



Full wwPDB NMR Structure Validation Report ⓘ

Mar 26, 2026 – 06:25 PM UTC

PDB ID : 2NA4 / pdb_00002na4
BMRB ID : 25927
Title : Curli secretion specificity factor CsgE W48A/F79A mutant
Authors : Shu, Q.; Krezel, A.M.; Frieden, C.
Deposited on : 2015-12-21

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
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

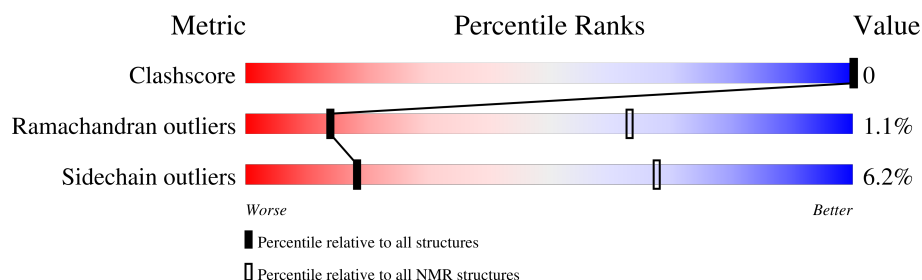
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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	114	 73% 18% 5%

2 Ensemble composition and analysis

This entry contains 20 models. Model 6 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:6-A:93 (88)	0.13	6

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 3 clusters and 8 single-model clusters were found.

Cluster number	Models
1	1, 5, 6, 8, 12, 13, 16
2	7, 9, 15
3	4, 10
Single-model clusters	2; 3; 11; 14; 17; 18; 19; 20

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1699 atoms, of which 836 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Curli production assembly/transport component CsgE.

Mol	Chain	Residues	Atoms					Trace
1	A	108	Total	C	H	N	O	0
			1699	547	836	147	169	

There are 8 discrepancies between the modelled and reference sequences:

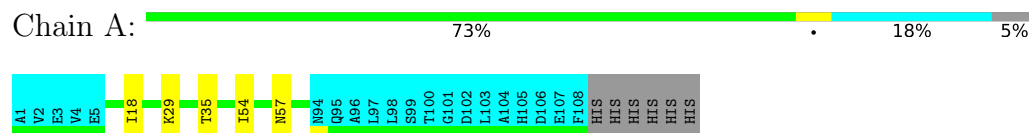
Chain	Residue	Modelled	Actual	Comment	Reference
A	48	ALA	TRP	engineered mutation	UNP P0AE95
A	79	ALA	PHE	engineered mutation	UNP P0AE95
A	109	HIS	-	expression tag	UNP P0AE95
A	110	HIS	-	expression tag	UNP P0AE95
A	111	HIS	-	expression tag	UNP P0AE95
A	112	HIS	-	expression tag	UNP P0AE95
A	113	HIS	-	expression tag	UNP P0AE95
A	114	HIS	-	expression tag	UNP P0AE95

4 Residue-property plots [i](#)

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: Curli production assembly/transport component CsgE

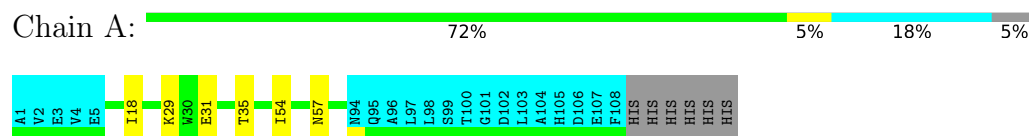


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

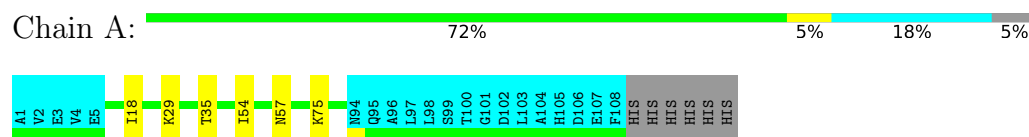
4.2.1 Score per residue for model 1

- Molecule 1: Curli production assembly/transport component CsgE



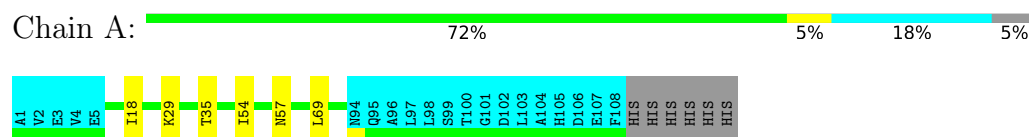
4.2.2 Score per residue for model 2

- Molecule 1: Curli production assembly/transport component CsgE



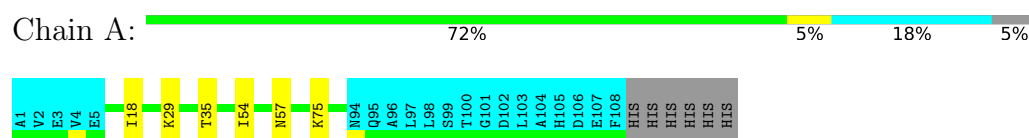
4.2.3 Score per residue for model 3

- Molecule 1: Curli production assembly/transport component CsgE



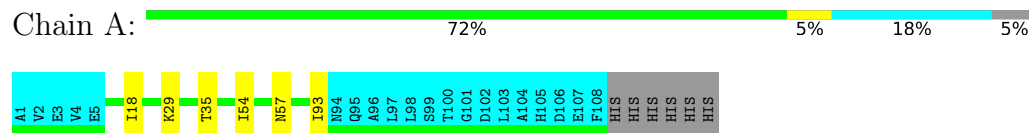
4.2.4 Score per residue for model 4

- Molecule 1: Curli production assembly/transport component CsgE



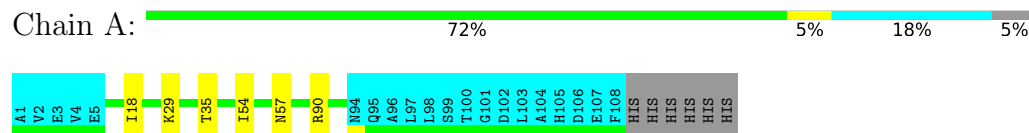
4.2.5 Score per residue for model 5

- Molecule 1: Curli production assembly/transport component CsgE



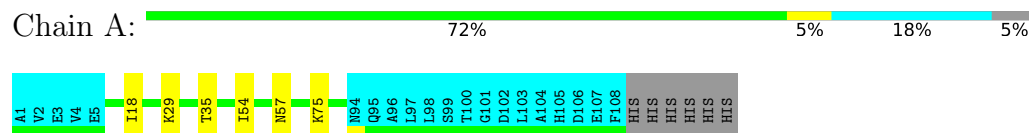
4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: Curli production assembly/transport component CsgE



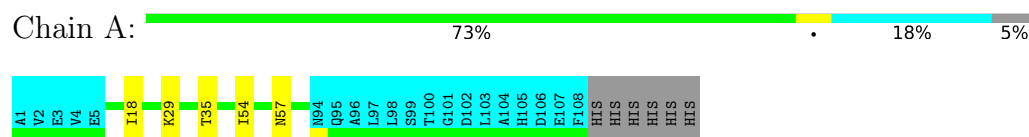
4.2.7 Score per residue for model 7

- Molecule 1: Curli production assembly/transport component CsgE



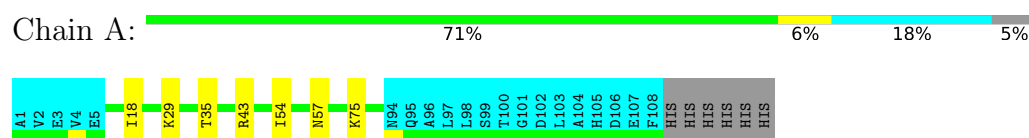
4.2.8 Score per residue for model 8

- Molecule 1: Curli production assembly/transport component CsgE



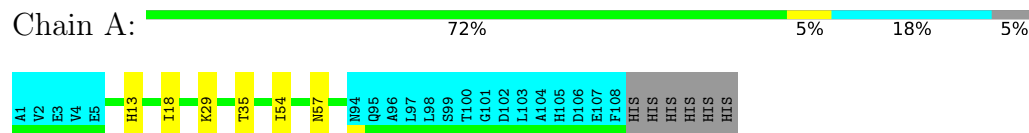
4.2.9 Score per residue for model 9

- Molecule 1: Curli production assembly/transport component CsgE



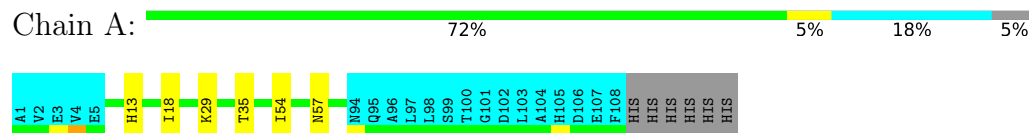
4.2.10 Score per residue for model 10

- Molecule 1: Curli production assembly/transport component CsgE



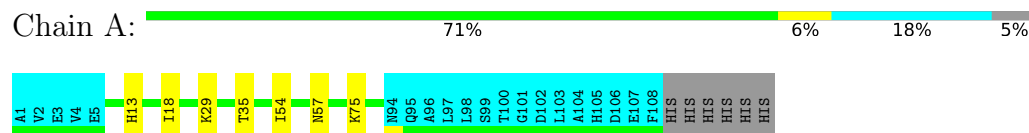
4.2.11 Score per residue for model 11

- Molecule 1: Curli production assembly/transport component CsgE



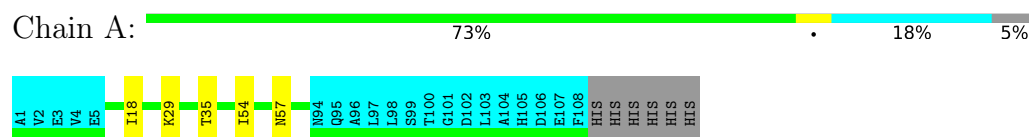
4.2.12 Score per residue for model 12

- Molecule 1: Curli production assembly/transport component CsgE



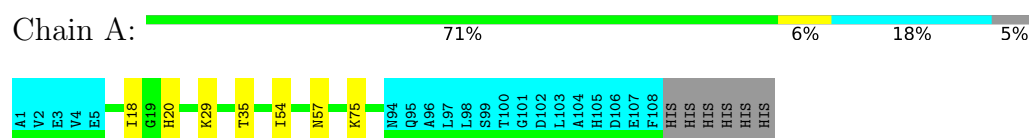
4.2.13 Score per residue for model 13

- Molecule 1: Curli production assembly/transport component CsgE



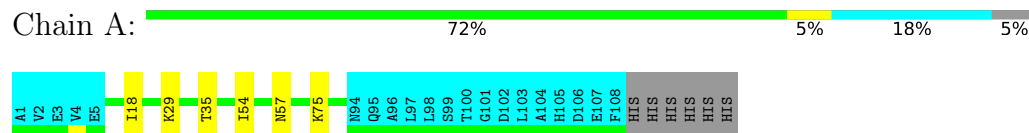
4.2.14 Score per residue for model 14

- Molecule 1: Curli production assembly/transport component CsgE



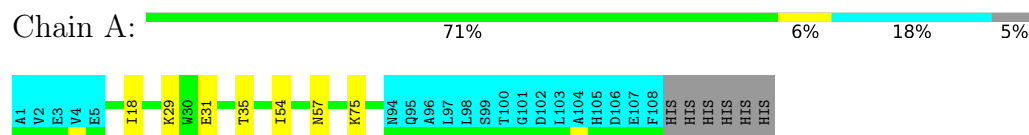
4.2.15 Score per residue for model 15

- Molecule 1: Curli production assembly/transport component CsgE



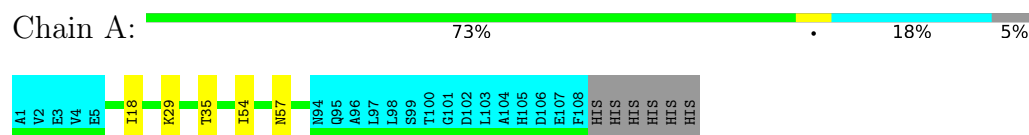
4.2.16 Score per residue for model 16

- Molecule 1: Curli production assembly/transport component CsgE



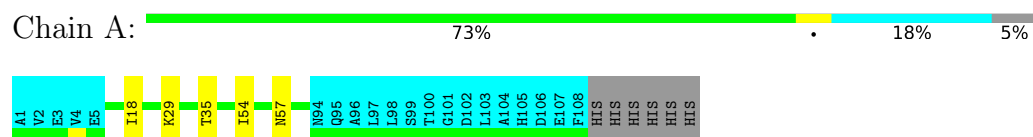
4.2.17 Score per residue for model 17

- Molecule 1: Curli production assembly/transport component CsgE



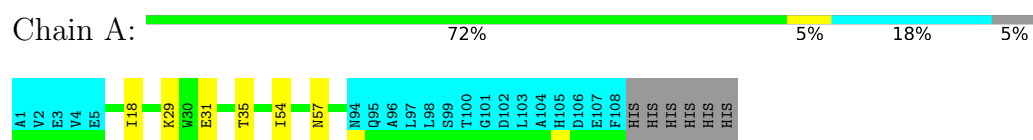
4.2.18 Score per residue for model 18

- Molecule 1: Curli production assembly/transport component CsgE



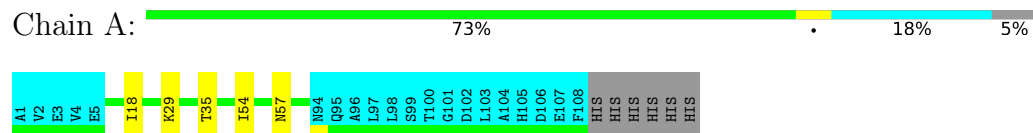
4.2.19 Score per residue for model 19

- Molecule 1: Curli production assembly/transport component CsgE



4.2.20 Score per residue for model 20

- Molecule 1: Curli production assembly/transport component CsgE



5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics, Restrained energy minimization*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with acceptable covalent geometry*.

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

Software name	Classification	Version
CYANA	structure solution	3
Amber	refinement	12
CYANA	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	1333
Number of shifts mapped to atoms	1333
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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	0.87±0.00	0±0/729 (0.0± 0.0%)	1.29±0.01	0±0/993 (0.0± 0.0%)
All	All	0.87	0/14580 (0.0%)	1.29	3/19860 (0.0%)

There are no bond-length outliers.

All unique angle 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(°)	Ideal(°)	Models	
								Worst	Total
1	A	20	HIS	CB-CG-CD2	-5.11	124.56	131.20	14	1
1	A	93	ILE	CA-C-N	5.03	127.28	120.38	5	1
1	A	93	ILE	C-N-CA	5.03	127.28	120.38	5	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
All	All	14240	13940	13940	-

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 -.

There are no clashes.

6.3 Torsion angles

6.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	88/114 (77%)	77±1 (88±1%)	10±1 (11±1%)	1±0 (1±0%)	14	63
All	All	1760/2280 (77%)	1549 (88%)	191 (11%)	20 (1%)	14	63

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	57	ASN	20

6.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	78/100 (78%)	73±1 (94±1%)	5±1 (6±1%)	18	68
All	All	1560/2000 (78%)	1463 (94%)	97 (6%)	18	68

All 10 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	18	ILE	20
1	A	29	LYS	20
1	A	35	THR	20
1	A	54	ILE	20
1	A	75	LYS	8
1	A	31	GLU	3
1	A	13	HIS	3
1	A	69	LEU	1
1	A	90	ARG	1
1	A	43	ARG	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](#)

There are no ligands in this entry.

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 89% for the well-defined parts and 90% 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	1333
Number of shifts mapped to atoms	1333
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	106	-0.41 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	102	0.24 ± 0.07	None needed (< 0.5 ppm)
$^{13}\text{C}'$	103	-0.08 ± 0.14	None needed (< 0.5 ppm)
^{15}N	104	-0.49 ± 0.28	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 89%, i.e. 1099 atoms were assigned a chemical shift out of a possible 1229. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	429/438 (98%)	175/177 (99%)	169/176 (96%)	85/85 (100%)
Sidechain	568/675 (84%)	389/438 (89%)	171/208 (82%)	8/29 (28%)

Continued on next page...

Continued from previous page...

	Total	¹ H	¹³ C	¹⁵ N
Aromatic	102/116 (88%)	52/58 (90%)	48/54 (89%)	2/4 (50%)
Overall	1099/1229 (89%)	616/673 (92%)	388/438 (89%)	95/118 (81%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 90%, i.e. 1333 atoms were assigned a chemical shift out of a possible 1479. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	528/539 (98%)	215/218 (99%)	209/216 (97%)	104/105 (99%)
Sidechain	693/807 (86%)	475/524 (91%)	208/252 (83%)	10/31 (32%)
Aromatic	112/133 (84%)	57/67 (85%)	53/61 (87%)	2/5 (40%)
Overall	1333/1479 (90%)	747/809 (92%)	470/529 (89%)	116/141 (82%)

7.1.4 Statistically unusual chemical shifts [i](#)

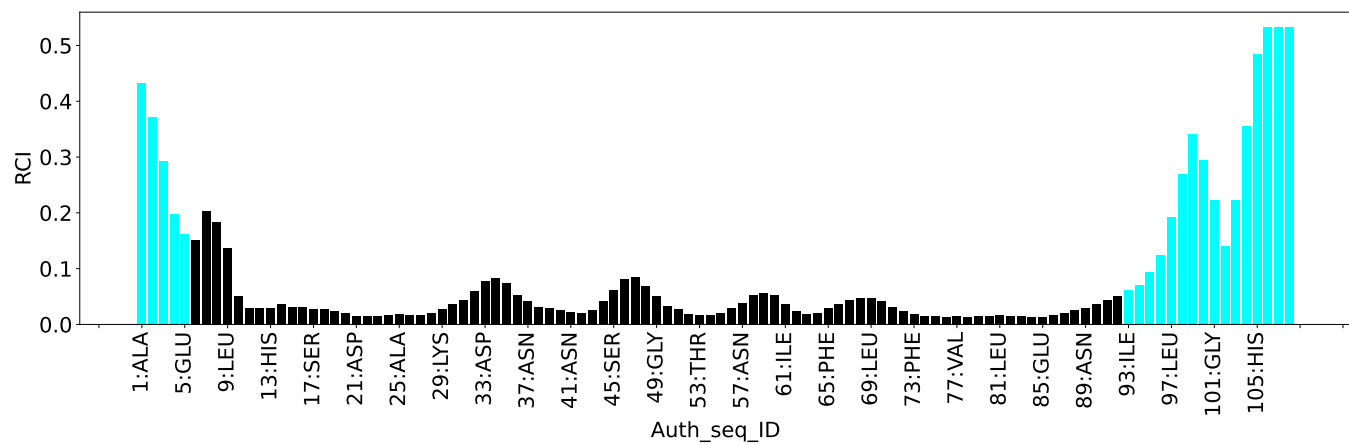
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	12	ASP	HB2	0.80	1.41 – 4.01	-7.4
1	A	40	ILE	CG1	18.16	19.24 – 36.26	-5.6
1	A	65	PHE	HD2	5.48	5.52 – 8.61	-5.1
1	A	65	PHE	HD1	5.48	5.51 – 8.60	-5.1

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	2183
Intra-residue ($ i-j =0$)	470
Sequential ($ i-j =1$)	606
Medium range ($ i-j >1$ and $ i-j <5$)	436
Long range ($ i-j \geq 5$)	671
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	19.1
Number of long range restraints per residue ¹	5.9

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)	9.9	0.2
0.2-0.5 (Medium)	15.6	0.5
>0.5 (Large)	36.9	1.79

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 ⓘ

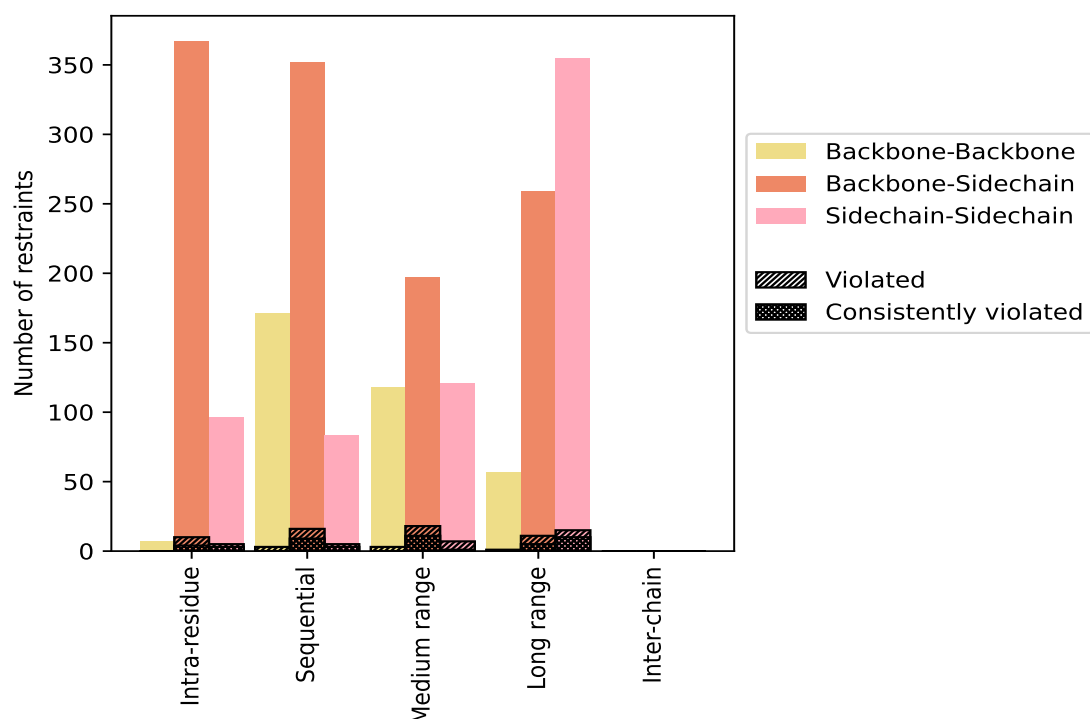
9.1 Summary of distance violations ⓘ

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 ($i-j =0$)	470	21.5	15	3.2	0.7	7	1.5	0.3
Backbone-Backbone	7	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	367	16.8	10	2.7	0.5	4	1.1	0.2
Sidechain-Sidechain	96	4.4	5	5.2	0.2	3	3.1	0.1
Sequential ($i-j =1$)	606	27.8	24	4.0	1.1	12	2.0	0.5
Backbone-Backbone	171	7.8	3	1.8	0.1	0	0.0	0.0
Backbone-Sidechain	352	16.1	16	4.5	0.7	9	2.6	0.4
Sidechain-Sidechain	83	3.8	5	6.0	0.2	3	3.6	0.1
Medium range ($i-j >1$ & $i-j <5$)	436	20.0	28	6.4	1.3	12	2.8	0.5
Backbone-Backbone	118	5.4	3	2.5	0.1	0	0.0	0.0
Backbone-Sidechain	197	9.0	18	9.1	0.8	11	5.6	0.5
Sidechain-Sidechain	121	5.5	7	5.8	0.3	1	0.8	0.0
Long range ($i-j \geq 5$)	671	30.7	27	4.0	1.2	15	2.2	0.7
Backbone-Backbone	57	2.6	1	1.8	0.0	0	0.0	0.0
Backbone-Sidechain	259	11.9	11	4.2	0.5	5	1.9	0.2
Sidechain-Sidechain	355	16.3	15	4.2	0.7	10	2.8	0.5
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	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	2183	100.0	94	4.3	4.3	46	2.1	2.1
Backbone-Backbone	353	16.2	7	2.0	0.3	0	0.0	0.0
Backbone-Sidechain	1175	53.8	55	4.7	2.5	29	2.5	1.3
Sidechain-Sidechain	655	30.0	32	4.9	1.5	17	2.6	0.8

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 disulfied 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	10	16	19	20	0	65	0.71	1.68	0.48	0.64
2	9	13	18	20	0	60	0.76	1.7	0.47	0.65
3	10	15	20	20	0	65	0.72	1.69	0.48	0.66
4	10	17	19	19	0	65	0.71	1.7	0.48	0.66
5	11	14	20	20	0	65	0.68	1.65	0.46	0.63
6	11	16	21	20	0	68	0.69	1.62	0.48	0.59
7	11	16	18	20	0	65	0.72	1.73	0.49	0.66
8	10	17	19	20	0	66	0.71	1.76	0.48	0.66
9	10	15	20	18	0	63	0.73	1.71	0.48	0.65
10	10	16	19	20	0	65	0.71	1.69	0.49	0.67

Continued on next page...

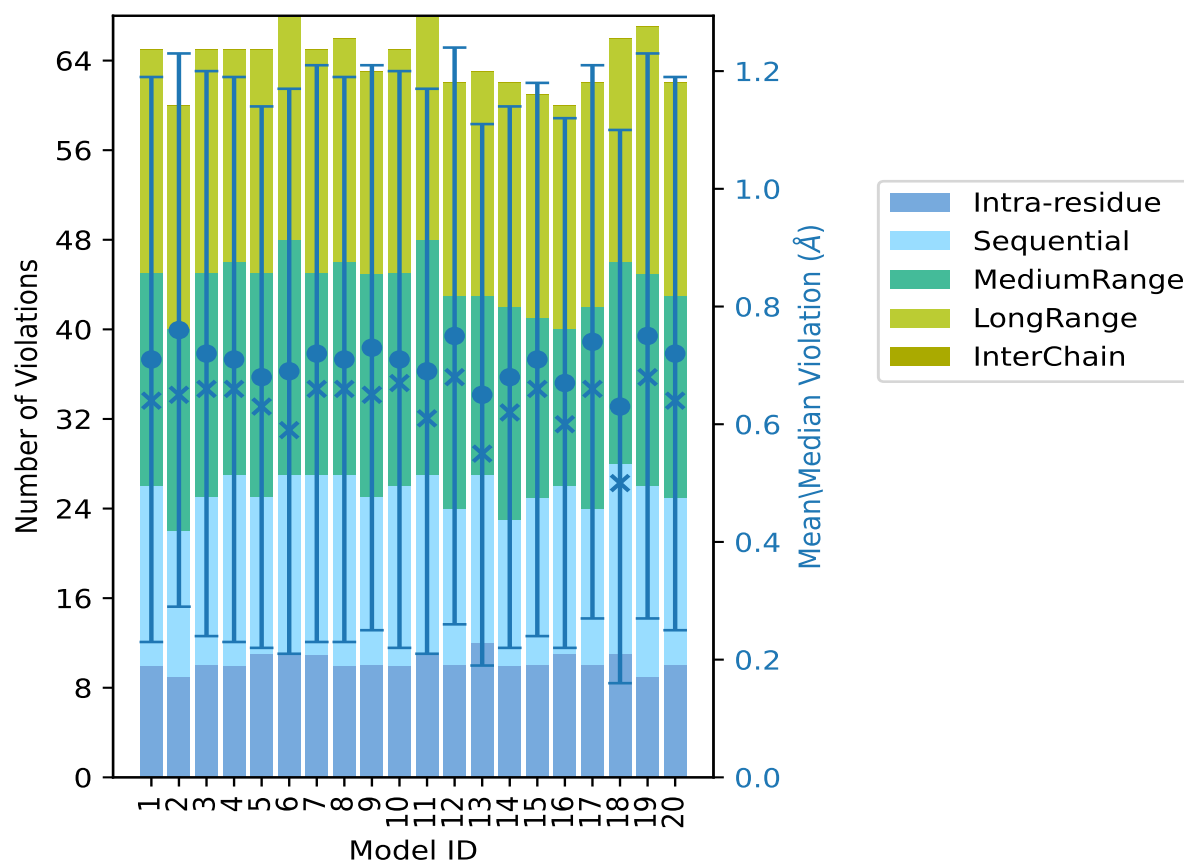
Continued from previous page...

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				
11	11	16	21	20	0	68	0.69	1.75	0.48	0.61
12	10	14	19	19	0	62	0.75	1.67	0.49	0.68
13	12	15	16	20	0	63	0.65	1.62	0.46	0.55
14	10	13	19	20	0	62	0.68	1.63	0.46	0.62
15	10	15	16	20	0	61	0.71	1.7	0.47	0.66
16	11	15	14	20	0	60	0.67	1.69	0.45	0.6
17	10	14	18	20	0	62	0.74	1.65	0.47	0.66
18	11	17	18	20	0	66	0.63	1.69	0.47	0.5
19	9	17	19	22	0	67	0.75	1.79	0.48	0.68
20	10	15	18	19	0	62	0.72	1.77	0.47	0.64

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 ⓘ



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

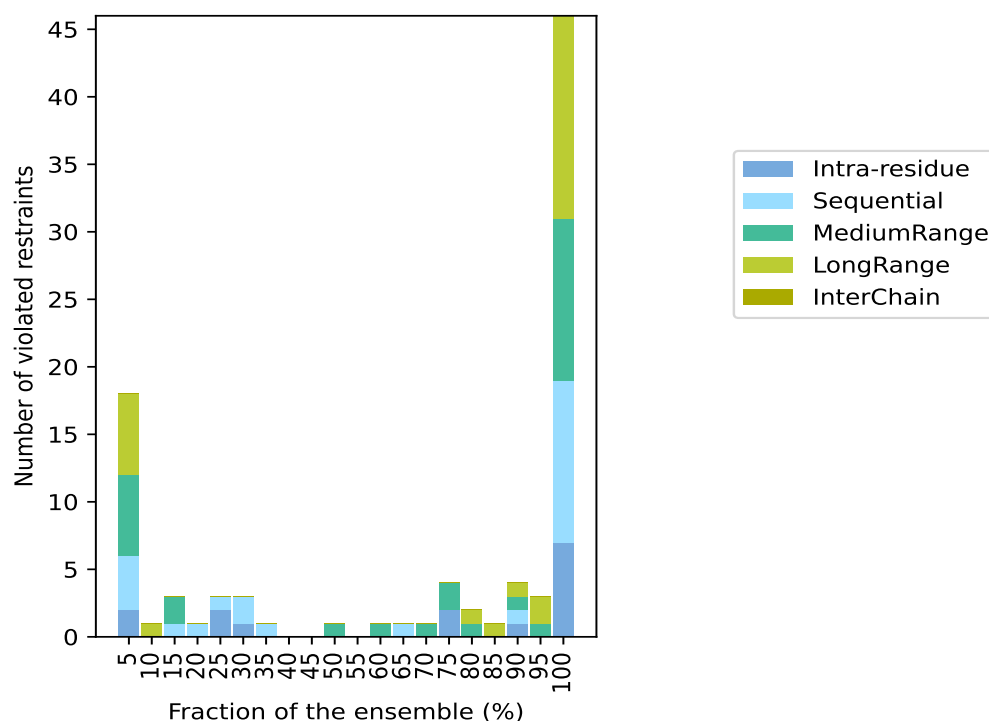
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2089(IR:455, SQ:582, MR:408, LR:644, IC:0) restraints are 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	%
2	4	6	6	0	18	1	5.0
0	0	0	1	0	1	2	10.0
0	1	2	0	0	3	3	15.0
0	1	0	0	0	1	4	20.0
2	1	0	0	0	3	5	25.0
1	2	0	0	0	3	6	30.0
0	1	0	0	0	1	7	35.0
0	0	0	0	0	0	8	40.0
0	0	0	0	0	0	9	45.0
0	0	1	0	0	1	10	50.0
0	0	0	0	0	0	11	55.0
0	0	1	0	0	1	12	60.0
0	1	0	0	0	1	13	65.0
0	0	1	0	0	1	14	70.0
2	0	2	0	0	4	15	75.0
0	0	1	1	0	2	16	80.0
0	0	0	1	0	1	17	85.0
1	1	1	1	0	4	18	90.0
0	0	1	2	0	3	19	95.0
7	12	12	15	0	46	20	100.0

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

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

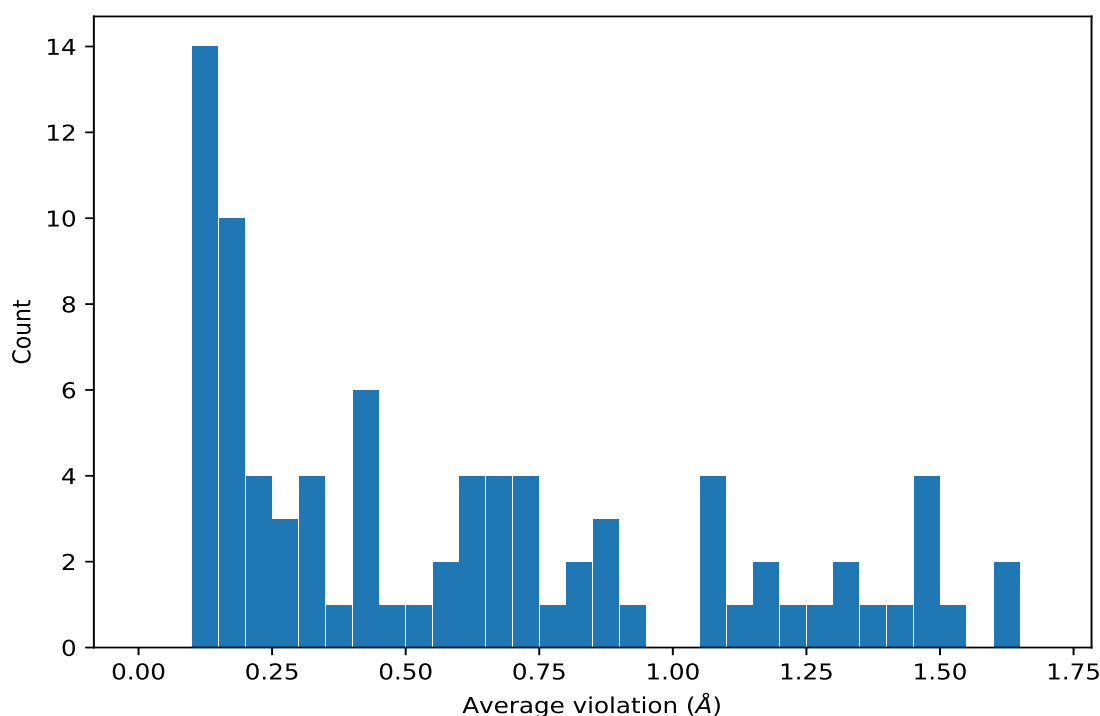
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	20	1.62	0.0	1.62
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	20	1.5	0.31	1.67
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	20	1.49	0.01	1.49
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	20	1.47	0.0	1.47
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	20	1.44	0.03	1.44
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	20	1.37	0.02	1.37
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	20	1.34	0.02	1.34
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	20	1.33	0.03	1.32
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	20	1.25	0.03	1.26
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	20	1.24	0.02	1.23
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	20	1.18	0.26	1.33
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	20	1.14	0.0	1.14
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	20	1.09	0.02	1.08
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	20	1.08	0.1	1.06
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	20	1.08	0.03	1.08
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	20	1.05	0.03	1.05

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	20	0.94	0.01	0.94
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	20	0.85	0.01	0.86
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	20	0.85	0.01	0.84
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	20	0.84	0.22	0.92
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	20	0.75	0.15	0.78
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	20	0.72	0.02	0.72
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	20	0.71	0.05	0.72
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	20	0.7	0.08	0.74
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	20	0.69	0.01	0.69
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	20	0.66	0.02	0.66
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	20	0.65	0.05	0.64
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	20	0.62	0.1	0.68
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	20	0.61	0.01	0.6
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	20	0.55	0.05	0.56
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	20	0.44	0.03	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	20	0.42	0.02	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	20	0.42	0.02	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	20	0.42	0.02	0.43
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	20	0.41	0.01	0.41
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	20	0.35	0.01	0.36
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	20	0.34	0.01	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	20	0.33	0.01	0.34
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	20	0.33	0.01	0.32
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	20	0.3	0.04	0.29
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	20	0.29	0.07	0.29
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	20	0.27	0.03	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	20	0.25	0.04	0.27
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	20	0.22	0.03	0.22
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	20	0.22	0.03	0.22
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	20	0.2	0.02	0.2
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	20	0.19	0.03	0.18
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	20	0.19	0.03	0.18
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	20	0.13	0.01	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	20	0.13	0.01	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	20	0.13	0.01	0.13
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	20	0.1	0.0	0.1
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	19	1.64	0.04	1.64
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	19	1.46	0.04	1.47
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	19	0.19	0.03	0.2
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	18	0.49	0.17	0.57
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	18	0.17	0.05	0.16
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	18	0.16	0.03	0.16

Continued on next page...

Continued from previous page...

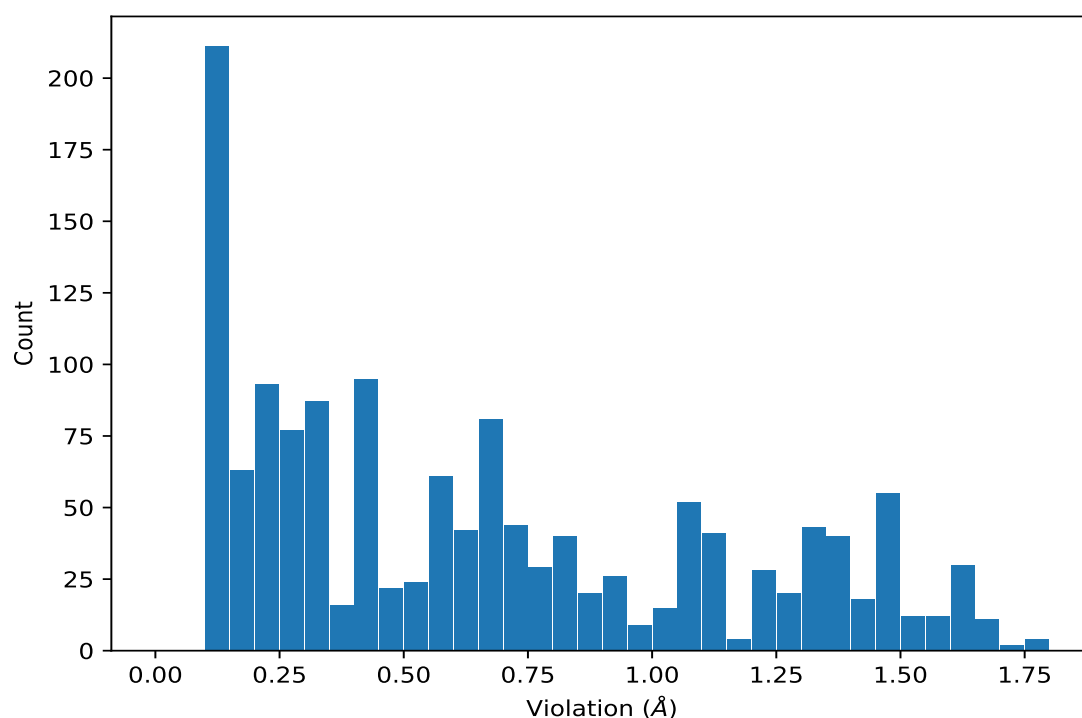
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	18	0.11	0.01	0.11
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	17	0.61	0.07	0.61
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	17	0.61	0.07	0.61
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	16	0.23	0.04	0.23
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	16	0.14	0.03	0.13
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	15	1.49	0.13	1.53
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	15	1.19	0.08	1.2
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	15	0.57	0.01	0.57
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	15	0.44	0.08	0.46
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	14	0.67	0.05	0.66
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	13	0.18	0.04	0.18
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	12	0.11	0.01	0.11
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	10	0.86	0.33	0.86
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	7	0.18	0.05	0.2
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	6	0.13	0.01	0.13
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	6	0.13	0.0	0.13
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	6	0.12	0.01	0.12
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	6	0.12	0.01	0.12
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	5	0.71	0.01	0.71
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	5	0.5	0.0	0.5
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	5	0.12	0.02	0.12
(1,1773)	1:103:A:LEU:HG	1:104:A:ALA:HA	4	0.12	0.0	0.12
(1,2167)	1:103:A:LEU:HD11	1:106:A:ASP:H	3	0.81	0.13	0.82
(1,2156)	1:102:A:ASP:HB2	1:103:A:LEU:HD11	3	0.15	0.06	0.12
(1,2156)	1:102:A:ASP:HB3	1:103:A:LEU:HD11	3	0.15	0.06	0.12
(1,2085)	1:84:A:THR:HB	1:88:A:LEU:HD11	3	0.15	0.03	0.14
(1,918)	1:13:A:HIS:HB2	1:42:A:GLU:H	2	0.12	0.0	0.12

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)
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	19	1.79
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	20	1.77
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	8	1.76
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	11	1.75
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	7	1.73
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	9	1.71
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	2	1.7
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	4	1.7
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	15	1.7
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	3	1.69
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	10	1.69
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	16	1.69
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	18	1.69
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	1	1.68
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	10	1.68
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	12	1.67

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	9	1.66
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	5	1.65
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	7	1.65
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	17	1.65
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	8	1.64
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	2	1.63
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	14	1.63
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	13	1.62
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	20	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	1	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	2	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	3	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	4	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	5	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	6	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	7	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	8	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	9	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	10	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	11	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	12	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	13	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	15	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	16	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	17	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	19	1.62
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	14	1.61
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	18	1.61
(1,283)	1:81:A:LEU:H	1:83:A:GLN:HE21	20	1.61
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	3	1.6
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	6	1.6
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	4	1.59
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	9	1.59
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	19	1.59
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	1	1.58
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	2	1.58
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	3	1.58
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	20	1.58
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	12	1.57
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	7	1.57
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	6	1.56
(1,1838)	1:7:A:PRO:HB2	1:9:A:LEU:HD11	11	1.56

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	12	1.56
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	10	1.53
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	19	1.5
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	4	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	3	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	5	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	6	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	8	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	9	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	11	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	12	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	16	1.5
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	17	1.5
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	8	1.49
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	17	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	1	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	2	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	4	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	7	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	10	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	13	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	14	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	15	1.49
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	18	1.49
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	1	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	4	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	5	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	9	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	10	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	12	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	13	1.48
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	15	1.48
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	19	1.48
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	20	1.48
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	17	1.47
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	2	1.47
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	7	1.47
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	17	1.47
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	19	1.47
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	4	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	1	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	2	1.47

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	3	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	4	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	5	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	6	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	7	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	8	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	9	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	10	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	11	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	12	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	13	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	14	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	15	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	16	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	17	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	18	1.47
(1,810)	1:57:A:ASN:HD21	1:58:A:GLN:H	20	1.47
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	3	1.46
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	16	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	2	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	7	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	10	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	13	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	18	1.46
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	20	1.46
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	11	1.46
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	6	1.45
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	1	1.45
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	11	1.45
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	14	1.45
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	1	1.45
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	3	1.44
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	8	1.44
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	12	1.44
(1,661)	1:37:A:ASN:HD21	1:38:A:LEU:H	19	1.44
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	6	1.43
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	5	1.42
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	20	1.42
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	17	1.42
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	17	1.41
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	9	1.41
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	16	1.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	7	1.41
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	8	1.41
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	2	1.4
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	7	1.4
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	18	1.4
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	20	1.4
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	14	1.4
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	17	1.39
(1,1852)	1:9:A:LEU:HD11	1:38:A:LEU:HB2	19	1.39
(1,1852)	1:9:A:LEU:HD11	1:38:A:LEU:HB3	19	1.39
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	4	1.39
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	5	1.39
(1,1558)	1:9:A:LEU:HA	1:37:A:ASN:HD21	15	1.39
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	9	1.38
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	7	1.38
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	11	1.38
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	19	1.38
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	20	1.38
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	6	1.38
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	1	1.38
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	4	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	8	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	10	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	12	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	15	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	19	1.37
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	1	1.36
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	3	1.36
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	11	1.36
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	13	1.36
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	14	1.36
(1,2003)	1:53:A:THR:HB	1:60:A:VAL:HG11	18	1.36
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	6	1.36
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	14	1.36
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	5	1.35
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	6	1.35
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	18	1.35
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	2	1.35
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	3	1.35
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	13	1.35
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	12	1.35
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	17	1.35

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2060)	1:76:A:THR:H	1:78:A:VAL:HG11	16	1.34
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	2	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	1	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	4	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	5	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	7	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	11	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	12	1.34
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	17	1.34
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	3	1.34
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	14	1.34
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	15	1.34
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	15	1.33
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	4	1.33
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	6	1.33
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	10	1.33
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	9	1.33
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	10	1.33
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	15	1.33
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	16	1.33
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	8	1.33
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	9	1.33
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	19	1.33
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	12	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	1	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	8	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	9	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	12	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	13	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	14	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	15	1.32
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	18	1.32
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	10	1.32
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	20	1.32
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	3	1.31
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	5	1.31
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	11	1.31
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	16	1.31
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	12	1.31
(1,896)	1:57:A:ASN:HD21	1:59:A:ASP:H	8	1.31
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	14	1.31
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	10	1.3

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	18	1.3
(1,2056)	1:74:A:GLU:HA	1:78:A:VAL:HG11	19	1.29
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	11	1.29
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	11	1.29
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	2	1.29
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	8	1.28
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	14	1.28
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	3	1.28
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	14	1.27
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	15	1.27
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	18	1.27
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	11	1.27
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	3	1.26
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	4	1.26
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	6	1.26
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	7	1.26
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	9	1.26
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	17	1.26
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	11	1.26
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	1	1.25
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	17	1.25
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	1	1.24
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	5	1.24
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	16	1.24
(1,1846)	1:9:A:LEU:HD11	1:10:A:LEU:HA	19	1.24
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	3	1.24
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	6	1.24
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	7	1.24
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	12	1.24
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	17	1.24
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	5	1.24
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	8	1.23
(1,1854)	1:9:A:LEU:HD11	1:39:A:THR:HA	19	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	5	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	9	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	10	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	13	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	15	1.23
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	16	1.23
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	1	1.23
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	2	1.23
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	13	1.22

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	20	1.22
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	2	1.22
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	4	1.22
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	19	1.22
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	2	1.21
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	18	1.21
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	12	1.21
(1,1863)	1:10:A:LEU:HB2	1:38:A:LEU:HD11	19	1.2
(1,826)	1:63:A:GLN:HE21	1:64:A:THR:H	20	1.2
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	10	1.2
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	20	1.18
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	4	1.15
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	1	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	2	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	3	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	4	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	5	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	6	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	7	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	8	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	9	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	10	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	11	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	12	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	13	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	14	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	15	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	16	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	17	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	18	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	19	1.14
(1,659)	1:58:A:GLN:HA	1:58:A:GLN:HE21	20	1.14
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	19	1.13
(1,1847)	1:9:A:LEU:HD11	1:11:A:THR:H	19	1.13
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	8	1.13
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	8	1.13
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	1	1.12
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	8	1.12
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	11	1.12
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	6	1.12
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	11	1.12
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	6	1.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	6	1.11
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	18	1.11
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	20	1.11
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	7	1.11
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	19	1.11
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	2	1.1
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	13	1.1
(1,821)	1:91:A:ARG:H	1:94:A:ASN:HD21	5	1.1
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	5	1.1
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	8	1.1
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	10	1.09
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	12	1.09
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	3	1.09
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	5	1.09
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	3	1.09
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	7	1.09
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	6	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	1	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	3	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	9	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	11	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	15	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	16	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	17	1.09
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	19	1.09
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	3	1.08
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	6	1.08
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	9	1.08
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	15	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	2	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	6	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	7	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	12	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	13	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	14	1.08
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	18	1.08
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	4	1.07
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	7	1.07
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	14	1.07
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	16	1.07
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	17	1.07
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	17	1.07

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	20	1.07
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	9	1.07
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	12	1.07
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	13	1.07
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	17	1.07
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	4	1.07
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	10	1.07
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	14	1.06
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	18	1.06
(1,1860)	1:10:A:LEU:H	1:38:A:LEU:HD11	5	1.06
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	10	1.06
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	10	1.06
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	1	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	2	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	7	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	8	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	12	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	16	1.05
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	1	1.05
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	16	1.05
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	9	1.04
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	13	1.04
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	18	1.04
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	4	1.04
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	5	1.04
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	6	1.04
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	4	1.03
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	19	1.03
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	19	1.03
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	15	1.02
(1,646)	1:94:A:ASN:H	1:94:A:ASN:HD21	9	1.02
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	10	1.01
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	19	1.01
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	2	1.01
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	14	1.0
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	15	0.99
(1,1090)	1:56:A:VAL:HG11	1:91:A:ARG:HD2	15	0.99
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	15	0.98
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	20	0.98
(1,2167)	1:103:A:LEU:HD11	1:106:A:ASP:H	6	0.97
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	9	0.97
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	9	0.96

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	8	0.96
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	13	0.96
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	13	0.95
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	5	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	3	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	5	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	6	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	11	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	16	0.95
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	1	0.94
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	2	0.94
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	8	0.94
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	12	0.94
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	18	0.94
(1,112)	1:56:A:VAL:HG11	1:61:A:ILE:H	20	0.94
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	1	0.93
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	4	0.93
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	7	0.93
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	9	0.93
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	15	0.93
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	17	0.93
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	7	0.92
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	11	0.92
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	10	0.92
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	14	0.92
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	19	0.92
(1,440)	1:80:A:ALA:H	1:83:A:GLN:HE21	20	0.92
(1,823)	1:51:A:TRP:HH2	1:63:A:GLN:HE21	20	0.91
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	17	0.89
(1,2119)	1:94:A:ASN:H	1:97:A:LEU:HD11	16	0.88
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	18	0.88
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	2	0.88
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	3	0.88
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	1	0.87
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	17	0.87
(1,1853)	1:9:A:LEU:HD11	1:39:A:THR:H	19	0.87
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	2	0.86
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	14	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	1	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	2	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	4	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	7	0.86

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	8	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	10	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	12	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	17	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	18	0.86
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	20	0.86
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	7	0.85
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	8	0.85
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	9	0.85
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	11	0.85
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	20	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	3	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	5	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	6	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	9	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	11	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	13	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	14	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	15	0.85
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	19	0.85
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	1	0.85
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	8	0.85
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	18	0.85
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	4	0.85
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	2	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	4	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	5	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	6	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	10	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	12	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	13	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	16	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	19	0.84
(1,2063)	1:77:A:VAL:H	1:78:A:VAL:HG11	16	0.84
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	2	0.84
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	3	0.83
(1,2065)	1:77:A:VAL:HB	1:78:A:VAL:HG11	15	0.83
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	17	0.83
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	11	0.83
(1,2167)	1:103:A:LEU:HD11	1:106:A:ASP:H	11	0.82
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	13	0.82
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	20	0.81

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	12	0.81
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	18	0.81
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	11	0.8
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	5	0.8
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	3	0.79
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	13	0.79
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	5	0.78
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	6	0.78
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	4	0.78
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	6	0.78
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	6	0.77
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	4	0.77
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	16	0.77
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	3	0.76
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	10	0.76
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	17	0.76
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	4	0.76
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	12	0.76
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	15	0.76
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	17	0.76
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	14	0.75
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	11	0.75
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	11	0.75
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	20	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	1	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	3	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	6	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	10	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	13	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	15	0.75
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	16	0.75
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	14	0.75
(1,1845)	1:9:A:LEU:HD11	1:10:A:LEU:H	19	0.75
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	6	0.74
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	8	0.74
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	5	0.74
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	9	0.74
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	14	0.74
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	7	0.74
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	20	0.74
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	1	0.73
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	18	0.73

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	8	0.73
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	11	0.73
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	15	0.73
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	15	0.73
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	7	0.73
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	9	0.73
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	10	0.73
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	12	0.73
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	9	0.73
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	10	0.73
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	14	0.73
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	17	0.73
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	19	0.73
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	8	0.73
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	4	0.72
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	19	0.72
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	2	0.72
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	4	0.72
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	8	0.72
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	15	0.72
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	15	0.72
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	16	0.72
(1,818)	1:86:A:GLU:HB3	1:89:A:ASN:HD21	16	0.72
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	5	0.71
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	9	0.71
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	7	0.71
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	7	0.71
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	10	0.71
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	1	0.71
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	3	0.71
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	11	0.71
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	12	0.71
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	18	0.71
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	13	0.71
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	7	0.71
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	11	0.7
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	7	0.7
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	12	0.7
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	12	0.7
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	1	0.7
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	3	0.7
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	6	0.7

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	8	0.7
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	11	0.7
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	13	0.7
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	16	0.7
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	14	0.7
(1,845)	1:94:A:ASN:HA	1:94:A:ASN:HD21	18	0.7
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	2	0.7
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	17	0.7
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	8	0.69
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	18	0.69
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	16	0.69
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	19	0.69
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	19	0.69
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	11	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	2	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	4	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	5	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	9	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	12	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	15	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	16	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	17	0.69
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	18	0.69
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	5	0.69
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	6	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	3	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	9	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	10	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	14	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	15	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	19	0.69
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	20	0.69
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	8	0.68
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	5	0.68
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	10	0.68
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	7	0.68
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	10	0.68
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	14	0.68
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	19	0.68
(1,853)	1:79:A:ALA:H	1:83:A:GLN:HE21	20	0.68
(1,851)	1:79:A:ALA:HA	1:83:A:GLN:HE21	13	0.68
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	1	0.68

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	1	0.68
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	7	0.68
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	8	0.68
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	12	0.68
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	3	0.67
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	19	0.67
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	2	0.67
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	2	0.67
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	7	0.67
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	14	0.67
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	3	0.67
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	10	0.67
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	4	0.67
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	7	0.66
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	4	0.66
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	17	0.66
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	15	0.66
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	3	0.66
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	4	0.66
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	13	0.66
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	15	0.66
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	17	0.66
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	12	0.66
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	15	0.66
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	19	0.66
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	20	0.65
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	19	0.65
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	6	0.65
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	9	0.65
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	16	0.65
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	14	0.65
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	20	0.65
(1,2167)	1:103:A:LEU:HD11	1:106:A:ASP:H	5	0.64
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	1	0.64
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	3	0.64
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	7	0.64
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	13	0.64
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	20	0.64
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	20	0.64
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	1	0.64
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	5	0.64
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	8	0.64

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	18	0.64
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	20	0.64
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	9	0.64
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	1	0.63
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	15	0.63
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	20	0.63
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	13	0.63
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	14	0.63
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	2	0.63
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	18	0.63
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	20	0.63
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	5	0.63
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	5	0.63
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	12	0.62
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	7	0.62
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	7	0.62
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	17	0.62
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	4	0.62
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	4	0.62
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	8	0.62
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	8	0.62
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	2	0.62
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	11	0.61
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	9	0.61
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	14	0.61
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	10	0.61
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	11	0.61
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	16	0.61
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	13	0.61
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	13	0.61
(1,1861)	1:10:A:LEU:HA	1:38:A:LEU:HD11	19	0.61
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	2	0.61
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	17	0.6
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	20	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	3	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	5	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	9	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	12	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	14	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	15	0.6
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	19	0.6
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	1	0.6

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	1	0.6
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	16	0.6
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	16	0.6
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	9	0.59
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	10	0.59
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	12	0.59
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	16	0.59
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	4	0.59
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	6	0.59
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	8	0.59
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	13	0.59
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	2	0.59
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	4	0.59
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	8	0.59
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	18	0.59
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	6	0.59
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	6	0.59
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	17	0.59
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	17	0.59
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	17	0.59
(1,820)	1:86:A:GLU:HG3	1:89:A:ASN:HD21	17	0.59
(1,2083)	1:84:A:THR:HA	1:88:A:LEU:HD11	2	0.58
(1,2059)	1:76:A:THR:H	1:77:A:VAL:HG11	1	0.58
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	5	0.58
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	2	0.58
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	3	0.58
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	4	0.58
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	1	0.57
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	3	0.57
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	15	0.57
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	16	0.57
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	20	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	7	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	9	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	10	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	11	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	12	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	19	0.57
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	20	0.57
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	19	0.56
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	9	0.56
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	17	0.56

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	1	0.56
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	8	0.56
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	6	0.55
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	11	0.55
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	12	0.55
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	13	0.55
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	3	0.55
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	17	0.55
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	5	0.55
(1,2105)	1:87:A:ALA:H	1:88:A:LEU:HD11	2	0.54
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	14	0.54
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	18	0.54
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	18	0.54
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	2	0.54
(1,844)	1:94:A:ASN:HB3	1:94:A:ASN:HD21	6	0.54
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	2	0.53
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	18	0.53
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	7	0.53
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	10	0.53
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	19	0.52
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	10	0.51
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	20	0.51
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	3	0.5
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	3	0.5
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	11	0.5
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	11	0.5
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB2	14	0.5
(1,1875)	1:15:A:VAL:HG11	1:44:A:PRO:HB3	14	0.5
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	13	0.5
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	14	0.5
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	15	0.5
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	16	0.5
(1,816)	1:94:A:ASN:HB2	1:94:A:ASN:HD21	18	0.5
(1,2061)	1:76:A:THR:HB	1:77:A:VAL:HG11	2	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	5	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	6	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	11	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	13	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	16	0.49
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	18	0.49
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	4	0.48
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	11	0.48

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	13	0.48
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	12	0.47
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	19	0.47
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	5	0.47
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	6	0.47
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	16	0.47
(1,643)	1:89:A:ASN:HB3	1:89:A:ASN:HD21	18	0.47
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	6	0.46
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	9	0.46
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	18	0.45
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	11	0.45
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	11	0.45
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	11	0.45
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	17	0.44
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	2	0.44
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	3	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	5	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	5	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	5	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	6	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	6	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	6	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	8	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	8	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	8	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	10	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	10	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	10	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	17	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	17	0.44
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	17	0.44
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	11	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	3	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	3	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	3	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	4	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	4	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	4	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	7	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	7	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	7	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	19	0.43

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	19	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	19	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	20	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	20	0.43
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	20	0.43
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	6	0.42
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	17	0.42
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	20	0.42
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	7	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	1	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	2	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	4	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	7	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	8	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	9	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	10	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	12	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	14	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	15	0.42
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	20	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	1	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	1	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	1	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	2	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	2	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	2	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	12	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	12	0.42
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	12	0.42
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	1	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	5	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	7	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	8	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	10	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	11	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	13	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	14	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	18	0.41
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	13	0.41
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	16	0.41
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	3	0.41
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	17	0.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:89:A:ASN:HB2	1:89:A:ASN:HD21	19	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	9	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	9	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	9	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	13	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	13	0.41
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	13	0.41
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	4	0.4
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	9	0.4
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	12	0.4
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	15	0.4
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	16	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	14	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	14	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	14	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	15	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	15	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	15	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	16	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	16	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	16	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG21	18	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG22	18	0.4
(1,658)	1:92:A:GLN:HE21	1:93:A:ILE:HG23	18	0.4
(1,1906)	1:27:A:SER:HA	1:38:A:LEU:HD11	19	0.39
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	11	0.39
(1,832)	1:95:A:GLN:H	1:95:A:GLN:HE21	14	0.39
(1,1954)	1:37:A:ASN:HA	1:38:A:LEU:HD11	19	0.37
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	1	0.37
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	1	0.37
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	2	0.37
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	3	0.37
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	8	0.37
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	20	0.37
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	4	0.36
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	4	0.36
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	9	0.36
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	12	0.36
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	15	0.36
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	17	0.36
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	6	0.35
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	4	0.35

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	5	0.35
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	8	0.35
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	9	0.35
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	17	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	2	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	3	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	5	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	7	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	14	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	15	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	16	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	17	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	18	0.35
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	20	0.35
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	7	0.35
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	14	0.35
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	16	0.35
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	18	0.35
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	19	0.35
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	3	0.34
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	6	0.34
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	9	0.34
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	11	0.34
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	13	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	3	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	6	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	10	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	18	0.34
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	20	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	1	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	4	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	6	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	8	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	9	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	10	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	11	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	12	0.34
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	13	0.34
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	5	0.34
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	6	0.34
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	10	0.34
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	11	0.34

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	5	0.33
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	1	0.33
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	7	0.33
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	5	0.33
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	6	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	1	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	2	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	7	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	12	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	13	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	15	0.33
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	16	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	1	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	3	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	7	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	8	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	10	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	12	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	13	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	14	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	17	0.33
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	19	0.33
(1,190)	1:83:A:GLN:H	1:83:A:GLN:HE21	13	0.33
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	10	0.32
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	18	0.32
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	18	0.32
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	20	0.32
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	20	0.32
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	11	0.32
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	14	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	2	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	4	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	5	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	6	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	9	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	11	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	15	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	16	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	18	0.32
(1,824)	1:51:A:TRP:HE3	1:63:A:GLN:HE21	20	0.32
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	14	0.31
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	16	0.31

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	17	0.31
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	9	0.3
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	8	0.3
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	18	0.3
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	8	0.3
(1,854)	1:90:A:ARG:H	1:94:A:ASN:HD21	8	0.3
(1,830)	1:36:A:GLY:HA3	1:37:A:ASN:HD21	19	0.3
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	7	0.29
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	1	0.29
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	20	0.29
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	3	0.29
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	4	0.29
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	5	0.29
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	12	0.29
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	14	0.29
(1,628)	1:57:A:ASN:HA	1:57:A:ASN:HD21	19	0.29
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	5	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	1	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	4	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	5	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	10	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	18	0.28
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	19	0.28
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	4	0.28
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	7	0.28
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	5	0.28
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	14	0.28
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	4	0.27
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	3	0.27
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	12	0.27
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	13	0.27
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	20	0.27
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	13	0.27
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	2	0.27
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	10	0.27
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	16	0.27
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	10	0.27
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	10	0.27
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	18	0.27
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	18	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	1	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	2	0.27

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	4	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	5	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	6	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	9	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	10	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	12	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	15	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	16	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	17	0.27
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	19	0.27
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	2	0.26
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	6	0.26
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	14	0.26
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	17	0.26
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	12	0.26
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	3	0.26
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	20	0.26
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	19	0.26
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	7	0.26
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	7	0.26
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	13	0.26
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	13	0.26
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	3	0.26
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	7	0.26
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	13	0.26
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	20	0.26
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	8	0.25
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	15	0.25
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	16	0.25
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	13	0.25
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	7	0.25
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	13	0.25
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	16	0.25
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	20	0.25
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	20	0.25
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	8	0.25
(1,2156)	1:102:A:ASP:HB2	1:103:A:LEU:HD11	16	0.24
(1,2156)	1:102:A:ASP:HB3	1:103:A:LEU:HD11	16	0.24
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	9	0.24
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	19	0.24
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	13	0.24
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	13	0.24

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	16	0.24
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	16	0.24
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	18	0.24
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	2	0.24
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	2	0.24
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	14	0.24
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	14	0.24
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	18	0.23
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	18	0.23
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	8	0.23
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	16	0.23
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	15	0.23
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	8	0.23
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	8	0.23
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	1	0.23
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	7	0.23
(1,2168)	1:103:A:LEU:HD11	1:107:A:GLU:HA	5	0.22
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	5	0.22
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	5	0.22
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	8	0.22
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	8	0.22
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	10	0.22
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	11	0.22
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	2	0.22
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	6	0.22
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	2	0.22
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	9	0.22
(1,1263)	1:56:A:VAL:HG11	1:91:A:ARG:HD3	17	0.22
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	9	0.22
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	13	0.22
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	1	0.22
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	1	0.22
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	3	0.22
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	3	0.22
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	17	0.22
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	17	0.22
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	13	0.21
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	4	0.21
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	9	0.21
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	15	0.21
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	2	0.21
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	3	0.21

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	8	0.21
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	12	0.21
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	14	0.21
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	18	0.21
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	4	0.21
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	8	0.21
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	10	0.21
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	15	0.21
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	14	0.21
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	16	0.21
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	6	0.21
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	6	0.21
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	9	0.21
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	9	0.21
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	11	0.21
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	11	0.21
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	16	0.21
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	16	0.21
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	8	0.21
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	12	0.2
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	12	0.2
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	14	0.2
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	9	0.2
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	9	0.2
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	11	0.2
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	11	0.2
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	19	0.2
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	19	0.2
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	1	0.2
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	6	0.2
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	7	0.2
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	17	0.2
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	20	0.2
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	4	0.2
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	5	0.2
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	13	0.2
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	20	0.2
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	4	0.2
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	4	0.2
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	12	0.2
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	12	0.2
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	15	0.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	15	0.2
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	11	0.2
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	18	0.2
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	3	0.19
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	8	0.19
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	15	0.19
(1,2085)	1:84:A:THR:HB	1:88:A:LEU:HD11	6	0.19
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	14	0.19
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	14	0.19
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	15	0.19
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	15	0.19
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	15	0.19
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	16	0.19
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	1	0.19
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	17	0.19
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	1	0.19
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	3	0.19
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	6	0.19
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	18	0.19
(1,664)	1:31:A:GLU:H	1:31:A:GLU:HB2	13	0.19
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	1	0.18
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	7	0.18
(1,2111)	1:88:A:LEU:HD11	1:90:A:ARG:H	11	0.18
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	10	0.18
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	19	0.18
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	1	0.18
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	1	0.18
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	10	0.18
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	10	0.18
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	4	0.18
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	5	0.18
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	9	0.18
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	2	0.18
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	18	0.18
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	11	0.17
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	15	0.17
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	20	0.17
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	14	0.17
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	8	0.17
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	13	0.17
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	17	0.17
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	17	0.17

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	3	0.17
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	7	0.17
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	14	0.17
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	15	0.17
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	5	0.17
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	5	0.17
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	4	0.17
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	19	0.16
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	18	0.16
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	1	0.16
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	3	0.16
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	3	0.16
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	7	0.16
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	7	0.16
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	15	0.16
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	6	0.16
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	11	0.16
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	17	0.16
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	20	0.16
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	20	0.16
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	20	0.16
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	13	0.16
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	1	0.16
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	10	0.16
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	3	0.15
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	16	0.15
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	2	0.15
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	2	0.15
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	4	0.15
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	4	0.15
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	12	0.15
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	12	0.15
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	20	0.15
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	20	0.15
(1,1960)	1:38:A:LEU:HD11	1:39:A:THR:HA	19	0.15
(1,1848)	1:9:A:LEU:HD11	1:37:A:ASN:H	12	0.15
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	16	0.15
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	16	0.15
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	16	0.15
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	2	0.15
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	7	0.15
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	11	0.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	7	0.15
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	12	0.15
(1,831)	1:9:A:LEU:HB2	1:37:A:ASN:HD21	19	0.15
(1,831)	1:9:A:LEU:HB3	1:37:A:ASN:HD21	19	0.15
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	4	0.15
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	9	0.14
(1,2089)	1:85:A:GLU:H	1:88:A:LEU:HD11	2	0.14
(1,2085)	1:84:A:THR:HB	1:88:A:LEU:HD11	11	0.14
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	5	0.14
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	20	0.14
(1,2026)	1:61:A:ILE:HG12	1:88:A:LEU:HD11	6	0.14
(1,2026)	1:61:A:ILE:HG13	1:88:A:LEU:HD11	6	0.14
(1,1859)	1:9:A:LEU:HD11	1:57:A:ASN:HD22	19	0.14
(1,1851)	1:9:A:LEU:HD11	1:38:A:LEU:H	19	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	8	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	8	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	8	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	9	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	9	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	9	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	11	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	11	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	11	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	19	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	19	0.14
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	19	0.14
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	12	0.14
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	17	0.14
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	19	0.14
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	8	0.14
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	18	0.14
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	6	0.13
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	11	0.13
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	8	0.13
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	8	0.13
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	19	0.13
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	19	0.13
(1,1934)	1:30:A:TRP:HH2	1:88:A:LEU:HD11	6	0.13
(1,1874)	1:15:A:VAL:HG11	1:43:A:ARG:HA	11	0.13
(1,1773)	1:103:A:LEU:HG	1:104:A:ALA:HA	17	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	3	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	3	0.13

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	3	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	5	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	5	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	5	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	10	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	10	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	10	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	15	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	15	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	15	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	17	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	17	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	17	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	18	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	18	0.13
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	18	0.13
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	1	0.13
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	14	0.13
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	17	0.13
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	5	0.13
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	8	0.13
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	11	0.13
(1,865)	1:100:A:THR:HA	1:102:A:ASP:H	8	0.13
(1,822)	1:51:A:TRP:HZ3	1:63:A:GLN:HE21	14	0.13
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	5	0.13
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	11	0.13
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	13	0.13
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	18	0.13
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	7	0.13
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	11	0.13
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	20	0.13
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	6	0.13
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	11	0.13
(1,2156)	1:102:A:ASP:HB2	1:103:A:LEU:HD11	18	0.12
(1,2156)	1:102:A:ASP:HB3	1:103:A:LEU:HD11	18	0.12
(1,2132)	1:96:A:ALA:H	1:97:A:LEU:HD11	13	0.12
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	18	0.12
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	18	0.12
(1,1773)	1:103:A:LEU:HG	1:104:A:ALA:HA	4	0.12
(1,1773)	1:103:A:LEU:HG	1:104:A:ALA:HA	5	0.12
(1,1773)	1:103:A:LEU:HG	1:104:A:ALA:HA	10	0.12
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	13	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	19	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	1	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	1	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	1	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	2	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	2	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	2	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	4	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	4	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	4	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	6	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	6	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	6	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	7	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	7	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	7	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	12	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	12	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	12	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	14	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	14	0.12
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	14	0.12
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	5	0.12
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	10	0.12
(1,918)	1:13:A:HIS:HB2	1:42:A:GLU:H	12	0.12
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	7	0.12
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	10	0.12
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	12	0.12
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	17	0.12
(1,770)	1:31:A:GLU:H	1:31:A:GLU:HB3	7	0.12
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	6	0.12
(1,645)	1:89:A:ASN:HA	1:89:A:ASN:HD21	16	0.12
(1,533)	1:98:A:LEU:H	1:99:A:SER:HA	1	0.12
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	15	0.12
(1,2164)	1:103:A:LEU:HD11	1:104:A:ALA:HA	6	0.11
(1,2085)	1:84:A:THR:HB	1:88:A:LEU:HD11	3	0.11
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	7	0.11
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	15	0.11
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	15	0.11
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	16	0.11
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	16	0.11
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	1	0.11

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	3	0.11
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	5	0.11
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	10	0.11
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	11	0.11
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB1	13	0.11
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB2	13	0.11
(1,1344)	1:56:A:VAL:HG11	1:87:A:ALA:HB3	13	0.11
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	4	0.11
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	9	0.11
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	20	0.11
(1,1200)	1:56:A:VAL:HG11	1:88:A:LEU:HB2	3	0.11
(1,918)	1:13:A:HIS:HB2	1:42:A:GLU:H	10	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	1	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	3	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	4	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	5	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	6	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	8	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	9	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	11	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	13	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	14	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	15	0.11
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	18	0.11
(1,786)	1:90:A:ARG:HA	1:94:A:ASN:H	18	0.11
(1,728)	1:20:A:HIS:HD2	1:21:A:ASP:H	3	0.11
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	6	0.11
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	9	0.11
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	19	0.11
(1,455)	1:98:A:LEU:HG	1:100:A:THR:H	14	0.11
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	16	0.11
(1,9)	1:16:A:SER:H	1:20:A:HIS:HA	18	0.11
(1,2156)	1:102:A:ASP:HB2	1:103:A:LEU:HD11	10	0.1
(1,2156)	1:102:A:ASP:HB3	1:103:A:LEU:HD11	10	0.1
(1,2058)	1:75:A:LYS:HA	1:78:A:VAL:HG11	18	0.1
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG2	10	0.1
(1,2011)	1:57:A:ASN:HD21	1:58:A:GLN:HG3	10	0.1
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	4	0.1
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	6	0.1
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	8	0.1
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	9	0.1
(1,1636)	1:72:A:ASP:HB3	1:75:A:LYS:HB2	14	0.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1533)	1:106:A:ASP:H	1:107:A:GLU:HA	6	0.1
(1,1443)	1:72:A:ASP:HB2	1:75:A:LYS:HB2	18	0.1
(1,1314)	1:56:A:VAL:HG11	1:59:A:ASP:HB3	18	0.1
(1,898)	1:15:A:VAL:H	1:42:A:GLU:H	10	0.1
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	16	0.1
(1,829)	1:37:A:ASN:HA	1:37:A:ASN:HD21	20	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	1	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	2	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	3	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	4	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	5	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	7	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	8	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	10	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	11	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	12	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	13	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	14	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	15	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	16	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	17	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	18	0.1
(1,627)	1:57:A:ASN:HB2	1:57:A:ASN:HD21	20	0.1
(1,456)	1:100:A:THR:H	1:101:A:GLY:H	13	0.1
(1,289)	1:4:A:VAL:HB	1:5:A:GLU:H	9	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found