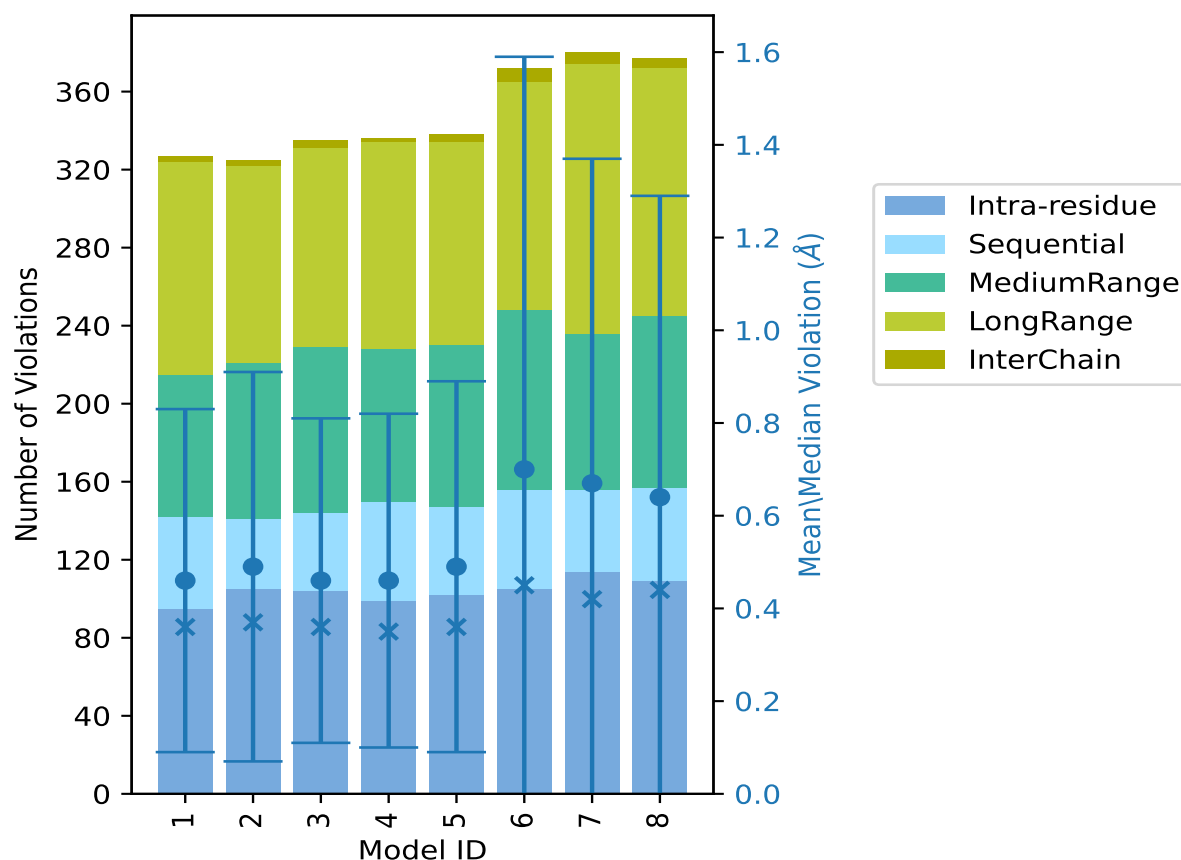
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	95	47	73	109	3	327	0.46	2.67	0.37	0.36
2	105	36	80	101	3	325	0.49	2.77	0.42	0.37
3	104	40	85	102	4	335	0.46	1.91	0.35	0.36
4	99	51	78	106	2	336	0.46	2.19	0.36	0.35
5	102	45	83	104	4	338	0.49	3.06	0.4	0.36
6	105	51	92	117	7	372	0.7	7.84	0.89	0.45
7	114	42	80	138	6	380	0.67	4.72	0.7	0.42
8	109	48	88	127	5	377	0.64	6.82	0.65	0.44

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1322(IR:589, SQ:233, MR:204, LR:282, IC:14) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
41	20	32	44	1	138	1	12.5
27	13	30	25	4	99	2	25.0
12	7	18	32	1	70	3	37.5
19	7	4	18	0	48	4	50.0
15	10	13	16	2	56	5	62.5
19	3	13	21	2	58	6	75.0

Continued on next page...

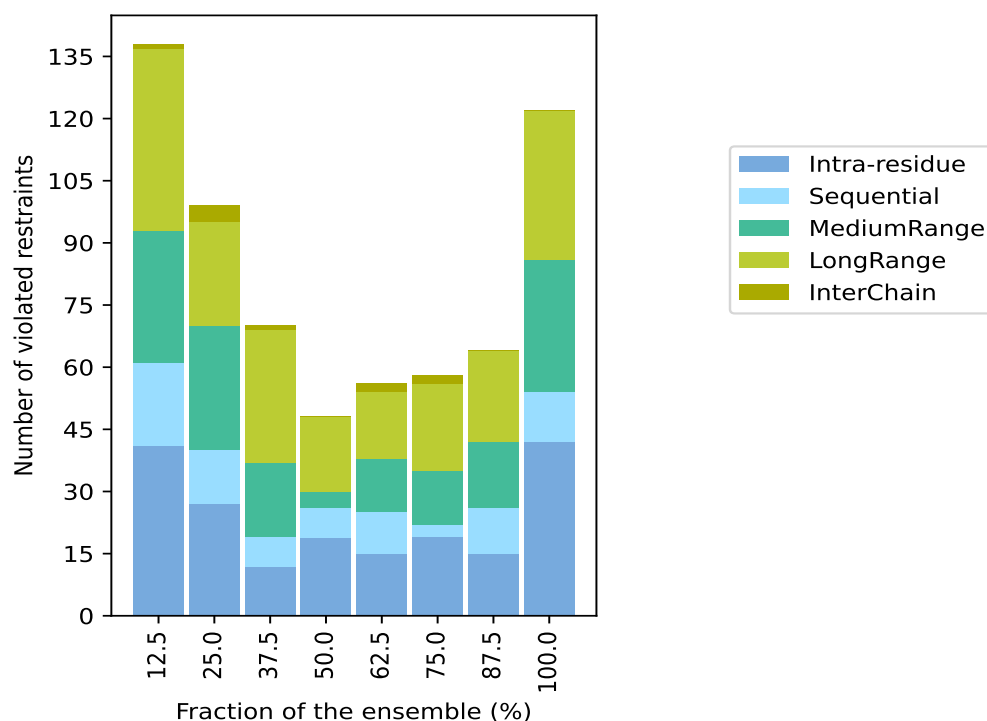
Continued from previous page...

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
15	11	16	22	0	64	7	87.5
42	12	32	36	0	122	8	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

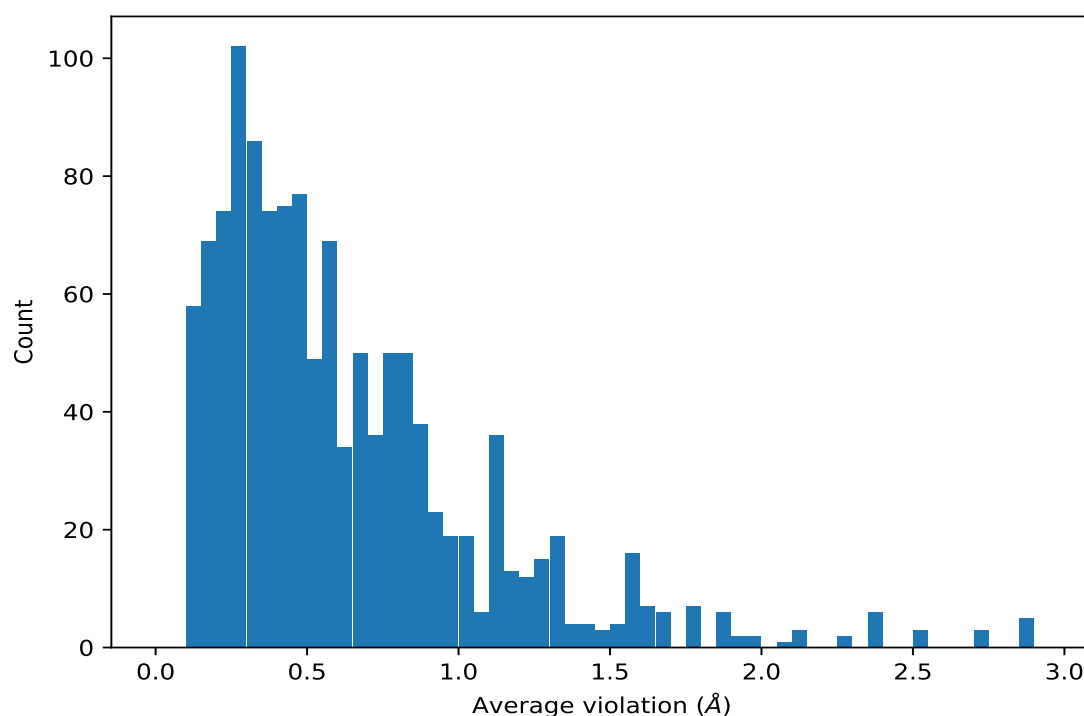
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD11	8	2.35	2.11	1.78
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD12	8	2.35	2.11	1.78
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD13	8	2.35	2.11	1.78
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD12	8	2.35	2.11	1.78
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD11	8	2.35	2.11	1.78
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD13	8	2.35	2.11	1.78
(2,88)	1:4:A:ILE:HG22	1:139:A:LYS:HB3	8	1.6	0.42	1.72
(2,88)	1:4:A:ILE:HG23	1:80:A:MET:HB2	8	1.6	0.42	1.72
(2,88)	1:4:A:ILE:HG22	1:80:A:MET:HB2	8	1.6	0.42	1.72
(2,88)	1:4:A:ILE:HG21	1:80:A:MET:HB2	8	1.6	0.42	1.72
(2,92)	1:153:A:MET:HE3	1:23:A:ALA:HA	8	1.38	0.33	1.49
(2,92)	1:153:A:MET:HE1	1:23:A:ALA:HA	8	1.38	0.33	1.49
(2,92)	1:153:A:MET:HE1	1:149:A:SER:HB3	8	1.38	0.33	1.49
(2,92)	1:153:A:MET:HE2	1:23:A:ALA:HA	8	1.38	0.33	1.49
(2,295)	1:148:A:ILE:HG22	1:77:A:PHE:HZ	8	1.34	0.58	1.0
(2,295)	1:148:A:ILE:HG23	1:77:A:PHE:HZ	8	1.34	0.58	1.0

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,295)	1:77:A:PHE:HZ	1:26:A:ILE:HD13	8	1.34	0.58	1.0
(2,295)	1:77:A:PHE:HZ	1:158:A:LEU:HD21	8	1.34	0.58	1.0
(2,295)	1:148:A:ILE:HG21	1:77:A:PHE:HZ	8	1.34	0.58	1.0
(2,141)	1:41:A:LEU:HD11	1:80:A:MET:HG2	8	1.3	0.15	1.25
(2,141)	1:41:A:LEU:HD13	1:72:A:VAL:HB	8	1.3	0.15	1.25
(2,141)	1:41:A:LEU:HD11	1:72:A:VAL:HB	8	1.3	0.15	1.25
(2,141)	1:41:A:LEU:HD11	1:52:A:PRO:HB3	8	1.3	0.15	1.25
(2,141)	1:41:A:LEU:HD13	1:52:A:PRO:HB3	8	1.3	0.15	1.25
(2,129)	1:38:A:THR:HG23	1:60:A:MET:HE1	8	1.29	0.16	1.33
(2,129)	1:38:A:THR:HG22	1:60:A:MET:HE1	8	1.29	0.16	1.33
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE3	8	1.29	0.16	1.33
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE2	8	1.29	0.16	1.33
(2,129)	1:38:A:THR:HG23	1:60:A:MET:HE3	8	1.29	0.16	1.33
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE1	8	1.29	0.16	1.33
(1,492)	1:4:A:ILE:HG23	1:7:A:ALA:HB1	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG23	1:7:A:ALA:HB2	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB1	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB3	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG21	1:7:A:ALA:HB2	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB2	8	1.25	0.07	1.27
(1,492)	1:4:A:ILE:HG21	1:7:A:ALA:HB1	8	1.25	0.07	1.27
(2,169)	1:156:A:ALA:HB3	1:155:A:GLN:HB2	8	1.2	0.17	1.21
(2,169)	1:155:A:GLN:HB3	1:158:A:LEU:HB2	8	1.2	0.17	1.21
(2,169)	1:152:A:ALA:HB2	1:155:A:GLN:HB2	8	1.2	0.17	1.21
(2,169)	1:152:A:ALA:HB3	1:155:A:GLN:HB2	8	1.2	0.17	1.21
(2,169)	1:155:A:GLN:HB2	1:158:A:LEU:HB2	8	1.2	0.17	1.21
(2,169)	1:156:A:ALA:HB2	1:155:A:GLN:HB3	8	1.2	0.17	1.21
(2,169)	1:156:A:ALA:HB3	1:155:A:GLN:HB3	8	1.2	0.17	1.21
(1,1154)	1:4:A:ILE:HD11	1:2:A:ASP:HB2	8	1.19	0.66	1.17
(1,1154)	1:4:A:ILE:HD13	1:2:A:ASP:HB2	8	1.19	0.66	1.17
(1,1154)	1:4:A:ILE:HD12	1:2:A:ASP:HB2	8	1.19	0.66	1.17
(2,335)	1:81:A:MET:H	1:153:A:MET:HE3	8	1.15	0.36	1.04
(2,335)	1:81:A:MET:H	1:153:A:MET:HE1	8	1.15	0.36	1.04
(2,335)	1:81:A:MET:H	1:1:A:MET:HE3	8	1.15	0.36	1.04
(2,335)	1:81:A:MET:H	1:153:A:MET:HE2	8	1.15	0.36	1.04
(2,335)	1:81:A:MET:H	1:1:A:MET:HE2	8	1.15	0.36	1.04
(2,270)	1:45:A:MET:HE3	1:148:A:ILE:HG12	8	1.13	0.35	1.3
(2,270)	1:45:A:MET:HE3	1:57:A:LEU:HB3	8	1.13	0.35	1.3
(2,270)	1:45:A:MET:HE2	1:57:A:LEU:HB3	8	1.13	0.35	1.3
(2,270)	1:45:A:MET:HE1	1:57:A:LEU:HB3	8	1.13	0.35	1.3
(2,270)	1:45:A:MET:HE2	1:148:A:ILE:HG12	8	1.13	0.35	1.3
(2,137)	1:48:A:LEU:HD23	1:156:A:ALA:HA	8	1.12	0.25	1.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,137)	1:48:A:LEU:HD22	1:156:A:ALA:HA	8	1.12	0.25	1.14
(2,137)	1:48:A:LEU:HD22	1:45:A:MET:HA	8	1.12	0.25	1.14
(2,137)	1:48:A:LEU:HD21	1:156:A:ALA:HA	8	1.12	0.25	1.14
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG21	8	1.11	0.37	1.16
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG22	8	1.11	0.37	1.16
(2,89)	1:148:A:ILE:HG22	1:149:A:SER:HB3	8	1.11	0.37	1.16
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD1	8	1.02	0.25	0.97
(2,256)	1:22:A:ALA:HB2	1:20:A:PHE:HD2	8	1.02	0.25	0.97
(2,256)	1:22:A:ALA:HB3	1:20:A:PHE:HD2	8	1.02	0.25	0.97
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD2	8	1.02	0.25	0.97
(2,256)	1:22:A:ALA:HB2	1:20:A:PHE:HD1	8	1.02	0.25	0.97
(1,1153)	1:4:A:ILE:HD12	1:86:A:LYS:HE3	8	1.01	0.14	1.06
(1,1153)	1:4:A:ILE:HD13	1:86:A:LYS:HE2	8	1.01	0.14	1.06
(1,1153)	1:4:A:ILE:HD11	1:86:A:LYS:HE3	8	1.01	0.14	1.06
(1,1153)	1:4:A:ILE:HD12	1:86:A:LYS:HE2	8	1.01	0.14	1.06
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD21	8	1.0	0.55	0.86
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD22	8	1.0	0.55	0.86
(2,249)	1:151:A:ASP:HB3	1:148:A:ILE:HG23	8	1.0	0.55	0.86
(2,249)	1:151:A:ASP:HB3	1:148:A:ILE:HG21	8	1.0	0.55	0.86
(1,653)	1:48:A:LEU:HD12	1:44:A:VAL:HG22	8	1.0	0.37	1.0
(1,653)	1:48:A:LEU:HD12	1:44:A:VAL:HG21	8	1.0	0.37	1.0
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG21	8	1.0	0.37	1.0
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG23	8	1.0	0.37	1.0
(1,653)	1:48:A:LEU:HD13	1:44:A:VAL:HG23	8	1.0	0.37	1.0
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG22	8	1.0	0.37	1.0
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG13	8	0.99	0.58	0.94
(2,154)	1:158:A:LEU:HD12	1:44:A:VAL:HG12	8	0.99	0.58	0.94
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG11	8	0.99	0.58	0.94
(2,154)	1:158:A:LEU:HD13	1:78:A:LEU:HD11	8	0.99	0.58	0.94
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG12	8	0.99	0.58	0.94
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	8	0.97	0.71	0.62
(2,84)	1:85:A:MET:HE3	1:85:A:MET:HA	8	0.97	0.71	0.62
(1,422)	1:61:A:ILE:HD12	1:61:A:ILE:HA	8	0.97	0.19	0.94
(1,422)	1:61:A:ILE:HD13	1:61:A:ILE:HA	8	0.97	0.19	0.94
(1,422)	1:61:A:ILE:HD11	1:61:A:ILE:HA	8	0.97	0.19	0.94
(1,511)	1:28:A:VAL:HG23	1:36:A:ILE:HD13	8	0.92	0.21	0.98
(1,511)	1:28:A:VAL:HG21	1:36:A:ILE:HD12	8	0.92	0.21	0.98
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD12	8	0.92	0.21	0.98
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD11	8	0.92	0.21	0.98
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD13	8	0.92	0.21	0.98
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD12	8	0.89	0.19	0.94
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	8	0.89	0.19	0.94

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD11	8	0.89	0.19	0.94
(2,300)	1:148:A:ILE:HD13	1:27:A:PHE:HE1	8	0.89	0.32	0.88
(2,300)	1:148:A:ILE:HD12	1:27:A:PHE:HE2	8	0.89	0.32	0.88
(2,300)	1:148:A:ILE:HD12	1:27:A:PHE:HE1	8	0.89	0.32	0.88
(2,300)	1:27:A:PHE:HE2	1:36:A:ILE:HG21	8	0.89	0.32	0.88
(2,300)	1:27:A:PHE:HE1	1:36:A:ILE:HG23	8	0.89	0.32	0.88
(2,300)	1:27:A:PHE:HE2	1:36:A:ILE:HG23	8	0.89	0.32	0.88
(1,432)	1:148:A:ILE:HD13	1:45:A:MET:HB3	8	0.88	0.3	0.91
(1,432)	1:148:A:ILE:HD12	1:45:A:MET:HB3	8	0.88	0.3	0.91
(1,432)	1:148:A:ILE:HD11	1:45:A:MET:HB3	8	0.88	0.3	0.91
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	8	0.88	0.17	0.86
(2,42)	1:2:A:ASP:HA	1:6:A:LYS:HD3	8	0.88	0.17	0.86
(2,42)	1:2:A:ASP:HA	1:6:A:LYS:HD2	8	0.88	0.17	0.86
(2,42)	1:87:A:ASP:HA	1:86:A:LYS:HD3	8	0.88	0.17	0.86
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	8	0.87	0.13	0.88
(2,103)	1:8:A:ALA:HB2	1:12:A:LEU:HG	8	0.87	0.13	0.88
(2,103)	1:8:A:ALA:HB3	1:12:A:LEU:HG	8	0.87	0.13	0.88
(2,123)	1:146:A:VAL:HG13	1:145:A:ARG:HA	8	0.87	0.74	0.66
(2,123)	1:146:A:VAL:HG11	1:145:A:ARG:HA	8	0.87	0.74	0.66
(2,123)	1:146:A:VAL:HG12	1:144:A:ARG:HA	8	0.87	0.74	0.66
(2,123)	1:146:A:VAL:HG12	1:145:A:ARG:HA	8	0.87	0.74	0.66
(2,219)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	8	0.86	0.24	0.85
(2,219)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	8	0.86	0.24	0.85
(2,219)	1:28:A:VAL:HG11	1:43:A:LYS:HD3	8	0.86	0.24	0.85
(2,219)	1:28:A:VAL:HG13	1:43:A:LYS:HD3	8	0.86	0.24	0.85
(2,219)	1:28:A:VAL:HG12	1:29:A:LEU:HB2	8	0.86	0.24	0.85
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD23	8	0.86	0.14	0.87
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD21	8	0.86	0.14	0.87
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD22	8	0.86	0.14	0.87
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	8	0.86	0.15	0.83
(2,181)	1:72:A:VAL:HB	1:77:A:PHE:HB3	8	0.86	0.15	0.83
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG22	8	0.83	0.2	0.86
(1,1111)	1:153:A:MET:HE3	1:44:A:VAL:HG21	8	0.83	0.2	0.86
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG21	8	0.83	0.2	0.86
(1,1111)	1:153:A:MET:HE1	1:44:A:VAL:HG23	8	0.83	0.2	0.86
(1,1111)	1:153:A:MET:HE1	1:44:A:VAL:HG21	8	0.83	0.2	0.86
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG23	8	0.83	0.2	0.86
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD13	8	0.82	0.68	0.61
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD21	8	0.82	0.68	0.61
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD12	8	0.82	0.68	0.61
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD12	8	0.82	0.68	0.61
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD22	8	0.82	0.68	0.61

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD22	8	0.82	0.68	0.61
(1,1152)	1:148:A:ILE:HD12	1:148:A:ILE:HA	8	0.81	0.05	0.81
(1,1152)	1:148:A:ILE:HD13	1:148:A:ILE:HA	8	0.81	0.05	0.81
(1,1152)	1:148:A:ILE:HD11	1:148:A:ILE:HA	8	0.81	0.05	0.81
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD12	8	0.8	0.22	0.77
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD13	8	0.8	0.22	0.77
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD11	8	0.8	0.22	0.77
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	8	0.8	0.58	0.49
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB3	8	0.8	0.58	0.49
(2,235)	1:61:A:ILE:HD11	1:57:A:LEU:HA	8	0.79	0.46	1.06
(2,235)	1:61:A:ILE:HD12	1:57:A:LEU:HA	8	0.79	0.46	1.06
(2,235)	1:61:A:ILE:HD13	1:57:A:LEU:HA	8	0.79	0.46	1.06
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	8	0.78	0.36	0.64
(2,132)	1:38:A:THR:HG23	1:41:A:LEU:HD21	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG22	1:41:A:LEU:HD21	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG21	1:41:A:LEU:HD22	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG21	1:41:A:LEU:HD23	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG23	1:41:A:LEU:HD22	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG21	1:57:A:LEU:HD13	8	0.78	0.58	0.43
(2,132)	1:38:A:THR:HG23	1:57:A:LEU:HD13	8	0.78	0.58	0.43
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE2	8	0.77	0.15	0.82
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	8	0.77	0.15	0.82
(2,260)	1:148:A:ILE:HG23	1:154:A:MET:HG3	8	0.76	0.17	0.7
(2,260)	1:148:A:ILE:HG21	1:154:A:MET:HG3	8	0.76	0.17	0.7
(2,260)	1:148:A:ILE:HG22	1:154:A:MET:HG3	8	0.76	0.17	0.7
(2,260)	1:148:A:ILE:HG21	1:154:A:MET:HG2	8	0.76	0.17	0.7
(2,260)	1:148:A:ILE:HG22	1:154:A:MET:HG2	8	0.76	0.17	0.7
(2,76)	1:61:A:ILE:HD13	1:38:A:THR:HB	8	0.74	0.33	0.89
(2,76)	1:61:A:ILE:HD11	1:38:A:THR:HB	8	0.74	0.33	0.89
(2,76)	1:61:A:ILE:HD12	1:38:A:THR:HB	8	0.74	0.33	0.89
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD11	8	0.73	0.35	0.72
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD13	8	0.73	0.35	0.72
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD12	8	0.73	0.35	0.72
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG13	8	0.73	0.17	0.74
(1,477)	1:153:A:MET:HE3	1:44:A:VAL:HG13	8	0.73	0.17	0.74
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG12	8	0.73	0.17	0.74
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG11	8	0.73	0.17	0.74
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG13	8	0.73	0.17	0.74
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG12	8	0.73	0.17	0.74
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD22	8	0.71	0.21	0.77
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD21	8	0.71	0.21	0.77
(2,7)	1:44:A:VAL:HA	1:148:A:ILE:HD11	8	0.71	0.21	0.77

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,7)	1:44:A:VAL:HA	1:148:A:ILE:HD13	8	0.71	0.21	0.77
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD23	8	0.71	0.21	0.77
(1,1113)	1:22:A:ALA:HB3	1:25:A:ASP:HB2	8	0.69	0.17	0.77
(1,1113)	1:22:A:ALA:HB1	1:25:A:ASP:HB2	8	0.69	0.17	0.77
(1,1113)	1:22:A:ALA:HB2	1:25:A:ASP:HB2	8	0.69	0.17	0.77
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG22	8	0.69	0.06	0.69
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG23	8	0.69	0.06	0.69
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG21	8	0.69	0.06	0.69
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	8	0.68	0.24	0.7
(2,233)	1:85:A:MET:HG3	1:81:A:MET:HA	8	0.68	0.24	0.7
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB2	8	0.68	0.24	0.7
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG22	8	0.66	0.07	0.66
(1,441)	1:61:A:ILE:HG22	1:38:A:THR:HG21	8	0.66	0.07	0.66
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG23	8	0.66	0.07	0.66
(1,441)	1:61:A:ILE:HG22	1:38:A:THR:HG23	8	0.66	0.07	0.66
(1,441)	1:61:A:ILE:HG23	1:38:A:THR:HG23	8	0.66	0.07	0.66
(1,441)	1:61:A:ILE:HG23	1:38:A:THR:HG22	8	0.66	0.07	0.66
(2,146)	1:29:A:LEU:HD23	1:26:A:ILE:HB	8	0.65	0.23	0.64
(2,146)	1:29:A:LEU:HD21	1:26:A:ILE:HB	8	0.65	0.23	0.64
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	8	0.65	0.23	0.64
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD21	8	0.64	0.5	0.5
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD22	8	0.64	0.5	0.5
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD23	8	0.64	0.5	0.5
(2,217)	1:28:A:VAL:HA	1:157:A:LEU:HD12	8	0.64	0.5	0.5
(2,274)	1:36:A:ILE:HG21	1:71:A:THR:HB	8	0.62	0.13	0.6
(2,274)	1:36:A:ILE:HG23	1:71:A:THR:HB	8	0.62	0.13	0.6
(2,274)	1:36:A:ILE:HG22	1:71:A:THR:HB	8	0.62	0.13	0.6
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG22	8	0.6	0.02	0.6
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG23	8	0.6	0.02	0.6
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG21	8	0.6	0.02	0.6
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	8	0.6	0.07	0.57
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG21	8	0.6	0.07	0.57
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG23	8	0.6	0.07	0.57
(1,434)	1:4:A:ILE:HD11	1:4:A:ILE:HB	8	0.57	0.03	0.57
(1,434)	1:4:A:ILE:HD12	1:4:A:ILE:HB	8	0.57	0.03	0.57
(1,434)	1:4:A:ILE:HD13	1:4:A:ILE:HB	8	0.57	0.03	0.57
(1,488)	1:45:A:MET:HE2	1:45:A:MET:HG2	8	0.57	0.05	0.55
(1,488)	1:45:A:MET:HE3	1:45:A:MET:HG2	8	0.57	0.05	0.55
(1,488)	1:45:A:MET:HE1	1:45:A:MET:HG2	8	0.57	0.05	0.55
(2,96)	1:154:A:MET:HE1	1:155:A:GLN:HA	8	0.56	0.13	0.6
(2,96)	1:154:A:MET:HE3	1:155:A:GLN:HA	8	0.56	0.13	0.6
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG21	8	0.54	0.04	0.56

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG23	8	0.54	0.04	0.56
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG22	8	0.54	0.04	0.56
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	8	0.53	0.08	0.52
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HG3	8	0.53	0.08	0.52
(1,1085)	1:26:A:ILE:HD11	1:25:A:ASP:HB2	8	0.51	0.17	0.58
(1,1085)	1:26:A:ILE:HD13	1:25:A:ASP:HB2	8	0.51	0.17	0.58
(1,1085)	1:26:A:ILE:HD12	1:25:A:ASP:HB2	8	0.51	0.17	0.58
(1,648)	1:48:A:LEU:HD13	1:48:A:LEU:HA	8	0.49	0.1	0.48
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	8	0.49	0.1	0.48
(1,648)	1:48:A:LEU:HD11	1:48:A:LEU:HA	8	0.49	0.1	0.48
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	8	0.49	0.06	0.5
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE1	8	0.49	0.06	0.5
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	8	0.48	0.25	0.48
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE2	8	0.48	0.25	0.48
(1,1229)	1:20:A:PHE:HE2	1:20:A:PHE:HB2	8	0.48	0.03	0.48
(1,1229)	1:20:A:PHE:HE1	1:20:A:PHE:HB2	8	0.48	0.03	0.48
(1,1008)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	8	0.48	0.1	0.51
(1,1008)	1:28:A:VAL:HG21	1:25:A:ASP:HB2	8	0.48	0.1	0.51
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	8	0.48	0.1	0.51
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	8	0.47	0.07	0.46
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE3	8	0.47	0.07	0.46
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	8	0.47	0.39	0.35
(1,764)	1:8:A:ALA:HB3	1:10:A:GLU:HG3	8	0.47	0.39	0.35
(1,764)	1:8:A:ALA:HB1	1:10:A:GLU:HG3	8	0.47	0.39	0.35
(1,484)	1:45:A:MET:HE1	1:45:A:MET:HA	8	0.47	0.06	0.47
(1,484)	1:45:A:MET:HE2	1:45:A:MET:HA	8	0.47	0.06	0.47
(1,484)	1:45:A:MET:HE3	1:45:A:MET:HA	8	0.47	0.06	0.47
(2,98)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	8	0.46	0.11	0.43
(2,98)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	8	0.46	0.11	0.43
(2,98)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	8	0.46	0.11	0.43
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	8	0.46	0.05	0.48
(1,329)	1:145:A:ARG:HD3	1:145:A:ARG:HG3	8	0.46	0.05	0.48
(1,329)	1:145:A:ARG:HD3	1:145:A:ARG:HG2	8	0.46	0.05	0.48
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB3	8	0.46	0.18	0.4
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB2	8	0.46	0.18	0.4
(2,204)	1:81:A:MET:HE3	1:84:A:SER:HB3	8	0.46	0.18	0.4
(2,204)	1:89:A:SER:HB2	1:137:A:LYS:HD3	8	0.46	0.18	0.4
(2,204)	1:81:A:MET:HE3	1:84:A:SER:HB2	8	0.46	0.18	0.4
(2,33)	1:16:A:GLN:HA	1:15:A:GLU:HB2	8	0.45	0.11	0.46
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	8	0.45	0.11	0.46
(2,197)	1:14:A:GLU:HA	1:17:A:LYS:HD3	8	0.45	0.26	0.4
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	8	0.45	0.26	0.4

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE1	8	0.45	0.1	0.48
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	8	0.45	0.1	0.48
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	8	0.44	0.1	0.41
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD22	8	0.44	0.1	0.41
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD23	8	0.44	0.1	0.41
(2,118)	1:72:A:VAL:HG11	1:73:A:ASP:HB3	8	0.44	0.12	0.45
(2,118)	1:72:A:VAL:HG13	1:73:A:ASP:HB3	8	0.44	0.12	0.45
(2,118)	1:72:A:VAL:HG12	1:73:A:ASP:HB3	8	0.44	0.12	0.45
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD13	8	0.44	0.08	0.43
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD21	8	0.44	0.08	0.43
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD11	8	0.44	0.08	0.43
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD22	8	0.44	0.08	0.43
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD23	8	0.44	0.08	0.43
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	8	0.42	0.02	0.42
(2,74)	1:6:A:LYS:HE2	1:6:A:LYS:HD3	8	0.42	0.02	0.42
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG12	8	0.42	0.55	0.22
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG11	8	0.42	0.55	0.22
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG13	8	0.42	0.55	0.22
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	8	0.41	0.06	0.41
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB3	8	0.41	0.06	0.41
(2,194)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	8	0.4	0.02	0.4
(2,194)	1:90:A:LYS:HG3	1:90:A:LYS:HB3	8	0.4	0.02	0.4
(2,194)	1:6:A:LYS:HB3	1:6:A:LYS:HG2	8	0.4	0.02	0.4
(1,423)	1:61:A:ILE:HD12	1:72:A:VAL:HB	8	0.4	0.14	0.42
(1,423)	1:61:A:ILE:HD13	1:72:A:VAL:HB	8	0.4	0.14	0.42
(1,423)	1:61:A:ILE:HD11	1:72:A:VAL:HB	8	0.4	0.14	0.42
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	8	0.39	0.01	0.4
(1,1183)	1:5:A:TYR:HD1	1:5:A:TYR:HE1	8	0.39	0.01	0.4
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG21	8	0.39	0.08	0.41
(1,287)	1:54:A:PRO:HD3	1:53:A:THR:HG21	8	0.39	0.08	0.41
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG22	8	0.39	0.08	0.41
(1,287)	1:54:A:PRO:HD3	1:53:A:THR:HG23	8	0.39	0.08	0.41
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG23	8	0.39	0.08	0.41
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG21	8	0.38	0.29	0.24
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG23	8	0.38	0.29	0.24
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG22	8	0.38	0.29	0.24
(1,438)	1:61:A:ILE:HG21	1:58:A:GLN:HA	8	0.38	0.09	0.38
(1,438)	1:61:A:ILE:HG22	1:58:A:GLN:HA	8	0.38	0.09	0.38
(1,438)	1:61:A:ILE:HG23	1:58:A:GLN:HA	8	0.38	0.09	0.38
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG23	8	0.38	0.07	0.37
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG21	8	0.38	0.07	0.37
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG22	8	0.38	0.07	0.37

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	8	0.37	0.16	0.3
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG22	8	0.37	0.16	0.3
(1,523)	1:31:A:ALA:HB1	1:28:A:VAL:HG23	8	0.37	0.16	0.3
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	8	0.37	0.18	0.3
(2,32)	1:21:A:LYS:HA	1:21:A:LYS:HB3	8	0.37	0.18	0.3
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG13	8	0.36	0.18	0.37
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG12	8	0.36	0.18	0.37
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG11	8	0.36	0.18	0.37
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	8	0.36	0.05	0.37
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD1	8	0.36	0.05	0.37
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB2	8	0.36	0.04	0.36
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB1	8	0.36	0.04	0.36
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB3	8	0.36	0.04	0.36
(2,109)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	8	0.33	0.1	0.36
(2,109)	1:28:A:VAL:HG21	1:25:A:ASP:HB2	8	0.33	0.1	0.36
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	8	0.33	0.1	0.36
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	8	0.33	0.05	0.34
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	8	0.32	0.13	0.31
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	8	0.32	0.05	0.34
(2,150)	1:90:A:LYS:HG3	1:90:A:LYS:HB3	8	0.32	0.05	0.34
(2,150)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	8	0.32	0.05	0.34
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.31	0.02	0.31
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	8	0.31	0.09	0.27
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	8	0.3	0.05	0.32
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB3	8	0.3	0.05	0.32
(2,201)	1:12:A:LEU:HD21	1:16:A:GLN:HB2	8	0.3	0.09	0.29
(2,201)	1:56:A:GLU:HB2	1:146:A:VAL:HG23	8	0.3	0.09	0.29
(2,201)	1:56:A:GLU:HB2	1:146:A:VAL:HG21	8	0.3	0.09	0.29
(2,201)	1:12:A:LEU:HD23	1:16:A:GLN:HB2	8	0.3	0.09	0.29
(2,281)	1:36:A:ILE:HD12	1:77:A:PHE:HA	8	0.3	0.12	0.32
(2,281)	1:36:A:ILE:HD11	1:77:A:PHE:HA	8	0.3	0.12	0.32
(2,281)	1:36:A:ILE:HD13	1:77:A:PHE:HA	8	0.3	0.12	0.32
(2,281)	1:36:A:ILE:HD13	1:36:A:ILE:HA	8	0.3	0.12	0.32
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG21	8	0.28	0.12	0.27
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG23	8	0.28	0.12	0.27
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG22	8	0.28	0.12	0.27
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	8	0.27	0.09	0.25
(2,171)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	8	0.27	0.02	0.28
(2,171)	1:139:A:LYS:HD2	1:139:A:LYS:HE2	8	0.27	0.02	0.28
(2,171)	1:163:A:LYS:HD3	1:163:A:LYS:HE2	8	0.27	0.02	0.28
(2,171)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	8	0.27	0.02	0.28
(2,171)	1:86:A:LYS:HE3	1:86:A:LYS:HD2	8	0.27	0.02	0.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,171)	1:139:A:LYS:HD3	1:139:A:LYS:HE2	8	0.27	0.02	0.28
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB2	8	0.27	0.03	0.26
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB3	8	0.27	0.03	0.26
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB1	8	0.27	0.03	0.26
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB3	8	0.27	0.01	0.27
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB1	8	0.27	0.01	0.27
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB2	8	0.27	0.01	0.27
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD11	8	0.27	0.12	0.26
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD13	8	0.27	0.12	0.26
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD12	8	0.27	0.12	0.26
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	8	0.26	0.05	0.26
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD21	8	0.25	0.06	0.25
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD22	8	0.25	0.06	0.25
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD23	8	0.25	0.06	0.25
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	8	0.24	0.07	0.26
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG3	8	0.24	0.07	0.26
(2,68)	1:6:A:LYS:HE2	1:6:A:LYS:HG2	8	0.24	0.07	0.26
(2,68)	1:86:A:LYS:HE2	1:86:A:LYS:HG3	8	0.24	0.07	0.26
(2,192)	1:9:A:VAL:HG21	1:9:A:VAL:HB	8	0.23	0.03	0.24
(2,192)	1:9:A:VAL:HG13	1:9:A:VAL:HB	8	0.23	0.03	0.24
(2,192)	1:9:A:VAL:HG12	1:9:A:VAL:HB	8	0.23	0.03	0.24
(2,192)	1:9:A:VAL:HG11	1:9:A:VAL:HB	8	0.23	0.03	0.24
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	8	0.22	0.03	0.22
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	8	0.2	0.01	0.21
(2,139)	1:48:A:LEU:HD22	1:48:A:LEU:HG	8	0.2	0.01	0.21
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	8	0.2	0.04	0.2
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB2	8	0.2	0.04	0.2
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	8	0.2	0.04	0.21
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	8	0.2	0.0	0.2
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE2	8	0.19	0.01	0.19
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE1	8	0.19	0.01	0.19
(2,159)	1:48:A:LEU:HD12	1:48:A:LEU:HG	8	0.18	0.02	0.18
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	8	0.18	0.02	0.18
(2,159)	1:48:A:LEU:HD13	1:48:A:LEU:HG	8	0.18	0.02	0.18
(2,115)	1:13:A:THR:HB	1:13:A:THR:HG21	8	0.18	0.0	0.18
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	8	0.18	0.0	0.18
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG22	8	0.18	0.0	0.18
(2,115)	1:13:A:THR:HB	1:13:A:THR:HG22	8	0.18	0.0	0.18
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	8	0.16	0.02	0.16
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	8	0.16	0.03	0.15
(2,344)	1:155:A:GLN:H	1:155:A:GLN:HA	8	0.16	0.03	0.15
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	8	0.13	0.01	0.13

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	8	0.12	0.01	0.12
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD12	7	2.55	2.24	1.11
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD13	7	2.55	2.24	1.11
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD11	7	2.55	2.24	1.11
(1,518)	1:160:A:ALA:HB2	1:158:A:LEU:HD12	7	1.69	1.1	1.06
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD13	7	1.69	1.1	1.06
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD12	7	1.69	1.1	1.06
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD11	7	1.69	1.1	1.06
(1,518)	1:160:A:ALA:HB2	1:158:A:LEU:HD11	7	1.69	1.1	1.06
(1,518)	1:160:A:ALA:HB1	1:158:A:LEU:HD12	7	1.69	1.1	1.06
(2,59)	1:145:A:ARG:HD3	1:146:A:VAL:HG13	7	1.56	0.68	1.49
(2,59)	1:147:A:ARG:HD2	1:148:A:ILE:HG22	7	1.56	0.68	1.49
(2,59)	1:147:A:ARG:HD2	1:148:A:ILE:HG21	7	1.56	0.68	1.49
(2,59)	1:145:A:ARG:HD3	1:146:A:VAL:HG11	7	1.56	0.68	1.49
(2,59)	1:145:A:ARG:HD2	1:143:A:LEU:HD11	7	1.56	0.68	1.49
(2,59)	1:145:A:ARG:HD2	1:146:A:VAL:HG12	7	1.56	0.68	1.49
(2,251)	1:148:A:ILE:HD12	1:147:A:ARG:HD2	7	1.33	0.44	1.49
(2,251)	1:148:A:ILE:HD11	1:147:A:ARG:HD2	7	1.33	0.44	1.49
(2,251)	1:148:A:ILE:HD13	1:147:A:ARG:HD2	7	1.33	0.44	1.49
(2,243)	1:78:A:LEU:HD13	1:81:A:MET:HE2	7	1.24	1.03	0.86
(2,243)	1:81:A:MET:HE2	1:44:A:VAL:HG12	7	1.24	1.03	0.86
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE2	7	1.24	1.03	0.86
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE1	7	1.24	1.03	0.86
(2,243)	1:78:A:LEU:HD12	1:81:A:MET:HE2	7	1.24	1.03	0.86
(2,70)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	7	1.12	0.31	1.13
(2,70)	1:2:A:ASP:HB3	1:4:A:ILE:HG13	7	1.12	0.31	1.13
(2,70)	1:2:A:ASP:HB3	1:79:A:VAL:HG22	7	1.12	0.31	1.13
(2,247)	1:147:A:ARG:HD2	1:84:A:SER:HA	7	1.12	1.7	0.29
(2,247)	1:84:A:SER:HA	1:147:A:ARG:HD3	7	1.12	1.7	0.29
(2,247)	1:84:A:SER:HA	1:140:A:ARG:HD2	7	1.12	1.7	0.29
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	7	0.99	0.39	1.19
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD11	7	0.98	0.8	0.86
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD12	7	0.98	0.8	0.86
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD13	7	0.98	0.8	0.86
(2,289)	1:11:A:GLN:HG2	1:12:A:LEU:HD11	7	0.98	0.8	0.86
(1,516)	1:162:A:ALA:HB3	1:158:A:LEU:HD11	7	0.85	0.23	0.84
(1,516)	1:162:A:ALA:HB2	1:158:A:LEU:HD11	7	0.85	0.23	0.84
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD12	7	0.85	0.23	0.84
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD13	7	0.85	0.23	0.84
(1,516)	1:162:A:ALA:HB3	1:158:A:LEU:HD12	7	0.85	0.23	0.84
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD11	7	0.85	0.23	0.84
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	7	0.82	0.5	0.94

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,452)	1:85:A:MET:HE2	1:86:A:LYS:HE2	7	0.82	0.5	0.94
(1,452)	1:85:A:MET:HE1	1:86:A:LYS:HE2	7	0.82	0.5	0.94
(1,1115)	1:162:A:ALA:HB1	1:163:A:LYS:HE2	7	0.78	0.1	0.76
(1,1115)	1:162:A:ALA:HB3	1:163:A:LYS:HE3	7	0.78	0.1	0.76
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE2	7	0.78	0.1	0.76
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE3	7	0.78	0.1	0.76
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD12	7	0.75	0.57	0.49
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD11	7	0.75	0.57	0.49
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD13	7	0.75	0.57	0.49
(1,874)	1:148:A:ILE:HG21	1:84:A:SER:HB2	7	0.75	0.19	0.74
(1,874)	1:148:A:ILE:HG22	1:84:A:SER:HB2	7	0.75	0.19	0.74
(1,874)	1:148:A:ILE:HG23	1:84:A:SER:HB2	7	0.75	0.19	0.74
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD11	7	0.73	0.33	0.83
(2,220)	1:50:A:GLN:HB2	1:146:A:VAL:HG11	7	0.73	0.33	0.83
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD13	7	0.73	0.33	0.83
(2,220)	1:50:A:GLN:HB2	1:146:A:VAL:HG13	7	0.73	0.33	0.83
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD12	7	0.73	0.33	0.83
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	7	0.67	0.28	0.74
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB3	7	0.67	0.28	0.74
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	7	0.66	0.33	0.61
(1,591)	1:9:A:VAL:HG21	1:10:A:GLU:HG3	7	0.66	0.33	0.61
(1,1076)	1:157:A:LEU:HD21	1:27:A:PHE:HB3	7	0.64	0.39	0.63
(1,1076)	1:157:A:LEU:HD23	1:27:A:PHE:HB3	7	0.64	0.39	0.63
(1,1076)	1:157:A:LEU:HD22	1:27:A:PHE:HB3	7	0.64	0.39	0.63
(2,138)	1:48:A:LEU:HD22	1:153:A:MET:HG2	7	0.61	0.11	0.63
(2,138)	1:48:A:LEU:HD22	1:47:A:MET:HB2	7	0.61	0.11	0.63
(2,138)	1:48:A:LEU:HD23	1:47:A:MET:HB2	7	0.61	0.11	0.63
(2,138)	1:48:A:LEU:HD23	1:153:A:MET:HG3	7	0.61	0.11	0.63
(2,138)	1:48:A:LEU:HD23	1:153:A:MET:HG2	7	0.61	0.11	0.63
(2,186)	1:36:A:ILE:HG22	1:72:A:VAL:HB	7	0.6	0.18	0.67
(2,186)	1:36:A:ILE:HG21	1:72:A:VAL:HB	7	0.6	0.18	0.67
(2,186)	1:36:A:ILE:HG23	1:72:A:VAL:HB	7	0.6	0.18	0.67
(2,124)	1:146:A:VAL:HG13	1:145:A:ARG:HB3	7	0.58	0.2	0.61
(2,124)	1:45:A:MET:HE2	1:146:A:VAL:HG12	7	0.58	0.2	0.61
(2,124)	1:45:A:MET:HE1	1:146:A:VAL:HG13	7	0.58	0.2	0.61
(2,124)	1:146:A:VAL:HG12	1:145:A:ARG:HB2	7	0.58	0.2	0.61
(2,124)	1:45:A:MET:HE3	1:146:A:VAL:HG12	7	0.58	0.2	0.61
(2,124)	1:45:A:MET:HE3	1:146:A:VAL:HG11	7	0.58	0.2	0.61
(1,489)	1:45:A:MET:HE1	1:146:A:VAL:HG12	7	0.58	0.22	0.59
(1,489)	1:45:A:MET:HE2	1:146:A:VAL:HG12	7	0.58	0.22	0.59
(1,489)	1:45:A:MET:HE1	1:146:A:VAL:HG13	7	0.58	0.22	0.59
(1,489)	1:45:A:MET:HE3	1:146:A:VAL:HG11	7	0.58	0.22	0.59

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,489)	1:45:A:MET:HE3	1:146:A:VAL:HG12	7	0.58	0.22	0.59
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	7	0.57	0.08	0.58
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE3	7	0.57	0.08	0.58
(2,112)	1:156:A:ALA:HB1	1:47:A:MET:HG2	7	0.56	0.15	0.55
(2,112)	1:150:A:ALA:HB1	1:85:A:MET:HG2	7	0.56	0.15	0.55
(2,112)	1:156:A:ALA:HB2	1:47:A:MET:HG2	7	0.56	0.15	0.55
(2,112)	1:150:A:ALA:HB3	1:85:A:MET:HG2	7	0.56	0.15	0.55
(2,112)	1:150:A:ALA:HB3	1:151:A:ASP:HB2	7	0.56	0.15	0.55
(2,112)	1:150:A:ALA:HB2	1:151:A:ASP:HB2	7	0.56	0.15	0.55
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG23	7	0.54	0.34	0.48
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG22	7	0.54	0.34	0.48
(1,522)	1:31:A:ALA:HB2	1:36:A:ILE:HG21	7	0.54	0.34	0.48
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG21	7	0.54	0.34	0.48
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG13	7	0.54	0.18	0.62
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG12	7	0.54	0.18	0.62
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG11	7	0.54	0.18	0.62
(2,309)	1:39:A:LYS:H	1:38:A:THR:HB	7	0.54	0.19	0.54
(2,309)	1:39:A:LYS:H	1:37:A:SER:HB2	7	0.54	0.19	0.54
(1,547)	1:9:A:VAL:HG11	1:9:A:VAL:HA	7	0.51	0.16	0.59
(1,547)	1:9:A:VAL:HG12	1:9:A:VAL:HA	7	0.51	0.16	0.59
(1,547)	1:9:A:VAL:HG13	1:9:A:VAL:HA	7	0.51	0.16	0.59
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	7	0.51	0.16	0.48
(2,11)	1:4:A:ILE:HA	1:2:A:ASP:HB3	7	0.51	0.16	0.48
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	7	0.48	0.24	0.47
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	7	0.48	0.18	0.52
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG2	7	0.48	0.18	0.52
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD21	7	0.45	0.35	0.31
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD22	7	0.45	0.35	0.31
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD23	7	0.45	0.35	0.31
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD11	7	0.43	0.16	0.45
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD13	7	0.43	0.16	0.45
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD12	7	0.43	0.16	0.45
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG23	7	0.42	0.13	0.43
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG21	7	0.42	0.13	0.43
(2,83)	1:47:A:MET:HE1	1:26:A:ILE:HG21	7	0.42	0.13	0.43
(2,83)	1:47:A:MET:HE3	1:26:A:ILE:HG23	7	0.42	0.13	0.43
(1,1595)	1:154:A:MET:HE3	1:20:A:PHE:HB3	7	0.41	0.12	0.45
(1,1595)	1:154:A:MET:HE2	1:20:A:PHE:HB3	7	0.41	0.12	0.45
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE2	7	0.41	0.17	0.37
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE3	7	0.41	0.17	0.37
(1,1083)	1:164:A:GLY:HA2	1:163:A:LYS:HE2	7	0.41	0.17	0.37
(2,151)	1:29:A:LEU:HD13	1:26:A:ILE:HB	7	0.4	0.17	0.36

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,151)	1:29:A:LEU:HD12	1:26:A:ILE:HB	7	0.4	0.17	0.36
(2,151)	1:29:A:LEU:HD11	1:26:A:ILE:HB	7	0.4	0.17	0.36
(1,871)	1:47:A:MET:HE3	1:47:A:MET:HG3	7	0.4	0.02	0.4
(1,871)	1:47:A:MET:HE2	1:47:A:MET:HG3	7	0.4	0.02	0.4
(1,871)	1:47:A:MET:HE1	1:47:A:MET:HG3	7	0.4	0.02	0.4
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	7	0.39	0.04	0.4
(2,228)	1:53:A:THR:HA	1:55:A:GLU:HG3	7	0.39	0.04	0.4
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	7	0.39	0.09	0.39
(1,663)	1:140:A:ARG:HG3	1:141:A:PRO:HD2	7	0.39	0.09	0.39
(1,827)	1:7:A:ALA:HB3	1:10:A:GLU:HB2	7	0.39	0.3	0.27
(1,827)	1:7:A:ALA:HB1	1:10:A:GLU:HB2	7	0.39	0.3	0.27
(1,827)	1:7:A:ALA:HB2	1:10:A:GLU:HB2	7	0.39	0.3	0.27
(1,1069)	1:151:A:ASP:HB2	1:152:A:ALA:HA	7	0.35	0.1	0.34
(1,1069)	1:151:A:ASP:HB3	1:152:A:ALA:HA	7	0.35	0.1	0.34
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG12	7	0.34	0.05	0.32
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG11	7	0.34	0.05	0.32
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG13	7	0.34	0.05	0.32
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	7	0.33	0.1	0.31
(2,91)	1:36:A:ILE:HG22	1:27:A:PHE:HB2	7	0.33	0.1	0.31
(2,91)	1:36:A:ILE:HG21	1:27:A:PHE:HB2	7	0.33	0.1	0.31
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	7	0.29	0.12	0.21
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	7	0.29	0.07	0.3
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG11	7	0.27	0.13	0.24
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG12	7	0.27	0.13	0.24
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG13	7	0.27	0.13	0.24
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG21	7	0.27	0.11	0.22
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG23	7	0.27	0.11	0.22
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG22	7	0.27	0.11	0.22
(2,95)	1:154:A:MET:HE3	1:19:A:GLU:HA	7	0.26	0.08	0.28
(2,95)	1:154:A:MET:HE2	1:19:A:GLU:HA	7	0.26	0.08	0.28
(2,126)	1:38:A:THR:HG23	1:57:A:LEU:HA	7	0.26	0.06	0.27
(2,126)	1:38:A:THR:HG22	1:57:A:LEU:HA	7	0.26	0.06	0.27
(2,126)	1:38:A:THR:HG21	1:57:A:LEU:HA	7	0.26	0.06	0.27
(1,700)	1:12:A:LEU:HD12	1:12:A:LEU:HA	7	0.25	0.04	0.25
(1,700)	1:12:A:LEU:HD11	1:12:A:LEU:HA	7	0.25	0.04	0.25
(1,700)	1:12:A:LEU:HD13	1:12:A:LEU:HA	7	0.25	0.04	0.25
(2,2)	1:38:A:THR:HB	1:41:A:LEU:HB3	7	0.24	0.08	0.23
(2,2)	1:38:A:THR:HB	1:57:A:LEU:HG	7	0.24	0.08	0.23
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	7	0.21	0.06	0.21
(1,485)	1:45:A:MET:HE2	1:57:A:LEU:HA	7	0.21	0.08	0.16
(1,485)	1:45:A:MET:HE3	1:57:A:LEU:HA	7	0.21	0.08	0.16
(1,485)	1:45:A:MET:HE1	1:57:A:LEU:HA	7	0.21	0.08	0.16

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB3	7	0.21	0.03	0.2
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB2	7	0.21	0.03	0.2
(2,200)	1:59:A:GLU:HA	1:59:A:GLU:HB2	7	0.21	0.03	0.2
(1,497)	1:156:A:ALA:HB1	1:156:A:ALA:HA	7	0.21	0.02	0.21
(1,497)	1:156:A:ALA:HB3	1:156:A:ALA:HA	7	0.21	0.02	0.21
(1,497)	1:156:A:ALA:HB2	1:156:A:ALA:HA	7	0.21	0.02	0.21
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	7	0.2	0.02	0.21
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	7	0.19	0.05	0.19
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	7	0.19	0.06	0.17
(1,361)	1:88:A:ASP:HB3	1:88:A:ASP:HA	7	0.17	0.03	0.17
(1,361)	1:88:A:ASP:HB2	1:88:A:ASP:HA	7	0.17	0.03	0.17
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	7	0.15	0.01	0.15
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	7	0.14	0.02	0.14
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD13	7	0.13	0.02	0.12
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD11	7	0.13	0.02	0.12
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD12	7	0.13	0.02	0.12
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	7	0.12	0.01	0.12
(1,646)	1:157:A:LEU:HD11	1:23:A:ALA:HB3	6	1.87	1.25	2.58
(1,646)	1:157:A:LEU:HD12	1:23:A:ALA:HB2	6	1.87	1.25	2.58
(1,646)	1:157:A:LEU:HD13	1:23:A:ALA:HB2	6	1.87	1.25	2.58
(1,646)	1:157:A:LEU:HD12	1:23:A:ALA:HB3	6	1.87	1.25	2.58
(1,1047)	1:78:A:LEU:HD13	1:75:A:ASP:HB3	6	1.77	0.38	1.66
(1,1047)	1:78:A:LEU:HD12	1:75:A:ASP:HB3	6	1.77	0.38	1.66
(1,1047)	1:78:A:LEU:HD11	1:75:A:ASP:HB3	6	1.77	0.38	1.66
(2,143)	1:143:A:LEU:HD22	1:59:A:GLU:HB3	6	1.76	2.75	0.5
(2,143)	1:143:A:LEU:HD23	1:60:A:MET:HG2	6	1.76	2.75	0.5
(2,143)	1:143:A:LEU:HD23	1:59:A:GLU:HB3	6	1.76	2.75	0.5
(2,143)	1:143:A:LEU:HD21	1:59:A:GLU:HB3	6	1.76	2.75	0.5
(1,697)	1:41:A:LEU:HD23	1:60:A:MET:HB3	6	1.49	1.37	1.03
(1,697)	1:41:A:LEU:HD21	1:60:A:MET:HB3	6	1.49	1.37	1.03
(1,697)	1:41:A:LEU:HD22	1:60:A:MET:HB3	6	1.49	1.37	1.03
(2,267)	1:62:A:ASP:HB3	1:143:A:LEU:HD12	6	1.44	0.88	1.48
(2,267)	1:60:A:MET:HG3	1:143:A:LEU:HD13	6	1.44	0.88	1.48
(2,267)	1:62:A:ASP:HB3	1:143:A:LEU:HD11	6	1.44	0.88	1.48
(2,267)	1:60:A:MET:HG3	1:143:A:LEU:HD12	6	1.44	0.88	1.48
(2,82)	1:1:A:MET:HE1	1:78:A:LEU:HB2	6	1.32	0.74	1.34
(2,82)	1:1:A:MET:HE2	1:78:A:LEU:HB2	6	1.32	0.74	1.34
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG13	6	1.21	1.09	0.81
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG11	6	1.21	1.09	0.81
(1,1150)	1:145:A:ARG:HD2	1:146:A:VAL:HG11	6	1.21	1.09	0.81
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG12	6	1.21	1.09	0.81
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	6	1.08	0.58	1.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	6	1.08	0.58	1.28
(2,134)	1:79:A:VAL:HG23	1:83:A:ARG:HD3	6	1.08	0.58	1.28
(2,110)	1:28:A:VAL:HG23	1:26:A:ILE:HG13	6	0.94	0.06	0.94
(2,110)	1:28:A:VAL:HG21	1:26:A:ILE:HG13	6	0.94	0.06	0.94
(2,110)	1:28:A:VAL:HG21	1:29:A:LEU:HB2	6	0.94	0.06	0.94
(2,110)	1:28:A:VAL:HG22	1:26:A:ILE:HG13	6	0.94	0.06	0.94
(1,625)	1:78:A:LEU:HD22	1:81:A:MET:HG2	6	0.91	0.42	0.74
(1,625)	1:78:A:LEU:HD21	1:81:A:MET:HG2	6	0.91	0.42	0.74
(1,625)	1:78:A:LEU:HD23	1:81:A:MET:HG2	6	0.91	0.42	0.74
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD1	6	0.85	0.23	0.8
(1,1064)	1:137:A:LYS:HB3	1:138:A:PHE:HD2	6	0.85	0.23	0.8
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD2	6	0.85	0.23	0.8
(1,1231)	1:20:A:PHE:HE2	1:78:A:LEU:HD23	6	0.84	0.12	0.88
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD22	6	0.84	0.12	0.88
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD21	6	0.84	0.12	0.88
(1,1231)	1:20:A:PHE:HE2	1:78:A:LEU:HD22	6	0.84	0.12	0.88
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD23	6	0.84	0.12	0.88
(2,111)	1:160:A:ALA:HB2	1:26:A:ILE:HD12	6	0.83	0.54	0.76
(2,111)	1:160:A:ALA:HB1	1:26:A:ILE:HD13	6	0.83	0.54	0.76
(2,111)	1:160:A:ALA:HB3	1:26:A:ILE:HD13	6	0.83	0.54	0.76
(2,111)	1:160:A:ALA:HB3	1:26:A:ILE:HD11	6	0.83	0.54	0.76
(2,111)	1:160:A:ALA:HB3	1:158:A:LEU:HD23	6	0.83	0.54	0.76
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE3	6	0.78	0.39	0.84
(1,1621)	2:201:A:9XG:HAC	1:60:A:MET:HE3	6	0.78	0.39	0.84
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE1	6	0.78	0.39	0.84
(1,1621)	2:201:A:9XG:HAA	1:60:A:MET:HE2	6	0.78	0.39	0.84
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE2	6	0.78	0.39	0.84
(1,1613)	2:201:A:9XG:HAG	1:64:A:VAL:HG23	6	0.68	0.33	0.6
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG22	6	0.68	0.33	0.6
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG23	6	0.68	0.33	0.6
(1,1613)	2:201:A:9XG:HAJ	1:64:A:VAL:HG23	6	0.68	0.33	0.6
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG21	6	0.68	0.33	0.6
(1,1613)	2:201:A:9XG:HAJ	1:64:A:VAL:HG22	6	0.68	0.33	0.6
(2,102)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	6	0.63	0.28	0.74
(2,102)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	6	0.63	0.28	0.74
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD11	6	0.6	0.23	0.63
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD13	6	0.6	0.23	0.63
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD12	6	0.6	0.23	0.63
(1,1079)	1:157:A:LEU:HD11	1:27:A:PHE:HB3	6	0.6	0.49	0.43
(1,1079)	1:157:A:LEU:HD12	1:27:A:PHE:HB3	6	0.6	0.49	0.43
(1,1079)	1:157:A:LEU:HD13	1:27:A:PHE:HB3	6	0.6	0.49	0.43
(1,600)	1:41:A:LEU:HD12	1:41:A:LEU:HB3	6	0.58	0.05	0.6

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,600)	1:41:A:LEU:HD13	1:41:A:LEU:HB3	6	0.58	0.05	0.6
(1,600)	1:41:A:LEU:HD11	1:41:A:LEU:HB3	6	0.58	0.05	0.6
(1,494)	1:81:A:MET:HE1	1:81:A:MET:HB3	6	0.57	0.18	0.57
(1,494)	1:81:A:MET:HE3	1:81:A:MET:HB3	6	0.57	0.18	0.57
(1,494)	1:81:A:MET:HE2	1:81:A:MET:HB3	6	0.57	0.18	0.57
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD2	6	0.57	0.63	0.24
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD3	6	0.57	0.63	0.24
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD11	6	0.56	0.03	0.58
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD13	6	0.56	0.03	0.58
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD12	6	0.56	0.03	0.58
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	6	0.51	0.12	0.46
(1,457)	1:1:A:MET:HE2	1:5:A:TYR:HB2	6	0.49	0.15	0.53
(1,457)	1:1:A:MET:HE1	1:5:A:TYR:HB2	6	0.49	0.15	0.53
(1,457)	1:1:A:MET:HE3	1:5:A:TYR:HB2	6	0.49	0.15	0.53
(2,277)	1:146:A:VAL:HG22	1:60:A:MET:HG3	6	0.47	0.21	0.48
(2,277)	1:64:A:VAL:HG21	1:65:A:ASP:HB3	6	0.47	0.21	0.48
(2,277)	1:64:A:VAL:HG22	1:65:A:ASP:HB3	6	0.47	0.21	0.48
(2,277)	1:64:A:VAL:HG23	1:65:A:ASP:HB3	6	0.47	0.21	0.48
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG21	6	0.45	0.16	0.48
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG23	6	0.45	0.16	0.48
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG22	6	0.45	0.16	0.48
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	6	0.44	0.21	0.4
(1,609)	1:57:A:LEU:HD22	1:45:A:MET:HG2	6	0.41	0.12	0.36
(1,609)	1:57:A:LEU:HD23	1:45:A:MET:HG2	6	0.41	0.12	0.36
(1,609)	1:57:A:LEU:HD21	1:45:A:MET:HG2	6	0.41	0.12	0.36
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE1	6	0.41	0.19	0.31
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE3	6	0.41	0.19	0.31
(2,48)	1:50:A:GLN:HA	1:46:A:ARG:HG3	6	0.41	0.19	0.31
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE1	6	0.4	0.23	0.32
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE2	6	0.4	0.23	0.32
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE3	6	0.4	0.23	0.32
(1,572)	1:82:A:VAL:HG23	1:5:A:TYR:HB3	6	0.4	0.09	0.44
(1,572)	1:82:A:VAL:HG22	1:5:A:TYR:HB3	6	0.4	0.09	0.44
(1,572)	1:82:A:VAL:HG21	1:5:A:TYR:HB3	6	0.4	0.09	0.44
(1,1141)	1:41:A:LEU:HD22	1:41:A:LEU:HA	6	0.38	0.15	0.45
(1,1141)	1:41:A:LEU:HD23	1:41:A:LEU:HA	6	0.38	0.15	0.45
(1,1141)	1:41:A:LEU:HD21	1:41:A:LEU:HA	6	0.38	0.15	0.45
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG22	6	0.38	0.11	0.38
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG23	6	0.38	0.11	0.38
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG21	6	0.38	0.11	0.38
(1,1024)	1:72:A:VAL:HG23	1:36:A:ILE:HD12	6	0.37	0.09	0.41
(1,1024)	1:72:A:VAL:HG23	1:36:A:ILE:HD13	6	0.37	0.09	0.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1024)	1:72:A:VAL:HG21	1:36:A:ILE:HD11	6	0.37	0.09	0.41
(1,1024)	1:72:A:VAL:HG22	1:36:A:ILE:HD13	6	0.37	0.09	0.41
(2,155)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	6	0.37	0.16	0.38
(2,155)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	6	0.37	0.16	0.38
(2,155)	1:78:A:LEU:HD13	1:17:A:LYS:HG3	6	0.37	0.16	0.38
(2,119)	1:72:A:VAL:HG13	1:76:A:GLU:HG3	6	0.36	0.11	0.4
(2,119)	1:72:A:VAL:HG12	1:76:A:GLU:HG3	6	0.36	0.11	0.4
(2,119)	1:72:A:VAL:HG11	1:76:A:GLU:HG3	6	0.36	0.11	0.4
(1,966)	1:39:A:LYS:HE2	1:39:A:LYS:HB2	6	0.35	0.04	0.36
(1,966)	1:39:A:LYS:HE3	1:39:A:LYS:HB2	6	0.35	0.04	0.36
(2,269)	1:22:A:ALA:HB3	1:25:A:ASP:HB3	6	0.34	0.16	0.27
(2,269)	1:22:A:ALA:HB1	1:25:A:ASP:HB3	6	0.34	0.16	0.27
(2,269)	1:22:A:ALA:HB2	1:25:A:ASP:HB3	6	0.34	0.16	0.27
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG13	6	0.33	0.09	0.34
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG11	6	0.33	0.09	0.34
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG12	6	0.33	0.09	0.34
(2,17)	1:15:A:GLU:HA	1:15:A:GLU:HG2	6	0.32	0.19	0.26
(2,17)	1:55:A:GLU:HA	1:55:A:GLU:HG2	6	0.32	0.19	0.26
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	6	0.31	0.07	0.32
(2,27)	1:153:A:MET:HA	1:156:A:ALA:HB2	6	0.31	0.07	0.32
(2,259)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	6	0.31	0.17	0.22
(2,259)	1:61:A:ILE:HD13	1:58:A:GLN:HG3	6	0.31	0.17	0.22
(2,259)	1:61:A:ILE:HD13	1:40:A:GLU:HB3	6	0.31	0.17	0.22
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HB3	6	0.29	0.17	0.23
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HG	6	0.29	0.17	0.23
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD2	6	0.29	0.13	0.3
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD1	6	0.29	0.13	0.3
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	6	0.25	0.19	0.19
(1,954)	1:28:A:VAL:HG21	1:40:A:GLU:HG2	6	0.24	0.12	0.2
(1,954)	1:28:A:VAL:HG22	1:40:A:GLU:HG2	6	0.24	0.12	0.2
(1,954)	1:28:A:VAL:HG23	1:40:A:GLU:HG2	6	0.24	0.12	0.2
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	6	0.24	0.08	0.21
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	6	0.24	0.08	0.21
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	6	0.23	0.06	0.23
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	6	0.22	0.19	0.14
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	6	0.21	0.07	0.2
(1,1180)	1:163:A:LYS:HG3	1:163:A:LYS:HA	6	0.18	0.04	0.18
(1,1180)	1:163:A:LYS:HG2	1:163:A:LYS:HA	6	0.18	0.04	0.18
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HG	6	0.17	0.02	0.18
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	6	0.17	0.02	0.18
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	6	0.17	0.05	0.17
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	6	0.16	0.04	0.16

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,18)	1:55:A:GLU:HA	1:55:A:GLU:HB3	6	0.16	0.03	0.16
(2,18)	1:15:A:GLU:HA	1:15:A:GLU:HB3	6	0.16	0.03	0.16
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	6	0.14	0.02	0.15
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB3	6	0.14	0.02	0.14
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB2	6	0.14	0.02	0.14
(1,592)	1:9:A:VAL:HG23	1:9:A:VAL:HB	6	0.14	0.01	0.14
(1,592)	1:9:A:VAL:HG21	1:9:A:VAL:HB	6	0.14	0.01	0.14
(1,592)	1:9:A:VAL:HG22	1:9:A:VAL:HB	6	0.14	0.01	0.14
(2,85)	1:85:A:MET:HE1	1:150:A:ALA:HA	5	1.59	1.48	0.71
(2,85)	1:85:A:MET:HE3	1:84:A:SER:HB3	5	1.59	1.48	0.71
(2,85)	1:85:A:MET:HE3	1:84:A:SER:HB2	5	1.59	1.48	0.71
(2,85)	1:85:A:MET:HE1	1:84:A:SER:HB2	5	1.59	1.48	0.71
(2,85)	1:85:A:MET:HE2	1:84:A:SER:HB3	5	1.59	1.48	0.71
(1,645)	1:157:A:LEU:HD12	1:153:A:MET:HG2	5	1.57	0.52	1.48
(1,645)	1:157:A:LEU:HD13	1:153:A:MET:HG2	5	1.57	0.52	1.48
(1,645)	1:157:A:LEU:HD11	1:153:A:MET:HG2	5	1.57	0.52	1.48
(2,131)	1:82:A:VAL:HG22	1:86:A:LYS:HD3	5	1.14	0.39	0.97
(2,131)	1:82:A:VAL:HG22	1:83:A:ARG:HB2	5	1.14	0.39	0.97
(2,131)	1:82:A:VAL:HG23	1:86:A:LYS:HD2	5	1.14	0.39	0.97
(2,131)	1:82:A:VAL:HG22	1:86:A:LYS:HD2	5	1.14	0.39	0.97
(2,131)	1:82:A:VAL:HG21	1:86:A:LYS:HD2	5	1.14	0.39	0.97
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	5	1.08	0.5	1.36
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	5	1.08	0.5	1.36
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG23	5	1.08	0.5	1.36
(1,539)	1:142:A:THR:HG22	1:140:A:ARG:HD3	5	0.72	0.17	0.79
(1,539)	1:142:A:THR:HG23	1:140:A:ARG:HD3	5	0.72	0.17	0.79
(1,539)	1:142:A:THR:HG21	1:140:A:ARG:HD3	5	0.72	0.17	0.79
(2,140)	1:41:A:LEU:HD13	1:153:A:MET:HE2	5	0.7	0.35	0.59
(2,140)	1:41:A:LEU:HD12	1:153:A:MET:HE3	5	0.7	0.35	0.59
(2,140)	1:41:A:LEU:HD12	1:153:A:MET:HE1	5	0.7	0.35	0.59
(2,140)	1:41:A:LEU:HD11	1:153:A:MET:HE3	5	0.7	0.35	0.59
(2,166)	1:57:A:LEU:HB2	1:41:A:LEU:HD21	5	0.69	0.6	0.4
(2,166)	1:57:A:LEU:HB2	1:41:A:LEU:HD23	5	0.69	0.6	0.4
(2,166)	1:41:A:LEU:HD22	1:61:A:ILE:HB	5	0.69	0.6	0.4
(2,166)	1:41:A:LEU:HD21	1:61:A:ILE:HB	5	0.69	0.6	0.4
(1,1604)	2:201:A:9XG:HAE	1:61:A:ILE:HD12	5	0.67	0.23	0.7
(1,1604)	2:201:A:9XG:HAF	1:61:A:ILE:HD13	5	0.67	0.23	0.7
(1,1604)	2:201:A:9XG:HAF	1:61:A:ILE:HD12	5	0.67	0.23	0.7
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG22	5	0.64	0.12	0.59
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG21	5	0.64	0.12	0.59
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG23	5	0.64	0.12	0.59
(2,81)	1:1:A:MET:HE3	1:6:A:LYS:HG2	5	0.61	0.07	0.62

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,81)	1:1:A:MET:HE2	1:6:A:LYS:HG2	5	0.61	0.07	0.62
(1,1130)	1:158:A:LEU:HD11	1:155:A:GLN:HA	5	0.6	0.57	0.41
(1,1130)	1:158:A:LEU:HD12	1:155:A:GLN:HA	5	0.6	0.57	0.41
(1,1130)	1:158:A:LEU:HD13	1:155:A:GLN:HA	5	0.6	0.57	0.41
(1,1195)	1:4:A:ILE:HD12	1:5:A:TYR:HD2	5	0.58	0.12	0.55
(1,1195)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	5	0.58	0.12	0.55
(1,1195)	1:4:A:ILE:HD13	1:5:A:TYR:HD2	5	0.58	0.12	0.55
(1,1140)	1:41:A:LEU:HD21	1:45:A:MET:HG3	5	0.58	0.41	0.4
(1,1140)	1:41:A:LEU:HD22	1:45:A:MET:HG3	5	0.58	0.41	0.4
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	5	0.54	0.41	0.49
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE1	5	0.51	0.12	0.49
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE3	5	0.51	0.12	0.49
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE2	5	0.51	0.12	0.49
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	5	0.47	0.04	0.47
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG23	5	0.46	0.18	0.42
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG22	5	0.46	0.18	0.42
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD3	5	0.44	0.27	0.3
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD2	5	0.44	0.27	0.3
(1,1126)	1:146:A:VAL:HG22	1:145:A:ARG:HD3	5	0.44	0.27	0.3
(1,1067)	1:145:A:ARG:HD3	1:145:A:ARG:HA	5	0.41	0.26	0.3
(1,1067)	1:145:A:ARG:HD2	1:145:A:ARG:HA	5	0.41	0.26	0.3
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD11	5	0.41	0.09	0.4
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD13	5	0.41	0.09	0.4
(2,180)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	5	0.38	0.26	0.22
(2,180)	1:155:A:GLN:HG3	1:158:A:LEU:HB2	5	0.38	0.26	0.22
(2,180)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	5	0.38	0.26	0.22
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD2	5	0.36	0.19	0.37
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD3	5	0.36	0.19	0.37
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB2	5	0.36	0.08	0.32
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB3	5	0.36	0.08	0.32
(1,621)	1:78:A:LEU:HD22	1:20:A:PHE:HB2	5	0.35	0.08	0.37
(1,621)	1:78:A:LEU:HD21	1:20:A:PHE:HB2	5	0.35	0.08	0.37
(1,621)	1:78:A:LEU:HD23	1:20:A:PHE:HB2	5	0.35	0.08	0.37
(2,99)	1:81:A:MET:HE2	1:20:A:PHE:HD1	5	0.35	0.12	0.3
(2,99)	1:81:A:MET:HE2	1:20:A:PHE:HD2	5	0.35	0.12	0.3
(2,99)	1:81:A:MET:HE3	1:77:A:PHE:HZ	5	0.35	0.12	0.3
(2,99)	1:81:A:MET:HE3	1:20:A:PHE:HD2	5	0.35	0.12	0.3
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	5	0.35	0.26	0.28
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD21	5	0.34	0.07	0.35
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD23	5	0.34	0.07	0.35
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	5	0.33	0.25	0.22
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE2	5	0.32	0.12	0.3

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE3	5	0.32	0.12	0.3
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE1	5	0.32	0.12	0.3
(1,1202)	1:4:A:ILE:HD11	1:5:A:TYR:HE2	5	0.31	0.12	0.3
(1,1202)	1:4:A:ILE:HD13	1:5:A:TYR:HE1	5	0.31	0.12	0.3
(1,1202)	1:4:A:ILE:HD11	1:5:A:TYR:HE1	5	0.31	0.12	0.3
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	5	0.31	0.16	0.42
(2,195)	1:11:A:GLN:HB2	1:8:A:ALA:HA	5	0.31	0.15	0.2
(2,195)	1:19:A:GLU:HA	1:19:A:GLU:HB3	5	0.31	0.15	0.2
(1,639)	1:78:A:LEU:HD12	1:74:A:PHE:HZ	5	0.3	0.14	0.23
(1,639)	1:78:A:LEU:HD11	1:74:A:PHE:HZ	5	0.3	0.14	0.23
(1,639)	1:78:A:LEU:HD13	1:74:A:PHE:HZ	5	0.3	0.14	0.23
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE1	5	0.29	0.18	0.16
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE3	5	0.29	0.18	0.16
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	5	0.28	0.1	0.23
(1,453)	1:85:A:MET:HE3	1:85:A:MET:HG3	5	0.28	0.02	0.28
(1,453)	1:85:A:MET:HE1	1:85:A:MET:HG3	5	0.28	0.02	0.28
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE1	5	0.28	0.05	0.27
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE2	5	0.28	0.05	0.27
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD22	5	0.27	0.07	0.24
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD21	5	0.27	0.07	0.24
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD23	5	0.27	0.07	0.24
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	5	0.27	0.12	0.2
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB3	5	0.27	0.11	0.3
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB2	5	0.27	0.11	0.3
(1,1248)	1:74:A:PHE:HE1	1:21:A:LYS:HB3	5	0.25	0.1	0.27
(1,1248)	1:74:A:PHE:HE2	1:21:A:LYS:HB3	5	0.25	0.1	0.27
(1,1114)	1:152:A:ALA:HB3	1:149:A:SER:HA	5	0.24	0.05	0.21
(1,1114)	1:152:A:ALA:HB2	1:149:A:SER:HA	5	0.24	0.05	0.21
(1,1114)	1:152:A:ALA:HB1	1:149:A:SER:HA	5	0.24	0.05	0.21
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG12	5	0.22	0.02	0.22
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG13	5	0.22	0.02	0.22
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG11	5	0.22	0.02	0.22
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	5	0.21	0.12	0.17
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	5	0.2	0.03	0.21
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	5	0.19	0.03	0.19
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG21	5	0.19	0.03	0.19
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE3	5	0.19	0.03	0.18
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE2	5	0.19	0.03	0.18
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	5	0.18	0.07	0.15
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	5	0.16	0.06	0.12
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD2	5	0.16	0.04	0.17
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD1	5	0.16	0.04	0.17

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	5	0.15	0.03	0.14
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	5	0.15	0.02	0.13
(1,593)	1:12:A:LEU:HD23	1:12:A:LEU:HG	5	0.14	0.02	0.13
(1,593)	1:12:A:LEU:HD21	1:12:A:LEU:HG	5	0.14	0.02	0.13
(1,593)	1:12:A:LEU:HD22	1:12:A:LEU:HG	5	0.14	0.02	0.13
(1,924)	1:15:A:GLU:HG3	1:15:A:GLU:HB2	5	0.13	0.01	0.13
(1,924)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	5	0.13	0.01	0.13
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	5	0.13	0.02	0.12
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	5	0.13	0.01	0.13
(1,619)	1:143:A:LEU:HD13	1:59:A:GLU:HB3	4	2.85	1.76	3.12
(1,619)	1:143:A:LEU:HD12	1:59:A:GLU:HB3	4	2.85	1.76	3.12
(1,619)	1:143:A:LEU:HD11	1:59:A:GLU:HB3	4	2.85	1.76	3.12
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD13	4	2.29	0.09	2.33
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD12	4	2.29	0.09	2.33
(1,1120)	1:81:A:MET:HE3	1:77:A:PHE:HD2	4	1.53	0.91	1.49
(1,1120)	1:81:A:MET:HE2	1:77:A:PHE:HD2	4	1.53	0.91	1.49
(1,1120)	1:81:A:MET:HE2	1:77:A:PHE:HD1	4	1.53	0.91	1.49
(1,1106)	1:60:A:MET:HE2	1:147:A:ARG:HA	4	1.24	1.47	0.54
(1,1106)	1:60:A:MET:HE3	1:147:A:ARG:HA	4	1.24	1.47	0.54
(1,1106)	1:60:A:MET:HE1	1:147:A:ARG:HA	4	1.24	1.47	0.54
(1,617)	1:29:A:LEU:HD11	1:157:A:LEU:HB3	4	0.93	0.66	0.76
(1,617)	1:29:A:LEU:HD13	1:157:A:LEU:HB3	4	0.93	0.66	0.76
(1,617)	1:29:A:LEU:HD12	1:157:A:LEU:HB3	4	0.93	0.66	0.76
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB2	4	0.88	0.95	0.42
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB3	4	0.88	0.95	0.42
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HB3	4	0.82	0.44	0.76
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HG	4	0.82	0.44	0.76
(2,284)	1:64:A:VAL:HG13	1:1:A:MET:HE1	4	0.79	0.64	0.6
(2,284)	1:64:A:VAL:HG13	1:1:A:MET:HE3	4	0.79	0.64	0.6
(2,284)	1:64:A:VAL:HG12	1:76:A:GLU:HB3	4	0.79	0.64	0.6
(2,284)	1:64:A:VAL:HG12	1:1:A:MET:HE2	4	0.79	0.64	0.6
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG22	4	0.77	0.16	0.73
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG23	4	0.77	0.16	0.73
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG21	4	0.77	0.16	0.73
(2,142)	1:47:A:MET:HE2	1:157:A:LEU:HD23	4	0.76	0.1	0.74
(2,142)	1:157:A:LEU:HD22	1:26:A:ILE:HB	4	0.76	0.1	0.74
(2,142)	1:157:A:LEU:HD21	1:26:A:ILE:HB	4	0.76	0.1	0.74
(1,647)	1:157:A:LEU:HD11	1:157:A:LEU:HB2	4	0.75	0.03	0.75
(1,647)	1:157:A:LEU:HD12	1:157:A:LEU:HB2	4	0.75	0.03	0.75
(1,449)	1:47:A:MET:HE2	1:157:A:LEU:HD23	4	0.67	0.3	0.72
(1,449)	1:47:A:MET:HE1	1:157:A:LEU:HD23	4	0.67	0.3	0.72
(1,449)	1:47:A:MET:HE3	1:157:A:LEU:HD22	4	0.67	0.3	0.72

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,515)	1:23:A:ALA:HB2	1:157:A:LEU:HD23	4	0.62	0.25	0.63
(1,515)	1:23:A:ALA:HB3	1:157:A:LEU:HD21	4	0.62	0.25	0.63
(1,515)	1:23:A:ALA:HB2	1:157:A:LEU:HD22	4	0.62	0.25	0.63
(1,515)	1:23:A:ALA:HB1	1:157:A:LEU:HD22	4	0.62	0.25	0.63
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG13	4	0.53	0.4	0.4
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG11	4	0.53	0.4	0.4
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG12	4	0.53	0.4	0.4
(2,302)	1:17:A:LYS:HG2	1:74:A:PHE:HE2	4	0.52	0.2	0.5
(2,302)	1:21:A:LYS:HD3	1:74:A:PHE:HE1	4	0.52	0.2	0.5
(1,569)	1:82:A:VAL:HG23	1:5:A:TYR:HA	4	0.5	0.13	0.45
(1,569)	1:82:A:VAL:HG22	1:5:A:TYR:HA	4	0.5	0.13	0.45
(1,475)	1:153:A:MET:HE2	1:154:A:MET:HG2	4	0.5	0.13	0.48
(1,475)	1:153:A:MET:HE2	1:154:A:MET:HG3	4	0.5	0.13	0.48
(1,475)	1:153:A:MET:HE3	1:154:A:MET:HG2	4	0.5	0.13	0.48
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE2	4	0.46	0.07	0.48
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE3	4	0.46	0.07	0.48
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG3	4	0.46	0.2	0.56
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG2	4	0.46	0.2	0.56
(1,486)	1:45:A:MET:HE1	1:60:A:MET:HG3	4	0.46	0.21	0.46
(1,486)	1:45:A:MET:HE2	1:60:A:MET:HG3	4	0.46	0.21	0.46
(1,918)	1:78:A:LEU:HD22	1:77:A:PHE:HD2	4	0.45	0.08	0.43
(1,918)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	4	0.45	0.08	0.43
(1,918)	1:78:A:LEU:HD23	1:77:A:PHE:HD2	4	0.45	0.08	0.43
(1,918)	1:78:A:LEU:HD21	1:77:A:PHE:HD2	4	0.45	0.08	0.43
(1,688)	1:145:A:ARG:HG2	1:145:A:ARG:HA	4	0.45	0.41	0.22
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG13	4	0.38	0.12	0.36
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG11	4	0.38	0.12	0.36
(1,934)	1:157:A:LEU:HD12	1:27:A:PHE:HD1	4	0.38	0.07	0.38
(1,934)	1:157:A:LEU:HD11	1:27:A:PHE:HD2	4	0.38	0.07	0.38
(1,934)	1:157:A:LEU:HD11	1:27:A:PHE:HD1	4	0.38	0.07	0.38
(1,934)	1:157:A:LEU:HD12	1:27:A:PHE:HD2	4	0.38	0.07	0.38
(1,1090)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	4	0.36	0.14	0.33
(1,1090)	1:78:A:LEU:HD11	1:74:A:PHE:HD1	4	0.36	0.14	0.33
(1,1090)	1:78:A:LEU:HD13	1:74:A:PHE:HD2	4	0.36	0.14	0.33
(1,1090)	1:78:A:LEU:HD11	1:74:A:PHE:HD2	4	0.36	0.14	0.33
(1,124)	1:39:A:LYS:HA	1:39:A:LYS:HG3	4	0.33	0.13	0.4
(2,77)	1:27:A:PHE:HA	1:26:A:ILE:HD12	4	0.32	0.1	0.32
(2,77)	1:26:A:ILE:HD13	1:159:A:GLY:HA2	4	0.32	0.1	0.32
(2,77)	1:27:A:PHE:HA	1:26:A:ILE:HD13	4	0.32	0.1	0.32
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE2	4	0.32	0.14	0.26
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE3	4	0.32	0.14	0.26
(2,294)	1:5:A:TYR:HE2	1:86:A:LYS:HD2	4	0.3	0.13	0.27

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,294)	1:5:A:TYR:HE1	1:86:A:LYS:HD2	4	0.3	0.13	0.27
(1,1066)	1:147:A:ARG:HD3	1:147:A:ARG:HA	4	0.3	0.09	0.28
(1,775)	1:11:A:GLN:HG3	1:11:A:GLN:HA	4	0.29	0.15	0.22
(2,196)	1:17:A:LYS:HD2	1:9:A:VAL:HG21	4	0.28	0.11	0.3
(2,196)	1:17:A:LYS:HD2	1:9:A:VAL:HG22	4	0.28	0.11	0.3
(2,196)	1:17:A:LYS:HD2	1:12:A:LEU:HD13	4	0.28	0.11	0.3
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG22	4	0.26	0.05	0.26
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG23	4	0.26	0.05	0.26
(1,752)	1:55:A:GLU:HB3	1:55:A:GLU:HG3	4	0.24	0.01	0.24
(1,180)	1:21:A:LYS:HA	1:21:A:LYS:HG3	4	0.24	0.05	0.26
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD3	4	0.2	0.07	0.2
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD2	4	0.2	0.07	0.2
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB1	4	0.2	0.05	0.18
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB3	4	0.2	0.05	0.18
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG23	4	0.18	0.09	0.14
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG21	4	0.18	0.09	0.14
(2,255)	1:159:A:GLY:HA3	1:162:A:ALA:HB1	4	0.18	0.09	0.13
(2,255)	1:159:A:GLY:HA3	1:160:A:ALA:HB1	4	0.18	0.09	0.13
(2,221)	1:10:A:GLU:HA	1:10:A:GLU:HG2	4	0.17	0.06	0.16
(2,221)	1:32:A:GLU:HA	1:32:A:GLU:HG3	4	0.17	0.06	0.16
(2,221)	1:32:A:GLU:HA	1:32:A:GLU:HG2	4	0.17	0.06	0.16
(1,777)	1:11:A:GLN:HG3	1:11:A:GLN:HB2	4	0.17	0.03	0.16
(1,859)	1:79:A:VAL:HA	1:79:A:VAL:HB	4	0.16	0.02	0.16
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD1	4	0.16	0.02	0.17
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD2	4	0.16	0.02	0.17
(1,250)	1:81:A:MET:HA	1:81:A:MET:HB3	4	0.16	0.02	0.16
(1,708)	1:46:A:ARG:HA	1:46:A:ARG:HG2	4	0.16	0.03	0.15
(1,825)	1:43:A:LYS:HD2	1:43:A:LYS:HG3	4	0.13	0.02	0.12
(1,767)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	4	0.11	0.0	0.11
(1,892)	1:90:A:LYS:HB3	1:90:A:LYS:HA	4	0.11	0.0	0.11
(1,584)	1:143:A:LEU:HD21	1:59:A:GLU:HB2	3	2.86	2.78	1.46
(1,584)	1:143:A:LEU:HD23	1:59:A:GLU:HB2	3	2.86	2.78	1.46
(1,620)	1:143:A:LEU:HD13	1:59:A:GLU:HB2	3	2.73	0.37	2.56
(1,620)	1:143:A:LEU:HD12	1:59:A:GLU:HB2	3	2.73	0.37	2.56
(1,620)	1:143:A:LEU:HD11	1:59:A:GLU:HB2	3	2.73	0.37	2.56
(1,442)	1:85:A:MET:HE2	1:150:A:ALA:HB1	3	2.14	1.14	2.41
(1,442)	1:85:A:MET:HE3	1:150:A:ALA:HB2	3	2.14	1.14	2.41
(1,442)	1:85:A:MET:HE1	1:150:A:ALA:HB1	3	2.14	1.14	2.41
(1,798)	1:45:A:MET:HG2	1:148:A:ILE:HG13	3	1.93	0.83	2.06
(1,696)	1:41:A:LEU:HD23	1:60:A:MET:HB2	3	1.61	0.59	1.78
(1,696)	1:41:A:LEU:HD21	1:60:A:MET:HB2	3	1.61	0.59	1.78
(2,175)	1:64:A:VAL:HG22	1:63:A:GLU:HG2	3	1.57	0.95	1.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,175)	1:64:A:VAL:HG21	1:63:A:GLU:HG2	3	1.57	0.95	1.15
(1,574)	1:82:A:VAL:HG23	1:86:A:LYS:HB3	3	1.3	1.1	1.01
(1,574)	1:82:A:VAL:HG22	1:86:A:LYS:HB3	3	1.3	1.1	1.01
(2,69)	1:17:A:LYS:HE2	1:9:A:VAL:HG22	3	1.28	0.76	1.71
(2,69)	1:43:A:LYS:HE2	1:29:A:LEU:HD11	3	1.28	0.76	1.71
(2,205)	1:57:A:LEU:HA	1:57:A:LEU:HD13	3	1.17	0.63	1.6
(2,205)	1:57:A:LEU:HA	1:41:A:LEU:HD21	3	1.17	0.63	1.6
(1,430)	1:148:A:ILE:HD12	1:153:A:MET:HE2	3	1.12	0.32	1.25
(1,430)	1:148:A:ILE:HD12	1:153:A:MET:HE3	3	1.12	0.32	1.25
(1,826)	1:11:A:GLN:HB2	1:7:A:ALA:HB1	3	0.97	0.55	0.62
(1,826)	1:11:A:GLN:HB2	1:7:A:ALA:HB3	3	0.97	0.55	0.62
(1,1219)	1:138:A:PHE:HD2	1:139:A:LYS:HD3	3	0.95	0.08	0.96
(1,1219)	1:138:A:PHE:HD1	1:139:A:LYS:HD3	3	0.95	0.08	0.96
(1,1219)	1:138:A:PHE:HD2	1:139:A:LYS:HD2	3	0.95	0.08	0.96
(2,206)	1:6:A:LYS:HB3	1:6:A:LYS:HE2	3	0.91	0.04	0.9
(2,206)	1:6:A:LYS:HB2	1:6:A:LYS:HE2	3	0.91	0.04	0.9
(2,206)	1:6:A:LYS:HB2	1:6:A:LYS:HE3	3	0.91	0.04	0.9
(2,210)	1:44:A:VAL:HB	1:48:A:LEU:HD23	3	0.89	0.47	0.84
(2,210)	1:148:A:ILE:HD11	1:44:A:VAL:HB	3	0.89	0.47	0.84
(2,210)	1:44:A:VAL:HB	1:48:A:LEU:HD22	3	0.89	0.47	0.84
(1,481)	1:154:A:MET:HE3	1:151:A:ASP:HB3	3	0.83	0.6	0.76
(1,481)	1:154:A:MET:HE3	1:151:A:ASP:HB2	3	0.83	0.6	0.76
(1,481)	1:154:A:MET:HE2	1:151:A:ASP:HB2	3	0.83	0.6	0.76
(1,920)	1:41:A:LEU:HD11	1:77:A:PHE:HD1	3	0.79	0.08	0.84
(1,920)	1:41:A:LEU:HD12	1:77:A:PHE:HD2	3	0.79	0.08	0.84
(1,1073)	1:148:A:ILE:HD12	1:27:A:PHE:HE2	3	0.78	0.44	0.93
(1,1073)	1:148:A:ILE:HD12	1:27:A:PHE:HE1	3	0.78	0.44	0.93
(1,1103)	1:143:A:LEU:HD11	1:143:A:LEU:HA	3	0.74	0.2	0.87
(1,1103)	1:143:A:LEU:HD13	1:143:A:LEU:HA	3	0.74	0.2	0.87
(1,125)	1:60:A:MET:HA	1:143:A:LEU:HB2	3	0.72	0.63	0.31
(1,555)	1:146:A:VAL:HG13	1:52:A:PRO:HB3	3	0.71	0.51	0.43
(1,555)	1:146:A:VAL:HG11	1:52:A:PRO:HB3	3	0.71	0.51	0.43
(1,555)	1:146:A:VAL:HG12	1:52:A:PRO:HB3	3	0.71	0.51	0.43
(1,753)	1:55:A:GLU:HA	1:55:A:GLU:HG2	3	0.7	0.06	0.72
(1,505)	1:156:A:ALA:HB2	1:157:A:LEU:HD21	3	0.68	0.15	0.72
(1,505)	1:156:A:ALA:HB3	1:157:A:LEU:HD22	3	0.68	0.15	0.72
(1,505)	1:156:A:ALA:HB1	1:157:A:LEU:HD23	3	0.68	0.15	0.72
(1,1081)	1:154:A:MET:HB3	1:158:A:LEU:HD11	3	0.66	0.56	0.31
(1,1081)	1:154:A:MET:HB3	1:158:A:LEU:HD13	3	0.66	0.56	0.31
(1,476)	1:153:A:MET:HE2	1:148:A:ILE:HG21	3	0.64	0.17	0.68
(1,476)	1:153:A:MET:HE3	1:148:A:ILE:HG22	3	0.64	0.17	0.68
(1,476)	1:153:A:MET:HE3	1:148:A:ILE:HG23	3	0.64	0.17	0.68

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,6)	1:38:A:THR:HA	1:57:A:LEU:HD13	3	0.62	0.07	0.64
(1,524)	1:31:A:ALA:HB1	1:28:A:VAL:HG13	3	0.61	0.24	0.76
(1,524)	1:31:A:ALA:HB1	1:28:A:VAL:HG11	3	0.61	0.24	0.76
(1,1297)	1:19:A:GLU:H	1:19:A:GLU:HB3	3	0.61	0.17	0.72
(1,557)	1:79:A:VAL:HG13	1:5:A:TYR:HB3	3	0.57	0.25	0.44
(1,1615)	2:201:A:9XG:HAJ	1:60:A:MET:HE3	3	0.56	0.26	0.63
(1,1615)	2:201:A:9XG:HAL	1:60:A:MET:HE1	3	0.56	0.26	0.63
(2,104)	1:150:A:ALA:HB2	1:85:A:MET:HB2	3	0.56	0.2	0.59
(2,104)	1:150:A:ALA:HB3	1:85:A:MET:HB2	3	0.56	0.2	0.59
(1,1028)	1:35:A:SER:HB2	1:73:A:ASP:HB3	3	0.53	0.2	0.67
(2,94)	1:154:A:MET:HE3	1:151:A:ASP:HA	3	0.52	0.26	0.34
(2,94)	1:154:A:MET:HE3	1:154:A:MET:HA	3	0.52	0.26	0.34
(2,173)	1:18:A:ASN:HB3	1:19:A:GLU:HB3	3	0.51	0.13	0.47
(2,173)	1:18:A:ASN:HB3	1:21:A:LYS:HB3	3	0.51	0.13	0.47
(2,130)	1:71:A:THR:HG23	1:33:A:ASP:HB3	3	0.5	0.33	0.3
(2,130)	1:71:A:THR:HG21	1:33:A:ASP:HB3	3	0.5	0.33	0.3
(1,698)	1:41:A:LEU:HB3	1:41:A:LEU:HD21	3	0.48	0.25	0.64
(1,698)	1:41:A:LEU:HB3	1:41:A:LEU:HD22	3	0.48	0.25	0.64
(1,1597)	1:162:A:ALA:HA	1:158:A:LEU:HD13	3	0.48	0.03	0.49
(1,984)	1:51:A:ASN:HB3	1:46:A:ARG:HG2	3	0.47	0.11	0.54
(1,704)	1:155:A:GLN:HB2	1:152:A:ALA:HA	3	0.43	0.26	0.37
(1,704)	1:155:A:GLN:HB3	1:152:A:ALA:HA	3	0.43	0.26	0.37
(1,840)	1:141:A:PRO:HD2	1:140:A:ARG:HB3	3	0.41	0.17	0.42
(1,751)	1:55:A:GLU:HG3	1:55:A:GLU:HB2	3	0.4	0.04	0.42
(1,390)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	3	0.4	0.4	0.13
(1,390)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	3	0.4	0.4	0.13
(2,199)	1:19:A:GLU:HB2	1:158:A:LEU:HD13	3	0.37	0.16	0.45
(2,199)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	3	0.37	0.16	0.45
(1,977)	1:44:A:VAL:HA	1:27:A:PHE:HZ	3	0.35	0.23	0.3
(1,122)	1:19:A:GLU:HA	1:161:A:ARG:HG2	3	0.35	0.04	0.37
(1,122)	1:19:A:GLU:HA	1:161:A:ARG:HG3	3	0.35	0.04	0.37
(2,231)	1:155:A:GLN:HB2	1:48:A:LEU:HD21	3	0.34	0.18	0.25
(2,231)	1:155:A:GLN:HB3	1:48:A:LEU:HD21	3	0.34	0.18	0.25
(2,275)	1:44:A:VAL:HG22	1:156:A:ALA:HB3	3	0.34	0.22	0.19
(2,275)	1:44:A:VAL:HG22	1:156:A:ALA:HB1	3	0.34	0.22	0.19
(2,275)	1:44:A:VAL:HG21	1:157:A:LEU:HB2	3	0.34	0.22	0.19
(1,1243)	1:78:A:LEU:HD22	1:20:A:PHE:HD2	3	0.33	0.07	0.33
(1,1243)	1:78:A:LEU:HD21	1:20:A:PHE:HD1	3	0.33	0.07	0.33
(2,78)	1:26:A:ILE:HD12	1:157:A:LEU:HB3	3	0.33	0.16	0.3
(2,78)	1:26:A:ILE:HD13	1:23:A:ALA:HB1	3	0.33	0.16	0.3
(2,78)	1:26:A:ILE:HD13	1:157:A:LEU:HB3	3	0.33	0.16	0.3
(2,135)	1:72:A:VAL:HG22	1:76:A:GLU:HB2	3	0.32	0.12	0.39

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,135)	1:72:A:VAL:HG23	1:76:A:GLU:HB2	3	0.32	0.12	0.39
(1,563)	1:72:A:VAL:HG13	1:76:A:GLU:HB3	3	0.31	0.08	0.36
(1,563)	1:72:A:VAL:HG12	1:76:A:GLU:HB3	3	0.31	0.08	0.36
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG11	3	0.31	0.19	0.18
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG13	3	0.31	0.19	0.18
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG12	3	0.31	0.19	0.18
(1,99)	1:15:A:GLU:HA	1:18:A:ASN:HB2	3	0.3	0.07	0.28
(1,654)	1:158:A:LEU:HD13	1:19:A:GLU:HG3	3	0.29	0.13	0.28
(1,654)	1:158:A:LEU:HD11	1:19:A:GLU:HG3	3	0.29	0.13	0.28
(1,330)	1:46:A:ARG:HA	1:46:A:ARG:HD2	3	0.26	0.07	0.21
(1,1513)	1:11:A:GLN:H	1:11:A:GLN:HB2	3	0.25	0.1	0.28
(1,369)	1:17:A:LYS:HE2	1:17:A:LYS:HB2	3	0.24	0.05	0.24
(1,369)	1:17:A:LYS:HE2	1:17:A:LYS:HB3	3	0.24	0.05	0.24
(1,559)	1:28:A:VAL:HG11	1:24:A:PHE:HD2	3	0.24	0.1	0.3
(1,559)	1:28:A:VAL:HG12	1:24:A:PHE:HD2	3	0.24	0.1	0.3
(1,501)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	3	0.22	0.04	0.19
(1,501)	1:151:A:ASP:HB2	1:152:A:ALA:HB1	3	0.22	0.04	0.19
(2,52)	1:52:A:PRO:HD3	1:45:A:MET:HG3	3	0.21	0.1	0.16
(1,1299)	1:39:A:LYS:H	1:39:A:LYS:HB3	3	0.2	0.06	0.24
(1,229)	1:35:A:SER:HA	1:73:A:ASP:HB2	3	0.2	0.06	0.22
(1,55)	1:4:A:ILE:HA	1:7:A:ALA:HB1	3	0.17	0.05	0.17
(1,55)	1:4:A:ILE:HA	1:7:A:ALA:HB2	3	0.17	0.05	0.17
(1,279)	1:141:A:PRO:HD3	1:141:A:PRO:HB2	3	0.17	0.02	0.18
(1,470)	1:36:A:ILE:HG21	1:72:A:VAL:HB	3	0.17	0.03	0.18
(1,470)	1:36:A:ILE:HG23	1:72:A:VAL:HB	3	0.17	0.03	0.18
(1,470)	1:36:A:ILE:HG22	1:72:A:VAL:HB	3	0.17	0.03	0.18
(2,158)	1:158:A:LEU:HD11	1:23:A:ALA:HB2	3	0.17	0.05	0.16
(1,1063)	1:149:A:SER:HB2	1:151:A:ASP:HB2	3	0.15	0.04	0.15
(2,263)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	3	0.15	0.05	0.14
(2,263)	1:74:A:PHE:HB3	1:74:A:PHE:HE2	3	0.15	0.05	0.14
(2,263)	1:74:A:PHE:HB3	1:24:A:PHE:HD2	3	0.15	0.05	0.14
(2,315)	1:87:A:ASP:H	1:86:A:LYS:HA	3	0.15	0.01	0.15
(1,292)	1:52:A:PRO:HD3	1:57:A:LEU:HD21	3	0.14	0.06	0.1
(1,292)	1:52:A:PRO:HD3	1:57:A:LEU:HD22	3	0.14	0.06	0.1
(1,340)	1:157:A:LEU:HB3	1:26:A:ILE:HB	3	0.14	0.04	0.11
(1,746)	1:56:A:GLU:HG3	1:55:A:GLU:HB2	2	2.06	0.64	2.06
(2,258)	1:56:A:GLU:HG2	1:146:A:VAL:HG12	2	1.96	0.65	1.96
(2,258)	1:56:A:GLU:HG2	1:146:A:VAL:HG13	2	1.96	0.65	1.96
(1,1082)	1:151:A:ASP:HA	1:154:A:MET:HB2	2	1.94	0.1	1.94
(1,1142)	1:57:A:LEU:HA	1:41:A:LEU:HD23	2	1.86	0.15	1.86
(1,1142)	1:57:A:LEU:HA	1:41:A:LEU:HD21	2	1.86	0.15	1.86
(1,51)	1:26:A:ILE:HA	1:29:A:LEU:HG	2	1.64	0.12	1.64

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,227)	1:29:A:LEU:HA	1:29:A:LEU:HD21	2	1.5	0.06	1.5
(1,508)	1:162:A:ALA:HB3	1:155:A:GLN:HA	2	1.31	0.81	1.31
(1,508)	1:162:A:ALA:HB1	1:155:A:GLN:HA	2	1.31	0.81	1.31
(1,1208)	1:148:A:ILE:HD12	1:27:A:PHE:HZ	2	1.16	0.28	1.16
(1,444)	1:85:A:MET:HE2	1:81:A:MET:HB3	2	1.14	0.3	1.14
(1,444)	1:85:A:MET:HE1	1:81:A:MET:HB3	2	1.14	0.3	1.14
(2,253)	1:148:A:ILE:HG23	1:147:A:ARG:HD3	2	1.12	0.14	1.12
(2,253)	1:27:A:PHE:HB3	1:26:A:ILE:HG22	2	1.12	0.14	1.12
(1,1156)	1:63:A:GLU:HG3	1:64:A:VAL:HG12	2	1.1	0.66	1.1
(1,1156)	1:63:A:GLU:HG3	1:64:A:VAL:HG13	2	1.1	0.66	1.1
(1,222)	1:151:A:ASP:HA	1:81:A:MET:HE2	2	0.96	0.7	0.96
(1,222)	1:151:A:ASP:HA	1:81:A:MET:HE3	2	0.96	0.7	0.96
(1,799)	1:148:A:ILE:HD11	1:45:A:MET:HG2	2	0.92	0.38	0.92
(1,1470)	1:57:A:LEU:H	1:56:A:GLU:HB2	2	0.9	0.03	0.9
(1,640)	1:78:A:LEU:HD13	1:78:A:LEU:HA	2	0.8	0.05	0.8
(1,643)	1:78:A:LEU:HD12	1:81:A:MET:HG2	2	0.8	0.6	0.8
(1,643)	1:78:A:LEU:HD11	1:81:A:MET:HG2	2	0.8	0.6	0.8
(1,727)	1:26:A:ILE:HG12	1:157:A:LEU:HB3	2	0.78	0.3	0.78
(1,447)	1:1:A:MET:HE2	1:79:A:VAL:HG23	2	0.74	0.32	0.74
(1,447)	1:1:A:MET:HE3	1:79:A:VAL:HG23	2	0.74	0.32	0.74
(2,101)	1:156:A:ALA:HB3	1:47:A:MET:HB2	2	0.72	0.14	0.72
(2,101)	1:156:A:ALA:HB1	1:47:A:MET:HB2	2	0.72	0.14	0.72
(2,321)	1:56:A:GLU:H	1:56:A:GLU:HG3	2	0.71	0.1	0.71
(1,1473)	1:60:A:MET:H	1:60:A:MET:HG3	2	0.7	0.01	0.7
(2,291)	1:89:A:SER:HA	1:139:A:LYS:HE2	2	0.67	0.19	0.67
(1,742)	1:56:A:GLU:HG3	1:56:A:GLU:HA	2	0.63	0.03	0.63
(1,612)	1:21:A:LYS:HE2	1:21:A:LYS:HG2	2	0.58	0.05	0.58
(1,386)	1:78:A:LEU:HB2	1:78:A:LEU:HD23	2	0.56	0.04	0.56
(1,386)	1:78:A:LEU:HB2	1:78:A:LEU:HD22	2	0.56	0.04	0.56
(1,1236)	1:74:A:PHE:HE2	1:78:A:LEU:HD22	2	0.54	0.07	0.54
(1,1236)	1:74:A:PHE:HE2	1:78:A:LEU:HD21	2	0.54	0.07	0.54
(1,1614)	2:201:A:9XG:HAK	1:64:A:VAL:HG23	2	0.53	0.03	0.53
(1,1614)	2:201:A:9XG:HAK	1:64:A:VAL:HG22	2	0.53	0.03	0.53
(1,743)	1:56:A:GLU:HA	1:56:A:GLU:HG2	2	0.52	0.04	0.52
(1,815)	1:80:A:MET:HG3	1:84:A:SER:HB2	2	0.49	0.27	0.49
(1,815)	1:80:A:MET:HG3	1:84:A:SER:HB3	2	0.49	0.27	0.49
(1,1619)	2:201:A:9XG:HAK	1:60:A:MET:HE2	2	0.48	0.17	0.48
(1,1173)	1:1:A:MET:HG2	1:6:A:LYS:HB3	2	0.47	0.07	0.47
(2,156)	1:157:A:LEU:HD11	1:27:A:PHE:HA	2	0.47	0.23	0.47
(2,156)	1:157:A:LEU:HD13	1:153:A:MET:HA	2	0.47	0.23	0.47
(1,575)	1:158:A:LEU:HD22	1:161:A:ARG:HD2	2	0.42	0.14	0.42
(1,575)	1:158:A:LEU:HD22	1:161:A:ARG:HD3	2	0.42	0.14	0.42

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1617)	2:201:A:9XG:HAJ	1:60:A:MET:HA	2	0.42	0.02	0.42
(1,1617)	2:201:A:9XG:HAJ	1:60:A:MET:HA	2	0.42	0.02	0.42
(1,651)	1:48:A:LEU:HD11	1:153:A:MET:HG3	2	0.42	0.01	0.42
(1,1171)	1:1:A:MET:HG3	1:6:A:LYS:HG2	2	0.4	0.2	0.4
(1,1420)	1:82:A:VAL:H	1:81:A:MET:HB3	2	0.4	0.08	0.4
(1,806)	1:154:A:MET:HG2	1:154:A:MET:HA	2	0.37	0.05	0.37
(1,1116)	1:23:A:ALA:HB2	1:154:A:MET:HG3	2	0.36	0.02	0.36
(1,1116)	1:23:A:ALA:HB3	1:154:A:MET:HG3	2	0.36	0.02	0.36
(2,41)	1:87:A:ASP:HA	1:86:A:LYS:HB3	2	0.34	0.2	0.34
(1,309)	1:34:A:GLY:HA3	1:31:A:ALA:HB3	2	0.34	0.0	0.34
(1,311)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	2	0.32	0.11	0.32
(1,587)	1:61:A:ILE:HA	1:72:A:VAL:HG21	2	0.32	0.15	0.32
(1,587)	1:61:A:ILE:HA	1:72:A:VAL:HG23	2	0.32	0.15	0.32
(2,177)	1:155:A:GLN:HG3	1:152:A:ALA:HA	2	0.32	0.16	0.32
(2,177)	1:8:A:ALA:HA	1:11:A:GLN:HG2	2	0.32	0.16	0.32
(1,294)	1:52:A:PRO:HD2	1:46:A:ARG:HD2	2	0.3	0.01	0.3
(1,160)	1:23:A:ALA:HA	1:26:A:ILE:HG12	2	0.29	0.08	0.29
(1,607)	1:57:A:LEU:HD22	1:38:A:THR:HA	2	0.29	0.06	0.29
(1,607)	1:57:A:LEU:HD23	1:38:A:THR:HA	2	0.29	0.06	0.29
(1,1616)	2:201:A:9XG:HAK	1:60:A:MET:HE2	2	0.28	0.17	0.28
(1,204)	1:76:A:GLU:HA	1:72:A:VAL:HG13	2	0.28	0.12	0.28
(1,816)	1:21:A:LYS:HB3	1:18:A:ASN:HA	2	0.28	0.07	0.28
(1,462)	1:2:A:ASP:HB2	1:4:A:ILE:HG21	2	0.26	0.14	0.26
(1,462)	1:2:A:ASP:HB2	1:4:A:ILE:HG22	2	0.26	0.14	0.26
(2,116)	1:13:A:THR:HG22	1:16:A:GLN:HG3	2	0.26	0.11	0.26
(2,232)	1:61:A:ILE:HA	1:72:A:VAL:HB	2	0.26	0.01	0.26
(2,232)	1:61:A:ILE:HA	1:60:A:MET:HB2	2	0.26	0.01	0.26
(1,215)	1:154:A:MET:HA	1:23:A:ALA:HB2	2	0.26	0.08	0.26
(1,215)	1:154:A:MET:HA	1:23:A:ALA:HB1	2	0.26	0.08	0.26
(1,594)	1:79:A:VAL:HG23	1:6:A:LYS:HB3	2	0.25	0.09	0.25
(1,594)	1:79:A:VAL:HG21	1:6:A:LYS:HB3	2	0.25	0.09	0.25
(1,455)	1:1:A:MET:HE1	1:1:A:MET:HA	2	0.23	0.03	0.23
(1,455)	1:1:A:MET:HE2	1:1:A:MET:HA	2	0.23	0.03	0.23
(1,678)	1:157:A:LEU:HG	1:157:A:LEU:HA	2	0.23	0.09	0.23
(2,36)	1:71:A:THR:HA	1:70:A:GLY:HA2	2	0.23	0.05	0.23
(2,189)	1:85:A:MET:HG3	1:85:A:MET:HA	2	0.22	0.02	0.22
(1,838)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	2	0.22	0.04	0.22
(1,1166)	1:21:A:LYS:HG3	1:18:A:ASN:HA	2	0.22	0.01	0.22
(1,1121)	1:44:A:VAL:HG22	1:47:A:MET:HB2	2	0.22	0.07	0.22
(1,891)	1:163:A:LYS:HA	1:163:A:LYS:HB3	2	0.22	0.1	0.22
(2,190)	1:150:A:ALA:HB3	1:85:A:MET:HG2	2	0.22	0.08	0.22
(2,190)	1:150:A:ALA:HB1	1:85:A:MET:HG2	2	0.22	0.08	0.22

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,763)	1:72:A:VAL:HG13	1:76:A:GLU:HG2	2	0.21	0.01	0.21
(1,862)	1:161:A:ARG:HB2	1:161:A:ARG:HD2	2	0.21	0.0	0.21
(2,178)	1:155:A:GLN:HG3	1:158:A:LEU:HB3	2	0.2	0.0	0.2
(1,251)	1:150:A:ALA:HA	1:148:A:ILE:HG23	2	0.2	0.02	0.2
(2,8)	1:35:A:SER:HB2	1:73:A:ASP:HA	2	0.18	0.04	0.18
(1,161)	1:23:A:ALA:HA	1:26:A:ILE:HD12	2	0.18	0.01	0.18
(1,161)	1:23:A:ALA:HA	1:26:A:ILE:HD11	2	0.18	0.01	0.18
(1,890)	1:86:A:LYS:HB3	1:86:A:LYS:HA	2	0.18	0.07	0.18
(1,210)	1:58:A:GLN:HA	1:61:A:ILE:HD12	2	0.18	0.0	0.18
(1,210)	1:58:A:GLN:HA	1:61:A:ILE:HD13	2	0.18	0.0	0.18
(1,288)	1:52:A:PRO:HD3	1:46:A:ARG:HD2	2	0.18	0.02	0.18
(1,1469)	1:45:A:MET:H	1:45:A:MET:HG3	2	0.17	0.03	0.17
(1,280)	1:141:A:PRO:HD3	1:140:A:ARG:HB3	2	0.17	0.02	0.17
(1,490)	1:26:A:ILE:HD12	1:22:A:ALA:HB1	2	0.17	0.04	0.17
(1,490)	1:26:A:ILE:HD11	1:22:A:ALA:HB1	2	0.17	0.04	0.17
(1,576)	1:158:A:LEU:HB3	1:158:A:LEU:HD23	2	0.16	0.04	0.16
(1,964)	1:61:A:ILE:HD13	1:37:A:SER:HB2	2	0.16	0.04	0.16
(1,776)	1:11:A:GLN:HG3	1:8:A:ALA:HA	2	0.16	0.04	0.16
(1,1179)	1:39:A:LYS:HG2	1:39:A:LYS:HE2	2	0.16	0.01	0.16
(1,1201)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	2	0.16	0.02	0.16
(1,1201)	1:4:A:ILE:HG23	1:5:A:TYR:HE2	2	0.16	0.02	0.16
(1,357)	1:21:A:LYS:HE3	1:21:A:LYS:HG3	2	0.15	0.02	0.15
(1,730)	1:155:A:GLN:HB3	1:155:A:GLN:HG2	2	0.15	0.0	0.15
(1,1209)	1:74:A:PHE:HD2	1:77:A:PHE:HD2	2	0.15	0.0	0.15
(1,1209)	1:74:A:PHE:HD1	1:77:A:PHE:HD2	2	0.15	0.0	0.15
(1,1443)	1:15:A:GLU:H	1:13:A:THR:HB	2	0.15	0.0	0.15
(1,606)	1:47:A:MET:HE2	1:44:A:VAL:HG23	2	0.14	0.03	0.14
(1,606)	1:47:A:MET:HE1	1:44:A:VAL:HG23	2	0.14	0.03	0.14
(1,1092)	1:21:A:LYS:HB3	1:74:A:PHE:HZ	2	0.14	0.0	0.14
(1,905)	1:40:A:GLU:HA	1:43:A:LYS:HB3	2	0.14	0.01	0.14
(1,991)	1:51:A:ASN:HA	1:52:A:PRO:HG3	2	0.14	0.02	0.14
(1,1088)	1:38:A:THR:HG21	1:37:A:SER:HB3	2	0.14	0.01	0.14
(1,1088)	1:38:A:THR:HG23	1:37:A:SER:HB3	2	0.14	0.01	0.14
(1,254)	1:8:A:ALA:HA	1:11:A:GLN:HB3	2	0.13	0.02	0.13
(1,628)	1:43:A:LYS:HG2	1:43:A:LYS:HD3	2	0.12	0.02	0.12
(1,1089)	1:78:A:LEU:HD11	1:74:A:PHE:HE1	2	0.12	0.01	0.12
(1,1089)	1:78:A:LEU:HD13	1:74:A:PHE:HE2	2	0.12	0.01	0.12
(1,1398)	1:59:A:GLU:H	1:58:A:GLN:HB3	2	0.12	0.02	0.12
(1,195)	1:58:A:GLN:HA	1:58:A:GLN:HB2	2	0.12	0.0	0.12
(1,57)	1:4:A:ILE:HA	1:4:A:ILE:HD12	2	0.11	0.0	0.11
(1,737)	1:20:A:PHE:HB2	1:20:A:PHE:HD2	2	0.11	0.0	0.11
(1,737)	1:20:A:PHE:HB2	1:20:A:PHE:HD1	2	0.11	0.0	0.11

Continued on next page...

Continued from previous page...

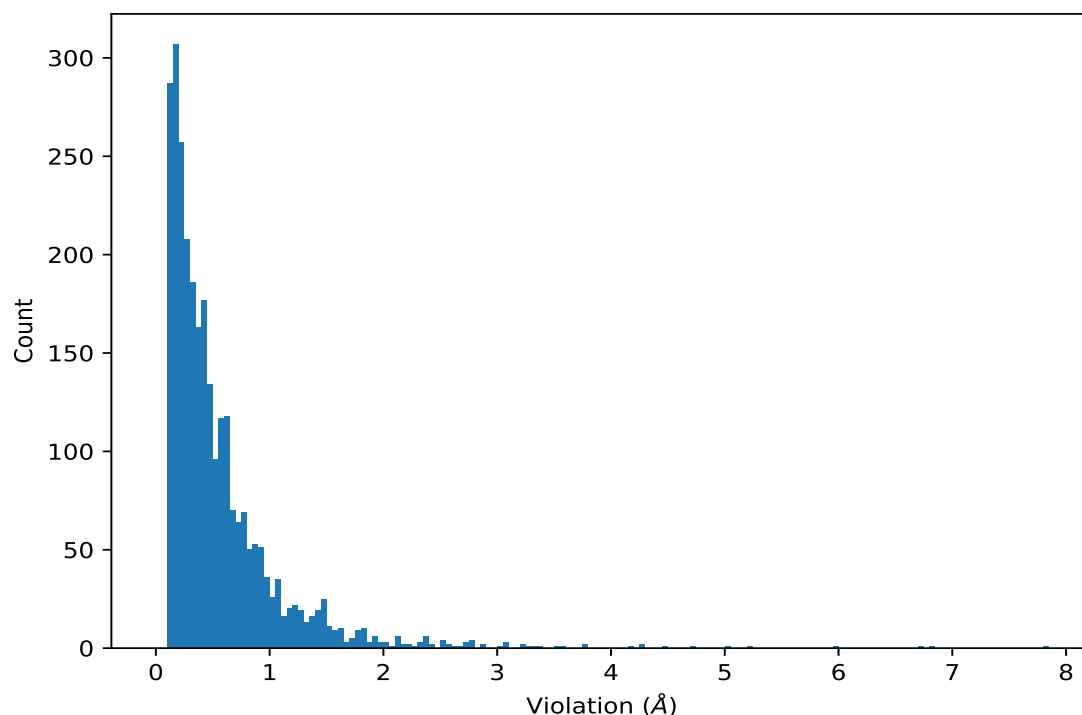
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,208)	1:82:A:VAL:HG13	1:82:A:VAL:HB	2	0.11	0.0	0.11
(2,208)	1:79:A:VAL:HB	1:79:A:VAL:HG23	2	0.11	0.0	0.11
(1,351)	1:158:A:LEU:HB2	1:158:A:LEU:HG	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,143)	1:143:A:LEU:HD23	1:60:A:MET:HG2	6	7.84

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD13	8	6.82
(1,584)	1:143:A:LEU:HD23	1:59:A:GLU:HB2	6	6.74
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD12	6	5.98
(2,247)	1:84:A:SER:HA	1:147:A:ARG:HD3	6	5.21
(1,619)	1:143:A:LEU:HD12	1:59:A:GLU:HB3	6	5.02
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD11	7	4.72
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD13	8	4.47
(2,85)	1:85:A:MET:HE1	1:84:A:SER:HB2	7	4.26
(1,1080)	1:162:A:ALA:HB3	1:159:A:GLY:HA2	6	4.25
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD11	6	4.19
(1,1106)	1:60:A:MET:HE2	1:147:A:ARG:HA	7	3.75
(1,518)	1:160:A:ALA:HB2	1:158:A:LEU:HD11	6	3.75
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE2	7	3.55
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG13	7	3.54
(1,442)	1:85:A:MET:HE1	1:150:A:ALA:HB1	7	3.37
(1,697)	1:41:A:LEU:HD21	1:60:A:MET:HB3	7	3.32
(1,620)	1:143:A:LEU:HD12	1:59:A:GLU:HB2	6	3.25
(1,697)	1:41:A:LEU:HD23	1:60:A:MET:HB3	8	3.21
(1,619)	1:143:A:LEU:HD13	1:59:A:GLU:HB3	8	3.2
(1,646)	1:157:A:LEU:HD13	1:23:A:ALA:HB2	5	3.06
(1,518)	1:160:A:ALA:HB1	1:158:A:LEU:HD12	7	3.06
(1,619)	1:143:A:LEU:HD11	1:59:A:GLU:HB3	7	3.05
(2,267)	1:60:A:MET:HG3	1:143:A:LEU:HD12	6	3.03
(2,175)	1:64:A:VAL:HG21	1:63:A:GLU:HG2	6	2.88
(1,798)	1:45:A:MET:HG2	1:148:A:ILE:HG13	7	2.87
(1,646)	1:157:A:LEU:HD12	1:23:A:ALA:HB3	8	2.77
(1,574)	1:82:A:VAL:HG23	1:86:A:LYS:HB3	2	2.77
(1,359)	1:21:A:LYS:HE3	1:25:A:ASP:HB2	6	2.77
(2,289)	1:11:A:GLN:HG2	1:12:A:LEU:HD11	6	2.76
(1,1101)	1:145:A:ARG:HD3	1:143:A:LEU:HD12	2	2.73
(2,59)	1:145:A:ARG:HD3	1:146:A:VAL:HG11	6	2.7
(1,746)	1:56:A:GLU:HG3	1:55:A:GLU:HB2	7	2.7
(1,646)	1:157:A:LEU:HD11	1:23:A:ALA:HB3	1	2.67
(2,258)	1:56:A:GLU:HG2	1:146:A:VAL:HG13	7	2.61
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD21	7	2.58
(1,620)	1:143:A:LEU:HD11	1:59:A:GLU:HB2	7	2.56
(1,1120)	1:81:A:MET:HE2	1:77:A:PHE:HD1	7	2.54
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD12	5	2.53
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB2	6	2.5
(1,646)	1:157:A:LEU:HD11	1:23:A:ALA:HB3	2	2.5
(1,645)	1:157:A:LEU:HD12	1:153:A:MET:HG2	8	2.44
(1,442)	1:85:A:MET:HE2	1:150:A:ALA:HB1	8	2.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,620)	1:143:A:LEU:HD13	1:59:A:GLU:HB2	8	2.39
(2,123)	1:146:A:VAL:HG13	1:145:A:ARG:HA	7	2.38
(2,82)	1:1:A:MET:HE1	1:78:A:LEU:HB2	2	2.37
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD12	2	2.36
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD13	5	2.36
(1,1120)	1:81:A:MET:HE3	1:77:A:PHE:HD2	8	2.35
(1,1154)	1:4:A:ILE:HD11	1:2:A:ASP:HB2	6	2.34
(1,1047)	1:78:A:LEU:HD13	1:75:A:ASP:HB3	5	2.33
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD13	8	2.3
(2,295)	1:148:A:ILE:HG21	1:77:A:PHE:HZ	8	2.28
(1,696)	1:41:A:LEU:HD21	1:60:A:MET:HB2	7	2.23
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	8	2.22
(1,1047)	1:78:A:LEU:HD12	1:75:A:ASP:HB3	4	2.19
(2,84)	1:85:A:MET:HE3	1:85:A:MET:HA	7	2.17
(2,59)	1:145:A:ARG:HD2	1:143:A:LEU:HD11	7	2.14
(1,216)	1:154:A:MET:HA	1:157:A:LEU:HD12	1	2.14
(2,295)	1:77:A:PHE:HZ	1:158:A:LEU:HD21	7	2.13
(2,85)	1:85:A:MET:HE2	1:84:A:SER:HB3	8	2.12
(1,508)	1:162:A:ALA:HB3	1:155:A:GLN:HA	6	2.12
(2,251)	1:148:A:ILE:HD12	1:147:A:ARG:HD2	1	2.1
(1,798)	1:45:A:MET:HG2	1:148:A:ILE:HG13	8	2.06
(2,154)	1:158:A:LEU:HD13	1:78:A:LEU:HD11	6	2.04
(1,1082)	1:151:A:ASP:HA	1:154:A:MET:HB2	8	2.04
(1,1142)	1:57:A:LEU:HA	1:41:A:LEU:HD23	8	2.0
(1,617)	1:29:A:LEU:HD13	1:157:A:LEU:HB3	7	1.97
(2,82)	1:1:A:MET:HE1	1:78:A:LEU:HB2	8	1.95
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD3	6	1.95
(2,88)	1:4:A:ILE:HG23	1:80:A:MET:HB2	5	1.93
(2,88)	1:4:A:ILE:HG21	1:80:A:MET:HB2	8	1.93
(2,92)	1:153:A:MET:HE2	1:23:A:ALA:HA	4	1.91
(2,88)	1:4:A:ILE:HG23	1:80:A:MET:HB2	3	1.91
(2,69)	1:17:A:LYS:HE2	1:9:A:VAL:HG22	7	1.91
(1,370)	1:21:A:LYS:HE2	1:25:A:ASP:HB2	6	1.9
(2,249)	1:151:A:ASP:HB3	1:148:A:ILE:HG21	7	1.89
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG11	2	1.85
(1,1143)	1:45:A:MET:HE3	1:147:A:ARG:HA	7	1.85
(2,249)	1:151:A:ASP:HB3	1:148:A:ILE:HG23	6	1.84
(2,111)	1:160:A:ALA:HB3	1:158:A:LEU:HD23	6	1.84
(1,1082)	1:151:A:ASP:HA	1:154:A:MET:HB2	7	1.84
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD12	8	1.83
(2,335)	1:81:A:MET:H	1:153:A:MET:HE1	6	1.82
(2,284)	1:64:A:VAL:HG12	1:76:A:GLU:HB3	6	1.82

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,88)	1:4:A:ILE:HG22	1:80:A:MET:HB2	7	1.82
(1,625)	1:78:A:LEU:HD22	1:81:A:MET:HG2	8	1.82
(2,131)	1:82:A:VAL:HG22	1:83:A:ARG:HB2	4	1.81
(1,645)	1:157:A:LEU:HD11	1:153:A:MET:HG2	7	1.8
(1,1047)	1:78:A:LEU:HD13	1:75:A:ASP:HB3	8	1.79
(1,696)	1:41:A:LEU:HD23	1:60:A:MET:HB2	8	1.78
(2,295)	1:77:A:PHE:HZ	1:26:A:ILE:HD13	6	1.77
(2,267)	1:60:A:MET:HG3	1:143:A:LEU:HD13	4	1.77
(2,59)	1:145:A:ARG:HD3	1:146:A:VAL:HG13	1	1.76
(1,1156)	1:63:A:GLU:HG3	1:64:A:VAL:HG13	6	1.76
(1,697)	1:41:A:LEU:HD21	1:60:A:MET:HB3	6	1.76
(1,51)	1:26:A:ILE:HA	1:29:A:LEU:HG	7	1.76
(1,1154)	1:4:A:ILE:HD11	1:2:A:ASP:HB2	8	1.75
(2,243)	1:81:A:MET:HE2	1:44:A:VAL:HG12	3	1.74
(1,826)	1:11:A:GLN:HB2	1:7:A:ALA:HB1	6	1.74
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	6	1.73
(2,69)	1:17:A:LYS:HE2	1:9:A:VAL:HG22	8	1.71
(1,1142)	1:57:A:LEU:HA	1:41:A:LEU:HD21	7	1.71
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	3	1.68
(1,1130)	1:158:A:LEU:HD13	1:155:A:GLN:HA	6	1.68
(1,222)	1:151:A:ASP:HA	1:81:A:MET:HE3	6	1.66
(2,205)	1:57:A:LEU:HA	1:57:A:LEU:HD13	8	1.64
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	8	1.64
(2,335)	1:81:A:MET:H	1:153:A:MET:HE1	7	1.63
(2,132)	1:38:A:THR:HG23	1:57:A:LEU:HD13	8	1.62
(1,125)	1:60:A:MET:HA	1:143:A:LEU:HB2	6	1.62
(2,88)	1:4:A:ILE:HG23	1:80:A:MET:HB2	2	1.61
(2,82)	1:1:A:MET:HE1	1:78:A:LEU:HB2	1	1.61
(2,205)	1:57:A:LEU:HA	1:57:A:LEU:HD13	7	1.6
(2,137)	1:48:A:LEU:HD23	1:156:A:ALA:HA	6	1.6
(2,88)	1:4:A:ILE:HG22	1:80:A:MET:HB2	4	1.6
(1,1079)	1:157:A:LEU:HD13	1:27:A:PHE:HB3	6	1.59
(1,481)	1:154:A:MET:HE2	1:151:A:ASP:HB2	7	1.59
(2,166)	1:41:A:LEU:HD21	1:61:A:ILE:HB	8	1.58
(1,1154)	1:4:A:ILE:HD11	1:2:A:ASP:HB2	2	1.58
(2,141)	1:41:A:LEU:HD11	1:52:A:PRO:HB3	6	1.57
(1,227)	1:29:A:LEU:HA	1:29:A:LEU:HD21	8	1.56
(2,92)	1:153:A:MET:HE1	1:149:A:SER:HB3	3	1.55
(2,92)	1:153:A:MET:HE2	1:23:A:ALA:HA	5	1.55
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	3	1.55
(2,89)	1:148:A:ILE:HG22	1:149:A:SER:HB3	7	1.54
(1,1047)	1:78:A:LEU:HD13	1:75:A:ASP:HB3	1	1.54

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,300)	1:27:A:PHE:HE1	1:36:A:ILE:HG23	7	1.52
(2,251)	1:148:A:ILE:HD11	1:147:A:ARG:HD2	5	1.52
(2,92)	1:153:A:MET:HE3	1:23:A:ALA:HA	1	1.52
(2,70)	1:2:A:ASP:HB3	1:4:A:ILE:HG13	7	1.51
(1,1127)	1:162:A:ALA:HB3	1:158:A:LEU:HB3	6	1.51
(1,545)	1:9:A:VAL:HG13	1:6:A:LYS:HA	4	1.51
(1,51)	1:26:A:ILE:HA	1:29:A:LEU:HG	8	1.51
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD21	7	1.5
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG22	4	1.5
(2,267)	1:62:A:ASP:HB3	1:143:A:LEU:HD11	3	1.49
(2,251)	1:148:A:ILE:HD13	1:147:A:ARG:HD2	4	1.49
(2,251)	1:148:A:ILE:HD11	1:147:A:ARG:HD2	6	1.49
(2,210)	1:44:A:VAL:HB	1:48:A:LEU:HD23	8	1.49
(2,132)	1:38:A:THR:HG21	1:57:A:LEU:HD13	6	1.49
(2,59)	1:147:A:ARG:HD2	1:148:A:ILE:HG21	4	1.49
(2,270)	1:45:A:MET:HE1	1:57:A:LEU:HB3	5	1.48
(2,267)	1:62:A:ASP:HB3	1:143:A:LEU:HD12	1	1.48
(1,653)	1:48:A:LEU:HD13	1:44:A:VAL:HG23	6	1.48
(1,645)	1:157:A:LEU:HD12	1:153:A:MET:HG2	2	1.48
(2,169)	1:155:A:GLN:HB3	1:158:A:LEU:HB2	2	1.47
(2,141)	1:41:A:LEU:HD13	1:52:A:PRO:HB3	8	1.47
(2,132)	1:38:A:THR:HG21	1:57:A:LEU:HD13	7	1.47
(2,129)	1:38:A:THR:HG23	1:60:A:MET:HE3	5	1.47
(1,1076)	1:157:A:LEU:HD22	1:27:A:PHE:HB3	7	1.47
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	2	1.47
(2,256)	1:22:A:ALA:HB2	1:20:A:PHE:HD2	8	1.46
(2,123)	1:146:A:VAL:HG12	1:145:A:ARG:HA	8	1.46
(2,92)	1:153:A:MET:HE1	1:23:A:ALA:HA	2	1.46
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	3	1.46
(2,70)	1:2:A:ASP:HB3	1:4:A:ILE:HG13	8	1.46
(1,1081)	1:154:A:MET:HB3	1:158:A:LEU:HD13	6	1.46
(1,584)	1:143:A:LEU:HD23	1:59:A:GLU:HB2	7	1.46
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE2	4	1.45
(1,227)	1:29:A:LEU:HA	1:29:A:LEU:HD21	7	1.45
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HB3	1	1.44
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG21	3	1.44
(1,1208)	1:148:A:ILE:HD12	1:27:A:PHE:HZ	7	1.44
(1,1154)	1:4:A:ILE:HD12	1:2:A:ASP:HB2	7	1.44
(1,444)	1:85:A:MET:HE1	1:81:A:MET:HB3	7	1.44
(1,430)	1:148:A:ILE:HD12	1:153:A:MET:HE3	7	1.44
(2,217)	1:28:A:VAL:HA	1:157:A:LEU:HD12	8	1.43
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG21	8	1.43

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,764)	1:8:A:ALA:HB1	1:10:A:GLU:HG3	6	1.43
(2,88)	1:4:A:ILE:HG21	1:80:A:MET:HB2	6	1.42
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	8	1.42
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	6	1.42
(1,746)	1:56:A:GLU:HG3	1:55:A:GLU:HB2	8	1.42
(1,555)	1:146:A:VAL:HG12	1:52:A:PRO:HB3	7	1.42
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	7	1.41
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	8	1.41
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG13	7	1.41
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG23	4	1.41
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG13	2	1.4
(2,270)	1:45:A:MET:HE2	1:57:A:LEU:HB3	4	1.39
(2,129)	1:38:A:THR:HG23	1:60:A:MET:HE1	1	1.39
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE1	3	1.39
(1,1159)	1:10:A:GLU:HG3	1:9:A:VAL:HG12	4	1.39
(1,643)	1:78:A:LEU:HD12	1:81:A:MET:HG2	3	1.39
(1,1047)	1:78:A:LEU:HD12	1:75:A:ASP:HB3	2	1.38
(1,1047)	1:78:A:LEU:HD11	1:75:A:ASP:HB3	6	1.38
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD13	6	1.38
(2,143)	1:143:A:LEU:HD23	1:59:A:GLU:HB3	7	1.37
(2,140)	1:41:A:LEU:HD12	1:153:A:MET:HE1	6	1.37
(1,492)	1:4:A:ILE:HG23	1:7:A:ALA:HB2	3	1.37
(2,141)	1:41:A:LEU:HD13	1:72:A:VAL:HB	4	1.36
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG23	5	1.36
(2,169)	1:156:A:ALA:HB2	1:155:A:GLN:HB3	6	1.35
(2,129)	1:38:A:THR:HG23	1:60:A:MET:HE3	8	1.35
(1,432)	1:148:A:ILE:HD11	1:45:A:MET:HB3	6	1.35
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG11	6	1.34
(2,131)	1:82:A:VAL:HG22	1:86:A:LYS:HD2	7	1.33
(2,70)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	2	1.33
(2,169)	1:156:A:ALA:HB3	1:155:A:GLN:HB2	1	1.32
(2,59)	1:147:A:ARG:HD2	1:148:A:ILE:HG22	3	1.32
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG21	6	1.32
(2,270)	1:45:A:MET:HE3	1:57:A:LEU:HB3	2	1.31
(2,270)	1:45:A:MET:HE2	1:57:A:LEU:HB3	3	1.31
(2,258)	1:56:A:GLU:HG2	1:146:A:VAL:HG12	8	1.31
(2,134)	1:79:A:VAL:HG23	1:83:A:ARG:HD3	5	1.31
(2,129)	1:38:A:THR:HG22	1:60:A:MET:HE1	2	1.31
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	8	1.31
(1,799)	1:148:A:ILE:HD11	1:45:A:MET:HG2	7	1.3
(2,270)	1:45:A:MET:HE3	1:148:A:ILE:HG12	1	1.29
(2,256)	1:22:A:ALA:HB2	1:20:A:PHE:HD1	7	1.29

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE3	3	1.29
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD2	8	1.29
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD23	7	1.28
(1,492)	1:4:A:ILE:HG23	1:7:A:ALA:HB1	1	1.28
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB1	4	1.28
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB3	5	1.28
(1,491)	1:7:A:ALA:HB1	1:10:A:GLU:HG3	6	1.28
(1,1153)	1:4:A:ILE:HD12	1:86:A:LYS:HE2	8	1.27
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD12	8	1.27
(2,253)	1:27:A:PHE:HB3	1:26:A:ILE:HG22	7	1.26
(2,141)	1:41:A:LEU:HD11	1:72:A:VAL:HB	3	1.26
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	7	1.26
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG21	8	1.26
(1,492)	1:4:A:ILE:HG22	1:7:A:ALA:HB2	7	1.26
(1,422)	1:61:A:ILE:HD13	1:61:A:ILE:HA	6	1.26
(1,492)	1:4:A:ILE:HG23	1:7:A:ALA:HB2	2	1.25
(1,430)	1:148:A:ILE:HD12	1:153:A:MET:HE2	8	1.25
(2,235)	1:61:A:ILE:HD11	1:57:A:LEU:HA	1	1.24
(2,141)	1:41:A:LEU:HD11	1:52:A:PRO:HB3	7	1.24
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	7	1.24
(2,219)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	5	1.23
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD12	3	1.23
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD11	8	1.22
(2,169)	1:152:A:ALA:HB3	1:155:A:GLN:HB2	8	1.22
(2,166)	1:41:A:LEU:HD22	1:61:A:ILE:HB	7	1.22
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG12	8	1.22
(2,137)	1:48:A:LEU:HD23	1:156:A:ALA:HA	2	1.22
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	7	1.22
(1,1104)	1:9:A:VAL:HG21	1:10:A:GLU:HA	4	1.22
(1,1073)	1:148:A:ILE:HD12	1:27:A:PHE:HE2	8	1.22
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD12	8	1.22
(2,247)	1:84:A:SER:HA	1:140:A:ARG:HD2	7	1.21
(2,123)	1:146:A:VAL:HG13	1:145:A:ARG:HA	2	1.21
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	5	1.21
(2,235)	1:61:A:ILE:HD11	1:57:A:LEU:HA	3	1.2
(2,169)	1:155:A:GLN:HB2	1:158:A:LEU:HB2	5	1.2
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	1	1.2
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG21	5	1.2
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	4	1.2
(2,181)	1:72:A:VAL:HB	1:77:A:PHE:HB3	7	1.19
(2,141)	1:41:A:LEU:HD13	1:72:A:VAL:HB	2	1.19
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	2	1.19

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:61:A:ILE:HD13	1:61:A:ILE:HA	7	1.19
(2,335)	1:81:A:MET:H	1:153:A:MET:HE1	2	1.18
(2,141)	1:41:A:LEU:HD11	1:72:A:VAL:HB	5	1.18
(2,137)	1:48:A:LEU:HD23	1:156:A:ALA:HA	4	1.18
(2,92)	1:153:A:MET:HE2	1:23:A:ALA:HA	6	1.18
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG21	3	1.18
(2,137)	1:48:A:LEU:HD22	1:156:A:ALA:HA	5	1.17
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	5	1.17
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG11	2	1.17
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD12	6	1.16
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	7	1.16
(1,688)	1:145:A:ARG:HG2	1:145:A:ARG:HA	2	1.16
(1,492)	1:4:A:ILE:HG21	1:7:A:ALA:HB2	6	1.16
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD1	5	1.15
(2,175)	1:64:A:VAL:HG22	1:63:A:GLU:HG2	7	1.15
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	5	1.15
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD13	5	1.15
(2,251)	1:148:A:ILE:HD12	1:147:A:ARG:HD2	3	1.14
(2,76)	1:61:A:ILE:HD13	1:38:A:THR:HB	3	1.14
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD13	2	1.14
(2,92)	1:153:A:MET:HE2	1:23:A:ALA:HA	7	1.13
(2,70)	1:2:A:ASP:HB3	1:4:A:ILE:HG13	3	1.13
(2,235)	1:61:A:ILE:HD11	1:57:A:LEU:HA	2	1.12
(2,235)	1:61:A:ILE:HD12	1:57:A:LEU:HA	4	1.12
(2,219)	1:28:A:VAL:HG12	1:43:A:LYS:HD2	2	1.12
(2,137)	1:48:A:LEU:HD23	1:156:A:ALA:HA	1	1.12
(1,492)	1:4:A:ILE:HG21	1:7:A:ALA:HB1	8	1.12
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD12	5	1.11
(1,432)	1:148:A:ILE:HD12	1:45:A:MET:HB3	5	1.11
(2,335)	1:81:A:MET:H	1:153:A:MET:HE3	8	1.1
(1,827)	1:7:A:ALA:HB1	1:10:A:GLU:HB2	6	1.1
(1,645)	1:157:A:LEU:HD12	1:153:A:MET:HG2	1	1.1
(1,518)	1:160:A:ALA:HB2	1:158:A:LEU:HD12	1	1.1
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD21	8	1.09
(2,141)	1:41:A:LEU:HD11	1:80:A:MET:HG2	1	1.09
(2,59)	1:147:A:ARG:HD2	1:148:A:ILE:HG21	5	1.09
(1,1111)	1:153:A:MET:HE3	1:44:A:VAL:HG21	2	1.09
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD12	1	1.09
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	4	1.09
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD13	8	1.09
(2,169)	1:156:A:ALA:HB3	1:155:A:GLN:HB3	7	1.08
(2,137)	1:48:A:LEU:HD22	1:156:A:ALA:HA	3	1.08

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	7	1.08
(1,1140)	1:41:A:LEU:HD22	1:45:A:MET:HG3	8	1.08
(1,727)	1:26:A:ILE:HG12	1:157:A:LEU:HB3	7	1.08
(1,422)	1:61:A:ILE:HD11	1:61:A:ILE:HA	8	1.08
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD23	1	1.07
(2,82)	1:1:A:MET:HE2	1:78:A:LEU:HB2	4	1.07
(1,1153)	1:4:A:ILE:HD13	1:86:A:LYS:HE2	2	1.07
(1,1140)	1:41:A:LEU:HD21	1:45:A:MET:HG3	7	1.07
(2,260)	1:148:A:ILE:HG22	1:154:A:MET:HG3	6	1.06
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE2	6	1.06
(1,1153)	1:4:A:ILE:HD12	1:86:A:LYS:HE3	1	1.06
(1,1153)	1:4:A:ILE:HD11	1:86:A:LYS:HE3	5	1.06
(1,836)	1:76:A:GLU:HB3	1:64:A:VAL:HG21	8	1.06
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	3	1.06
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD11	5	1.06
(1,516)	1:162:A:ALA:HB3	1:158:A:LEU:HD11	4	1.06
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD13	7	1.06
(1,447)	1:1:A:MET:HE2	1:79:A:VAL:HG23	3	1.06
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	8	1.05
(2,111)	1:160:A:ALA:HB2	1:26:A:ILE:HD12	1	1.05
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	7	1.05
(1,1219)	1:138:A:PHE:HD2	1:139:A:LYS:HD2	5	1.05
(1,1153)	1:4:A:ILE:HD12	1:86:A:LYS:HE3	6	1.05
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG22	7	1.05
(1,511)	1:28:A:VAL:HG21	1:36:A:ILE:HD12	3	1.05
(1,477)	1:153:A:MET:HE3	1:44:A:VAL:HG13	2	1.05
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD1	1	1.04
(2,169)	1:152:A:ALA:HB2	1:155:A:GLN:HB2	3	1.04
(2,110)	1:28:A:VAL:HG21	1:29:A:LEU:HB2	4	1.04
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD12	4	1.04
(2,295)	1:148:A:ILE:HG22	1:77:A:PHE:HZ	5	1.03
(2,219)	1:28:A:VAL:HG11	1:43:A:LYS:HD3	3	1.03
(1,617)	1:29:A:LEU:HD11	1:157:A:LEU:HB3	8	1.03
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	5	1.03
(1,432)	1:148:A:ILE:HD11	1:45:A:MET:HB3	4	1.03
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG22	8	1.03
(2,300)	1:148:A:ILE:HD12	1:27:A:PHE:HE1	3	1.02
(2,270)	1:45:A:MET:HE2	1:148:A:ILE:HG12	8	1.02
(2,251)	1:148:A:ILE:HD13	1:147:A:ARG:HD2	7	1.02
(2,76)	1:61:A:ILE:HD11	1:38:A:THR:HB	4	1.02
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD11	1	1.02
(1,645)	1:157:A:LEU:HD13	1:153:A:MET:HG2	5	1.02

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG22	7	1.02
(2,235)	1:61:A:ILE:HD13	1:57:A:LEU:HA	5	1.01
(2,233)	1:85:A:MET:HG3	1:81:A:MET:HA	3	1.01
(1,574)	1:82:A:VAL:HG23	1:86:A:LYS:HB3	6	1.01
(2,300)	1:27:A:PHE:HE2	1:36:A:ILE:HG23	8	1.0
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD13	5	1.0
(2,76)	1:61:A:ILE:HD13	1:38:A:THR:HB	5	1.0
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	4	1.0
(1,1604)	2:201:A:9XG:HAF	1:61:A:ILE:HD12	7	1.0
(1,765)	1:7:A:ALA:HB1	1:10:A:GLU:HG2	6	1.0
(2,335)	1:81:A:MET:H	1:153:A:MET:HE2	4	0.99
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HB3	3	0.99
(2,253)	1:148:A:ILE:HG23	1:147:A:ARG:HD3	6	0.99
(2,129)	1:38:A:THR:HG21	1:60:A:MET:HE1	7	0.99
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD11	3	0.99
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	3	0.99
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD12	4	0.99
(1,518)	1:160:A:ALA:HB1	1:158:A:LEU:HD12	8	0.99
(1,449)	1:47:A:MET:HE1	1:157:A:LEU:HD23	1	0.99
(1,422)	1:61:A:ILE:HD13	1:61:A:ILE:HA	2	0.99
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	5	0.98
(2,103)	1:8:A:ALA:HB3	1:12:A:LEU:HG	6	0.98
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE3	1	0.98
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD23	6	0.97
(2,206)	1:6:A:LYS:HB2	1:6:A:LYS:HE3	4	0.97
(2,131)	1:82:A:VAL:HG22	1:86:A:LYS:HD3	2	0.97
(2,130)	1:71:A:THR:HG23	1:33:A:ASP:HB3	8	0.97
(2,110)	1:28:A:VAL:HG23	1:26:A:ILE:HG13	1	0.97
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD22	1	0.97
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE2	1	0.97
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	7	0.97
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD11	8	0.97
(1,183)	1:21:A:LYS:HA	1:21:A:LYS:HD2	3	0.97
(2,295)	1:148:A:ILE:HG22	1:77:A:PHE:HZ	4	0.96
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	8	0.96
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD22	2	0.96
(1,1219)	1:138:A:PHE:HD2	1:139:A:LYS:HD3	1	0.96
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	2	0.96
(1,874)	1:148:A:ILE:HG23	1:84:A:SER:HB2	8	0.96
(1,390)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	6	0.96
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD21	5	0.95
(2,42)	1:87:A:ASP:HA	1:86:A:LYS:HD3	7	0.95

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1231)	1:20:A:PHE:HE2	1:78:A:LEU:HD23	1	0.95
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD13	5	0.95
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG21	3	0.95
(1,874)	1:148:A:ILE:HG22	1:84:A:SER:HB2	7	0.95
(2,309)	1:39:A:LYS:H	1:37:A:SER:HB2	6	0.94
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD21	3	0.94
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD21	5	0.94
(2,110)	1:28:A:VAL:HG23	1:26:A:ILE:HG13	2	0.94
(2,110)	1:28:A:VAL:HG22	1:26:A:ILE:HG13	6	0.94
(2,102)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	8	0.94
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD21	6	0.94
(1,1150)	1:145:A:ARG:HD2	1:146:A:VAL:HG11	4	0.94
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	3	0.94
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE2	4	0.93
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	1	0.93
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	8	0.93
(1,1470)	1:57:A:LEU:H	1:56:A:GLU:HB2	8	0.93
(1,1073)	1:148:A:ILE:HD12	1:27:A:PHE:HE1	7	0.93
(1,1067)	1:145:A:ARG:HD3	1:145:A:ARG:HA	2	0.93
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD13	4	0.93
(2,300)	1:148:A:ILE:HD12	1:27:A:PHE:HE1	5	0.92
(2,270)	1:45:A:MET:HE3	1:148:A:ILE:HG12	7	0.92
(2,260)	1:148:A:ILE:HG23	1:154:A:MET:HG3	2	0.92
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	3	0.92
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD13	3	0.92
(2,169)	1:152:A:ALA:HB3	1:155:A:GLN:HB2	4	0.92
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD2	6	0.92
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE2	3	0.92
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD1	7	0.92
(1,874)	1:148:A:ILE:HG21	1:84:A:SER:HB2	4	0.92
(1,557)	1:79:A:VAL:HG13	1:5:A:TYR:HB3	5	0.92
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD11	6	0.92
(2,295)	1:148:A:ILE:HG22	1:77:A:PHE:HZ	1	0.91
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	8	0.91
(2,142)	1:157:A:LEU:HD21	1:26:A:ILE:HB	2	0.91
(2,76)	1:61:A:ILE:HD13	1:38:A:THR:HB	1	0.91
(2,70)	1:2:A:ASP:HB3	1:79:A:VAL:HG21	1	0.91
(2,70)	1:2:A:ASP:HB3	1:79:A:VAL:HG22	4	0.91
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE2	8	0.91
(1,1153)	1:4:A:ILE:HD11	1:86:A:LYS:HE3	3	0.91
(1,1152)	1:148:A:ILE:HD13	1:148:A:ILE:HA	7	0.91
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD12	1	0.91

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,515)	1:23:A:ALA:HB2	1:157:A:LEU:HD23	3	0.91
(1,449)	1:47:A:MET:HE3	1:157:A:LEU:HD22	5	0.91
(1,432)	1:148:A:ILE:HD13	1:45:A:MET:HB3	1	0.91
(1,432)	1:148:A:ILE:HD12	1:45:A:MET:HB3	2	0.91
(2,335)	1:81:A:MET:H	1:153:A:MET:HE3	1	0.9
(2,256)	1:22:A:ALA:HB2	1:20:A:PHE:HD2	2	0.9
(2,256)	1:22:A:ALA:HB3	1:20:A:PHE:HD2	4	0.9
(2,220)	1:50:A:GLN:HB2	1:146:A:VAL:HG11	5	0.9
(2,219)	1:28:A:VAL:HG13	1:43:A:LYS:HD3	6	0.9
(2,206)	1:6:A:LYS:HB3	1:6:A:LYS:HE2	8	0.9
(2,123)	1:146:A:VAL:HG12	1:144:A:ARG:HA	5	0.9
(1,1154)	1:4:A:ILE:HD13	1:2:A:ASP:HB2	4	0.9
(1,548)	1:79:A:VAL:HA	1:82:A:VAL:HG11	2	0.9
(2,260)	1:148:A:ILE:HG21	1:154:A:MET:HG2	7	0.89
(2,94)	1:154:A:MET:HE3	1:154:A:MET:HA	7	0.89
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG22	5	0.89
(1,1115)	1:162:A:ALA:HB1	1:163:A:LYS:HE2	7	0.89
(1,1113)	1:22:A:ALA:HB2	1:25:A:ASP:HB2	4	0.89
(1,489)	1:45:A:MET:HE3	1:146:A:VAL:HG11	5	0.89
(1,179)	1:155:A:GLN:HA	1:158:A:LEU:HB2	6	0.89
(2,295)	1:148:A:ILE:HG23	1:77:A:PHE:HZ	3	0.88
(2,274)	1:36:A:ILE:HG23	1:71:A:THR:HB	2	0.88
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	1	0.88
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	5	0.88
(1,1208)	1:148:A:ILE:HD12	1:27:A:PHE:HZ	8	0.88
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG22	1	0.88
(1,1103)	1:143:A:LEU:HD11	1:143:A:LEU:HA	8	0.88
(1,539)	1:142:A:THR:HG23	1:140:A:ARG:HD3	6	0.88
(1,422)	1:61:A:ILE:HD12	1:61:A:ILE:HA	1	0.88
(2,206)	1:6:A:LYS:HB2	1:6:A:LYS:HE2	2	0.87
(2,111)	1:160:A:ALA:HB3	1:26:A:ILE:HD11	4	0.87
(2,76)	1:61:A:ILE:HD11	1:38:A:THR:HB	2	0.87
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD23	6	0.87
(1,1470)	1:57:A:LEU:H	1:56:A:GLU:HB2	7	0.87
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE3	6	0.87
(1,1103)	1:143:A:LEU:HD11	1:143:A:LEU:HA	7	0.87
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE2	5	0.87
(1,539)	1:142:A:THR:HG23	1:140:A:ARG:HD3	5	0.87
(1,518)	1:160:A:ALA:HB3	1:158:A:LEU:HD13	3	0.87
(1,432)	1:148:A:ILE:HD13	1:45:A:MET:HB3	3	0.87
(2,291)	1:89:A:SER:HA	1:139:A:LYS:HE2	2	0.86
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD11	2	0.86

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE1	8	0.86
(2,233)	1:85:A:MET:HG3	1:81:A:MET:HA	7	0.86
(2,110)	1:28:A:VAL:HG21	1:26:A:ILE:HG13	3	0.86
(2,110)	1:28:A:VAL:HG22	1:26:A:ILE:HG13	5	0.86
(2,102)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	7	0.86
(2,101)	1:156:A:ALA:HB1	1:47:A:MET:HB2	7	0.86
(1,1113)	1:22:A:ALA:HB1	1:25:A:ASP:HB2	2	0.86
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD1	4	0.86
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	8	0.86
(1,625)	1:78:A:LEU:HD21	1:81:A:MET:HG2	5	0.86
(1,511)	1:28:A:VAL:HG23	1:36:A:ILE:HD13	2	0.86
(1,422)	1:61:A:ILE:HD13	1:61:A:ILE:HA	4	0.86
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	4	0.85
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	6	0.85
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD21	3	0.85
(1,1219)	1:138:A:PHE:HD1	1:139:A:LYS:HD3	3	0.85
(1,1115)	1:162:A:ALA:HB1	1:163:A:LYS:HE2	1	0.85
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	4	0.85
(1,920)	1:41:A:LEU:HD12	1:77:A:PHE:HD2	6	0.85
(1,798)	1:45:A:MET:HG2	1:148:A:ILE:HG13	6	0.85
(1,640)	1:78:A:LEU:HD13	1:78:A:LEU:HA	7	0.85
(1,505)	1:156:A:ALA:HB2	1:157:A:LEU:HD21	3	0.85
(1,444)	1:85:A:MET:HE2	1:81:A:MET:HB3	8	0.85
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	7	0.85
(2,300)	1:148:A:ILE:HD12	1:27:A:PHE:HE2	2	0.84
(2,210)	1:44:A:VAL:HB	1:48:A:LEU:HD22	7	0.84
(2,7)	1:44:A:VAL:HA	1:148:A:ILE:HD13	5	0.84
(1,1153)	1:4:A:ILE:HD11	1:86:A:LYS:HE3	4	0.84
(1,1152)	1:148:A:ILE:HD11	1:148:A:ILE:HA	5	0.84
(1,1111)	1:153:A:MET:HE1	1:44:A:VAL:HG21	8	0.84
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD11	8	0.84
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD13	6	0.84
(1,920)	1:41:A:LEU:HD12	1:77:A:PHE:HD2	7	0.84
(1,516)	1:162:A:ALA:HB2	1:158:A:LEU:HD11	2	0.84
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	6	0.84
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD11	1	0.83
(2,137)	1:48:A:LEU:HD22	1:45:A:MET:HA	7	0.83
(2,124)	1:45:A:MET:HE2	1:146:A:VAL:HG12	2	0.83
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	3	0.83
(1,1615)	2:201:A:9XG:HAJ	1:60:A:MET:HE3	7	0.83
(1,1153)	1:4:A:ILE:HD13	1:86:A:LYS:HE2	7	0.83
(1,1152)	1:148:A:ILE:HD12	1:148:A:ILE:HA	1	0.83

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG22	7	0.83
(1,476)	1:153:A:MET:HE2	1:148:A:ILE:HG21	8	0.83
(2,32)	1:21:A:LYS:HA	1:21:A:LYS:HB3	3	0.82
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD21	4	0.82
(1,1152)	1:148:A:ILE:HD13	1:148:A:ILE:HA	2	0.82
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE3	7	0.82
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG22	4	0.82
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE2	6	0.82
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD11	5	0.82
(1,653)	1:48:A:LEU:HD11	1:44:A:VAL:HG21	8	0.82
(2,335)	1:81:A:MET:H	1:1:A:MET:HE2	5	0.81
(2,321)	1:56:A:GLU:H	1:56:A:GLU:HG3	7	0.81
(2,220)	1:50:A:GLN:HB2	1:146:A:VAL:HG13	4	0.81
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	1	0.81
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG21	1	0.81
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG23	3	0.81
(1,696)	1:41:A:LEU:HD21	1:60:A:MET:HB2	6	0.81
(1,551)	1:82:A:VAL:HG11	1:5:A:TYR:HB2	2	0.81
(1,524)	1:31:A:ALA:HB1	1:28:A:VAL:HG11	7	0.81
(1,494)	1:81:A:MET:HE1	1:81:A:MET:HB3	8	0.81
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG13	1	0.81
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG12	3	0.81
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD23	7	0.8
(2,219)	1:28:A:VAL:HG13	1:43:A:LYS:HD3	4	0.8
(2,131)	1:82:A:VAL:HG21	1:86:A:LYS:HD2	8	0.8
(2,42)	1:2:A:ASP:HA	1:6:A:LYS:HD2	6	0.8
(1,1152)	1:148:A:ILE:HD11	1:148:A:ILE:HA	3	0.8
(1,647)	1:157:A:LEU:HD11	1:157:A:LEU:HB2	8	0.8
(1,549)	1:9:A:VAL:HG11	1:79:A:VAL:HA	4	0.8
(1,515)	1:23:A:ALA:HB3	1:157:A:LEU:HD21	4	0.8
(1,489)	1:45:A:MET:HE2	1:146:A:VAL:HG12	2	0.8
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	3	0.8
(2,335)	1:81:A:MET:H	1:1:A:MET:HE3	3	0.79
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD22	4	0.79
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	2	0.79
(2,142)	1:157:A:LEU:HD21	1:26:A:ILE:HB	5	0.79
(1,1152)	1:148:A:ILE:HD13	1:148:A:ILE:HA	8	0.79
(1,1113)	1:22:A:ALA:HB3	1:25:A:ASP:HB2	5	0.79
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG22	3	0.79
(1,539)	1:142:A:THR:HG21	1:140:A:ARG:HD3	4	0.79
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG23	4	0.79
(2,302)	1:17:A:LYS:HG2	1:74:A:PHE:HE2	3	0.78

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,300)	1:148:A:ILE:HD13	1:27:A:PHE:HE1	1	0.78
(2,284)	1:64:A:VAL:HG13	1:1:A:MET:HE3	4	0.78
(2,186)	1:36:A:ILE:HG21	1:72:A:VAL:HB	3	0.78
(2,112)	1:156:A:ALA:HB1	1:47:A:MET:HG2	1	0.78
(2,104)	1:150:A:ALA:HB3	1:85:A:MET:HB2	6	0.78
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	6	0.78
(1,1152)	1:148:A:ILE:HD12	1:148:A:ILE:HA	4	0.78
(1,1113)	1:22:A:ALA:HB3	1:25:A:ASP:HB2	1	0.78
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	3	0.78
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	4	0.78
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD21	1	0.77
(2,243)	1:78:A:LEU:HD11	1:81:A:MET:HE1	5	0.77
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB2	6	0.77
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB2	3	0.77
(2,131)	1:82:A:VAL:HG23	1:86:A:LYS:HD2	5	0.77
(2,124)	1:146:A:VAL:HG12	1:145:A:ARG:HB2	5	0.77
(2,82)	1:1:A:MET:HE2	1:78:A:LEU:HB2	7	0.77
(2,11)	1:4:A:ILE:HA	1:2:A:ASP:HB3	5	0.77
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	7	0.77
(1,753)	1:55:A:GLU:HA	1:55:A:GLU:HG2	7	0.77
(1,704)	1:155:A:GLN:HB3	1:152:A:ALA:HA	6	0.77
(1,653)	1:48:A:LEU:HD12	1:44:A:VAL:HG22	1	0.77
(1,647)	1:157:A:LEU:HD12	1:157:A:LEU:HB2	1	0.77
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG13	7	0.77
(1,422)	1:61:A:ILE:HD11	1:61:A:ILE:HA	5	0.77
(2,300)	1:27:A:PHE:HE2	1:36:A:ILE:HG21	4	0.76
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD23	2	0.76
(2,219)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	1	0.76
(2,186)	1:36:A:ILE:HG23	1:72:A:VAL:HB	4	0.76
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	3	0.76
(2,143)	1:143:A:LEU:HD21	1:59:A:GLU:HB3	8	0.76
(2,124)	1:45:A:MET:HE3	1:146:A:VAL:HG12	6	0.76
(2,103)	1:8:A:ALA:HB2	1:12:A:LEU:HG	4	0.76
(2,48)	1:50:A:GLN:HA	1:46:A:ARG:HG3	6	0.76
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	2	0.76
(1,1621)	2:201:A:9XG:HAB	1:60:A:MET:HE1	6	0.76
(1,1613)	2:201:A:9XG:HAJ	1:64:A:VAL:HG22	7	0.76
(1,1604)	2:201:A:9XG:HAF	1:61:A:ILE:HD13	4	0.76
(1,1195)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	5	0.76
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE2	8	0.76
(1,1113)	1:22:A:ALA:HB3	1:25:A:ASP:HB2	3	0.76
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD11	7	0.76

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE2	5	0.76
(1,815)	1:80:A:MET:HG3	1:84:A:SER:HB2	6	0.76
(1,625)	1:78:A:LEU:HD23	1:81:A:MET:HG2	4	0.76
(1,524)	1:31:A:ALA:HB1	1:28:A:VAL:HG13	8	0.76
(1,494)	1:81:A:MET:HE1	1:81:A:MET:HB3	7	0.76
(1,481)	1:154:A:MET:HE3	1:151:A:ASP:HB2	6	0.76
(1,446)	1:1:A:MET:HE3	1:6:A:LYS:HG3	5	0.76
(1,441)	1:61:A:ILE:HG22	1:38:A:THR:HG23	4	0.76
(2,277)	1:64:A:VAL:HG21	1:65:A:ASP:HB3	7	0.75
(2,138)	1:48:A:LEU:HD22	1:47:A:MET:HB2	3	0.75
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD22	8	0.75
(2,102)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	6	0.75
(1,1297)	1:19:A:GLU:H	1:19:A:GLU:HB3	8	0.75
(1,1231)	1:20:A:PHE:HE2	1:78:A:LEU:HD22	5	0.75
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG21	6	0.75
(1,640)	1:78:A:LEU:HD13	1:78:A:LEU:HA	3	0.75
(1,486)	1:45:A:MET:HE2	1:60:A:MET:HG3	7	0.75
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD2	6	0.74
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	2	0.74
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG13	8	0.74
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD12	3	0.74
(2,103)	1:8:A:ALA:HB2	1:12:A:LEU:HG	5	0.74
(2,96)	1:154:A:MET:HE1	1:155:A:GLN:HA	1	0.74
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	8	0.74
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD11	1	0.74
(1,1152)	1:148:A:ILE:HD12	1:148:A:ILE:HA	6	0.74
(1,1106)	1:60:A:MET:HE1	1:147:A:ARG:HA	6	0.74
(1,1085)	1:26:A:ILE:HD12	1:25:A:ASP:HB2	8	0.74
(1,1079)	1:157:A:LEU:HD11	1:27:A:PHE:HB3	3	0.74
(1,1064)	1:137:A:LYS:HB3	1:138:A:PHE:HD2	2	0.74
(1,874)	1:148:A:ILE:HG22	1:84:A:SER:HB2	3	0.74
(2,295)	1:148:A:ILE:HG22	1:77:A:PHE:HZ	2	0.73
(2,274)	1:36:A:ILE:HG22	1:71:A:THR:HB	6	0.73
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	3	0.73
(2,146)	1:29:A:LEU:HD23	1:26:A:ILE:HB	4	0.73
(2,137)	1:48:A:LEU:HD21	1:156:A:ALA:HA	8	0.73
(2,92)	1:153:A:MET:HE1	1:23:A:ALA:HA	8	0.73
(2,42)	1:2:A:ASP:HA	1:4:A:ILE:HB	5	0.73
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	4	0.73
(1,1111)	1:153:A:MET:HE2	1:44:A:VAL:HG23	6	0.73
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD12	1	0.73
(1,647)	1:157:A:LEU:HD12	1:157:A:LEU:HB2	2	0.73

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:82:A:VAL:HG23	1:5:A:TYR:HA	4	0.73
(1,489)	1:45:A:MET:HE3	1:146:A:VAL:HG12	6	0.73
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG22	5	0.73
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD13	7	0.73
(2,260)	1:148:A:ILE:HG23	1:154:A:MET:HG3	5	0.72
(2,180)	1:155:A:GLN:HG3	1:158:A:LEU:HB2	8	0.72
(2,151)	1:29:A:LEU:HD13	1:26:A:ILE:HB	7	0.72
(2,102)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	2	0.72
(2,81)	1:1:A:MET:HE2	1:6:A:LYS:HG2	8	0.72
(1,1297)	1:19:A:GLU:H	1:19:A:GLU:HB3	6	0.72
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG23	5	0.72
(1,1064)	1:137:A:LYS:HB2	1:138:A:PHE:HD1	1	0.72
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	2	0.72
(1,753)	1:55:A:GLU:HA	1:55:A:GLU:HG2	8	0.72
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	8	0.72
(1,505)	1:156:A:ALA:HB3	1:157:A:LEU:HD22	4	0.72
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG13	5	0.72
(1,452)	1:85:A:MET:HE3	1:86:A:LYS:HE2	1	0.72
(2,186)	1:36:A:ILE:HG22	1:72:A:VAL:HB	5	0.71
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG13	3	0.71
(2,85)	1:85:A:MET:HE1	1:150:A:ALA:HA	3	0.71
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD22	2	0.71
(1,1473)	1:60:A:MET:H	1:60:A:MET:HG3	7	0.71
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG23	7	0.71
(1,647)	1:157:A:LEU:HD11	1:157:A:LEU:HB2	5	0.71
(1,625)	1:78:A:LEU:HD23	1:81:A:MET:HG2	6	0.71
(1,475)	1:153:A:MET:HE3	1:154:A:MET:HG2	7	0.71
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD11	4	0.71
(2,256)	1:22:A:ALA:HB1	1:20:A:PHE:HD1	3	0.7
(2,156)	1:157:A:LEU:HD13	1:153:A:MET:HA	6	0.7
(1,1604)	2:201:A:9XG:HAE	1:61:A:ILE:HD12	6	0.7
(1,1115)	1:162:A:ALA:HB3	1:163:A:LYS:HE3	2	0.7
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD13	7	0.7
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	7	0.7
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	4	0.7
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG23	1	0.7
(1,516)	1:162:A:ALA:HB1	1:158:A:LEU:HD13	5	0.7
(1,441)	1:61:A:ILE:HG22	1:38:A:THR:HG21	2	0.7
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE3	5	0.7
(2,173)	1:18:A:ASN:HB3	1:19:A:GLU:HB3	8	0.69
(2,142)	1:157:A:LEU:HD22	1:26:A:ILE:HB	1	0.69
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG11	6	0.69

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,93)	1:153:A:MET:HE2	1:150:A:ALA:HA	8	0.69
(2,6)	1:38:A:THR:HA	1:57:A:LEU:HD13	7	0.69
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG22	1	0.69
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG23	8	0.69
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	3	0.69
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	1	0.69
(1,422)	1:61:A:ILE:HD12	1:61:A:ILE:HA	3	0.69
(2,138)	1:48:A:LEU:HD23	1:153:A:MET:HG3	6	0.68
(2,103)	1:8:A:ALA:HB2	1:82:A:VAL:HB	2	0.68
(1,1473)	1:60:A:MET:H	1:60:A:MET:HG3	8	0.68
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG12	5	0.68
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE3	5	0.68
(1,1111)	1:153:A:MET:HE1	1:44:A:VAL:HG21	5	0.68
(1,1076)	1:157:A:LEU:HD23	1:27:A:PHE:HB3	5	0.68
(1,920)	1:41:A:LEU:HD11	1:77:A:PHE:HD1	8	0.68
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	6	0.68
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	1	0.68
(1,516)	1:162:A:ALA:HB3	1:158:A:LEU:HD11	1	0.68
(1,476)	1:153:A:MET:HE3	1:148:A:ILE:HG23	7	0.68
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG23	3	0.68
(1,430)	1:148:A:ILE:HD12	1:153:A:MET:HE3	6	0.68
(2,277)	1:64:A:VAL:HG21	1:65:A:ASP:HB3	2	0.67
(2,260)	1:148:A:ILE:HG23	1:154:A:MET:HG3	1	0.67
(2,186)	1:36:A:ILE:HG22	1:72:A:VAL:HB	1	0.67
(2,175)	1:64:A:VAL:HG22	1:63:A:GLU:HG2	8	0.67
(2,138)	1:48:A:LEU:HD23	1:153:A:MET:HG2	8	0.67
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG12	4	0.67
(2,96)	1:154:A:MET:HE1	1:155:A:GLN:HA	3	0.67
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG23	2	0.67
(1,1195)	1:4:A:ILE:HD13	1:5:A:TYR:HD2	8	0.67
(1,1028)	1:35:A:SER:HB2	1:73:A:ASP:HB3	1	0.67
(1,1028)	1:35:A:SER:HB2	1:73:A:ASP:HB3	4	0.67
(1,698)	1:41:A:LEU:HB3	1:41:A:LEU:HD21	8	0.67
(1,625)	1:78:A:LEU:HD22	1:81:A:MET:HG2	1	0.67
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG21	2	0.67
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG11	4	0.67
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG21	6	0.67
(2,275)	1:44:A:VAL:HG22	1:156:A:ALA:HB1	6	0.66
(2,204)	1:89:A:SER:HB2	1:137:A:LYS:HD3	5	0.66
(2,180)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	6	0.66
(2,155)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	5	0.66
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG13	5	0.66

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,112)	1:150:A:ALA:HB1	1:85:A:MET:HG2	2	0.66
(2,83)	1:47:A:MET:HE3	1:26:A:ILE:HG23	8	0.66
(2,17)	1:15:A:GLU:HA	1:15:A:GLU:HG2	7	0.66
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	1	0.66
(1,1115)	1:162:A:ALA:HB2	1:163:A:LYS:HE2	6	0.66
(1,977)	1:44:A:VAL:HA	1:27:A:PHE:HZ	7	0.66
(1,874)	1:148:A:ILE:HG21	1:84:A:SER:HB2	5	0.66
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	5	0.66
(1,742)	1:56:A:GLU:HG3	1:56:A:GLU:HA	7	0.66
(1,571)	1:35:A:SER:HB2	1:71:A:THR:HG23	7	0.66
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	6	0.66
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	5	0.66
(2,302)	1:21:A:LYS:HD3	1:74:A:PHE:HE1	1	0.65
(2,181)	1:50:A:GLN:HG3	1:52:A:PRO:HD2	4	0.65
(2,142)	1:47:A:MET:HE2	1:157:A:LEU:HD23	8	0.65
(2,111)	1:160:A:ALA:HB1	1:26:A:ILE:HD13	8	0.65
(2,98)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	4	0.65
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG22	2	0.65
(2,89)	1:23:A:ALA:HA	1:26:A:ILE:HG22	6	0.65
(1,1619)	2:201:A:9XG:HAK	1:60:A:MET:HE2	6	0.65
(1,1130)	1:158:A:LEU:HD11	1:155:A:GLN:HA	8	0.65
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG23	2	0.65
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG23	4	0.65
(1,1076)	1:157:A:LEU:HD23	1:27:A:PHE:HB3	2	0.65
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE3	4	0.65
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	6	0.64
(2,260)	1:148:A:ILE:HG23	1:154:A:MET:HG3	4	0.64
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	2	0.64
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	5	0.64
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD21	1	0.64
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	6	0.64
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	8	0.64
(2,118)	1:72:A:VAL:HG12	1:73:A:ASP:HB3	7	0.64
(2,112)	1:150:A:ALA:HB3	1:85:A:MET:HG2	5	0.64
(2,96)	1:154:A:MET:HE3	1:155:A:GLN:HA	2	0.64
(2,6)	1:38:A:THR:HA	1:57:A:LEU:HD13	8	0.64
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	6	0.64
(1,1154)	1:4:A:ILE:HD13	1:2:A:ASP:HB2	3	0.64
(1,1085)	1:26:A:ILE:HD12	1:25:A:ASP:HB2	3	0.64
(1,698)	1:41:A:LEU:HB3	1:41:A:LEU:HD22	7	0.64
(1,547)	1:9:A:VAL:HG11	1:9:A:VAL:HA	7	0.64
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG22	1	0.64

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,441)	1:61:A:ILE:HG21	1:38:A:THR:HG23	6	0.64
(2,259)	1:61:A:ILE:HD13	1:40:A:GLU:HB3	8	0.63
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG13	1	0.63
(2,140)	1:41:A:LEU:HD12	1:153:A:MET:HE3	2	0.63
(2,138)	1:48:A:LEU:HD22	1:153:A:MET:HG2	1	0.63
(2,138)	1:48:A:LEU:HD22	1:153:A:MET:HG2	5	0.63
(2,96)	1:154:A:MET:HE1	1:155:A:GLN:HA	4	0.63
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	3	0.63
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	5	0.63
(2,81)	1:1:A:MET:HE3	1:6:A:LYS:HG2	7	0.63
(2,42)	1:2:A:ASP:HA	1:6:A:LYS:HD3	3	0.63
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	7	0.63
(1,1615)	2:201:A:9XG:HAL	1:60:A:MET:HE1	6	0.63
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	6	0.63
(1,1231)	1:20:A:PHE:HE1	1:78:A:LEU:HD23	8	0.63
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD11	2	0.63
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD12	8	0.63
(1,1154)	1:4:A:ILE:HD11	1:2:A:ASP:HB2	1	0.63
(1,1120)	1:81:A:MET:HE2	1:77:A:PHE:HD1	2	0.63
(1,1076)	1:157:A:LEU:HD21	1:27:A:PHE:HB3	1	0.63
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	7	0.63
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	6	0.63
(1,612)	1:21:A:LYS:HE2	1:21:A:LYS:HG2	6	0.63
(1,609)	1:57:A:LEU:HD21	1:45:A:MET:HG2	5	0.63
(1,600)	1:41:A:LEU:HD13	1:41:A:LEU:HB3	4	0.63
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG22	7	0.63
(1,494)	1:81:A:MET:HE1	1:81:A:MET:HB3	3	0.63
(1,488)	1:45:A:MET:HE2	1:45:A:MET:HG2	1	0.63
(1,442)	1:85:A:MET:HE3	1:150:A:ALA:HB2	6	0.63
(2,309)	1:39:A:LYS:H	1:38:A:THR:HB	8	0.62
(2,282)	1:45:A:MET:HG2	1:41:A:LEU:HD22	8	0.62
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG13	1	0.62
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG23	1	0.62
(2,81)	1:1:A:MET:HE2	1:6:A:LYS:HG2	3	0.62
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG23	6	0.62
(1,1085)	1:26:A:ILE:HD13	1:25:A:ASP:HB2	2	0.62
(1,1076)	1:157:A:LEU:HD21	1:27:A:PHE:HB3	8	0.62
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	3	0.62
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	7	0.62
(1,867)	1:32:A:GLU:HB2	1:33:A:ASP:HB2	8	0.62
(1,826)	1:11:A:GLN:HB2	1:7:A:ALA:HB3	4	0.62
(1,753)	1:55:A:GLU:HA	1:55:A:GLU:HG2	6	0.62

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:158:A:LEU:HD12	1:158:A:LEU:HA	7	0.62
(1,625)	1:78:A:LEU:HD21	1:81:A:MET:HG2	2	0.62
(1,600)	1:41:A:LEU:HD13	1:41:A:LEU:HB3	2	0.62
(1,539)	1:142:A:THR:HG23	1:140:A:ARG:HD3	3	0.62
(1,511)	1:28:A:VAL:HG23	1:36:A:ILE:HD13	1	0.62
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG22	6	0.62
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG22	8	0.62
(1,488)	1:45:A:MET:HE2	1:45:A:MET:HG2	4	0.62
(1,488)	1:45:A:MET:HE1	1:45:A:MET:HG2	8	0.62
(1,457)	1:1:A:MET:HE2	1:5:A:TYR:HB2	1	0.62
(1,423)	1:61:A:ILE:HD13	1:72:A:VAL:HB	6	0.62
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	6	0.62
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	7	0.62
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	1	0.62
(2,321)	1:56:A:GLU:H	1:56:A:GLU:HG3	8	0.61
(2,260)	1:148:A:ILE:HG22	1:154:A:MET:HG2	8	0.61
(2,186)	1:36:A:ILE:HG22	1:72:A:VAL:HB	6	0.61
(2,153)	1:78:A:LEU:HD21	1:17:A:LYS:HG3	3	0.61
(2,124)	1:146:A:VAL:HG13	1:145:A:ARG:HB3	1	0.61
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD13	1	0.61
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD21	2	0.61
(2,84)	1:85:A:MET:HE3	1:85:A:MET:HA	6	0.61
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD23	8	0.61
(1,1236)	1:74:A:PHE:HE2	1:78:A:LEU:HD21	7	0.61
(1,1120)	1:81:A:MET:HE2	1:77:A:PHE:HD2	1	0.61
(1,1113)	1:22:A:ALA:HB3	1:25:A:ASP:HB2	6	0.61
(1,917)	1:41:A:LEU:HD13	1:27:A:PHE:HZ	7	0.61
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	8	0.61
(1,840)	1:141:A:PRO:HD2	1:140:A:ARG:HB3	4	0.61
(1,600)	1:41:A:LEU:HD11	1:41:A:LEU:HB3	3	0.61
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	8	0.61
(1,547)	1:9:A:VAL:HG12	1:9:A:VAL:HA	6	0.61
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG23	2	0.61
(1,386)	1:78:A:LEU:HB2	1:78:A:LEU:HD23	3	0.61
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD11	7	0.61
(2,277)	1:64:A:VAL:HG22	1:65:A:ASP:HB3	4	0.6
(2,274)	1:36:A:ILE:HG23	1:71:A:THR:HB	4	0.6
(2,274)	1:36:A:ILE:HG21	1:71:A:THR:HB	7	0.6
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	1	0.6
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD22	4	0.6
(2,88)	1:4:A:ILE:HG22	1:139:A:LYS:HB3	1	0.6
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD12	6	0.6

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:2:A:ASP:HB3	1:4:A:ILE:HG13	5	0.6
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HB3	2	0.6
(1,1171)	1:1:A:MET:HG3	1:6:A:LYS:HG2	4	0.6
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE3	6	0.6
(1,1097)	1:71:A:THR:HB	1:61:A:ILE:HG21	5	0.6
(1,1085)	1:26:A:ILE:HD11	1:25:A:ASP:HB2	1	0.6
(1,742)	1:56:A:GLU:HG3	1:56:A:GLU:HA	8	0.6
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD11	1	0.6
(1,600)	1:41:A:LEU:HD11	1:41:A:LEU:HB3	5	0.6
(1,547)	1:9:A:VAL:HG13	1:9:A:VAL:HA	8	0.6
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	7	0.6
(1,457)	1:1:A:MET:HE1	1:5:A:TYR:HB2	4	0.6
(1,448)	1:1:A:MET:HE3	1:79:A:VAL:HG12	6	0.6
(1,434)	1:4:A:ILE:HD11	1:4:A:ILE:HB	8	0.6
(1,365)	1:17:A:LYS:HE3	1:9:A:VAL:HG22	8	0.6
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG3	7	0.6
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD2	8	0.6
(2,279)	1:19:A:GLU:HA	1:158:A:LEU:HD12	7	0.59
(2,274)	1:36:A:ILE:HG23	1:71:A:THR:HB	3	0.59
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HG3	8	0.59
(2,231)	1:155:A:GLN:HB3	1:48:A:LEU:HD21	7	0.59
(2,219)	1:28:A:VAL:HG12	1:29:A:LEU:HB2	8	0.59
(2,140)	1:41:A:LEU:HD12	1:153:A:MET:HE1	7	0.59
(2,104)	1:150:A:ALA:HB2	1:85:A:MET:HB2	8	0.59
(2,98)	1:7:A:ALA:HB3	1:4:A:ILE:HG12	5	0.59
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	7	0.59
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD2	3	0.59
(1,1068)	1:142:A:THR:HA	1:141:A:PRO:HD2	6	0.59
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG22	2	0.59
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG23	6	0.59
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD11	5	0.59
(1,547)	1:9:A:VAL:HG13	1:9:A:VAL:HA	5	0.59
(1,511)	1:28:A:VAL:HG22	1:36:A:ILE:HD12	5	0.59
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG21	5	0.59
(1,489)	1:45:A:MET:HE1	1:146:A:VAL:HG12	1	0.59
(1,484)	1:45:A:MET:HE1	1:45:A:MET:HA	3	0.59
(1,434)	1:4:A:ILE:HD13	1:4:A:ILE:HB	5	0.59
(1,434)	1:4:A:ILE:HD11	1:4:A:ILE:HB	6	0.59
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG3	8	0.59
(2,274)	1:36:A:ILE:HG21	1:71:A:THR:HB	1	0.58
(2,274)	1:36:A:ILE:HG21	1:71:A:THR:HB	8	0.58
(2,267)	1:60:A:MET:HG3	1:143:A:LEU:HD13	2	0.58

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	2	0.58
(2,251)	1:148:A:ILE:HD11	1:147:A:ARG:HD2	2	0.58
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD22	6	0.58
(2,101)	1:156:A:ALA:HB3	1:47:A:MET:HB2	6	0.58
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD13	5	0.58
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG22	7	0.58
(1,1079)	1:157:A:LEU:HD11	1:27:A:PHE:HB3	4	0.58
(1,1006)	1:37:A:SER:HB3	1:61:A:ILE:HD13	6	0.58
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG13	4	0.58
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	7	0.58
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD13	2	0.58
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD12	6	0.58
(1,558)	1:79:A:VAL:HG13	1:5:A:TYR:HB2	5	0.58
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG23	3	0.58
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG21	6	0.58
(1,457)	1:1:A:MET:HE2	1:5:A:TYR:HB2	8	0.58
(1,441)	1:61:A:ILE:HG23	1:38:A:THR:HG22	8	0.58
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	8	0.58
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD23	8	0.57
(2,243)	1:78:A:LEU:HD12	1:81:A:MET:HE2	6	0.57
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	2	0.57
(2,151)	1:29:A:LEU:HD11	1:26:A:ILE:HB	8	0.57
(2,140)	1:41:A:LEU:HD11	1:153:A:MET:HE3	8	0.57
(2,86)	1:76:A:GLU:HA	1:1:A:MET:HE3	3	0.57
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD12	4	0.57
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	4	0.57
(1,1604)	2:201:A:9XG:HAE	1:61:A:ILE:HD12	3	0.57
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD2	1	0.57
(1,1085)	1:26:A:ILE:HD11	1:25:A:ASP:HB2	5	0.57
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	7	0.57
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	8	0.57
(1,918)	1:78:A:LEU:HD22	1:77:A:PHE:HD2	1	0.57
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	2	0.57
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB2	8	0.57
(1,547)	1:9:A:VAL:HG13	1:9:A:VAL:HA	3	0.57
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG22	1	0.57
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG21	2	0.57
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG23	7	0.57
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG21	8	0.57
(1,434)	1:4:A:ILE:HD11	1:4:A:ILE:HB	1	0.57
(1,434)	1:4:A:ILE:HD12	1:4:A:ILE:HB	2	0.57
(1,434)	1:4:A:ILE:HD13	1:4:A:ILE:HB	3	0.57

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:48:A:LEU:HA	1:156:A:ALA:HB2	6	0.57
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	7	0.57
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG11	5	0.57
(2,309)	1:39:A:LYS:H	1:37:A:SER:HB2	2	0.56
(2,269)	1:22:A:ALA:HB1	1:25:A:ASP:HB3	2	0.56
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	3	0.56
(2,146)	1:29:A:LEU:HD21	1:26:A:ILE:HB	2	0.56
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG12	5	0.56
(2,96)	1:154:A:MET:HE3	1:155:A:GLN:HA	5	0.56
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE1	7	0.56
(2,7)	1:44:A:VAL:HA	1:148:A:ILE:HD11	4	0.56
(1,1614)	2:201:A:9XG:HAK	1:64:A:VAL:HG23	8	0.56
(1,1595)	1:154:A:MET:HE3	1:20:A:PHE:HB3	4	0.56
(1,1090)	1:78:A:LEU:HD13	1:74:A:PHE:HD2	5	0.56
(1,1064)	1:137:A:LYS:HB3	1:138:A:PHE:HD2	5	0.56
(1,984)	1:51:A:ASN:HB3	1:46:A:ARG:HG2	1	0.56
(1,874)	1:148:A:ILE:HG21	1:84:A:SER:HB2	1	0.56
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	5	0.56
(1,575)	1:158:A:LEU:HD22	1:161:A:ARG:HD3	6	0.56
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG13	1	0.56
(1,509)	1:28:A:VAL:HA	1:28:A:VAL:HG21	4	0.56
(1,423)	1:61:A:ILE:HD13	1:72:A:VAL:HB	2	0.56
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE1	1	0.56
(1,102)	1:55:A:GLU:HA	1:55:A:GLU:HG3	2	0.56
(2,269)	1:22:A:ALA:HB3	1:25:A:ASP:HB3	6	0.55
(2,260)	1:148:A:ILE:HG21	1:154:A:MET:HG3	3	0.55
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	4	0.55
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD23	3	0.55
(2,195)	1:19:A:GLU:HA	1:19:A:GLU:HB3	4	0.55
(2,112)	1:156:A:ALA:HB1	1:47:A:MET:HG2	3	0.55
(2,99)	1:81:A:MET:HE2	1:20:A:PHE:HD1	1	0.55
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	4	0.55
(2,81)	1:1:A:MET:HE3	1:6:A:LYS:HG2	5	0.55
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE3	7	0.55
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD11	8	0.55
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE1	2	0.55
(1,1195)	1:4:A:ILE:HD12	1:5:A:TYR:HD1	7	0.55
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG23	6	0.55
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	6	0.55
(1,877)	1:57:A:LEU:HA	1:60:A:MET:HE3	8	0.55
(1,799)	1:148:A:ILE:HD11	1:45:A:MET:HG2	8	0.55
(1,775)	1:11:A:GLN:HG3	1:11:A:GLN:HA	6	0.55

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,743)	1:56:A:GLU:HA	1:56:A:GLU:HG2	8	0.55
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	8	0.55
(1,600)	1:41:A:LEU:HD12	1:41:A:LEU:HB3	1	0.55
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG23	5	0.55
(1,488)	1:45:A:MET:HE1	1:45:A:MET:HG2	5	0.55
(1,488)	1:45:A:MET:HE2	1:45:A:MET:HG2	7	0.55
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG23	3	0.55
(1,438)	1:61:A:ILE:HG23	1:58:A:GLN:HA	8	0.55
(2,309)	1:39:A:LYS:H	1:38:A:THR:HB	1	0.54
(2,204)	1:81:A:MET:HE3	1:84:A:SER:HB3	4	0.54
(2,78)	1:26:A:ILE:HD13	1:157:A:LEU:HB3	7	0.54
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	8	0.54
(2,41)	1:87:A:ASP:HA	1:86:A:LYS:HB3	3	0.54
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	3	0.54
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	1	0.54
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE1	3	0.54
(1,1195)	1:4:A:ILE:HD13	1:5:A:TYR:HD2	6	0.54
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD23	4	0.54
(1,1173)	1:1:A:MET:HG2	1:6:A:LYS:HB3	5	0.54
(1,1132)	1:50:A:GLN:HG3	1:148:A:ILE:HG13	6	0.54
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD2	8	0.54
(1,1075)	1:157:A:LEU:HD22	1:27:A:PHE:HB2	7	0.54
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	8	0.54
(1,984)	1:51:A:ASN:HB3	1:46:A:ARG:HG2	3	0.54
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD13	2	0.54
(1,952)	1:28:A:VAL:HA	1:41:A:LEU:HD11	3	0.54
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE3	6	0.54
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	1	0.54
(1,826)	1:11:A:GLN:HB2	1:7:A:ALA:HB1	3	0.54
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	3	0.54
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG22	8	0.54
(1,488)	1:45:A:MET:HE3	1:45:A:MET:HG2	2	0.54
(1,488)	1:45:A:MET:HE1	1:45:A:MET:HG2	6	0.54
(1,486)	1:45:A:MET:HE1	1:60:A:MET:HG3	6	0.54
(1,441)	1:61:A:ILE:HG23	1:38:A:THR:HG23	7	0.54
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG23	2	0.54
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG21	3	0.54
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD22	2	0.53
(2,112)	1:150:A:ALA:HB3	1:151:A:ASP:HB2	6	0.53
(2,96)	1:154:A:MET:HE1	1:155:A:GLN:HA	7	0.53
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG23	3	0.53
(2,6)	1:38:A:THR:HA	1:57:A:LEU:HD13	6	0.53

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1141)	1:41:A:LEU:HD22	1:41:A:LEU:HA	1	0.53
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	2	0.53
(1,1008)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	1	0.53
(1,648)	1:48:A:LEU:HD13	1:48:A:LEU:HA	2	0.53
(1,612)	1:21:A:LYS:HE2	1:21:A:LYS:HG2	3	0.53
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG23	6	0.53
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG21	1	0.53
(1,434)	1:4:A:ILE:HD12	1:4:A:ILE:HB	7	0.53
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG3	1	0.53
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HG	6	0.52
(2,199)	1:19:A:GLU:HB2	1:158:A:LEU:HD13	1	0.52
(2,118)	1:72:A:VAL:HG13	1:73:A:ASP:HB3	5	0.52
(2,98)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	1	0.52
(2,81)	1:1:A:MET:HE3	1:6:A:LYS:HG2	2	0.52
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE2	4	0.52
(1,1621)	2:201:A:9XG:HAC	1:60:A:MET:HE3	2	0.52
(1,1595)	1:154:A:MET:HE3	1:20:A:PHE:HB3	1	0.52
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	2	0.52
(1,1229)	1:20:A:PHE:HE1	1:20:A:PHE:HB2	6	0.52
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	1	0.52
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD11	8	0.52
(1,477)	1:153:A:MET:HE1	1:44:A:VAL:HG12	8	0.52
(1,449)	1:47:A:MET:HE3	1:157:A:LEU:HD22	2	0.52
(1,434)	1:4:A:ILE:HD13	1:4:A:ILE:HB	4	0.52
(1,386)	1:78:A:LEU:HB2	1:78:A:LEU:HD22	7	0.52
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	5	0.52
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE3	2	0.52
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD11	5	0.51
(2,294)	1:5:A:TYR:HE2	1:86:A:LYS:HD2	4	0.51
(2,118)	1:72:A:VAL:HG11	1:73:A:ASP:HB3	1	0.51
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG13	2	0.51
(2,83)	1:47:A:MET:HE1	1:26:A:ILE:HG21	4	0.51
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	8	0.51
(1,1229)	1:20:A:PHE:HE2	1:20:A:PHE:HB2	3	0.51
(1,1202)	1:4:A:ILE:HD11	1:5:A:TYR:HE2	8	0.51
(1,1112)	1:22:A:ALA:HB2	1:161:A:ARG:HD2	2	0.51
(1,1069)	1:151:A:ASP:HB3	1:152:A:ALA:HA	5	0.51
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	6	0.51
(1,718)	1:55:A:GLU:HB3	1:55:A:GLU:HG2	2	0.51
(1,641)	1:78:A:LEU:HB3	1:78:A:LEU:HD12	4	0.51
(1,494)	1:81:A:MET:HE1	1:81:A:MET:HB3	5	0.51
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG22	4	0.51

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD11	1	0.51
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	8	0.51
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE1	2	0.51
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	1	0.5
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG21	4	0.5
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	3	0.5
(1,1614)	2:201:A:9XG:HAK	1:64:A:VAL:HG22	7	0.5
(1,1597)	1:162:A:ALA:HA	1:158:A:LEU:HD13	5	0.5
(1,1595)	1:154:A:MET:HE2	1:20:A:PHE:HB3	6	0.5
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG3	1	0.5
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	6	0.5
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	7	0.5
(1,954)	1:28:A:VAL:HG22	1:40:A:GLU:HG2	8	0.5
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	3	0.5
(1,639)	1:78:A:LEU:HD13	1:74:A:PHE:HZ	8	0.5
(1,609)	1:57:A:LEU:HD22	1:45:A:MET:HG2	1	0.5
(1,525)	1:64:A:VAL:HA	1:64:A:VAL:HG21	5	0.5
(1,516)	1:162:A:ALA:HB3	1:158:A:LEU:HD12	6	0.5
(1,508)	1:162:A:ALA:HB1	1:155:A:GLN:HA	7	0.5
(1,329)	1:145:A:ARG:HD3	1:145:A:ARG:HG3	6	0.5
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD13	4	0.49
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	7	0.49
(2,118)	1:72:A:VAL:HG11	1:73:A:ASP:HB3	6	0.49
(2,85)	1:85:A:MET:HE3	1:84:A:SER:HB2	6	0.49
(2,33)	1:16:A:GLN:HA	1:15:A:GLU:HB2	1	0.49
(1,1612)	2:201:A:9XG:HAJ	1:64:A:VAL:HG11	7	0.49
(1,1597)	1:162:A:ALA:HA	1:158:A:LEU:HD13	2	0.49
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	6	0.49
(1,1229)	1:20:A:PHE:HE2	1:20:A:PHE:HB2	1	0.49
(1,1229)	1:20:A:PHE:HE2	1:20:A:PHE:HB2	5	0.49
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	8	0.49
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE1	7	0.49
(1,1065)	1:141:A:PRO:HA	1:142:A:THR:HG21	3	0.49
(1,1008)	1:28:A:VAL:HG21	1:25:A:ASP:HB2	3	0.49
(1,727)	1:26:A:ILE:HG12	1:157:A:LEU:HB3	6	0.49
(1,484)	1:45:A:MET:HE2	1:45:A:MET:HA	2	0.49
(1,477)	1:153:A:MET:HE2	1:44:A:VAL:HG12	6	0.49
(1,475)	1:153:A:MET:HE2	1:154:A:MET:HG2	8	0.49
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB3	6	0.49
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD12	5	0.49
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE2	4	0.49
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	2	0.49

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	8	0.49
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	6	0.49
(2,291)	1:89:A:SER:HA	1:139:A:LYS:HE2	3	0.48
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	5	0.48
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	3	0.48
(2,177)	1:155:A:GLN:HG3	1:152:A:ALA:HA	8	0.48
(2,138)	1:48:A:LEU:HD22	1:153:A:MET:HG2	2	0.48
(2,132)	1:38:A:THR:HG21	1:41:A:LEU:HD23	4	0.48
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	2	0.48
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	7	0.48
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	7	0.48
(1,1420)	1:82:A:VAL:H	1:81:A:MET:HB3	1	0.48
(1,1229)	1:20:A:PHE:HE1	1:20:A:PHE:HB2	4	0.48
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE1	5	0.48
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE3	4	0.48
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE2	8	0.48
(1,743)	1:56:A:GLU:HA	1:56:A:GLU:HG2	7	0.48
(1,617)	1:29:A:LEU:HD13	1:157:A:LEU:HB3	2	0.48
(1,600)	1:41:A:LEU:HD13	1:41:A:LEU:HB3	6	0.48
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG13	5	0.48
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG21	6	0.48
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG21	7	0.48
(1,505)	1:156:A:ALA:HB1	1:157:A:LEU:HD23	6	0.48
(1,488)	1:45:A:MET:HE2	1:45:A:MET:HG2	3	0.48
(1,484)	1:45:A:MET:HE1	1:45:A:MET:HA	1	0.48
(1,484)	1:45:A:MET:HE1	1:45:A:MET:HA	4	0.48
(1,457)	1:1:A:MET:HE3	1:5:A:TYR:HB2	6	0.48
(1,457)	1:1:A:MET:HE3	1:5:A:TYR:HB2	7	0.48
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD13	4	0.48
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	4	0.48
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG23	5	0.48
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE3	5	0.48
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	2	0.47
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HB2	4	0.47
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB2	8	0.47
(2,219)	1:28:A:VAL:HG11	1:43:A:LYS:HD2	7	0.47
(2,173)	1:18:A:ASN:HB3	1:21:A:LYS:HB3	6	0.47
(2,119)	1:72:A:VAL:HG12	1:76:A:GLU:HG3	5	0.47
(2,87)	1:47:A:MET:HE1	1:27:A:PHE:HA	5	0.47
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG22	8	0.47
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	4	0.47
(1,1236)	1:74:A:PHE:HE2	1:78:A:LEU:HD22	3	0.47

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:20:A:PHE:HE1	1:20:A:PHE:HB2	2	0.47
(1,1229)	1:20:A:PHE:HE2	1:20:A:PHE:HB2	7	0.47
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD11	7	0.47
(1,1141)	1:41:A:LEU:HD23	1:41:A:LEU:HA	5	0.47
(1,1069)	1:151:A:ASP:HB2	1:152:A:ALA:HA	3	0.47
(1,934)	1:157:A:LEU:HD12	1:27:A:PHE:HD2	5	0.47
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	2	0.47
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	3	0.47
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	3	0.47
(1,648)	1:48:A:LEU:HD13	1:48:A:LEU:HA	1	0.47
(1,572)	1:82:A:VAL:HG22	1:5:A:TYR:HB3	4	0.47
(1,569)	1:82:A:VAL:HG22	1:5:A:TYR:HA	7	0.47
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	7	0.47
(1,475)	1:153:A:MET:HE2	1:154:A:MET:HG3	5	0.47
(1,460)	1:4:A:ILE:HA	1:4:A:ILE:HG23	5	0.47
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG21	8	0.47
(1,329)	1:145:A:ARG:HD3	1:145:A:ARG:HG2	8	0.47
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	5	0.47
(2,281)	1:36:A:ILE:HD12	1:77:A:PHE:HA	2	0.46
(2,98)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	2	0.46
(2,91)	1:36:A:ILE:HG21	1:27:A:PHE:HB2	4	0.46
(2,74)	1:6:A:LYS:HE2	1:6:A:LYS:HD3	5	0.46
(2,33)	1:16:A:GLN:HA	1:15:A:GLU:HB2	6	0.46
(2,15)	1:52:A:PRO:HA	1:146:A:VAL:HG23	7	0.46
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD2	6	0.46
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD11	3	0.46
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	3	0.46
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD22	3	0.46
(1,1103)	1:143:A:LEU:HD13	1:143:A:LEU:HA	5	0.46
(1,1024)	1:72:A:VAL:HG21	1:36:A:ILE:HD11	5	0.46
(1,933)	1:4:A:ILE:HG13	1:5:A:TYR:HE1	6	0.46
(1,918)	1:78:A:LEU:HD21	1:77:A:PHE:HD1	2	0.46
(1,874)	1:148:A:ILE:HG21	1:84:A:SER:HB2	2	0.46
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	4	0.46
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	7	0.46
(1,587)	1:61:A:ILE:HA	1:72:A:VAL:HG21	8	0.46
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD22	4	0.46
(1,572)	1:82:A:VAL:HG23	1:5:A:TYR:HB3	5	0.46
(1,572)	1:82:A:VAL:HG22	1:5:A:TYR:HB3	7	0.46
(1,515)	1:23:A:ALA:HB1	1:157:A:LEU:HD22	7	0.46
(1,484)	1:45:A:MET:HE1	1:45:A:MET:HA	7	0.46
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG22	3	0.46

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG21	7	0.46
(1,253)	1:7:A:ALA:HA	1:10:A:GLU:HG3	6	0.46
(1,240)	1:3:A:ASP:HA	1:3:A:ASP:HB2	6	0.46
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	4	0.46
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	7	0.45
(2,199)	1:19:A:GLU:HB2	1:158:A:LEU:HD11	3	0.45
(2,96)	1:154:A:MET:HE3	1:155:A:GLN:HA	8	0.45
(2,83)	1:47:A:MET:HE1	1:26:A:ILE:HG21	5	0.45
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD12	7	0.45
(2,77)	1:27:A:PHE:HA	1:26:A:ILE:HD12	8	0.45
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	2	0.45
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	5	0.45
(2,33)	1:16:A:GLN:HA	1:15:A:GLU:HB2	8	0.45
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	6	0.45
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	5	0.45
(2,17)	1:15:A:GLU:HA	1:15:A:GLU:HG2	6	0.45
(1,1616)	2:201:A:9XG:HAK	1:60:A:MET:HE2	6	0.45
(1,1595)	1:154:A:MET:HE2	1:20:A:PHE:HB3	2	0.45
(1,1141)	1:41:A:LEU:HD23	1:41:A:LEU:HA	3	0.45
(1,1141)	1:41:A:LEU:HD21	1:41:A:LEU:HA	4	0.45
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	5	0.45
(1,1024)	1:72:A:VAL:HG21	1:36:A:ILE:HD11	8	0.45
(1,654)	1:158:A:LEU:HD13	1:19:A:GLU:HG3	8	0.45
(1,605)	1:157:A:LEU:HB2	1:157:A:LEU:HD21	7	0.45
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG11	1	0.45
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	6	0.45
(1,484)	1:45:A:MET:HE3	1:45:A:MET:HA	8	0.45
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD12	8	0.45
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD13	1	0.44
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD23	5	0.44
(2,194)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	5	0.44
(2,186)	1:36:A:ILE:HG21	1:72:A:VAL:HB	2	0.44
(2,155)	1:78:A:LEU:HD11	1:17:A:LYS:HG3	2	0.44
(2,119)	1:72:A:VAL:HG13	1:76:A:GLU:HG3	1	0.44
(2,112)	1:156:A:ALA:HB2	1:47:A:MET:HG2	4	0.44
(2,84)	1:85:A:MET:HE1	1:85:A:MET:HA	1	0.44
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG21	6	0.44
(1,1617)	2:201:A:9XG:HAJ	1:60:A:MET:HA	8	0.44
(1,1613)	2:201:A:9XG:HAI	1:64:A:VAL:HG22	2	0.44
(1,1597)	1:162:A:ALA:HA	1:158:A:LEU:HD13	8	0.44
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	1	0.44
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	4	0.44

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:63:A:GLU:HG3	1:64:A:VAL:HG12	3	0.44
(1,1113)	1:22:A:ALA:HB1	1:25:A:ASP:HB2	8	0.44
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	4	0.44
(1,875)	1:57:A:LEU:HA	1:60:A:MET:HG2	5	0.44
(1,871)	1:47:A:MET:HE3	1:47:A:MET:HG3	3	0.44
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	4	0.44
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	2	0.44
(1,751)	1:55:A:GLU:HG3	1:55:A:GLU:HB2	7	0.44
(1,648)	1:48:A:LEU:HD11	1:48:A:LEU:HA	6	0.44
(1,639)	1:78:A:LEU:HD11	1:74:A:PHE:HZ	4	0.44
(1,621)	1:78:A:LEU:HD22	1:20:A:PHE:HB2	8	0.44
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD21	7	0.44
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG23	4	0.44
(1,557)	1:79:A:VAL:HG13	1:5:A:TYR:HB3	1	0.44
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG11	4	0.44
(1,502)	1:8:A:ALA:HB3	1:11:A:GLN:HB3	6	0.44
(1,438)	1:61:A:ILE:HG21	1:58:A:GLN:HA	3	0.44
(1,432)	1:148:A:ILE:HD11	1:45:A:MET:HB3	8	0.44
(1,423)	1:61:A:ILE:HD13	1:72:A:VAL:HB	4	0.44
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	1	0.44
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD13	3	0.44
(2,284)	1:64:A:VAL:HG12	1:1:A:MET:HE2	7	0.43
(2,259)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	7	0.43
(2,247)	1:84:A:SER:HA	1:147:A:ARG:HD3	2	0.43
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	8	0.43
(2,194)	1:90:A:LYS:HG3	1:90:A:LYS:HB3	2	0.43
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	8	0.43
(2,123)	1:146:A:VAL:HG11	1:145:A:ARG:HA	6	0.43
(2,119)	1:72:A:VAL:HG12	1:76:A:GLU:HG3	4	0.43
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	8	0.43
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG21	2	0.43
(2,76)	1:61:A:ILE:HD11	1:38:A:THR:HB	6	0.43
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	6	0.43
(1,1024)	1:72:A:VAL:HG23	1:36:A:ILE:HD12	1	0.43
(1,1008)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	2	0.43
(1,572)	1:82:A:VAL:HG23	1:5:A:TYR:HB3	6	0.43
(1,569)	1:82:A:VAL:HG23	1:5:A:TYR:HA	5	0.43
(1,555)	1:146:A:VAL:HG13	1:52:A:PRO:HB3	3	0.43
(1,539)	1:142:A:THR:HG22	1:140:A:ARG:HD3	2	0.43
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE1	2	0.43
(1,311)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	8	0.43
(1,287)	1:54:A:PRO:HD3	1:53:A:THR:HG23	4	0.43

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD1	6	0.43
(1,124)	1:39:A:LYS:HA	1:39:A:LYS:HG3	8	0.43
(1,104)	1:84:A:SER:HA	1:81:A:MET:HE3	6	0.43
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	3	0.43
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD13	2	0.42
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	1	0.42
(2,201)	1:12:A:LEU:HD21	1:16:A:GLN:HB2	1	0.42
(2,201)	1:12:A:LEU:HD23	1:16:A:GLN:HB2	4	0.42
(2,194)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	1	0.42
(2,138)	1:48:A:LEU:HD23	1:47:A:MET:HB2	4	0.42
(2,135)	1:72:A:VAL:HG22	1:76:A:GLU:HB2	1	0.42
(2,124)	1:45:A:MET:HE1	1:146:A:VAL:HG13	3	0.42
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	7	0.42
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	8	0.42
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG23	4	0.42
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	2	0.42
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	3	0.42
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	4	0.42
(2,59)	1:145:A:ARG:HD2	1:146:A:VAL:HG12	8	0.42
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	4	0.42
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	2	0.42
(1,1243)	1:78:A:LEU:HD21	1:20:A:PHE:HD1	2	0.42
(1,1229)	1:20:A:PHE:HE1	1:20:A:PHE:HB2	8	0.42
(1,1111)	1:153:A:MET:HE1	1:44:A:VAL:HG23	4	0.42
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	4	0.42
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE2	4	0.42
(1,853)	1:76:A:GLU:HB2	1:64:A:VAL:HG21	8	0.42
(1,840)	1:141:A:PRO:HD2	1:140:A:ARG:HB3	5	0.42
(1,806)	1:154:A:MET:HG2	1:154:A:MET:HA	7	0.42
(1,751)	1:55:A:GLU:HG3	1:55:A:GLU:HB2	8	0.42
(1,663)	1:140:A:ARG:HG3	1:141:A:PRO:HD2	4	0.42
(1,651)	1:48:A:LEU:HD11	1:153:A:MET:HG3	3	0.42
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	5	0.42
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG23	2	0.42
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB1	6	0.42
(1,438)	1:61:A:ILE:HG22	1:58:A:GLN:HA	2	0.42
(1,423)	1:61:A:ILE:HD12	1:72:A:VAL:HB	3	0.42
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	4	0.42
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG12	8	0.42
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE3	4	0.42
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD22	7	0.41
(2,309)	1:39:A:LYS:H	1:37:A:SER:HB2	3	0.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,281)	1:36:A:ILE:HD11	1:77:A:PHE:HA	3	0.41
(2,264)	1:13:A:THR:HB	1:16:A:GLN:HG3	7	0.41
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB3	8	0.41
(2,197)	1:14:A:GLU:HA	1:17:A:LYS:HD3	1	0.41
(2,195)	1:11:A:GLN:HB2	1:8:A:ALA:HA	3	0.41
(2,194)	1:6:A:LYS:HB3	1:6:A:LYS:HG2	3	0.41
(2,146)	1:29:A:LEU:HD23	1:26:A:ILE:HB	1	0.41
(2,118)	1:72:A:VAL:HG11	1:73:A:ASP:HB3	2	0.41
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	6	0.41
(2,99)	1:81:A:MET:HE3	1:77:A:PHE:HZ	3	0.41
(2,91)	1:36:A:ILE:HG22	1:27:A:PHE:HB2	3	0.41
(2,74)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	1	0.41
(2,74)	1:6:A:LYS:HE2	1:6:A:LYS:HD3	8	0.41
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG23	5	0.41
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	4	0.41
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD2	5	0.41
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	8	0.41
(1,1613)	2:201:A:9XG:HAJ	1:64:A:VAL:HG23	4	0.41
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	4	0.41
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	7	0.41
(1,1183)	1:5:A:TYR:HD1	1:5:A:TYR:HE1	2	0.41
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	1	0.41
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD23	7	0.41
(1,1130)	1:158:A:LEU:HD11	1:155:A:GLN:HA	2	0.41
(1,1113)	1:22:A:ALA:HB1	1:25:A:ASP:HB2	7	0.41
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE2	1	0.41
(1,1066)	1:147:A:ARG:HD3	1:147:A:ARG:HA	7	0.41
(1,934)	1:157:A:LEU:HD11	1:27:A:PHE:HD1	2	0.41
(1,871)	1:47:A:MET:HE3	1:47:A:MET:HG3	1	0.41
(1,871)	1:47:A:MET:HE3	1:47:A:MET:HG3	7	0.41
(1,651)	1:48:A:LEU:HD11	1:153:A:MET:HG3	4	0.41
(1,621)	1:78:A:LEU:HD21	1:20:A:PHE:HB2	2	0.41
(1,580)	1:64:A:VAL:HG12	1:76:A:GLU:HA	6	0.41
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG22	4	0.41
(1,494)	1:81:A:MET:HE2	1:81:A:MET:HB3	6	0.41
(1,484)	1:45:A:MET:HE3	1:45:A:MET:HA	5	0.41
(1,476)	1:153:A:MET:HE3	1:148:A:ILE:HG22	6	0.41
(1,447)	1:1:A:MET:HE3	1:79:A:VAL:HG23	5	0.41
(1,432)	1:148:A:ILE:HD11	1:45:A:MET:HB3	7	0.41
(1,423)	1:61:A:ILE:HD11	1:72:A:VAL:HB	8	0.41
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	6	0.41
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB2	8	0.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,274)	1:36:A:ILE:HG22	1:71:A:THR:HB	5	0.4
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	4	0.4
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	2	0.4
(2,197)	1:14:A:GLU:HA	1:17:A:LYS:HD3	5	0.4
(2,196)	1:17:A:LYS:HD2	1:12:A:LEU:HD13	4	0.4
(2,194)	1:6:A:LYS:HB3	1:6:A:LYS:HG2	8	0.4
(2,166)	1:41:A:LEU:HD22	1:61:A:ILE:HB	6	0.4
(2,105)	1:152:A:ALA:HB1	1:48:A:LEU:HD12	4	0.4
(2,98)	1:7:A:ALA:HB1	1:4:A:ILE:HG12	8	0.4
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG22	3	0.4
(2,77)	1:26:A:ILE:HD13	1:159:A:GLY:HA2	1	0.4
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HG	4	0.4
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD13	6	0.4
(1,1248)	1:74:A:PHE:HE2	1:21:A:LYS:HB3	8	0.4
(1,1195)	1:4:A:ILE:HD12	1:5:A:TYR:HD2	4	0.4
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	1	0.4
(1,1183)	1:5:A:TYR:HD1	1:5:A:TYR:HE1	3	0.4
(1,1183)	1:5:A:TYR:HD1	1:5:A:TYR:HE1	5	0.4
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	2	0.4
(1,1173)	1:1:A:MET:HG2	1:6:A:LYS:HB3	3	0.4
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG13	1	0.4
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE1	7	0.4
(1,1140)	1:41:A:LEU:HD21	1:45:A:MET:HG3	6	0.4
(1,966)	1:39:A:LYS:HE2	1:39:A:LYS:HB2	7	0.4
(1,918)	1:78:A:LEU:HD23	1:77:A:PHE:HD2	4	0.4
(1,894)	1:80:A:MET:HA	1:6:A:LYS:HB2	4	0.4
(1,871)	1:47:A:MET:HE1	1:47:A:MET:HG3	6	0.4
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB1	7	0.4
(1,462)	1:2:A:ASP:HB2	1:4:A:ILE:HG22	6	0.4
(1,438)	1:61:A:ILE:HG21	1:58:A:GLN:HA	1	0.4
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB2	2	0.4
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	3	0.4
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	7	0.4
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	3	0.4
(1,172)	1:47:A:MET:HA	1:47:A:MET:HE1	3	0.4
(1,124)	1:39:A:LYS:HA	1:39:A:LYS:HG3	3	0.4
(1,124)	1:39:A:LYS:HA	1:39:A:LYS:HG3	5	0.4
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB3	3	0.39
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB3	1	0.39
(2,204)	1:81:A:MET:HE3	1:84:A:SER:HB2	6	0.39
(2,194)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	6	0.39
(2,155)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	3	0.39

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,151)	1:29:A:LEU:HD12	1:26:A:ILE:HB	4	0.39
(2,135)	1:72:A:VAL:HG23	1:76:A:GLU:HB2	5	0.39
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG11	4	0.39
(2,109)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	1	0.39
(2,98)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	6	0.39
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG21	6	0.39
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD13	2	0.39
(2,74)	1:6:A:LYS:HE2	1:6:A:LYS:HD3	7	0.39
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	5	0.39
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG23	1	0.39
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG21	2	0.39
(1,1617)	2:201:A:9XG:HAI	1:60:A:MET:HA	5	0.39
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	4	0.39
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	6	0.39
(1,1116)	1:23:A:ALA:HB3	1:154:A:MET:HG3	7	0.39
(1,1090)	1:78:A:LEU:HD11	1:74:A:PHE:HD1	4	0.39
(1,1085)	1:26:A:ILE:HD11	1:25:A:ASP:HB2	7	0.39
(1,1083)	1:164:A:GLY:HA2	1:163:A:LYS:HE2	4	0.39
(1,1024)	1:72:A:VAL:HG22	1:36:A:ILE:HD13	6	0.39
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	1	0.39
(1,663)	1:140:A:ARG:HG3	1:141:A:PRO:HD2	8	0.39
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD21	8	0.39
(1,569)	1:82:A:VAL:HG23	1:5:A:TYR:HA	6	0.39
(1,547)	1:9:A:VAL:HG11	1:9:A:VAL:HA	1	0.39
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB1	2	0.39
(1,489)	1:45:A:MET:HE1	1:146:A:VAL:HG13	3	0.39
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	1	0.39
(1,287)	1:54:A:PRO:HD3	1:53:A:THR:HG21	2	0.39
(1,204)	1:76:A:GLU:HA	1:72:A:VAL:HG13	8	0.39
(1,99)	1:15:A:GLU:HA	1:18:A:ASN:HB2	8	0.39
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	6	0.39
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG13	1	0.39
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD11	1	0.38
(2,281)	1:36:A:ILE:HD13	1:36:A:ILE:HA	8	0.38
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	6	0.38
(2,194)	1:6:A:LYS:HB3	1:6:A:LYS:HG2	7	0.38
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	2	0.38
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	6	0.38
(2,155)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	1	0.38
(2,150)	1:90:A:LYS:HG3	1:90:A:LYS:HB3	8	0.38
(2,132)	1:38:A:THR:HG21	1:41:A:LEU:HD22	3	0.38
(2,119)	1:72:A:VAL:HG13	1:76:A:GLU:HG3	2	0.38

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG13	6	0.38
(2,111)	1:160:A:ALA:HB3	1:26:A:ILE:HD13	3	0.38
(1,1595)	1:154:A:MET:HE2	1:20:A:PHE:HB3	5	0.38
(1,1254)	1:66:A:GLU:H	1:66:A:GLU:HG3	6	0.38
(1,966)	1:39:A:LYS:HE3	1:39:A:LYS:HB2	8	0.38
(1,871)	1:47:A:MET:HE3	1:47:A:MET:HG3	4	0.38
(1,871)	1:47:A:MET:HE1	1:47:A:MET:HG3	8	0.38
(1,773)	1:66:A:GLU:HA	1:66:A:GLU:HG3	1	0.38
(1,486)	1:45:A:MET:HE1	1:60:A:MET:HG3	8	0.38
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG23	2	0.38
(1,329)	1:145:A:ARG:HD2	1:145:A:ARG:HG3	1	0.38
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	5	0.38
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG13	3	0.38
(1,184)	1:21:A:LYS:HA	1:78:A:LEU:HD11	6	0.38
(1,122)	1:19:A:GLU:HA	1:161:A:ARG:HG3	7	0.38
(2,277)	1:64:A:VAL:HG23	1:65:A:ASP:HB3	6	0.37
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	1	0.37
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	6	0.37
(2,235)	1:61:A:ILE:HD13	1:57:A:LEU:HA	8	0.37
(2,194)	1:6:A:LYS:HB3	1:6:A:LYS:HG2	4	0.37
(2,173)	1:18:A:ASN:HB3	1:19:A:GLU:HB3	7	0.37
(2,124)	1:45:A:MET:HE1	1:146:A:VAL:HG13	4	0.37
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG12	3	0.37
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG11	7	0.37
(2,116)	1:13:A:THR:HG22	1:16:A:GLN:HG3	1	0.37
(2,85)	1:85:A:MET:HE3	1:84:A:SER:HB3	4	0.37
(2,2)	1:38:A:THR:HB	1:41:A:LEU:HB3	4	0.37
(1,1613)	2:201:A:9XG:HAG	1:64:A:VAL:HG23	1	0.37
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD13	5	0.37
(1,1297)	1:19:A:GLU:H	1:19:A:GLU:HB3	7	0.37
(1,1202)	1:4:A:ILE:HD13	1:5:A:TYR:HE1	5	0.37
(1,1197)	1:5:A:TYR:HB3	1:5:A:TYR:HE2	7	0.37
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	7	0.37
(1,1183)	1:5:A:TYR:HD2	1:5:A:TYR:HE2	8	0.37
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD2	5	0.37
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD13	3	0.37
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE3	3	0.37
(1,1069)	1:151:A:ASP:HB2	1:152:A:ALA:HA	2	0.37
(1,918)	1:78:A:LEU:HD21	1:77:A:PHE:HD2	5	0.37
(1,873)	1:47:A:MET:HE3	1:47:A:MET:HG2	2	0.37
(1,704)	1:155:A:GLN:HB2	1:152:A:ALA:HA	5	0.37
(1,621)	1:78:A:LEU:HD22	1:20:A:PHE:HB2	1	0.37

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:143:A:LEU:HD21	1:59:A:GLU:HB2	8	0.37
(1,563)	1:72:A:VAL:HG13	1:76:A:GLU:HB3	2	0.37
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG13	7	0.37
(1,485)	1:45:A:MET:HE1	1:57:A:LEU:HA	5	0.37
(1,484)	1:45:A:MET:HE3	1:45:A:MET:HA	6	0.37
(1,438)	1:61:A:ILE:HG22	1:58:A:GLN:HA	4	0.37
(1,423)	1:61:A:ILE:HD13	1:72:A:VAL:HB	7	0.37
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	8	0.37
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	2	0.37
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	8	0.37
(1,160)	1:23:A:ALA:HA	1:26:A:ILE:HG12	7	0.37
(1,122)	1:19:A:GLU:HA	1:161:A:ARG:HG2	2	0.37
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	2	0.37
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD12	3	0.36
(2,281)	1:36:A:ILE:HD13	1:77:A:PHE:HA	6	0.36
(2,201)	1:12:A:LEU:HD21	1:16:A:GLN:HB2	5	0.36
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	5	0.36
(2,151)	1:29:A:LEU:HD13	1:26:A:ILE:HB	3	0.36
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	3	0.36
(2,150)	1:90:A:LYS:HG2	1:90:A:LYS:HB3	6	0.36
(2,140)	1:41:A:LEU:HD13	1:153:A:MET:HE2	1	0.36
(2,132)	1:38:A:THR:HG23	1:41:A:LEU:HD21	1	0.36
(2,95)	1:154:A:MET:HE3	1:19:A:GLU:HA	3	0.36
(2,2)	1:38:A:THR:HB	1:41:A:LEU:HB3	1	0.36
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	8	0.36
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	2	0.36
(1,1513)	1:11:A:GLN:H	1:11:A:GLN:HB2	3	0.36
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	5	0.36
(1,1150)	1:145:A:ARG:HD3	1:146:A:VAL:HG11	3	0.36
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE1	1	0.36
(1,966)	1:39:A:LYS:HE2	1:39:A:LYS:HB2	1	0.36
(1,966)	1:39:A:LYS:HE2	1:39:A:LYS:HB2	2	0.36
(1,934)	1:157:A:LEU:HD12	1:27:A:PHE:HD1	8	0.36
(1,895)	1:163:A:LYS:HB3	1:163:A:LYS:HE3	3	0.36
(1,871)	1:47:A:MET:HE2	1:47:A:MET:HG3	5	0.36
(1,856)	1:79:A:VAL:HB	1:6:A:LYS:HA	1	0.36
(1,827)	1:7:A:ALA:HB1	1:10:A:GLU:HB2	2	0.36
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	3	0.36
(1,609)	1:57:A:LEU:HD23	1:45:A:MET:HG2	2	0.36
(1,609)	1:57:A:LEU:HD22	1:45:A:MET:HG2	3	0.36
(1,609)	1:57:A:LEU:HD21	1:45:A:MET:HG2	8	0.36
(1,563)	1:72:A:VAL:HG13	1:76:A:GLU:HB3	8	0.36

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB2	3	0.36
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB3	8	0.36
(1,346)	1:41:A:LEU:HB3	1:60:A:MET:HE3	3	0.36
(1,330)	1:46:A:ARG:HA	1:46:A:ARG:HD2	5	0.36
(1,287)	1:54:A:PRO:HD3	1:53:A:THR:HG23	6	0.36
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	3	0.36
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG13	7	0.36
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD21	2	0.36
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD23	8	0.36
(2,309)	1:39:A:LYS:H	1:38:A:THR:HB	4	0.35
(2,228)	1:53:A:THR:HA	1:55:A:GLU:HG3	3	0.35
(2,150)	1:90:A:LYS:HG3	1:90:A:LYS:HB3	4	0.35
(2,52)	1:52:A:PRO:HD3	1:45:A:MET:HG3	2	0.35
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	7	0.35
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG21	4	0.35
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG21	8	0.35
(1,1101)	1:145:A:ARG:HD2	1:143:A:LEU:HD12	4	0.35
(1,1067)	1:145:A:ARG:HD3	1:145:A:ARG:HA	1	0.35
(1,1066)	1:147:A:ARG:HD3	1:147:A:ARG:HA	6	0.35
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE2	2	0.35
(1,816)	1:21:A:LYS:HB3	1:18:A:ASN:HA	7	0.35
(1,751)	1:55:A:GLU:HG3	1:55:A:GLU:HB2	6	0.35
(1,607)	1:57:A:LEU:HD23	1:38:A:THR:HA	5	0.35
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD23	2	0.35
(1,572)	1:82:A:VAL:HG21	1:5:A:TYR:HB3	8	0.35
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG22	7	0.35
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG11	8	0.35
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	1	0.35
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	2	0.35
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	5	0.35
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	1	0.35
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD22	1	0.35
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD11	6	0.34
(2,302)	1:17:A:LYS:HG2	1:74:A:PHE:HE2	8	0.34
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	5	0.34
(2,255)	1:159:A:GLY:HA3	1:160:A:ALA:HB1	6	0.34
(2,249)	1:151:A:ASP:HB3	1:158:A:LEU:HD21	3	0.34
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	4	0.34
(2,228)	1:53:A:THR:HA	1:54:A:PRO:HB3	6	0.34
(2,210)	1:148:A:ILE:HD11	1:44:A:VAL:HB	6	0.34
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	7	0.34
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	3	0.34

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,154)	1:158:A:LEU:HD11	1:44:A:VAL:HG11	4	0.34
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	5	0.34
(2,146)	1:29:A:LEU:HD22	1:26:A:ILE:HB	5	0.34
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	2	0.34
(2,109)	1:28:A:VAL:HG21	1:25:A:ASP:HB2	3	0.34
(2,95)	1:154:A:MET:HE2	1:19:A:GLU:HA	8	0.34
(2,94)	1:154:A:MET:HE3	1:151:A:ASP:HA	8	0.34
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD12	8	0.34
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	1	0.34
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB3	5	0.34
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.34
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.34
(1,1116)	1:23:A:ALA:HB2	1:154:A:MET:HG3	8	0.34
(1,1114)	1:152:A:ALA:HB3	1:149:A:SER:HA	5	0.34
(1,1069)	1:151:A:ASP:HB2	1:152:A:ALA:HA	4	0.34
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE1	4	0.34
(1,790)	1:11:A:GLN:HA	1:11:A:GLN:HG2	3	0.34
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	8	0.34
(1,594)	1:79:A:VAL:HG21	1:6:A:LYS:HB3	5	0.34
(1,591)	1:9:A:VAL:HG21	1:10:A:GLU:HG3	6	0.34
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD21	8	0.34
(1,557)	1:79:A:VAL:HG13	1:5:A:TYR:HB3	6	0.34
(1,522)	1:31:A:ALA:HB1	1:36:A:ILE:HG22	3	0.34
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB3	4	0.34
(1,489)	1:45:A:MET:HE1	1:146:A:VAL:HG13	4	0.34
(1,475)	1:153:A:MET:HE2	1:154:A:MET:HG3	4	0.34
(1,309)	1:34:A:GLY:HA3	1:31:A:ALA:HB3	7	0.34
(1,309)	1:34:A:GLY:HA3	1:31:A:ALA:HB3	8	0.34
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD1	7	0.34
(1,211)	1:41:A:LEU:HA	1:44:A:VAL:HG23	7	0.34
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	7	0.34
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	1	0.34
(2,309)	1:39:A:LYS:H	1:37:A:SER:HB2	5	0.33
(2,302)	1:17:A:LYS:HG2	1:74:A:PHE:HE2	7	0.33
(2,270)	1:45:A:MET:HE2	1:148:A:ILE:HG12	6	0.33
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	3	0.33
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	1	0.33
(2,126)	1:38:A:THR:HG21	1:57:A:LEU:HA	6	0.33
(2,118)	1:72:A:VAL:HG13	1:73:A:ASP:HB3	3	0.33
(2,105)	1:152:A:ALA:HB3	1:48:A:LEU:HD12	5	0.33
(2,98)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	3	0.33
(2,98)	1:7:A:ALA:HB2	1:4:A:ILE:HG12	7	0.33

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,94)	1:154:A:MET:HE3	1:151:A:ASP:HA	6	0.33
(2,76)	1:61:A:ILE:HD12	1:38:A:THR:HB	8	0.33
(2,68)	1:86:A:LYS:HE2	1:86:A:LYS:HG3	7	0.33
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	4	0.33
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG21	5	0.33
(2,17)	1:15:A:GLU:HA	1:15:A:GLU:HG2	8	0.33
(1,1596)	1:157:A:LEU:HD22	1:27:A:PHE:HB2	7	0.33
(1,1527)	1:35:A:SER:H	1:31:A:ALA:HB2	6	0.33
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	5	0.33
(1,1243)	1:78:A:LEU:HD22	1:20:A:PHE:HD2	1	0.33
(1,1193)	1:82:A:VAL:HG23	1:5:A:TYR:HD1	2	0.33
(1,1118)	1:1:A:MET:HE3	1:1:A:MET:HG3	5	0.33
(1,1106)	1:60:A:MET:HE2	1:147:A:ARG:HA	8	0.33
(1,1085)	1:26:A:ILE:HD11	1:25:A:ASP:HB2	6	0.33
(1,827)	1:7:A:ALA:HB3	1:10:A:GLU:HB2	1	0.33
(1,648)	1:48:A:LEU:HD12	1:48:A:LEU:HA	4	0.33
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG21	7	0.33
(1,438)	1:61:A:ILE:HG21	1:58:A:GLN:HA	6	0.33
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD12	1	0.33
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB3	6	0.33
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG13	1	0.33
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG12	6	0.33
(1,215)	1:154:A:MET:HA	1:23:A:ALA:HB1	7	0.33
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB2	5	0.33
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG13	6	0.33
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	6	0.32
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	4	0.32
(2,124)	1:45:A:MET:HE3	1:146:A:VAL:HG11	8	0.32
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE1	1	0.32
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	2	0.32
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD1	4	0.32
(1,1199)	1:5:A:TYR:HE2	1:86:A:LYS:HG3	8	0.32
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE1	1	0.32
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE3	8	0.32
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD13	3	0.32
(1,1083)	1:164:A:GLY:HA3	1:163:A:LYS:HE3	6	0.32
(1,1024)	1:72:A:VAL:HG23	1:36:A:ILE:HD13	4	0.32
(1,806)	1:154:A:MET:HG2	1:154:A:MET:HA	8	0.32
(1,764)	1:8:A:ALA:HB3	1:10:A:GLU:HG3	5	0.32
(1,678)	1:157:A:LEU:HG	1:157:A:LEU:HA	8	0.32
(1,591)	1:9:A:VAL:HG21	1:10:A:GLU:HG3	4	0.32
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG11	5	0.32

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG13	6	0.32
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG22	2	0.32
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB2	1	0.32
(1,494)	1:81:A:MET:HE3	1:81:A:MET:HB3	4	0.32
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB3	8	0.32
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	1	0.32
(1,182)	1:63:A:GLU:HA	1:64:A:VAL:HG12	8	0.32
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	1	0.32
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	3	0.32
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	6	0.32
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	8	0.32
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG22	1	0.32
(2,334)	1:82:A:VAL:H	1:82:A:VAL:HB	2	0.31
(2,267)	1:62:A:ASP:HB3	1:143:A:LEU:HD12	5	0.31
(2,266)	1:142:A:THR:HB	1:143:A:LEU:HB3	5	0.31
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	8	0.31
(2,229)	1:53:A:THR:HB	1:55:A:GLU:HG3	7	0.31
(2,201)	1:12:A:LEU:HD21	1:16:A:GLN:HB2	8	0.31
(2,196)	1:17:A:LYS:HD2	1:9:A:VAL:HG22	3	0.31
(2,118)	1:72:A:VAL:HG13	1:73:A:ASP:HB3	4	0.31
(2,95)	1:154:A:MET:HE2	1:19:A:GLU:HA	6	0.31
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	1	0.31
(2,68)	1:6:A:LYS:HE2	1:6:A:LYS:HG2	4	0.31
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE3	2	0.31
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG23	8	0.31
(1,1619)	2:201:A:9XG:HAK	1:60:A:MET:HE2	5	0.31
(1,1604)	2:201:A:9XG:HAE	1:61:A:ILE:HD12	2	0.31
(1,1595)	1:154:A:MET:HE2	1:20:A:PHE:HB3	8	0.31
(1,1420)	1:82:A:VAL:H	1:81:A:MET:HB3	2	0.31
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.31
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	3	0.31
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG22	3	0.31
(1,1081)	1:154:A:MET:HB3	1:158:A:LEU:HD11	7	0.31
(1,984)	1:51:A:ASN:HB3	1:46:A:ARG:HG2	4	0.31
(1,966)	1:39:A:LYS:HE3	1:39:A:LYS:HB2	3	0.31
(1,891)	1:163:A:LYS:HA	1:163:A:LYS:HB3	2	0.31
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	1	0.31
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD21	1	0.31
(1,559)	1:28:A:VAL:HG12	1:24:A:PHE:HD2	4	0.31
(1,469)	1:36:A:ILE:HG21	1:40:A:GLU:HB2	8	0.31
(1,344)	1:158:A:LEU:HB3	1:158:A:LEU:HG	7	0.31
(1,294)	1:52:A:PRO:HD2	1:46:A:ARG:HD2	1	0.31

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:155:A:GLN:HA	1:158:A:LEU:HD22	7	0.31
(1,125)	1:60:A:MET:HA	1:143:A:LEU:HB2	3	0.31
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	4	0.31
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	5	0.31
(2,325)	1:12:A:LEU:H	1:12:A:LEU:HD21	3	0.3
(2,269)	1:22:A:ALA:HB3	1:25:A:ASP:HB3	1	0.3
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	4	0.3
(2,204)	1:81:A:MET:HE1	1:84:A:SER:HB3	2	0.3
(2,196)	1:17:A:LYS:HD2	1:9:A:VAL:HG22	5	0.3
(2,190)	1:150:A:ALA:HB1	1:85:A:MET:HG2	6	0.3
(2,130)	1:71:A:THR:HG23	1:33:A:ASP:HB3	7	0.3
(2,126)	1:38:A:THR:HG21	1:57:A:LEU:HA	3	0.3
(2,126)	1:38:A:THR:HG21	1:57:A:LEU:HA	7	0.3
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG12	8	0.3
(2,104)	1:150:A:ALA:HB2	1:85:A:MET:HB2	7	0.3
(2,102)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	5	0.3
(2,99)	1:81:A:MET:HE3	1:20:A:PHE:HD2	8	0.3
(2,96)	1:154:A:MET:HE3	1:155:A:GLN:HA	6	0.3
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	6	0.3
(2,78)	1:26:A:ILE:HD13	1:23:A:ALA:HB1	6	0.3
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE1	5	0.3
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE3	5	0.3
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE3	8	0.3
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HG	3	0.3
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	8	0.3
(2,19)	1:27:A:PHE:HA	1:26:A:ILE:HG22	7	0.3
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.3
(1,1248)	1:74:A:PHE:HE2	1:21:A:LYS:HB3	6	0.3
(1,1202)	1:4:A:ILE:HD11	1:5:A:TYR:HE1	6	0.3
(1,1126)	1:146:A:VAL:HG22	1:145:A:ARG:HD3	5	0.3
(1,1083)	1:164:A:GLY:HA2	1:163:A:LYS:HE2	8	0.3
(1,1067)	1:145:A:ARG:HD3	1:145:A:ARG:HA	7	0.3
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE2	5	0.3
(1,977)	1:44:A:VAL:HA	1:27:A:PHE:HZ	6	0.3
(1,697)	1:41:A:LEU:HD21	1:60:A:MET:HB3	3	0.3
(1,586)	1:9:A:VAL:HA	1:9:A:VAL:HG21	2	0.3
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD21	3	0.3
(1,559)	1:28:A:VAL:HG11	1:24:A:PHE:HD2	5	0.3
(1,515)	1:23:A:ALA:HB2	1:157:A:LEU:HD22	6	0.3
(1,485)	1:45:A:MET:HE1	1:57:A:LEU:HA	8	0.3
(1,453)	1:85:A:MET:HE1	1:85:A:MET:HG3	5	0.3
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB3	5	0.3

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:17:A:LYS:HE2	1:17:A:LYS:HB2	7	0.3
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	1	0.3
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB2	8	0.3
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	4	0.3
(1,122)	1:19:A:GLU:HA	1:161:A:ARG:HG3	5	0.3
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB3	6	0.3
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	3	0.3
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD23	5	0.3
(2,294)	1:5:A:TYR:HE2	1:86:A:LYS:HD2	8	0.29
(2,273)	1:36:A:ILE:HG23	1:28:A:VAL:HA	8	0.29
(2,247)	1:147:A:ARG:HD2	1:84:A:SER:HA	1	0.29
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	7	0.29
(2,220)	1:50:A:GLN:HB2	1:48:A:LEU:HD13	8	0.29
(2,171)	1:86:A:LYS:HE2	1:86:A:LYS:HD3	1	0.29
(2,171)	1:139:A:LYS:HD2	1:139:A:LYS:HE2	2	0.29
(2,171)	1:86:A:LYS:HE3	1:86:A:LYS:HD2	7	0.29
(2,151)	1:29:A:LEU:HD11	1:26:A:ILE:HB	6	0.29
(2,132)	1:38:A:THR:HG22	1:41:A:LEU:HD21	2	0.29
(2,119)	1:72:A:VAL:HG13	1:76:A:GLU:HG3	8	0.29
(2,118)	1:72:A:VAL:HG13	1:73:A:ASP:HB3	8	0.29
(2,112)	1:150:A:ALA:HB2	1:151:A:ASP:HB2	7	0.29
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE2	3	0.29
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	5	0.29
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	8	0.29
(1,1603)	2:201:A:9XG:HAD	1:61:A:ILE:HD11	1	0.29
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	7	0.29
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	6	0.29
(1,1141)	1:41:A:LEU:HD22	1:41:A:LEU:HA	2	0.29
(1,1079)	1:157:A:LEU:HD12	1:27:A:PHE:HB3	5	0.29
(1,1076)	1:157:A:LEU:HD22	1:27:A:PHE:HB3	6	0.29
(1,1035)	1:75:A:ASP:HA	1:74:A:PHE:HE2	8	0.29
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	2	0.29
(1,663)	1:140:A:ARG:HG2	1:141:A:PRO:HD2	7	0.29
(1,653)	1:48:A:LEU:HD12	1:44:A:VAL:HG21	2	0.29
(1,500)	1:79:A:VAL:HA	1:8:A:ALA:HB1	6	0.29
(1,496)	1:152:A:ALA:HA	1:152:A:ALA:HB2	5	0.29
(1,489)	1:45:A:MET:HE3	1:146:A:VAL:HG11	8	0.29
(1,453)	1:85:A:MET:HE3	1:85:A:MET:HG3	1	0.29
(1,438)	1:61:A:ILE:HG23	1:58:A:GLN:HA	7	0.29
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	2	0.29
(1,294)	1:52:A:PRO:HD2	1:46:A:ARG:HD2	3	0.29
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB3	7	0.29

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:37:A:SER:HB2	1:37:A:SER:HA	7	0.29
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	3	0.29
(1,180)	1:21:A:LYS:HA	1:21:A:LYS:HG3	2	0.29
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD11	7	0.29
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD2	3	0.29
(2,300)	1:27:A:PHE:HE1	1:36:A:ILE:HG23	6	0.28
(2,281)	1:36:A:ILE:HD11	1:77:A:PHE:HA	4	0.28
(2,277)	1:64:A:VAL:HG21	1:65:A:ASP:HB3	8	0.28
(2,243)	1:78:A:LEU:HD13	1:81:A:MET:HE2	1	0.28
(2,205)	1:57:A:LEU:HA	1:41:A:LEU:HD21	6	0.28
(2,171)	1:163:A:LYS:HD3	1:163:A:LYS:HE2	4	0.28
(2,171)	1:163:A:LYS:HD3	1:163:A:LYS:HE2	6	0.28
(2,114)	1:44:A:VAL:HG13	1:27:A:PHE:HA	7	0.28
(2,109)	1:28:A:VAL:HG23	1:25:A:ASP:HB2	2	0.28
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	4	0.28
(2,95)	1:154:A:MET:HE3	1:19:A:GLU:HA	1	0.28
(2,36)	1:71:A:THR:HA	1:70:A:GLY:HA2	5	0.28
(2,34)	1:76:A:GLU:HA	1:76:A:GLU:HG2	6	0.28
(1,1513)	1:11:A:GLN:H	1:11:A:GLN:HB2	4	0.28
(1,1355)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.28
(1,1177)	1:16:A:GLN:HG2	1:12:A:LEU:HD21	8	0.28
(1,1121)	1:44:A:VAL:HG22	1:47:A:MET:HB2	4	0.28
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG21	1	0.28
(1,1083)	1:164:A:GLY:HA2	1:163:A:LYS:HE2	5	0.28
(1,1069)	1:151:A:ASP:HB2	1:152:A:ALA:HA	1	0.28
(1,1048)	1:78:A:LEU:HD23	1:17:A:LYS:HE3	7	0.28
(1,966)	1:39:A:LYS:HE3	1:39:A:LYS:HB2	5	0.28
(1,934)	1:157:A:LEU:HD11	1:27:A:PHE:HD2	1	0.28
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	7	0.28
(1,700)	1:12:A:LEU:HD11	1:12:A:LEU:HA	5	0.28
(1,700)	1:12:A:LEU:HD13	1:12:A:LEU:HA	6	0.28
(1,654)	1:158:A:LEU:HD13	1:19:A:GLU:HG3	1	0.28
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD21	1	0.28
(1,575)	1:158:A:LEU:HD22	1:161:A:ARG:HD2	8	0.28
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG21	3	0.28
(1,555)	1:146:A:VAL:HG11	1:52:A:PRO:HB3	5	0.28
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG12	3	0.28
(1,501)	1:151:A:ASP:HB2	1:152:A:ALA:HB1	3	0.28
(1,483)	1:154:A:MET:HE2	1:158:A:LEU:HD13	6	0.28
(1,453)	1:85:A:MET:HE1	1:85:A:MET:HG3	2	0.28
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	5	0.28
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB1	2	0.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB2	4	0.28
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB1	4	0.28
(1,99)	1:15:A:GLU:HA	1:18:A:ASN:HB2	6	0.28
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	3	0.28
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	4	0.28
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	5	0.28
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD21	3	0.28
(2,232)	1:61:A:ILE:HA	1:72:A:VAL:HB	8	0.27
(2,201)	1:56:A:GLU:HB2	1:146:A:VAL:HG21	3	0.27
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	3	0.27
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	4	0.27
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	5	0.27
(2,151)	1:29:A:LEU:HD13	1:26:A:ILE:HB	2	0.27
(2,126)	1:38:A:THR:HG23	1:57:A:LEU:HA	1	0.27
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG12	1	0.27
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	3	0.27
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE3	4	0.27
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD2	1	0.27
(2,11)	1:4:A:ILE:HA	1:3:A:ASP:HB2	3	0.27
(2,7)	1:44:A:VAL:HA	1:48:A:LEU:HD22	7	0.27
(1,1248)	1:74:A:PHE:HE2	1:21:A:LYS:HB3	7	0.27
(1,1090)	1:78:A:LEU:HD13	1:74:A:PHE:HD1	1	0.27
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE2	6	0.27
(1,827)	1:7:A:ALA:HB2	1:10:A:GLU:HB2	5	0.27
(1,700)	1:12:A:LEU:HD12	1:12:A:LEU:HA	1	0.27
(1,621)	1:78:A:LEU:HD23	1:20:A:PHE:HB2	6	0.27
(1,546)	1:8:A:ALA:HA	1:82:A:VAL:HG12	1	0.27
(1,524)	1:31:A:ALA:HB1	1:28:A:VAL:HG13	4	0.27
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG22	3	0.27
(1,414)	1:138:A:PHE:HB3	1:137:A:LYS:HB3	3	0.27
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG21	8	0.27
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD12	6	0.27
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB2	4	0.27
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	5	0.27
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	5	0.27
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	2	0.27
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	7	0.27
(1,180)	1:21:A:LYS:HA	1:21:A:LYS:HG3	4	0.27
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD11	1	0.27
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB2	3	0.27
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB2	6	0.27
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB1	7	0.27

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB2	7	0.27
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG23	5	0.27
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD21	1	0.27
(2,289)	1:155:A:GLN:HG3	1:158:A:LEU:HD11	4	0.26
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	2	0.26
(2,221)	1:10:A:GLU:HA	1:10:A:GLU:HG2	2	0.26
(2,201)	1:12:A:LEU:HD23	1:16:A:GLN:HB2	7	0.26
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB3	1	0.26
(2,192)	1:9:A:VAL:HG11	1:9:A:VAL:HB	7	0.26
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	8	0.26
(2,171)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	5	0.26
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	7	0.26
(2,126)	1:38:A:THR:HG21	1:57:A:LEU:HA	4	0.26
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG11	8	0.26
(2,113)	1:44:A:VAL:HG13	1:45:A:MET:HA	4	0.26
(2,99)	1:81:A:MET:HE2	1:20:A:PHE:HD1	7	0.26
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG23	3	0.26
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG3	2	0.26
(2,68)	1:6:A:LYS:HE2	1:6:A:LYS:HG2	6	0.26
(2,68)	1:86:A:LYS:HE2	1:86:A:LYS:HG3	8	0.26
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	1	0.26
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	4	0.26
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD2	4	0.26
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG22	7	0.26
(1,1067)	1:145:A:ARG:HD2	1:145:A:ARG:HA	5	0.26
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE1	4	0.26
(1,1008)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	5	0.26
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	2	0.26
(1,954)	1:28:A:VAL:HG21	1:40:A:GLU:HG2	5	0.26
(1,838)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	7	0.26
(1,827)	1:7:A:ALA:HB1	1:10:A:GLU:HB2	3	0.26
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB2	2	0.26
(1,728)	1:26:A:ILE:HG12	1:29:A:LEU:HD13	3	0.26
(1,602)	1:27:A:PHE:HA	1:157:A:LEU:HD23	5	0.26
(1,591)	1:9:A:VAL:HG23	1:10:A:GLU:HG3	1	0.26
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG11	4	0.26
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	1	0.26
(1,455)	1:1:A:MET:HE2	1:1:A:MET:HA	6	0.26
(1,453)	1:85:A:MET:HE3	1:85:A:MET:HG3	4	0.26
(1,449)	1:47:A:MET:HE2	1:157:A:LEU:HD23	8	0.26
(1,438)	1:61:A:ILE:HG21	1:58:A:GLN:HA	5	0.26
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB3	2	0.26

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG21	1	0.26
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	6	0.26
(1,180)	1:21:A:LYS:HA	1:21:A:LYS:HG3	5	0.26
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB3	5	0.26
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG23	2	0.26
(2,294)	1:5:A:TYR:HE2	1:86:A:LYS:HD2	7	0.25
(2,259)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	2	0.25
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	8	0.25
(2,238)	1:71:A:THR:HA	1:38:A:THR:HG23	6	0.25
(2,232)	1:61:A:ILE:HA	1:60:A:MET:HB2	6	0.25
(2,231)	1:155:A:GLN:HB2	1:48:A:LEU:HD21	4	0.25
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB3	2	0.25
(2,192)	1:9:A:VAL:HG13	1:9:A:VAL:HB	2	0.25
(2,192)	1:9:A:VAL:HG12	1:9:A:VAL:HB	6	0.25
(2,186)	1:36:A:ILE:HG22	1:72:A:VAL:HB	8	0.25
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	1	0.25
(2,150)	1:39:A:LYS:HG3	1:39:A:LYS:HB3	2	0.25
(2,123)	1:146:A:VAL:HG11	1:145:A:ARG:HA	4	0.25
(2,83)	1:47:A:MET:HE2	1:26:A:ILE:HG23	1	0.25
(2,76)	1:61:A:ILE:HD11	1:38:A:THR:HB	7	0.25
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE2	8	0.25
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	2	0.25
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	5	0.25
(1,1299)	1:39:A:LYS:H	1:39:A:LYS:HB3	3	0.25
(1,1243)	1:78:A:LEU:HD21	1:20:A:PHE:HD1	4	0.25
(1,1069)	1:151:A:ASP:HB3	1:152:A:ALA:HA	6	0.25
(1,1028)	1:35:A:SER:HB2	1:73:A:ASP:HB3	2	0.25
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	7	0.25
(1,890)	1:86:A:LYS:HB3	1:86:A:LYS:HA	4	0.25
(1,775)	1:11:A:GLN:HG3	1:11:A:GLN:HA	5	0.25
(1,752)	1:55:A:GLU:HB3	1:55:A:GLU:HG3	1	0.25
(1,752)	1:55:A:GLU:HB3	1:55:A:GLU:HG3	4	0.25
(1,700)	1:12:A:LEU:HD13	1:12:A:LEU:HA	4	0.25
(1,688)	1:145:A:ARG:HG2	1:145:A:ARG:HA	3	0.25
(1,621)	1:78:A:LEU:HD23	1:20:A:PHE:HB2	4	0.25
(1,617)	1:29:A:LEU:HD12	1:157:A:LEU:HB3	5	0.25
(1,523)	1:31:A:ALA:HB3	1:28:A:VAL:HG21	4	0.25
(1,453)	1:85:A:MET:HE3	1:85:A:MET:HG3	3	0.25
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG22	6	0.25
(1,287)	1:54:A:PRO:HD2	1:53:A:THR:HG21	1	0.25
(1,265)	1:73:A:ASP:HA	1:24:A:PHE:HD2	4	0.25
(1,264)	1:162:A:ALA:HA	1:158:A:LEU:HD12	3	0.25

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:35:A:SER:HA	1:73:A:ASP:HB2	7	0.25
(1,222)	1:151:A:ASP:HA	1:81:A:MET:HE2	5	0.25
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD11	6	0.25
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB3	1	0.25
(1,154)	1:22:A:ALA:HA	1:22:A:ALA:HB1	8	0.25
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD3	8	0.25
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	6	0.24
(2,281)	1:36:A:ILE:HD12	1:77:A:PHE:HA	7	0.24
(2,269)	1:22:A:ALA:HB2	1:25:A:ASP:HB3	4	0.24
(2,247)	1:84:A:SER:HA	1:147:A:ARG:HD3	3	0.24
(2,247)	1:147:A:ARG:HD2	1:84:A:SER:HA	5	0.24
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	5	0.24
(2,198)	1:10:A:GLU:HB3	1:9:A:VAL:HG12	4	0.24
(2,192)	1:9:A:VAL:HG13	1:9:A:VAL:HB	3	0.24
(2,192)	1:9:A:VAL:HG13	1:9:A:VAL:HB	8	0.24
(2,189)	1:85:A:MET:HG3	1:85:A:MET:HA	1	0.24
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	2	0.24
(2,176)	1:66:A:GLU:HG3	1:66:A:GLU:HB2	7	0.24
(2,171)	1:139:A:LYS:HD3	1:139:A:LYS:HE2	8	0.24
(2,158)	1:158:A:LEU:HD11	1:23:A:ALA:HB2	2	0.24
(2,156)	1:157:A:LEU:HD11	1:27:A:PHE:HA	3	0.24
(2,154)	1:158:A:LEU:HD12	1:44:A:VAL:HG12	3	0.24
(2,143)	1:143:A:LEU:HD22	1:59:A:GLU:HB3	1	0.24
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	6	0.24
(1,1451)	1:69:A:SER:H	1:69:A:SER:HB2	6	0.24
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG2	8	0.24
(1,1299)	1:39:A:LYS:H	1:39:A:LYS:HB3	5	0.24
(1,1140)	1:41:A:LEU:HD22	1:45:A:MET:HG3	4	0.24
(1,1114)	1:152:A:ALA:HB3	1:149:A:SER:HA	3	0.24
(1,1011)	1:72:A:VAL:HG21	1:65:A:ASP:HB2	3	0.24
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG13	2	0.24
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG12	3	0.24
(1,921)	1:82:A:VAL:HG22	1:20:A:PHE:HE2	3	0.24
(1,752)	1:55:A:GLU:HB3	1:55:A:GLU:HG3	3	0.24
(1,752)	1:55:A:GLU:HB3	1:55:A:GLU:HG3	5	0.24
(1,700)	1:12:A:LEU:HD12	1:12:A:LEU:HA	2	0.24
(1,700)	1:12:A:LEU:HD11	1:12:A:LEU:HA	3	0.24
(1,609)	1:57:A:LEU:HD22	1:45:A:MET:HG2	7	0.24
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD21	5	0.24
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG12	2	0.24
(1,445)	1:47:A:MET:HE1	1:156:A:ALA:HB2	7	0.24
(1,369)	1:17:A:LYS:HE2	1:17:A:LYS:HB2	8	0.24

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:46:A:ARG:HA	1:46:A:ARG:HD3	6	0.24
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB3	3	0.24
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB2	7	0.24
(1,147)	1:12:A:LEU:HA	1:16:A:GLN:HB3	7	0.24
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD22	8	0.24
(1,125)	1:60:A:MET:HA	1:143:A:LEU:HB2	5	0.24
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD2	3	0.24
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB3	3	0.24
(1,55)	1:4:A:ILE:HA	1:7:A:ALA:HB2	6	0.24
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	3	0.23
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	5	0.23
(2,192)	1:9:A:VAL:HG21	1:9:A:VAL:HB	1	0.23
(2,192)	1:9:A:VAL:HG13	1:9:A:VAL:HB	5	0.23
(2,171)	1:163:A:LYS:HD3	1:163:A:LYS:HE2	3	0.23
(2,130)	1:71:A:THR:HG21	1:33:A:ASP:HB3	5	0.23
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG12	5	0.23
(2,95)	1:154:A:MET:HE2	1:19:A:GLU:HA	5	0.23
(2,77)	1:27:A:PHE:HA	1:26:A:ILE:HD12	2	0.23
(2,55)	1:52:A:PRO:HD3	1:146:A:VAL:HG12	7	0.23
(2,50)	1:51:A:ASN:HA	1:46:A:ARG:HG2	2	0.23
(2,33)	1:16:A:GLN:HA	1:19:A:GLU:HB2	2	0.23
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	1	0.23
(2,32)	1:63:A:GLU:HA	1:63:A:GLU:HB2	7	0.23
(2,27)	1:6:A:LYS:HA	1:6:A:LYS:HG2	2	0.23
(2,27)	1:153:A:MET:HA	1:156:A:ALA:HB2	6	0.23
(2,2)	1:38:A:THR:HB	1:41:A:LEU:HB3	3	0.23
(2,2)	1:38:A:THR:HB	1:57:A:LEU:HG	7	0.23
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	3	0.23
(1,1180)	1:163:A:LYS:HG2	1:163:A:LYS:HA	3	0.23
(1,1166)	1:21:A:LYS:HG3	1:18:A:ASN:HA	7	0.23
(1,1085)	1:26:A:ILE:HD13	1:25:A:ASP:HB2	4	0.23
(1,1069)	1:151:A:ASP:HB3	1:152:A:ALA:HA	7	0.23
(1,1067)	1:145:A:ARG:HD3	1:145:A:ARG:HA	8	0.23
(1,963)	1:36:A:ILE:HG13	1:28:A:VAL:HG22	7	0.23
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	6	0.23
(1,695)	1:38:A:THR:HA	1:41:A:LEU:HD21	8	0.23
(1,639)	1:78:A:LEU:HD11	1:74:A:PHE:HZ	6	0.23
(1,607)	1:57:A:LEU:HD22	1:38:A:THR:HA	2	0.23
(1,572)	1:82:A:VAL:HG23	1:5:A:TYR:HB3	1	0.23
(1,568)	1:37:A:SER:HB2	1:71:A:THR:HG22	1	0.23
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG12	5	0.23
(1,523)	1:31:A:ALA:HB1	1:28:A:VAL:HG23	5	0.23

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:156:A:ALA:HB3	1:156:A:ALA:HA	2	0.23
(1,423)	1:61:A:ILE:HD11	1:72:A:VAL:HB	5	0.23
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	3	0.23
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	4	0.23
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	4	0.23
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	5	0.23
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB2	1	0.23
(1,256)	1:7:A:ALA:HA	1:7:A:ALA:HB1	5	0.23
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB2	6	0.23
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG22	5	0.23
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	7	0.23
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD3	7	0.23
(1,118)	1:6:A:LYS:HA	1:6:A:LYS:HB3	5	0.23
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	1	0.23
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD23	6	0.23
(1,13)	1:79:A:VAL:HA	1:79:A:VAL:HG13	4	0.23
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD21	4	0.22
(2,201)	1:56:A:GLU:HB2	1:146:A:VAL:HG23	2	0.22
(2,180)	1:8:A:ALA:HB2	1:11:A:GLN:HG2	5	0.22
(2,139)	1:48:A:LEU:HD22	1:48:A:LEU:HG	3	0.22
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	5	0.22
(2,134)	1:2:A:ASP:HB2	1:79:A:VAL:HG22	4	0.22
(2,120)	1:83:A:ARG:HA	1:82:A:VAL:HG11	7	0.22
(2,99)	1:81:A:MET:HE2	1:20:A:PHE:HD2	2	0.22
(2,97)	1:7:A:ALA:HB1	1:11:A:GLN:HB3	6	0.22
(2,23)	1:14:A:GLU:HA	1:14:A:GLU:HG3	7	0.22
(2,8)	1:35:A:SER:HB2	1:73:A:ASP:HA	5	0.22
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	2	0.22
(1,1462)	1:154:A:MET:H	1:154:A:MET:HG3	6	0.22
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	8	0.22
(1,1202)	1:4:A:ILE:HD13	1:5:A:TYR:HE1	4	0.22
(1,1154)	1:4:A:ILE:HD13	1:2:A:ASP:HB2	5	0.22
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE1	4	0.22
(1,1081)	1:154:A:MET:HB3	1:158:A:LEU:HD11	8	0.22
(1,1077)	1:158:A:LEU:HD21	1:154:A:MET:HG2	5	0.22
(1,1066)	1:147:A:ARG:HD3	1:147:A:ARG:HA	2	0.22
(1,975)	1:43:A:LYS:HG3	1:44:A:VAL:HG22	2	0.22
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG11	6	0.22
(1,827)	1:7:A:ALA:HB3	1:10:A:GLU:HB2	4	0.22
(1,815)	1:80:A:MET:HG3	1:84:A:SER:HB3	7	0.22
(1,763)	1:72:A:VAL:HG13	1:76:A:GLU:HG2	2	0.22
(1,497)	1:156:A:ALA:HB2	1:156:A:ALA:HA	5	0.22

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:156:A:ALA:HB1	1:156:A:ALA:HA	7	0.22
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG21	4	0.22
(1,362)	1:2:A:ASP:HB3	1:2:A:ASP:HA	6	0.22
(1,292)	1:52:A:PRO:HD3	1:57:A:LEU:HD22	7	0.22
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	3	0.22
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	5	0.22
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	7	0.22
(1,251)	1:150:A:ALA:HA	1:148:A:ILE:HG23	2	0.22
(1,229)	1:35:A:SER:HA	1:73:A:ASP:HB2	6	0.22
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	3	0.22
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	4	0.22
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	5	0.22
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	5	0.22
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE3	4	0.22
(1,99)	1:15:A:GLU:HA	1:18:A:ASN:HB2	7	0.22
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	2	0.22
(2,349)	1:155:A:GLN:H	1:155:A:GLN:HB3	6	0.21
(2,344)	1:155:A:GLN:H	1:155:A:GLN:HA	8	0.21
(2,263)	1:74:A:PHE:HB3	1:74:A:PHE:HE2	4	0.21
(2,247)	1:84:A:SER:HA	1:140:A:ARG:HD2	8	0.21
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	4	0.21
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	2	0.21
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD22	2	0.21
(2,189)	1:85:A:MET:HG3	1:85:A:MET:HA	2	0.21
(2,188)	1:85:A:MET:HA	1:85:A:MET:HG2	1	0.21
(2,159)	1:48:A:LEU:HD13	1:48:A:LEU:HG	6	0.21
(2,151)	1:29:A:LEU:HD12	1:26:A:ILE:HB	5	0.21
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	1	0.21
(2,139)	1:48:A:LEU:HD22	1:48:A:LEU:HG	2	0.21
(2,139)	1:48:A:LEU:HD22	1:48:A:LEU:HG	4	0.21
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	5	0.21
(2,77)	1:27:A:PHE:HA	1:26:A:ILE:HD13	7	0.21
(2,69)	1:43:A:LYS:HE2	1:29:A:LEU:HD11	4	0.21
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG3	5	0.21
(2,9)	1:9:A:VAL:HA	1:17:A:LYS:HG2	7	0.21
(1,1615)	2:201:A:9XG:HAJ	1:60:A:MET:HE3	8	0.21
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	6	0.21
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	4	0.21
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	5	0.21
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD1	2	0.21
(1,1166)	1:21:A:LYS:HG3	1:18:A:ASN:HA	3	0.21
(1,1114)	1:152:A:ALA:HB3	1:149:A:SER:HA	1	0.21

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:152:A:ALA:HB1	1:149:A:SER:HA	4	0.21
(1,1109)	1:52:A:PRO:HD2	1:45:A:MET:HE2	2	0.21
(1,964)	1:61:A:ILE:HD13	1:37:A:SER:HB2	7	0.21
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG12	1	0.21
(1,954)	1:28:A:VAL:HG23	1:40:A:GLU:HG2	7	0.21
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	4	0.21
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	5	0.21
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	2	0.21
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	8	0.21
(1,862)	1:161:A:ARG:HB2	1:161:A:ARG:HD2	1	0.21
(1,862)	1:161:A:ARG:HB2	1:161:A:ARG:HD2	4	0.21
(1,796)	1:61:A:ILE:HG23	1:58:A:GLN:HG3	8	0.21
(1,777)	1:11:A:GLN:HG3	1:11:A:GLN:HB2	7	0.21
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	5	0.21
(1,578)	1:158:A:LEU:HB2	1:158:A:LEU:HD22	2	0.21
(1,497)	1:156:A:ALA:HB1	1:156:A:ALA:HA	1	0.21
(1,490)	1:26:A:ILE:HD11	1:22:A:ALA:HB1	7	0.21
(1,361)	1:88:A:ASP:HB2	1:88:A:ASP:HA	3	0.21
(1,330)	1:46:A:ARG:HA	1:46:A:ARG:HD2	4	0.21
(1,311)	1:34:A:GLY:HA3	1:28:A:VAL:HG23	7	0.21
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	2	0.21
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	8	0.21
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	8	0.21
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	3	0.21
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG21	7	0.21
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	1	0.21
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	2	0.21
(1,160)	1:23:A:ALA:HA	1:26:A:ILE:HG12	8	0.21
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD23	6	0.21
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD2	5	0.21
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE2	5	0.21
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	1	0.21
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	8	0.21
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	1	0.21
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD22	2	0.21
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	7	0.2
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	5	0.2
(2,220)	1:50:A:GLN:HB2	1:146:A:VAL:HG11	2	0.2
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB2	3	0.2
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB3	8	0.2
(2,195)	1:11:A:GLN:HB2	1:8:A:ALA:HA	8	0.2
(2,178)	1:155:A:GLN:HG3	1:158:A:LEU:HB3	3	0.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,178)	1:155:A:GLN:HG3	1:158:A:LEU:HB3	7	0.2
(2,159)	1:48:A:LEU:HD12	1:48:A:LEU:HG	1	0.2
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	2	0.2
(2,155)	1:78:A:LEU:HD12	1:17:A:LYS:HG3	8	0.2
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	8	0.2
(2,126)	1:38:A:THR:HG22	1:57:A:LEU:HA	2	0.2
(2,102)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	1	0.2
(2,95)	1:154:A:MET:HE2	1:19:A:GLU:HA	2	0.2
(2,48)	1:50:A:GLN:HA	1:45:A:MET:HE1	4	0.2
(2,17)	1:55:A:GLU:HA	1:55:A:GLU:HG2	3	0.2
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	4	0.2
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	5	0.2
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	6	0.2
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	7	0.2
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	8	0.2
(2,2)	1:38:A:THR:HB	1:41:A:LEU:HB3	2	0.2
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	3	0.2
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	1	0.2
(1,1469)	1:45:A:MET:H	1:45:A:MET:HG3	6	0.2
(1,1412)	1:86:A:LYS:H	1:86:A:LYS:HG2	7	0.2
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE1	3	0.2
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE1	6	0.2
(1,1182)	1:140:A:ARG:HA	1:141:A:PRO:HG3	6	0.2
(1,1180)	1:163:A:LYS:HG3	1:163:A:LYS:HA	1	0.2
(1,1090)	1:78:A:LEU:HD11	1:74:A:PHE:HD2	6	0.2
(1,1066)	1:147:A:ARG:HD3	1:147:A:ARG:HA	3	0.2
(1,1063)	1:149:A:SER:HB2	1:151:A:ASP:HB2	5	0.2
(1,1050)	1:78:A:LEU:HG	1:74:A:PHE:HE1	1	0.2
(1,840)	1:141:A:PRO:HD2	1:140:A:ARG:HB3	2	0.2
(1,816)	1:21:A:LYS:HB3	1:18:A:ASN:HA	1	0.2
(1,776)	1:11:A:GLN:HG3	1:8:A:ALA:HA	8	0.2
(1,764)	1:8:A:ALA:HB3	1:10:A:GLU:HG3	4	0.2
(1,763)	1:72:A:VAL:HG13	1:76:A:GLU:HG2	8	0.2
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	2	0.2
(1,688)	1:145:A:ARG:HG2	1:145:A:ARG:HA	7	0.2
(1,643)	1:78:A:LEU:HD11	1:81:A:MET:HG2	7	0.2
(1,622)	1:78:A:LEU:HD21	1:17:A:LYS:HB3	3	0.2
(1,590)	1:79:A:VAL:HG22	1:5:A:TYR:HB2	3	0.2
(1,576)	1:158:A:LEU:HB3	1:158:A:LEU:HD23	7	0.2
(1,563)	1:72:A:VAL:HG12	1:76:A:GLU:HB3	3	0.2
(1,470)	1:36:A:ILE:HG21	1:72:A:VAL:HB	3	0.2
(1,455)	1:1:A:MET:HE1	1:1:A:MET:HA	1	0.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG21	2	0.2
(1,361)	1:88:A:ASP:HB3	1:88:A:ASP:HA	2	0.2
(1,330)	1:46:A:ARG:HA	1:46:A:ARG:HD2	2	0.2
(1,279)	1:141:A:PRO:HD3	1:141:A:PRO:HB2	7	0.2
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	4	0.2
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	8	0.2
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	3	0.2
(1,136)	1:20:A:PHE:HA	1:78:A:LEU:HD23	4	0.2
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB3	3	0.2
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	3	0.2
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	2	0.2
(2,275)	1:44:A:VAL:HG22	1:156:A:ALA:HB3	4	0.19
(2,269)	1:22:A:ALA:HB3	1:25:A:ASP:HB3	3	0.19
(2,259)	1:61:A:ILE:HD13	1:58:A:GLN:HG3	3	0.19
(2,259)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	6	0.19
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	5	0.19
(2,231)	1:155:A:GLN:HB2	1:48:A:LEU:HD21	2	0.19
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB3	5	0.19
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	6	0.19
(2,195)	1:11:A:GLN:HB2	1:8:A:ALA:HA	1	0.19
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	2	0.19
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	5	0.19
(2,18)	1:55:A:GLU:HA	1:55:A:GLU:HB3	2	0.19
(2,18)	1:15:A:GLU:HA	1:15:A:GLU:HB3	7	0.19
(2,14)	1:146:A:VAL:HA	1:45:A:MET:HE3	3	0.19
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	1	0.19
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	2	0.19
(2,13)	1:24:A:PHE:HA	1:24:A:PHE:HB3	3	0.19
(1,1587)	1:28:A:VAL:H	1:26:A:ILE:HB	1	0.19
(1,1207)	1:27:A:PHE:HZ	1:157:A:LEU:HD13	6	0.19
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE2	1	0.19
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE1	2	0.19
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE2	4	0.19
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE2	8	0.19
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD2	1	0.19
(1,1180)	1:163:A:LYS:HG2	1:163:A:LYS:HA	8	0.19
(1,1171)	1:1:A:MET:HG3	1:6:A:LYS:HG2	1	0.19
(1,1114)	1:152:A:ALA:HB2	1:149:A:SER:HA	2	0.19
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG23	2	0.19
(1,1079)	1:157:A:LEU:HD12	1:27:A:PHE:HB3	7	0.19
(1,1024)	1:72:A:VAL:HG23	1:36:A:ILE:HD12	7	0.19
(1,960)	1:35:A:SER:HB3	1:28:A:VAL:HG11	4	0.19

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	2	0.19
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	2	0.19
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	3	0.19
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	4	0.19
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	4	0.19
(1,708)	1:46:A:ARG:HA	1:46:A:ARG:HG2	8	0.19
(1,501)	1:151:A:ASP:HB2	1:152:A:ALA:HB1	5	0.19
(1,497)	1:156:A:ALA:HB1	1:156:A:ALA:HA	3	0.19
(1,497)	1:156:A:ALA:HB3	1:156:A:ALA:HA	6	0.19
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG21	1	0.19
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG21	4	0.19
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	7	0.19
(1,360)	1:137:A:LYS:HE2	1:137:A:LYS:HG2	4	0.19
(1,340)	1:157:A:LEU:HB3	1:26:A:ILE:HB	8	0.19
(1,288)	1:52:A:PRO:HD3	1:46:A:ARG:HD2	5	0.19
(1,280)	1:141:A:PRO:HD3	1:140:A:ARG:HB3	7	0.19
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	1	0.19
(1,250)	1:81:A:MET:HA	1:81:A:MET:HB3	4	0.19
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	2	0.19
(1,245)	1:158:A:LEU:HA	1:158:A:LEU:HG	7	0.19
(1,198)	1:41:A:LEU:HA	1:36:A:ILE:HG12	8	0.19
(1,161)	1:23:A:ALA:HA	1:26:A:ILE:HD11	7	0.19
(1,121)	1:89:A:SER:HA	1:90:A:LYS:HG3	8	0.19
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	1	0.19
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB3	4	0.19
(2,344)	1:155:A:GLN:H	1:155:A:GLN:HA	7	0.18
(2,275)	1:44:A:VAL:HG21	1:157:A:LEU:HB2	7	0.18
(2,233)	1:85:A:MET:HG3	1:84:A:SER:HB3	8	0.18
(2,204)	1:89:A:SER:HB2	1:137:A:LYS:HD3	7	0.18
(2,200)	1:59:A:GLU:HA	1:59:A:GLU:HB2	6	0.18
(2,200)	1:32:A:GLU:HA	1:32:A:GLU:HB2	7	0.18
(2,197)	1:43:A:LYS:HD3	1:27:A:PHE:HA	4	0.18
(2,195)	1:11:A:GLN:HB2	1:8:A:ALA:HA	5	0.18
(2,180)	1:155:A:GLN:HG3	1:158:A:LEU:HB2	2	0.18
(2,159)	1:48:A:LEU:HD13	1:48:A:LEU:HG	8	0.18
(2,143)	1:143:A:LEU:HD22	1:59:A:GLU:HB3	5	0.18
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	6	0.18
(2,139)	1:48:A:LEU:HD23	1:48:A:LEU:HG	7	0.18
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG13	6	0.18
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG12	4	0.18
(2,115)	1:13:A:THR:HB	1:13:A:THR:HG21	1	0.18
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG22	3	0.18

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	5	0.18
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	6	0.18
(2,91)	1:36:A:ILE:HG23	1:27:A:PHE:HB2	7	0.18
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	3	0.18
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	4	0.18
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HB2	6	0.18
(2,36)	1:71:A:THR:HA	1:70:A:GLY:HA2	7	0.18
(1,1595)	1:154:A:MET:HE3	1:20:A:PHE:HB3	3	0.18
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	3	0.18
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	6	0.18
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD2	7	0.18
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE2	5	0.18
(1,1204)	1:27:A:PHE:HZ	1:27:A:PHE:HE1	7	0.18
(1,1180)	1:163:A:LYS:HG2	1:163:A:LYS:HA	6	0.18
(1,1130)	1:158:A:LEU:HD11	1:155:A:GLN:HA	4	0.18
(1,1126)	1:146:A:VAL:HG23	1:145:A:ARG:HD3	1	0.18
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG21	4	0.18
(1,1079)	1:157:A:LEU:HD11	1:27:A:PHE:HB3	1	0.18
(1,1073)	1:148:A:ILE:HD12	1:27:A:PHE:HE2	6	0.18
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG11	3	0.18
(1,954)	1:28:A:VAL:HG22	1:40:A:GLU:HG2	3	0.18
(1,954)	1:28:A:VAL:HG23	1:40:A:GLU:HG2	4	0.18
(1,926)	1:41:A:LEU:HA	1:44:A:VAL:HB	5	0.18
(1,859)	1:79:A:VAL:HA	1:79:A:VAL:HB	3	0.18
(1,859)	1:79:A:VAL:HA	1:79:A:VAL:HB	8	0.18
(1,838)	1:161:A:ARG:HB3	1:161:A:ARG:HD3	8	0.18
(1,833)	1:63:A:GLU:HA	1:63:A:GLU:HB2	3	0.18
(1,827)	1:7:A:ALA:HB1	1:10:A:GLU:HB2	7	0.18
(1,779)	1:155:A:GLN:HG3	1:162:A:ALA:HB3	7	0.18
(1,775)	1:11:A:GLN:HG3	1:11:A:GLN:HA	1	0.18
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	6	0.18
(1,697)	1:41:A:LEU:HD22	1:60:A:MET:HB3	4	0.18
(1,688)	1:145:A:ARG:HG2	1:145:A:ARG:HA	1	0.18
(1,639)	1:78:A:LEU:HD13	1:74:A:PHE:HZ	5	0.18
(1,631)	1:6:A:LYS:HA	1:6:A:LYS:HG3	5	0.18
(1,547)	1:9:A:VAL:HG12	1:9:A:VAL:HA	2	0.18
(1,501)	1:151:A:ASP:HB2	1:152:A:ALA:HB3	2	0.18
(1,497)	1:156:A:ALA:HB2	1:156:A:ALA:HA	4	0.18
(1,485)	1:45:A:MET:HE2	1:57:A:LEU:HA	7	0.18
(1,470)	1:36:A:ILE:HG23	1:72:A:VAL:HB	4	0.18
(1,457)	1:1:A:MET:HE2	1:5:A:TYR:HB2	5	0.18
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG21	5	0.18

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	6	0.18
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB3	8	0.18
(1,369)	1:17:A:LYS:HE2	1:17:A:LYS:HB3	3	0.18
(1,361)	1:88:A:ASP:HB3	1:88:A:ASP:HA	1	0.18
(1,279)	1:141:A:PRO:HD3	1:141:A:PRO:HB2	8	0.18
(1,272)	1:31:A:ALA:HA	1:32:A:GLU:HB2	2	0.18
(1,250)	1:81:A:MET:HA	1:81:A:MET:HB3	5	0.18
(1,249)	1:81:A:MET:HA	1:81:A:MET:HG3	8	0.18
(1,215)	1:154:A:MET:HA	1:23:A:ALA:HB2	6	0.18
(1,210)	1:58:A:GLN:HA	1:61:A:ILE:HD13	3	0.18
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	1	0.18
(1,192)	1:66:A:GLU:HA	1:66:A:GLU:HB2	7	0.18
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	5	0.18
(1,120)	1:89:A:SER:HA	1:137:A:LYS:HD2	4	0.18
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE2	6	0.18
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	6	0.18
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD23	4	0.18
(1,20)	1:54:A:PRO:HA	1:57:A:LEU:HD21	7	0.18
(2,294)	1:5:A:TYR:HE1	1:86:A:LYS:HD2	5	0.17
(2,277)	1:146:A:VAL:HG22	1:60:A:MET:HG3	1	0.17
(2,269)	1:22:A:ALA:HB3	1:25:A:ASP:HB3	5	0.17
(2,254)	1:157:A:LEU:HD12	1:27:A:PHE:HB2	5	0.17
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	1	0.17
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	3	0.17
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	4	0.17
(2,221)	1:10:A:GLU:HA	1:10:A:GLU:HG2	1	0.17
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	4	0.17
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	7	0.17
(2,123)	1:146:A:VAL:HG11	1:145:A:ARG:HA	3	0.17
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	2	0.17
(2,115)	1:13:A:THR:HB	1:13:A:THR:HG22	4	0.17
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	7	0.17
(2,115)	1:53:A:THR:HB	1:53:A:THR:HG21	8	0.17
(2,111)	1:160:A:ALA:HB1	1:26:A:ILE:HD13	2	0.17
(2,90)	1:150:A:ALA:HA	1:148:A:ILE:HG23	5	0.17
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	2	0.17
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	4	0.17
(2,2)	1:38:A:THR:HB	1:57:A:LEU:HG	6	0.17
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	2	0.17
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD2	3	0.17
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD1	6	0.17
(1,1201)	1:4:A:ILE:HG23	1:5:A:TYR:HE1	1	0.17

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD1	3	0.17
(1,1179)	1:39:A:LYS:HG2	1:39:A:LYS:HE2	6	0.17
(1,893)	1:83:A:ARG:HA	1:86:A:LYS:HB3	8	0.17
(1,825)	1:43:A:LYS:HD2	1:43:A:LYS:HG3	5	0.17
(1,777)	1:11:A:GLN:HG3	1:11:A:GLN:HB2	1	0.17
(1,775)	1:11:A:GLN:HG3	1:11:A:GLN:HA	2	0.17
(1,708)	1:46:A:ARG:HA	1:46:A:ARG:HG2	7	0.17
(1,606)	1:47:A:MET:HE2	1:44:A:VAL:HG23	3	0.17
(1,593)	1:12:A:LEU:HD23	1:12:A:LEU:HG	6	0.17
(1,587)	1:61:A:ILE:HA	1:72:A:VAL:HG23	3	0.17
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG11	3	0.17
(1,486)	1:45:A:MET:HE2	1:60:A:MET:HG3	3	0.17
(1,407)	1:36:A:ILE:HB	1:72:A:VAL:HG23	7	0.17
(1,361)	1:88:A:ASP:HB3	1:88:A:ASP:HA	8	0.17
(1,285)	1:54:A:PRO:HD2	1:54:A:PRO:HB3	6	0.17
(1,251)	1:150:A:ALA:HA	1:148:A:ILE:HG23	1	0.17
(1,243)	1:3:A:ASP:HA	1:6:A:LYS:HG2	8	0.17
(1,210)	1:58:A:GLN:HA	1:61:A:ILE:HD12	8	0.17
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	2	0.17
(1,161)	1:23:A:ALA:HA	1:26:A:ILE:HD12	8	0.17
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	3	0.17
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	5	0.17
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE3	1	0.17
(1,55)	1:4:A:ILE:HA	1:7:A:ALA:HB1	4	0.17
(1,53)	1:26:A:ILE:HA	1:26:A:ILE:HG22	8	0.17
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	4	0.17
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	5	0.16
(2,315)	1:87:A:ASP:H	1:86:A:LYS:HA	4	0.16
(2,246)	1:82:A:VAL:HB	1:83:A:ARG:HA	7	0.16
(2,158)	1:158:A:LEU:HD11	1:23:A:ALA:HB2	4	0.16
(2,155)	1:78:A:LEU:HD13	1:17:A:LYS:HG3	4	0.16
(2,143)	1:143:A:LEU:HD22	1:59:A:GLU:HB3	4	0.16
(2,135)	1:72:A:VAL:HG22	1:76:A:GLU:HB2	4	0.16
(2,132)	1:38:A:THR:HG23	1:41:A:LEU:HD22	5	0.16
(2,126)	1:38:A:THR:HG23	1:57:A:LEU:HA	8	0.16
(2,82)	1:1:A:MET:HE2	1:78:A:LEU:HB2	6	0.16
(2,64)	1:41:A:LEU:HB2	1:45:A:MET:HE2	1	0.16
(2,52)	1:52:A:PRO:HD3	1:45:A:MET:HG3	1	0.16
(2,51)	1:51:A:ASN:HA	1:45:A:MET:HB2	7	0.16
(2,44)	1:140:A:ARG:HA	1:141:A:PRO:HG3	6	0.16
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HB3	8	0.16
(2,18)	1:15:A:GLU:HA	1:15:A:GLU:HB3	4	0.16

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:55:A:GLU:HA	1:55:A:GLU:HB3	5	0.16
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	8	0.16
(1,1248)	1:74:A:PHE:HE1	1:21:A:LYS:HB3	1	0.16
(1,1202)	1:4:A:ILE:HD11	1:5:A:TYR:HE2	1	0.16
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE1	1	0.16
(1,1076)	1:157:A:LEU:HD21	1:27:A:PHE:HB3	4	0.16
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	2	0.16
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	3	0.16
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	5	0.16
(1,979)	1:45:A:MET:HG3	1:44:A:VAL:HG12	5	0.16
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	5	0.16
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	5	0.16
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	1	0.16
(1,777)	1:11:A:GLN:HG3	1:11:A:GLN:HB2	5	0.16
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	5	0.16
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	6	0.16
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	7	0.16
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB2	5	0.16
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB3	8	0.16
(1,700)	1:12:A:LEU:HD13	1:12:A:LEU:HA	8	0.16
(1,697)	1:41:A:LEU:HD23	1:60:A:MET:HB3	1	0.16
(1,594)	1:79:A:VAL:HG23	1:6:A:LYS:HB3	3	0.16
(1,485)	1:45:A:MET:HE2	1:57:A:LEU:HA	1	0.16
(1,485)	1:45:A:MET:HE3	1:57:A:LEU:HA	2	0.16
(1,423)	1:61:A:ILE:HD12	1:72:A:VAL:HB	1	0.16
(1,366)	1:17:A:LYS:HE3	1:78:A:LEU:HD11	2	0.16
(1,361)	1:88:A:ASP:HB2	1:88:A:ASP:HA	6	0.16
(1,357)	1:21:A:LYS:HE3	1:21:A:LYS:HG3	7	0.16
(1,288)	1:52:A:PRO:HD3	1:46:A:ARG:HD2	2	0.16
(1,255)	1:7:A:ALA:HA	1:10:A:GLU:HB2	7	0.16
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	1	0.16
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	4	0.16
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG23	6	0.16
(1,204)	1:76:A:GLU:HA	1:72:A:VAL:HG13	2	0.16
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD13	4	0.16
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB1	1	0.16
(1,111)	1:19:A:GLU:HA	1:19:A:GLU:HG2	4	0.16
(1,97)	1:40:A:GLU:HA	1:43:A:LYS:HD2	5	0.16
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	4	0.15
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	6	0.15
(2,315)	1:87:A:ASP:H	1:86:A:LYS:HA	1	0.15
(2,259)	1:61:A:ILE:HD11	1:58:A:GLN:HG3	4	0.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	2	0.15
(2,241)	1:73:A:ASP:HA	1:76:A:GLU:HB3	3	0.15
(2,235)	1:61:A:ILE:HD12	1:57:A:LEU:HA	6	0.15
(2,221)	1:32:A:GLU:HA	1:32:A:GLU:HG2	5	0.15
(2,199)	1:19:A:GLU:HB2	1:158:A:LEU:HD13	4	0.15
(2,192)	1:9:A:VAL:HG21	1:9:A:VAL:HB	4	0.15
(2,177)	1:8:A:ALA:HA	1:11:A:GLN:HG2	3	0.15
(2,166)	1:57:A:LEU:HB2	1:41:A:LEU:HD21	2	0.15
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	3	0.15
(2,123)	1:146:A:VAL:HG13	1:145:A:ARG:HA	1	0.15
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG12	3	0.15
(2,119)	1:72:A:VAL:HG11	1:76:A:GLU:HG3	7	0.15
(2,116)	1:13:A:THR:HG22	1:16:A:GLN:HG3	3	0.15
(2,41)	1:87:A:ASP:HA	1:86:A:LYS:HB3	2	0.15
(2,38)	1:35:A:SER:HA	1:34:A:GLY:HA2	5	0.15
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HB3	6	0.15
(2,30)	1:143:A:LEU:HA	1:143:A:LEU:HB3	7	0.15
(2,17)	1:15:A:GLU:HA	1:15:A:GLU:HG2	2	0.15
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD2	3	0.15
(2,8)	1:35:A:SER:HB2	1:73:A:ASP:HA	7	0.15
(1,1443)	1:15:A:GLU:H	1:13:A:THR:HB	5	0.15
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	4	0.15
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	1	0.15
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	4	0.15
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	5	0.15
(1,1349)	1:56:A:GLU:H	1:55:A:GLU:HB2	5	0.15
(1,1209)	1:74:A:PHE:HD1	1:77:A:PHE:HD2	4	0.15
(1,1180)	1:163:A:LYS:HG2	1:163:A:LYS:HA	4	0.15
(1,1179)	1:39:A:LYS:HG2	1:39:A:LYS:HE2	4	0.15
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD2	2	0.15
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD12	6	0.15
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD11	7	0.15
(1,1121)	1:44:A:VAL:HG22	1:47:A:MET:HB2	6	0.15
(1,1102)	1:56:A:GLU:HA	1:143:A:LEU:HD12	4	0.15
(1,1063)	1:149:A:SER:HB2	1:151:A:ASP:HB2	3	0.15
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	4	0.15
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	6	0.15
(1,991)	1:51:A:ASN:HA	1:52:A:PRO:HG3	7	0.15
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	1	0.15
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	3	0.15
(1,924)	1:15:A:GLU:HG3	1:15:A:GLU:HB2	4	0.15
(1,904)	1:141:A:PRO:HB3	1:141:A:PRO:HD3	3	0.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	4	0.15
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	5	0.15
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	8	0.15
(1,859)	1:79:A:VAL:HA	1:79:A:VAL:HB	2	0.15
(1,859)	1:79:A:VAL:HA	1:79:A:VAL:HB	7	0.15
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	8	0.15
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	8	0.15
(1,730)	1:155:A:GLN:HB3	1:155:A:GLN:HG2	5	0.15
(1,704)	1:155:A:GLN:HB2	1:152:A:ALA:HA	2	0.15
(1,593)	1:12:A:LEU:HD23	1:12:A:LEU:HG	2	0.15
(1,592)	1:9:A:VAL:HG22	1:9:A:VAL:HB	7	0.15
(1,544)	1:10:A:GLU:HA	1:9:A:VAL:HG12	3	0.15
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG11	6	0.15
(1,530)	1:47:A:MET:HE1	1:44:A:VAL:HG11	1	0.15
(1,485)	1:45:A:MET:HE2	1:57:A:LEU:HA	4	0.15
(1,394)	1:65:A:ASP:HB3	1:61:A:ILE:HG23	1	0.15
(1,326)	1:147:A:ARG:HD2	1:147:A:ARG:HA	6	0.15
(1,280)	1:141:A:PRO:HD3	1:140:A:ARG:HB3	8	0.15
(1,254)	1:8:A:ALA:HA	1:11:A:GLN:HB3	6	0.15
(1,247)	1:151:A:ASP:HA	1:151:A:ASP:HB3	8	0.15
(1,238)	1:86:A:LYS:HA	1:86:A:LYS:HG3	4	0.15
(1,180)	1:21:A:LYS:HA	1:21:A:LYS:HG3	6	0.15
(1,114)	1:20:A:PHE:HA	1:23:A:ALA:HB1	2	0.15
(1,113)	1:20:A:PHE:HA	1:154:A:MET:HE2	2	0.15
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	1	0.14
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	2	0.14
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	8	0.14
(2,315)	1:87:A:ASP:H	1:86:A:LYS:HA	5	0.14
(2,284)	1:64:A:VAL:HG13	1:1:A:MET:HE1	1	0.14
(2,263)	1:74:A:PHE:HB3	1:24:A:PHE:HD1	8	0.14
(2,217)	1:28:A:VAL:HA	1:29:A:LEU:HD23	6	0.14
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	5	0.14
(2,201)	1:56:A:GLU:HB2	1:146:A:VAL:HG21	6	0.14
(2,185)	1:41:A:LEU:HD12	1:45:A:MET:HG2	3	0.14
(2,159)	1:48:A:LEU:HD11	1:48:A:LEU:HG	5	0.14
(2,78)	1:26:A:ILE:HD12	1:157:A:LEU:HB3	4	0.14
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	1	0.14
(2,61)	1:143:A:LEU:HB2	1:142:A:THR:HB	3	0.14
(2,49)	1:31:A:ALA:HA	1:40:A:GLU:HG2	7	0.14
(2,17)	1:55:A:GLU:HA	1:55:A:GLU:HG2	4	0.14
(2,2)	1:38:A:THR:HB	1:57:A:LEU:HG	8	0.14
(1,1469)	1:45:A:MET:H	1:45:A:MET:HG3	7	0.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	4	0.14
(1,1443)	1:15:A:GLU:H	1:13:A:THR:HB	4	0.14
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	1	0.14
(1,1214)	1:27:A:PHE:HA	1:27:A:PHE:HD1	4	0.14
(1,1209)	1:74:A:PHE:HD2	1:77:A:PHE:HD2	3	0.14
(1,1201)	1:4:A:ILE:HG23	1:5:A:TYR:HE2	2	0.14
(1,1189)	1:2:A:ASP:HB2	1:5:A:TYR:HD1	6	0.14
(1,1157)	1:12:A:LEU:HB3	1:17:A:LYS:HD3	6	0.14
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE3	5	0.14
(1,1144)	1:50:A:GLN:HA	1:45:A:MET:HE3	8	0.14
(1,1092)	1:21:A:LYS:HB3	1:74:A:PHE:HZ	1	0.14
(1,1092)	1:21:A:LYS:HB3	1:74:A:PHE:HZ	3	0.14
(1,1088)	1:38:A:THR:HG23	1:37:A:SER:HB3	4	0.14
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	1	0.14
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	4	0.14
(1,924)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	8	0.14
(1,905)	1:40:A:GLU:HA	1:43:A:LYS:HB3	4	0.14
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	2	0.14
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	7	0.14
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	2	0.14
(1,825)	1:43:A:LYS:HD2	1:43:A:LYS:HG3	2	0.14
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	2	0.14
(1,730)	1:155:A:GLN:HB3	1:155:A:GLN:HG2	7	0.14
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB3	1	0.14
(1,678)	1:157:A:LEU:HG	1:157:A:LEU:HA	7	0.14
(1,639)	1:78:A:LEU:HD12	1:74:A:PHE:HZ	2	0.14
(1,628)	1:43:A:LYS:HG2	1:43:A:LYS:HD3	8	0.14
(1,592)	1:9:A:VAL:HG23	1:9:A:VAL:HB	2	0.14
(1,592)	1:9:A:VAL:HG21	1:9:A:VAL:HB	8	0.14
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG21	3	0.14
(1,485)	1:45:A:MET:HE2	1:57:A:LEU:HA	3	0.14
(1,361)	1:88:A:ASP:HB3	1:88:A:ASP:HA	5	0.14
(1,279)	1:141:A:PRO:HD3	1:141:A:PRO:HB2	1	0.14
(1,250)	1:81:A:MET:HA	1:81:A:MET:HB3	7	0.14
(1,250)	1:81:A:MET:HA	1:81:A:MET:HB3	8	0.14
(1,237)	1:25:A:ASP:HA	1:28:A:VAL:HG11	2	0.14
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	8	0.14
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	4	0.14
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD11	5	0.14
(1,135)	1:83:A:ARG:HA	1:82:A:VAL:HG13	2	0.14
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	2	0.14
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD2	1	0.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	7	0.14
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	2	0.13
(2,344)	1:57:A:LEU:H	1:57:A:LEU:HA	3	0.13
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	7	0.13
(2,255)	1:159:A:GLY:HA3	1:162:A:ALA:HB1	3	0.13
(2,255)	1:159:A:GLY:HA3	1:160:A:ALA:HB1	4	0.13
(2,230)	1:16:A:GLN:HG2	1:16:A:GLN:HB2	6	0.13
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	2	0.13
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	4	0.13
(2,190)	1:150:A:ALA:HB3	1:85:A:MET:HG2	1	0.13
(2,117)	1:76:A:GLU:HA	1:72:A:VAL:HG13	1	0.13
(2,106)	1:150:A:ALA:HA	1:150:A:ALA:HB3	3	0.13
(2,71)	1:2:A:ASP:HB2	1:79:A:VAL:HG21	2	0.13
(2,52)	1:52:A:PRO:HD3	1:45:A:MET:HG3	5	0.13
(2,18)	1:15:A:GLU:HA	1:15:A:GLU:HB3	3	0.13
(1,1621)	2:201:A:9XG:HAA	1:60:A:MET:HE2	7	0.13
(1,1398)	1:59:A:GLU:H	1:58:A:GLN:HB3	6	0.13
(1,1397)	1:16:A:GLN:H	1:16:A:GLN:HB2	7	0.13
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	4	0.13
(1,1212)	1:74:A:PHE:HB2	1:74:A:PHE:HD1	1	0.13
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD13	4	0.13
(1,1089)	1:78:A:LEU:HD13	1:74:A:PHE:HE2	5	0.13
(1,1088)	1:38:A:THR:HG21	1:37:A:SER:HB3	2	0.13
(1,1049)	1:78:A:LEU:HD21	1:74:A:PHE:HD2	7	0.13
(1,1001)	1:55:A:GLU:HA	1:55:A:GLU:HB2	8	0.13
(1,954)	1:28:A:VAL:HG21	1:40:A:GLU:HG2	1	0.13
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	2	0.13
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	6	0.13
(1,924)	1:15:A:GLU:HG3	1:15:A:GLU:HB2	2	0.13
(1,924)	1:15:A:GLU:HG3	1:15:A:GLU:HB2	5	0.13
(1,905)	1:40:A:GLU:HA	1:43:A:LYS:HB3	5	0.13
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	1	0.13
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	3	0.13
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	6	0.13
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	3	0.13
(1,777)	1:11:A:GLN:HG3	1:11:A:GLN:HB2	2	0.13
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	1	0.13
(1,774)	1:14:A:GLU:HG2	1:14:A:GLU:HB3	8	0.13
(1,708)	1:46:A:ARG:HA	1:46:A:ARG:HG2	1	0.13
(1,708)	1:46:A:ARG:HA	1:46:A:ARG:HG2	3	0.13
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB2	7	0.13
(1,654)	1:158:A:LEU:HD11	1:19:A:GLU:HG3	3	0.13

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,646)	1:157:A:LEU:HD12	1:23:A:ALA:HB2	3	0.13
(1,596)	1:48:A:LEU:HA	1:48:A:LEU:HD23	7	0.13
(1,593)	1:12:A:LEU:HD22	1:12:A:LEU:HG	4	0.13
(1,592)	1:9:A:VAL:HG21	1:9:A:VAL:HB	3	0.13
(1,592)	1:9:A:VAL:HG22	1:9:A:VAL:HB	6	0.13
(1,576)	1:158:A:LEU:HB3	1:158:A:LEU:HD23	6	0.13
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG23	1	0.13
(1,538)	1:77:A:PHE:HB3	1:72:A:VAL:HG12	7	0.13
(1,532)	1:13:A:THR:HA	1:13:A:THR:HG23	8	0.13
(1,490)	1:26:A:ILE:HD12	1:22:A:ALA:HB1	8	0.13
(1,481)	1:154:A:MET:HE3	1:151:A:ASP:HB3	8	0.13
(1,470)	1:36:A:ILE:HG22	1:72:A:VAL:HB	5	0.13
(1,462)	1:2:A:ASP:HB2	1:4:A:ILE:HG21	2	0.13
(1,391)	1:3:A:ASP:HB3	1:6:A:LYS:HB2	3	0.13
(1,390)	1:3:A:ASP:HB2	1:6:A:LYS:HB2	3	0.13
(1,361)	1:88:A:ASP:HB2	1:88:A:ASP:HA	4	0.13
(1,357)	1:21:A:LYS:HE3	1:21:A:LYS:HG3	8	0.13
(1,177)	1:155:A:GLN:HA	1:155:A:GLN:HG2	1	0.13
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	2	0.13
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	7	0.13
(1,157)	1:1:A:MET:HA	1:1:A:MET:HG2	8	0.13
(1,156)	1:22:A:ALA:HA	1:26:A:ILE:HD13	2	0.13
(1,116)	1:19:A:GLU:HA	1:19:A:GLU:HB2	8	0.13
(1,59)	1:141:A:PRO:HA	1:140:A:ARG:HD3	6	0.13
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	8	0.13
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	1	0.12
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	4	0.12
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	5	0.12
(2,281)	1:36:A:ILE:HD11	1:77:A:PHE:HA	5	0.12
(2,250)	1:149:A:SER:HB2	1:151:A:ASP:HB3	7	0.12
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	1	0.12
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	3	0.12
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG11	5	0.12
(2,121)	1:9:A:VAL:HA	1:82:A:VAL:HG13	7	0.12
(2,109)	1:28:A:VAL:HG22	1:25:A:ASP:HB2	5	0.12
(2,68)	1:86:A:LYS:HE3	1:86:A:LYS:HG2	3	0.12
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	3	0.12
(2,47)	1:65:A:ASP:HA	1:61:A:ILE:HG21	2	0.12
(2,37)	1:29:A:LEU:HA	1:29:A:LEU:HG	1	0.12
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	1	0.12
(2,22)	1:6:A:LYS:HA	1:1:A:MET:HG3	3	0.12
(2,18)	1:15:A:GLU:HA	1:15:A:GLU:HB3	8	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:34:A:GLY:H	1:34:A:GLY:HA3	7	0.12
(1,1467)	1:55:A:GLU:H	1:55:A:GLU:HG2	3	0.12
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	1	0.12
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	3	0.12
(1,1354)	1:12:A:LEU:H	1:12:A:LEU:HB2	5	0.12
(1,1299)	1:39:A:LYS:H	1:39:A:LYS:HB3	8	0.12
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD2	8	0.12
(1,1180)	1:163:A:LYS:HG3	1:163:A:LYS:HA	7	0.12
(1,1140)	1:41:A:LEU:HD21	1:45:A:MET:HG3	3	0.12
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD13	2	0.12
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD12	5	0.12
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD11	8	0.12
(1,1106)	1:60:A:MET:HE3	1:147:A:ARG:HA	4	0.12
(1,1105)	1:5:A:TYR:HA	1:79:A:VAL:HG22	5	0.12
(1,1089)	1:78:A:LEU:HD11	1:74:A:PHE:HE1	4	0.12
(1,1061)	1:84:A:SER:HA	1:84:A:SER:HB2	2	0.12
(1,991)	1:51:A:ASN:HA	1:52:A:PRO:HG3	8	0.12
(1,964)	1:61:A:ILE:HD13	1:37:A:SER:HB2	5	0.12
(1,924)	1:15:A:GLU:HG2	1:15:A:GLU:HB3	6	0.12
(1,896)	1:163:A:LYS:HB2	1:163:A:LYS:HA	5	0.12
(1,891)	1:163:A:LYS:HA	1:163:A:LYS:HB3	5	0.12
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	1	0.12
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	3	0.12
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	4	0.12
(1,876)	1:57:A:LEU:HB2	1:57:A:LEU:HA	7	0.12
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	3	0.12
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	4	0.12
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	5	0.12
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	6	0.12
(1,776)	1:11:A:GLN:HG3	1:8:A:ALA:HA	3	0.12
(1,767)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	2	0.12
(1,764)	1:8:A:ALA:HB2	1:10:A:GLU:HG3	2	0.12
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB3	2	0.12
(1,705)	1:155:A:GLN:HA	1:155:A:GLN:HB3	4	0.12
(1,698)	1:41:A:LEU:HB3	1:41:A:LEU:HD22	6	0.12
(1,619)	1:143:A:LEU:HD13	1:59:A:GLU:HB3	2	0.12
(1,593)	1:12:A:LEU:HD23	1:12:A:LEU:HG	1	0.12
(1,592)	1:9:A:VAL:HG22	1:9:A:VAL:HB	5	0.12
(1,583)	1:79:A:VAL:HG22	1:1:A:MET:HG2	4	0.12
(1,565)	1:57:A:LEU:HB2	1:38:A:THR:HG23	8	0.12
(1,468)	1:36:A:ILE:HG23	1:40:A:GLU:HB3	7	0.12
(1,452)	1:85:A:MET:HE1	1:86:A:LYS:HE2	8	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:52:A:PRO:HD3	1:51:A:ASN:HB3	6	0.12
(1,229)	1:35:A:SER:HA	1:73:A:ASP:HB2	3	0.12
(1,195)	1:58:A:GLN:HA	1:58:A:GLN:HB2	5	0.12
(1,176)	1:63:A:GLU:HA	1:63:A:GLU:HG3	7	0.12
(1,155)	1:22:A:ALA:HA	1:21:A:LYS:HG2	3	0.12
(1,144)	1:12:A:LEU:HA	1:12:A:LEU:HG	8	0.12
(1,132)	1:19:A:GLU:HA	1:158:A:LEU:HD13	1	0.12
(1,96)	1:40:A:GLU:HA	1:43:A:LYS:HE2	7	0.12
(2,322)	1:83:A:ARG:H	1:82:A:VAL:HB	5	0.11
(2,281)	1:36:A:ILE:HD12	1:77:A:PHE:HA	1	0.11
(2,265)	1:142:A:THR:HA	1:143:A:LEU:HB2	1	0.11
(2,255)	1:159:A:GLY:HA3	1:162:A:ALA:HB1	7	0.11
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	6	0.11
(2,236)	1:62:A:ASP:HB2	1:61:A:ILE:HB	8	0.11
(2,235)	1:61:A:ILE:HD12	1:57:A:LEU:HA	7	0.11
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	6	0.11
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	8	0.11
(2,208)	1:79:A:VAL:HB	1:79:A:VAL:HG23	7	0.11
(2,208)	1:82:A:VAL:HG13	1:82:A:VAL:HB	8	0.11
(2,196)	1:17:A:LYS:HD2	1:9:A:VAL:HG21	2	0.11
(2,180)	1:8:A:ALA:HB1	1:11:A:GLN:HG2	1	0.11
(2,166)	1:57:A:LEU:HB2	1:41:A:LEU:HD23	4	0.11
(2,158)	1:158:A:LEU:HD11	1:23:A:ALA:HB2	1	0.11
(2,95)	1:154:A:MET:HE3	1:19:A:GLU:HA	4	0.11
(2,12)	1:24:A:PHE:HA	1:27:A:PHE:HD1	8	0.11
(1,1616)	2:201:A:9XG:HAK	1:60:A:MET:HE2	5	0.11
(1,1513)	1:11:A:GLN:H	1:11:A:GLN:HB2	1	0.11
(1,1506)	1:67:A:ASP:H	1:67:A:ASP:HB3	5	0.11
(1,1437)	1:155:A:GLN:H	1:156:A:ALA:H	3	0.11
(1,1248)	1:74:A:PHE:HE2	1:21:A:LYS:HB3	3	0.11
(1,1186)	1:5:A:TYR:HB3	1:5:A:TYR:HD2	6	0.11
(1,1181)	1:140:A:ARG:HA	1:141:A:PRO:HG2	6	0.11
(1,999)	1:52:A:PRO:HD3	1:39:A:LYS:HE3	1	0.11
(1,928)	1:48:A:LEU:HB3	1:48:A:LEU:HA	8	0.11
(1,914)	1:10:A:GLU:HA	1:10:A:GLU:HB3	6	0.11
(1,892)	1:90:A:LYS:HB3	1:90:A:LYS:HA	3	0.11
(1,892)	1:90:A:LYS:HB3	1:90:A:LYS:HA	4	0.11
(1,892)	1:90:A:LYS:HB3	1:90:A:LYS:HA	6	0.11
(1,892)	1:90:A:LYS:HB3	1:90:A:LYS:HA	8	0.11
(1,890)	1:86:A:LYS:HB3	1:86:A:LYS:HA	7	0.11
(1,885)	1:86:A:LYS:HB2	1:86:A:LYS:HA	6	0.11
(1,883)	1:50:A:GLN:HA	1:50:A:GLN:HG2	3	0.11

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:43:A:LYS:HD2	1:43:A:LYS:HG3	1	0.11
(1,825)	1:43:A:LYS:HD2	1:43:A:LYS:HG3	3	0.11
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	5	0.11
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	1	0.11
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	2	0.11
(1,809)	1:85:A:MET:HG2	1:85:A:MET:HB2	8	0.11
(1,767)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	3	0.11
(1,767)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	4	0.11
(1,767)	1:19:A:GLU:HG2	1:19:A:GLU:HB2	7	0.11
(1,755)	1:16:A:GLN:HA	1:16:A:GLN:HG3	3	0.11
(1,737)	1:20:A:PHE:HB2	1:20:A:PHE:HD2	1	0.11
(1,737)	1:20:A:PHE:HB2	1:20:A:PHE:HD1	6	0.11
(1,703)	1:148:A:ILE:HB	1:148:A:ILE:HG12	1	0.11
(1,646)	1:157:A:LEU:HD11	1:23:A:ALA:HB3	4	0.11
(1,628)	1:43:A:LYS:HG2	1:43:A:LYS:HD3	4	0.11
(1,606)	1:47:A:MET:HE1	1:44:A:VAL:HG23	5	0.11
(1,593)	1:12:A:LEU:HD21	1:12:A:LEU:HG	3	0.11
(1,574)	1:82:A:VAL:HG22	1:86:A:LYS:HB3	7	0.11
(1,522)	1:31:A:ALA:HB2	1:36:A:ILE:HG21	5	0.11
(1,390)	1:3:A:ASP:HB2	1:6:A:LYS:HB3	2	0.11
(1,351)	1:158:A:LEU:HB2	1:158:A:LEU:HG	2	0.11
(1,340)	1:157:A:LEU:HB3	1:26:A:ILE:HB	1	0.11
(1,340)	1:157:A:LEU:HB3	1:26:A:ILE:HB	5	0.11
(1,254)	1:8:A:ALA:HA	1:11:A:GLN:HB3	3	0.11
(1,195)	1:58:A:GLN:HA	1:58:A:GLN:HB2	6	0.11
(1,188)	1:76:A:GLU:HA	1:76:A:GLU:HG3	2	0.11
(1,187)	1:16:A:GLN:HA	1:12:A:LEU:HD23	7	0.11
(1,159)	1:23:A:ALA:HA	1:26:A:ILE:HG13	2	0.11
(1,150)	1:11:A:GLN:HA	1:11:A:GLN:HB2	6	0.11
(1,109)	1:89:A:SER:HA	1:88:A:ASP:HB3	1	0.11
(1,57)	1:4:A:ILE:HA	1:4:A:ILE:HD12	3	0.11
(1,57)	1:4:A:ILE:HA	1:4:A:ILE:HD12	4	0.11
(1,55)	1:4:A:ILE:HA	1:7:A:ALA:HB2	7	0.11
(1,52)	1:26:A:ILE:HA	1:26:A:ILE:HG12	4	0.11
(1,24)	1:71:A:THR:HB	1:35:A:SER:HB3	6	0.11
(2,318)	1:85:A:MET:H	1:85:A:MET:HA	1	0.1
(2,263)	1:74:A:PHE:HB3	1:24:A:PHE:HD2	7	0.1
(2,221)	1:32:A:GLU:HA	1:32:A:GLU:HG3	3	0.1
(2,213)	1:43:A:LYS:HA	1:43:A:LYS:HB2	7	0.1
(2,179)	1:154:A:MET:HG3	1:20:A:PHE:HD1	7	0.1
(2,163)	1:52:A:PRO:HG3	1:57:A:LEU:HD12	8	0.1
(2,79)	1:153:A:MET:HA	1:148:A:ILE:HD11	1	0.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,58)	1:46:A:ARG:HD3	1:46:A:ARG:HG2	1	0.1
(1,1398)	1:59:A:GLU:H	1:58:A:GLN:HB3	1	0.1
(1,1396)	1:59:A:GLU:H	1:59:A:GLU:HG3	7	0.1
(1,1141)	1:41:A:LEU:HD23	1:41:A:LEU:HA	6	0.1
(1,1130)	1:158:A:LEU:HD12	1:155:A:GLN:HA	3	0.1
(1,1128)	1:78:A:LEU:HG	1:78:A:LEU:HD11	3	0.1
(1,1063)	1:149:A:SER:HB2	1:151:A:ASP:HB2	1	0.1
(1,977)	1:44:A:VAL:HA	1:27:A:PHE:HZ	4	0.1
(1,823)	1:11:A:GLN:HB3	1:11:A:GLN:HG2	7	0.1
(1,559)	1:28:A:VAL:HG11	1:24:A:PHE:HD2	2	0.1
(1,452)	1:85:A:MET:HE2	1:86:A:LYS:HE2	6	0.1
(1,375)	1:29:A:LEU:HB3	1:26:A:ILE:HA	3	0.1
(1,351)	1:158:A:LEU:HB2	1:158:A:LEU:HG	6	0.1
(1,292)	1:52:A:PRO:HD3	1:57:A:LEU:HD21	4	0.1
(1,292)	1:52:A:PRO:HD3	1:57:A:LEU:HD21	6	0.1
(1,214)	1:71:A:THR:HA	1:72:A:VAL:HG21	4	0.1
(1,124)	1:39:A:LYS:HA	1:39:A:LYS:HG3	7	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found