Full wwPDB NMR Structure Validation Report (i)

Jun 4, 2023 – 05:53 PM EDT

PDB ID	:	2LJ0
BMRB ID	:	17912
Title	:	The third SH3 domain of R85FL
Authors	:	Jiang, Y.; Hu, H.
Deposited on	:	2011-09-02

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 (i) 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 (1)) were used in the production of this report:

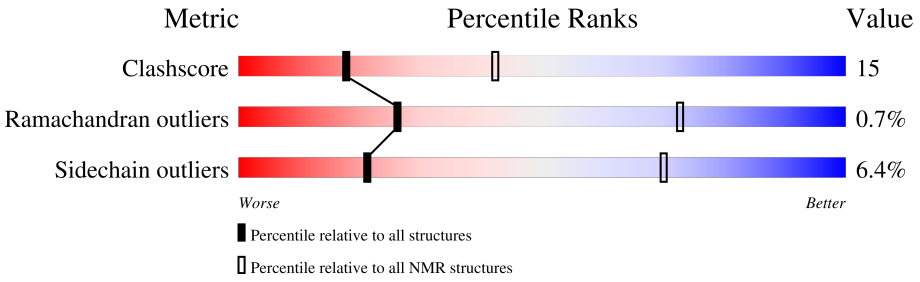
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 81%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	65	62% 26% 12%

2 Ensemble composition and analysis (i)

This entry contains 15 models. Model 12 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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:7-A:63 (57)	0.39	12

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 2 clusters and 1 single-model cluster was found.

Cluster number	Models
1	1, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
2	2, 5
Single-model clusters	4

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 1035 atoms, of which 500 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Sorbin and SH3 domain-containing protein 1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	65	1035	340	500	85	108	2	0

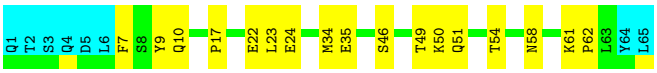
4 Residue-property plots (i)

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: Sorbin and SH3 domain-containing protein 1

Chain A: 62% 26% 12%



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

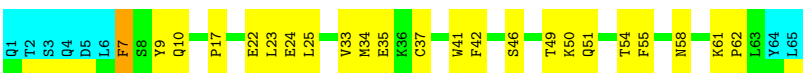
• Molecule 1: Sorbin and SH3 domain-containing protein 1

Chain A: 63% 22% • 12%

4.2.2 Score per residue for model 2

• Molecule 1: Sorbin and SH3 domain-containing protein 1

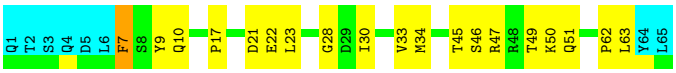
Chain A: 52% 34% • 12%



4.2.3 Score per residue for model 3

• Molecule 1: Sorbin and SH3 domain-containing protein 1

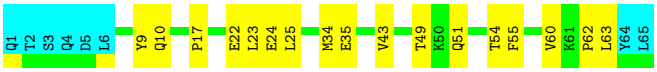
Chain A: 58% 28% • 12%



4.2.4 Score per residue for model 4

• Molecule 1: Sorbin and SH3 domain-containing protein 1

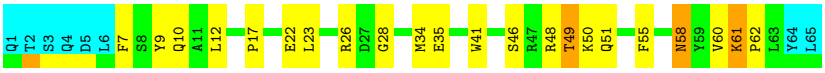
Chain A: 62% 26% 12%



4.2.5 Score per residue for model 5

• Molecule 1: Sorbin and SH3 domain-containing protein 1

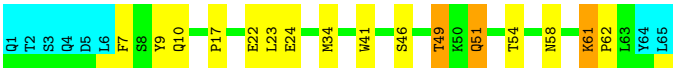
Chain A: 54% 29% 5% 12%



4.2.6 Score per residue for model 6

• Molecule 1: Sorbin and SH3 domain-containing protein 1

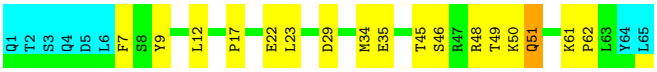
Chain A: 63% 20% 5% 12%



4.2.7 Score per residue for model 7

• Molecule 1: Sorbin and SH3 domain-containing protein 1

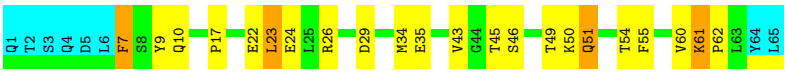
Chain A: 62% 25% • 12%



4.2.8 Score per residue for model 8

• Molecule 1: Sorbin and SH3 domain-containing protein 1

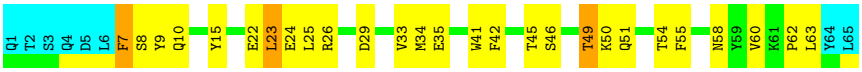
Chain A: 54% 28% 6% 12%



4.2.9 Score per residue for model 9

• Molecule 1: Sorbin and SH3 domain-containing protein 1

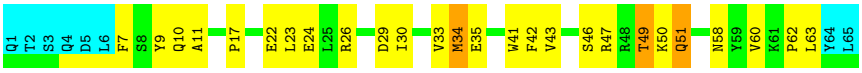
Chain A: 46% 37% 5% 12%



4.2.10 Score per residue for model 10

• Molecule 1: Sorbin and SH3 domain-containing protein 1

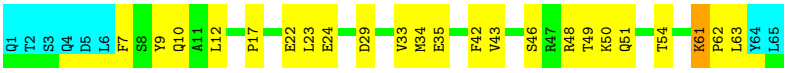
Chain A: 48% 35% 5% 12%



4.2.11 Score per residue for model 11

• Molecule 1: Sorbin and SH3 domain-containing protein 1

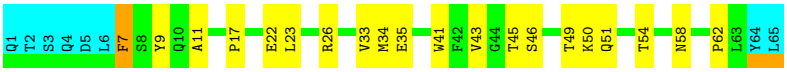
Chain A: 52% 34% • 12%



4.2.12 Score per residue for model 12 (medoid)

• Molecule 1: Sorbin and SH3 domain-containing protein 1

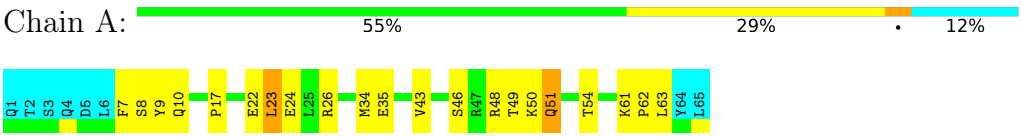
Chain A: 57% 29% • 12%



4.2.13 Score per residue for model 13

• Molecule 1: Sorbin and SH3 domain-containing protein 1

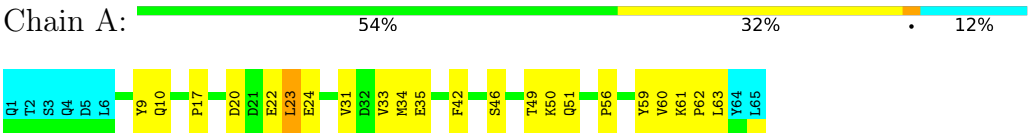
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: Sorbin and SH3 domain-containing protein 1

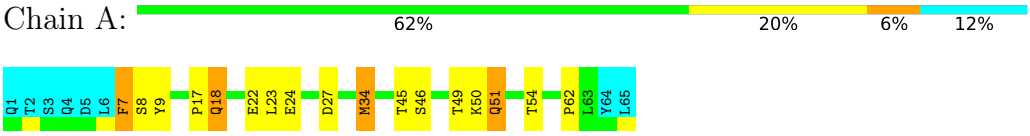
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: Sorbin and SH3 domain-containing protein 1

Chain A:



5 Refinement protocol and experimental data overview (i)

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 15 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	structure solution	
ARIA	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	706
Number of shifts mapped to atoms	706
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	81%

6 Model quality (i)

6.1 Standard geometry (i)

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	467	435	435	14±2
All	All	7005	6525	6525	203

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 15.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:LEU:HD11	1:A:46:SER:HB2	0.78	1.54	14	14
1:A:17:PRO:HB3	1:A:22:GLU:HB2	0.77	1.54	12	13
1:A:22:GLU:HG2	1:A:54:THR:HG23	0.72	1.60	11	5
1:A:23:LEU:HD21	1:A:51:GLN:HG3	0.72	1.61	4	12
1:A:35:GLU:HB3	1:A:43:VAL:HB	0.70	1.62	4	5
1:A:12:LEU:HD21	1:A:61:LYS:HE2	0.67	1.65	5	3
1:A:10:GLN:HB2	1:A:63:LEU:HD11	0.67	1.65	11	7
1:A:12:LEU:HD21	1:A:61:LYS:HE3	0.66	1.67	7	1
1:A:26:ARG:HG3	1:A:29:ASP:HB2	0.65	1.68	8	2
1:A:18:GLN:HE21	1:A:18:GLN:HA	0.65	1.51	15	1
1:A:9:TYR:HD1	1:A:62:PRO:HA	0.61	1.55	7	14
1:A:49:THR:HG23	1:A:51:GLN:HG2	0.58	1.76	6	5
1:A:9:TYR:CD1	1:A:62:PRO:HA	0.57	2.35	2	14
1:A:10:GLN:O	1:A:61:LYS:HG2	0.57	1.99	14	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:TYR:HB3	1:A:60:VAL:HB	0.54	1.78	10	6
1:A:41:TRP:HZ3	1:A:58:ASN:HB2	0.53	1.63	5	7
1:A:34:MET:HG3	1:A:35:GLU:N	0.52	2.19	11	7
1:A:25:LEU:HD21	1:A:55:PHE:HB2	0.52	1.82	4	2
1:A:55:PHE:HE2	1:A:60:VAL:HG21	0.51	1.66	4	3
1:A:23:LEU:CD2	1:A:51:GLN:HG3	0.50	2.36	2	4
1:A:12:LEU:CD2	1:A:61:LYS:HE2	0.49	2.36	1	1
1:A:49:THR:HG21	1:A:51:GLN:HE21	0.49	1.67	5	1
1:A:46:SER:O	1:A:50:LYS:HA	0.49	2.07	5	13
1:A:33:VAL:HG21	1:A:42:PHE:HB3	0.49	1.84	2	2
1:A:30:ILE:CG2	1:A:47:ARG:HD2	0.48	2.39	3	2
1:A:33:VAL:CG2	1:A:42:PHE:HB3	0.47	2.38	10	5
1:A:10:GLN:HG2	1:A:61:LYS:NZ	0.47	2.25	13	1
1:A:17:PRO:HB3	1:A:22:GLU:CB	0.46	2.39	15	4
1:A:10:GLN:HE21	1:A:28:GLY:HA2	0.46	1.71	5	2
1:A:23:LEU:HD13	1:A:24:GLU:N	0.46	2.26	13	10
1:A:7:PHE:HB3	1:A:33:VAL:HG13	0.45	1.87	3	2
1:A:26:ARG:HD3	1:A:48:ARG:HH12	0.45	1.72	13	1
1:A:37:CYS:HB2	1:A:41:TRP:O	0.45	2.11	2	1
1:A:22:GLU:HA	1:A:54:THR:O	0.45	2.12	15	5
1:A:29:ASP:OD1	1:A:48:ARG:HB2	0.44	2.11	11	2
1:A:45:THR:HA	1:A:51:GLN:O	0.44	2.13	9	6
1:A:23:LEU:HB3	1:A:55:PHE:HB3	0.43	1.91	9	1
1:A:9:TYR:CE2	1:A:33:VAL:HG11	0.42	2.49	12	1
1:A:11:ALA:HB3	1:A:26:ARG:O	0.42	2.14	10	2
1:A:34:MET:SD	1:A:35:GLU:N	0.42	2.92	7	2
1:A:9:TYR:CB	1:A:60:VAL:HB	0.41	2.45	10	1
1:A:26:ARG:CG	1:A:29:ASP:HB2	0.41	2.41	9	1
1:A:56:PRO:HB2	1:A:59:TYR:CD2	0.41	2.50	14	1
1:A:31:VAL:HG22	1:A:46:SER:HA	0.41	1.92	14	1
1:A:10:GLN:HG2	1:A:61:LYS:HZ2	0.41	1.75	13	1
1:A:15:TYR:HB3	1:A:25:LEU:HB2	0.40	1.92	9	1
1:A:26:ARG:HD2	1:A:48:ARG:NH1	0.40	2.31	5	1
1:A:57:GLY:HA2	1:A:60:VAL:HG22	0.40	1.92	1	1
1:A:34:MET:CG	1:A:43:VAL:HG12	0.40	2.47	13	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	57/65 (88%)	53±1 (93±2%)	4±1 (6±2%)	0±1 (1±1%)	26	73
All	All	855/975 (88%)	796 (93%)	53 (6%)	6 (1%)	26	73

All 3 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	7	PHE	4
1	A	21	ASP	1
1	A	27	ASP	1

6.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	51/59 (86%)	48±1 (94±2%)	3±1 (6±2%)	21	70
All	All	765/885 (86%)	716 (94%)	49 (6%)	21	70

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	49	THR	13
1	A	7	PHE	10
1	A	51	GLN	7
1	A	34	MET	6
1	A	61	LYS	5
1	A	23	LEU	4
1	A	58	ASN	1

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Mol	Chain	Res	Type	Models (Total)
1	A	29	ASP	1
1	A	20	ASP	1
1	A	18	GLN	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 monosaccharides 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 (i)

The completeness of assignment taking into account all chemical shift lists is 81% for the well-defined parts and 79% 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 (i)

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	706
Number of shifts mapped to atoms	706
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	21

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	64	-0.24 ± 0.37	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	59	-0.12 ± 0.27	None needed (< 0.5 ppm)
$^{13}C'$	59	-0.09 ± 0.32	None needed (< 0.5 ppm)
^{15}N	62	-0.35 ± 0.62	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 81%, i.e. 626 atoms were assigned a chemical shift out of a possible 774. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	281/284 (99%)	116/116 (100%)	111/114 (97%)	54/54 (100%)
Sidechain	328/402 (82%)	221/257 (86%)	103/128 (80%)	4/17 (24%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	17/88 (19%)	17/42 (40%)	0/45 (0%)	0/1 (0%)
Overall	626/774 (81%)	354/415 (85%)	214/287 (75%)	58/72 (81%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 79%, i.e. 702 atoms were assigned a chemical shift out of a possible 885. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	316/324 (98%)	131/132 (99%)	123/130 (95%)	62/62 (100%)
Sidechain	367/464 (79%)	246/297 (83%)	117/148 (79%)	4/19 (21%)
Aromatic	19/97 (20%)	19/46 (41%)	0/50 (0%)	0/1 (0%)
Overall	702/885 (79%)	396/475 (83%)	240/328 (73%)	66/82 (80%)

7.1.4 Statistically unusual chemical shifts (i)

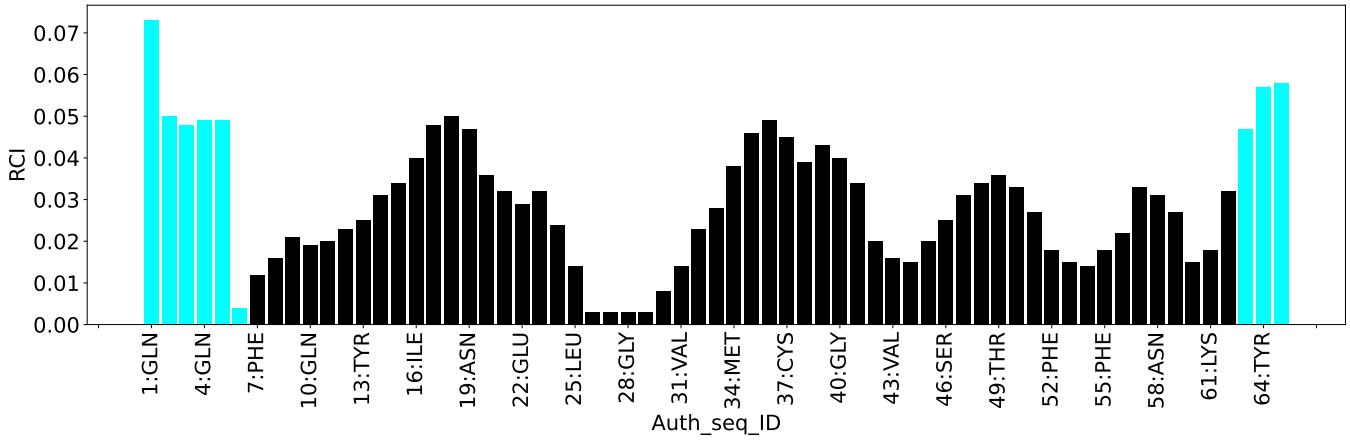
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	2	THR	CB	0.00	61.12 – 78.27	-40.6
1	A	29	ASP	CA	0.00	44.71 – 64.67	-27.4
1	A	6	LEU	CA	0.00	45.17 – 66.21	-26.5
1	A	65	LEU	CA	0.00	45.17 – 66.21	-26.5
1	A	26	ARG	CA	0.00	45.44 – 68.13	-25.0
1	A	65	LEU	CG	0.00	21.37 – 32.19	-24.8
1	A	2	THR	CA	0.00	49.41 – 75.05	-24.3
1	A	64	TYR	CA	0.00	45.75 – 70.63	-23.4
1	A	49	THR	HG1	5.79	0.08 – 2.19	22.0
1	A	45	THR	HG1	5.68	0.08 – 2.19	21.6
1	A	54	THR	HG1	5.30	0.08 – 2.19	19.7
1	A	6	LEU	CD1	0.00	16.71 – 32.55	-15.6
1	A	65	LEU	CD1	0.00	16.71 – 32.55	-15.6
1	A	65	LEU	CD2	0.00	15.73 – 32.47	-14.4
1	A	2	THR	HB	0.00	2.57 – 5.77	-13.0
1	A	56	PRO	HG3	0.18	0.33 – 3.48	-5.5
1	A	36	LYS	HG3	-0.07	0.04 – 2.67	-5.4
1	A	2	THR	HG21	0.00	0.08 – 2.19	-5.4
1	A	2	THR	HG22	0.00	0.08 – 2.19	-5.4
1	A	2	THR	HG23	0.00	0.08 – 2.19	-5.4
1	A	56	PRO	HD2	1.85	1.93 – 5.38	-5.2

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 (i)

8.1 Conformationally restricting restraints (i)

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	1168
Intra-residue (|i-j|=0)	513
Sequential (|i-j|=1)	280
Medium range (|i-j|>1 and |i-j|<5)	55
Long range (|i-j|≥5)	320
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	18.0
Number of long range restraints per residue[1]	4.9

[1]Long 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 (i)

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 (i)

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)	24.9	0.2
0.2-0.5 (Medium)	37.2	0.5
>0.5 (Large)	91.5	4.14

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 (i)

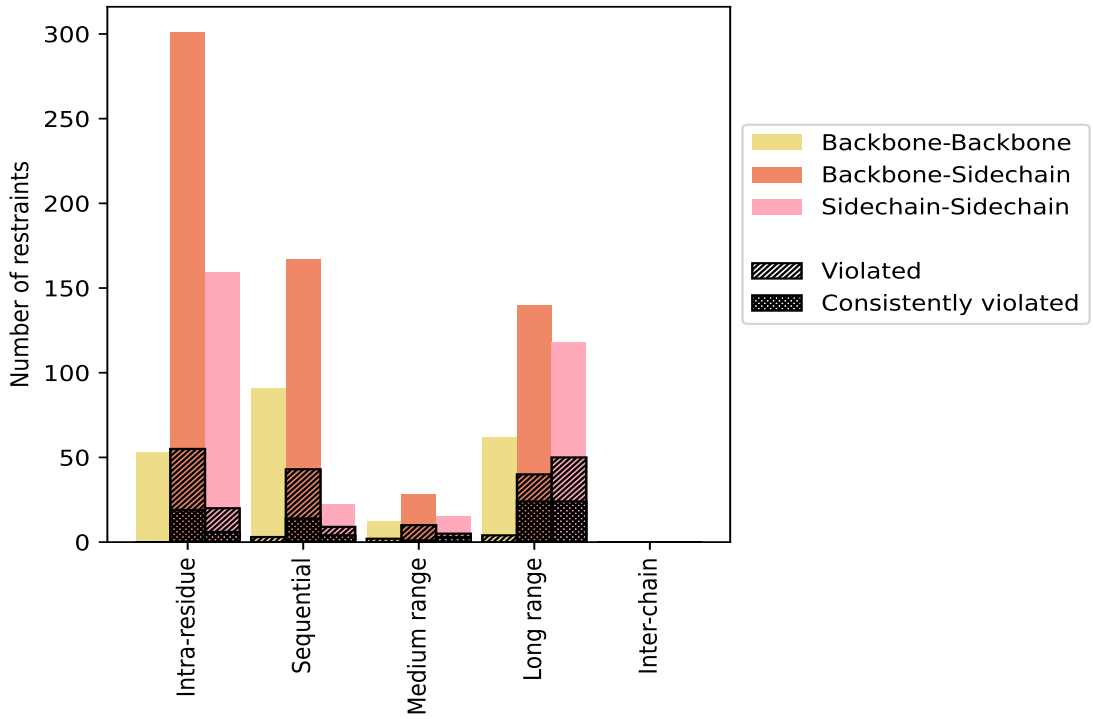
9.1 Summary of distance violations (i)

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.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	513	43.9	75	14.6	6.4	25	4.9	2.1
Backbone-Backbone	53	4.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	301	25.8	55	18.3	4.7	19	6.3	1.6
Sidechain-Sidechain	159	13.6	20	12.6	1.7	6	3.8	0.5
Sequential (|i-j|=1)	280	24.0	55	19.6	4.7	18	6.4	1.5
Backbone-Backbone	91	7.8	3	3.3	0.3	0	0.0	0.0
Backbone-Sidechain	167	14.3	43	25.7	3.7	14	8.4	1.2
Sidechain-Sidechain	22	1.9	9	40.9	0.8	4	18.2	0.3
Medium range (|i-j|>1 & |i-j|<5)	55	4.7	17	30.9	1.5	4	7.3	0.3
Backbone-Backbone	12	1.0	2	16.7	0.2	0	0.0	0.0
Backbone-Sidechain	28	2.4	10	35.7	0.9	1	3.6	0.1
Sidechain-Sidechain	15	1.3	5	33.3	0.4	3	20.0	0.3
Long range (|i-j|≥5)	320	27.4	94	29.4	8.0	48	15.0	4.1
Backbone-Backbone	62	5.3	4	6.5	0.3	0	0.0	0.0
Backbone-Sidechain	140	12.0	40	28.6	3.4	24	17.1	2.1
Sidechain-Sidechain	118	10.1	50	42.4	4.3	24	20.3	2.1
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	1168	100.0	241	20.6	20.6	95	8.1	8.1
Backbone-Backbone	218	18.7	9	4.1	0.8	0	0.0	0.0
Backbone-Sidechain	636	54.5	148	23.3	12.7	58	9.1	5.0
Sidechain-Sidechain	314	26.9	84	26.8	7.2	37	11.8	3.2

[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	38	30	9	72	0	149	0.87	4.06	0.76	0.65
2	43	34	7	72	0	156	0.86	3.98	0.77	0.6
3	39	33	7	71	0	150	0.86	4.03	0.75	0.65
4	47	34	11	65	0	157	0.86	4.04	0.77	0.59
5	47	29	7	71	0	154	0.84	4.04	0.75	0.64
6	43	29	6	74	0	152	0.87	4.14	0.75	0.68
7	39	38	7	67	0	151	0.89	3.88	0.76	0.7
8	43	35	8	68	0	154	0.91	4.09	0.78	0.68
9	44	35	9	70	0	158	0.9	3.74	0.77	0.7
10	46	33	6	67	0	152	0.9	3.93	0.76	0.68
11	44	29	7	68	0	148	0.92	4.1	0.81	0.66

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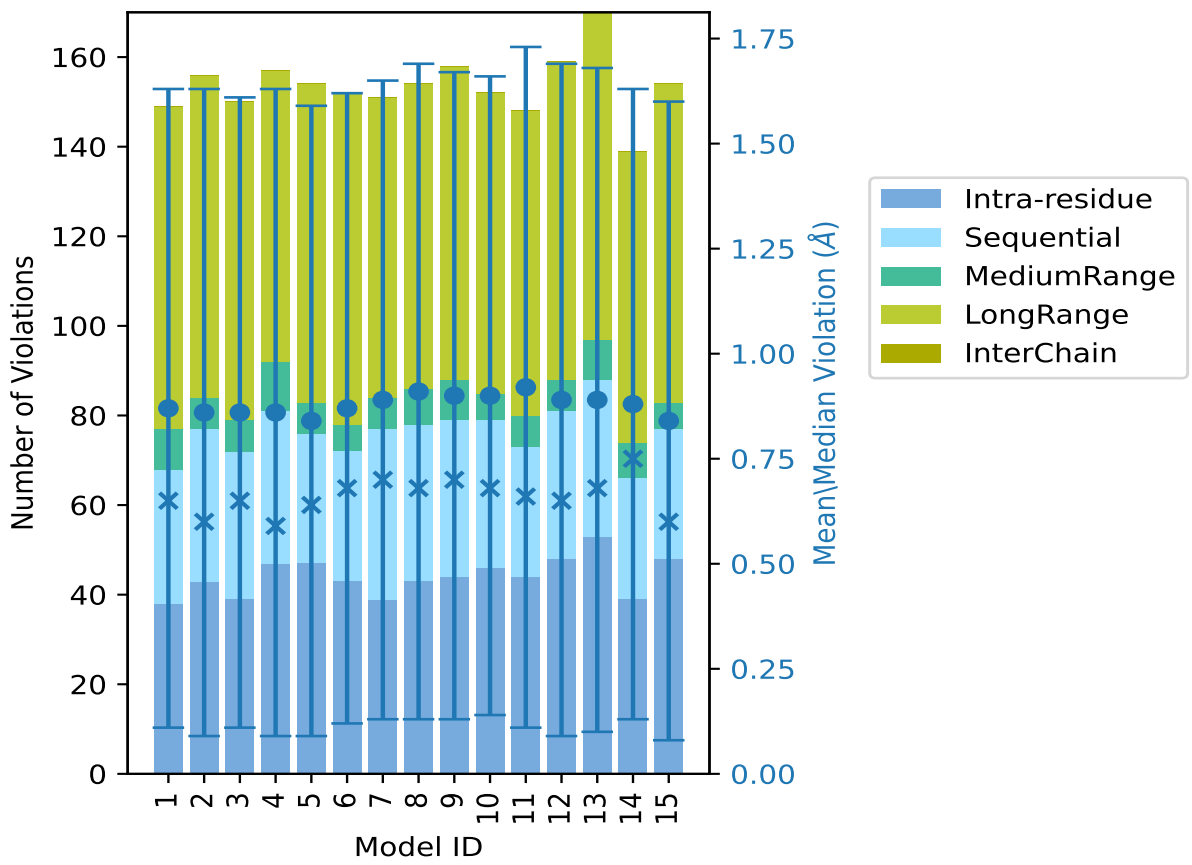
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	48	33	7	71	0	159	0.89	4.04	0.8	0.65
13	53	35	9	73	0	170	0.89	4.06	0.79	0.68
14	39	27	8	65	0	139	0.88	3.95	0.75	0.75
15	48	29	6	71	0	154	0.84	4.11	0.76	0.6

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6]Standard deviation

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



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

9.3 Distance violation statistics for the ensemble (i)

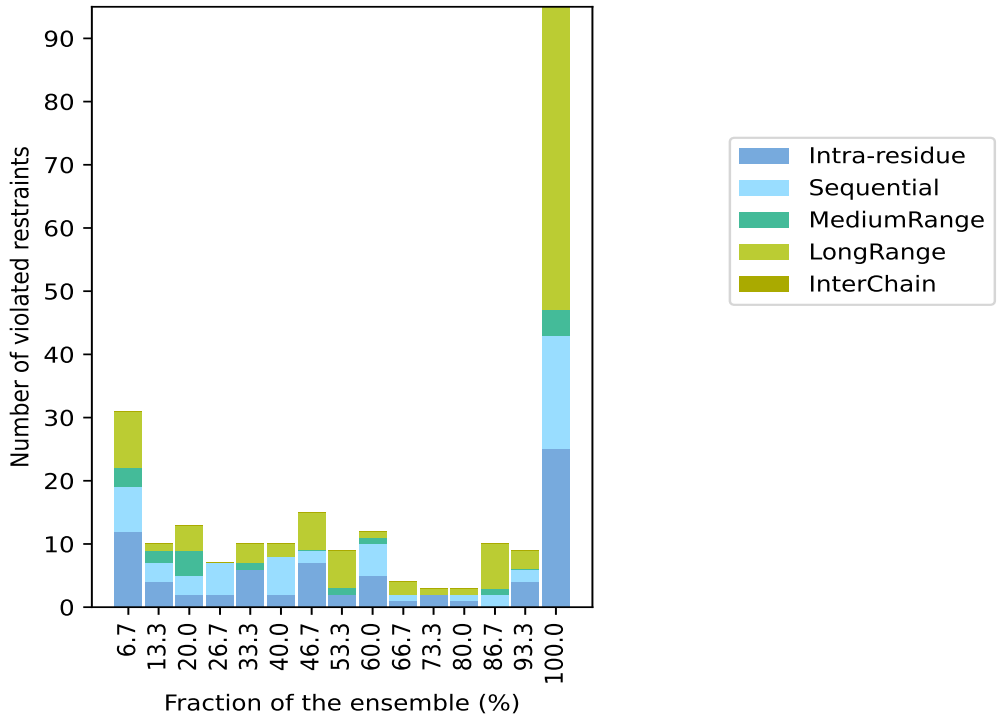
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints

for a given fraction of the ensemble. In total, 927(IR:438, SQ:225, MR:38, LR:226, 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]	%
12	7	3	9	0	31	1	6.7
4	3	2	1	0	10	2	13.3
2	3	4	4	0	13	3	20.0
2	5	0	0	0	7	4	26.7
6	0	1	3	0	10	5	33.3
2	6	0	2	0	10	6	40.0
7	2	0	6	0	15	7	46.7
2	0	1	6	0	9	8	53.3
5	5	1	1	0	12	9	60.0
1	1	0	2	0	4	10	66.7
2	0	0	1	0	3	11	73.3
1	1	0	1	0	3	12	80.0
0	2	1	7	0	10	13	86.7
4	2	0	3	0	9	14	93.3
25	18	4	48	0	95	15	100.0

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6] Number of models with violations

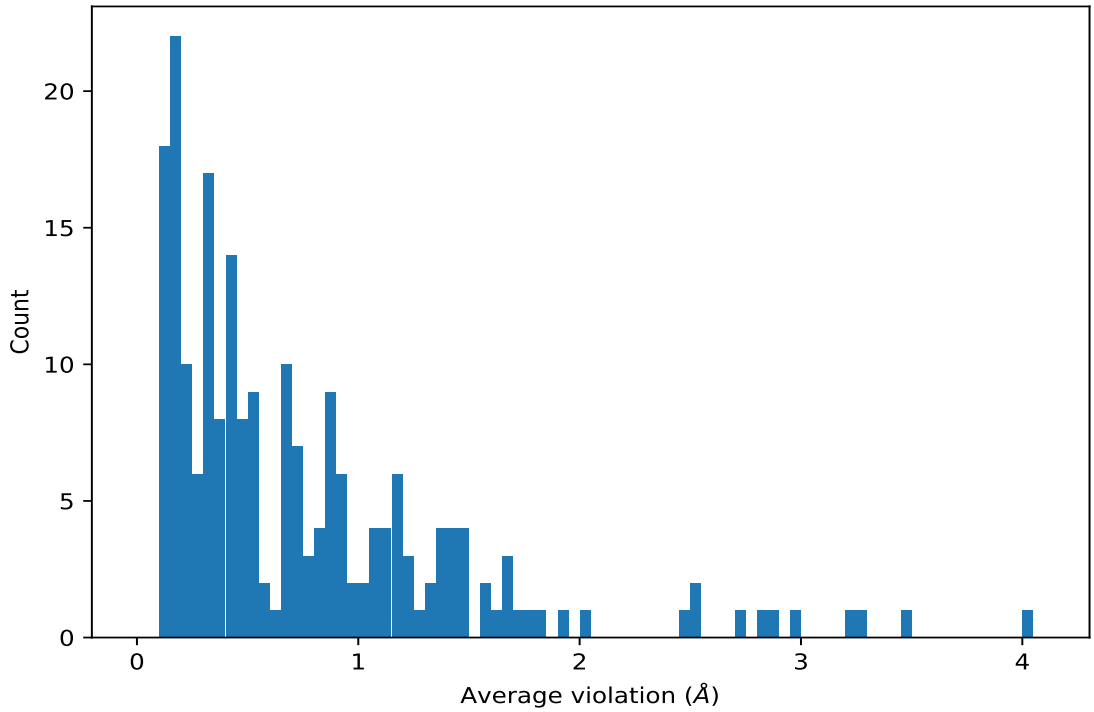
9.3.1 Bar graph : Distance violation statistics for the ensemble (i)



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)
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	15	4.01	0.1	4.04
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	15	3.47	0.12	3.48
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	15	3.21	0.18	3.19
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	15	2.97	0.14	3.0
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	15	2.88	0.06	2.9
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	15	2.82	0.13	2.8
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	15	2.73	0.1	2.76
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	15	2.53	0.22	2.49
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	15	2.52	0.19	2.49
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	15	2.45	0.14	2.47
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	15	1.92	0.12	1.96
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	15	1.81	0.54	1.49
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	15	1.76	0.05	1.77
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	15	1.69	0.72	1.25
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	15	1.67	0.35	1.78
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	15	1.67	0.09	1.71

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	15	1.64	0.04	1.65
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	15	1.59	0.08	1.59
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	15	1.55	0.1	1.58
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	15	1.47	0.07	1.49
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	15	1.47	0.05	1.47
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	15	1.46	0.06	1.47
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	15	1.45	0.07	1.46
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	15	1.44	0.07	1.44
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	15	1.42	0.1	1.48
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	15	1.41	0.18	1.4
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	15	1.4	0.04	1.41
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	15	1.39	0.09	1.39
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	15	1.38	0.07	1.4
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	15	1.33	0.41	1.54
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	15	1.24	0.01	1.24
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	15	1.23	0.03	1.24
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	15	1.2	0.51	1.52
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	15	1.18	0.08	1.17
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	15	1.18	0.18	1.26
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	15	1.18	0.41	1.1
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	15	1.15	0.2	1.18
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	15	1.14	0.08	1.15
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	15	1.09	0.02	1.09
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	15	1.06	0.11	1.05
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	15	1.01	0.13	1.0
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	15	1.0	0.14	1.06
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	15	0.98	0.02	0.98
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	15	0.93	0.07	0.95
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	15	0.92	0.23	0.97
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	15	0.92	0.07	0.94
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	15	0.92	0.16	0.92
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	15	0.91	0.11	0.91
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	15	0.9	0.11	0.87
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	15	0.89	0.11	0.88
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	15	0.88	0.28	0.93
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	15	0.87	0.07	0.86
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	15	0.87	0.14	0.87
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	15	0.85	0.14	0.88
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	15	0.85	0.37	0.81
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	15	0.83	0.04	0.86
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	15	0.81	0.05	0.81
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	15	0.81	0.14	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	15	0.74	0.14	0.73
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	15	0.73	0.06	0.72
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	15	0.71	0.03	0.71
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	15	0.7	0.14	0.64
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	15	0.69	0.11	0.68
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	15	0.68	0.11	0.66
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	15	0.68	0.09	0.65
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	15	0.66	0.05	0.67
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	15	0.66	0.04	0.66
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	15	0.65	0.06	0.67
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	15	0.65	0.13	0.66
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	15	0.65	0.08	0.61
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	15	0.52	0.03	0.53
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	15	0.52	0.0	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	15	0.52	0.01	0.52
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	15	0.5	0.02	0.51
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	15	0.5	0.0	0.5
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	15	0.49	0.14	0.57
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	15	0.47	0.08	0.48
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	15	0.46	0.01	0.47
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	15	0.44	0.22	0.49
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	15	0.42	0.06	0.4
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	15	0.41	0.03	0.42
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	15	0.4	0.0	0.4
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	15	0.37	0.07	0.38
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	15	0.35	0.06	0.35
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	15	0.34	0.04	0.34
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	15	0.32	0.04	0.33
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	15	0.31	0.11	0.29
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	15	0.3	0.07	0.31
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	15	0.27	0.01	0.27
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	15	0.25	0.03	0.26
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	15	0.23	0.0	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	15	0.23	0.03	0.23
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	15	0.2	0.01	0.2
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	15	0.16	0.01	0.16
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	15	0.15	0.0	0.15
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	14	1.09	0.51	1.04
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	14	0.72	0.31	0.72
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	14	0.39	0.62	0.14
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	14	0.33	0.05	0.35
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	14	0.33	0.16	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	14	0.29	0.13	0.3
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	14	0.21	0.03	0.21
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	14	0.19	0.01	0.19
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	14	0.15	0.02	0.16
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	13	1.38	0.57	1.38
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	13	1.13	0.65	1.05
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	13	0.89	0.51	1.13
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	13	0.47	0.33	0.34
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	13	0.43	0.15	0.4
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	13	0.41	0.08	0.43
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	13	0.39	0.17	0.35
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	13	0.32	0.06	0.32
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	13	0.3	0.09	0.34
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	13	0.16	0.04	0.15
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	12	1.18	0.65	1.5
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	12	0.17	0.02	0.18
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	12	0.11	0.0	0.11
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	11	0.57	0.33	0.75
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	11	0.52	0.01	0.52
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	11	0.18	0.04	0.19
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	10	0.34	0.15	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	10	0.34	0.0	0.34
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	10	0.3	0.07	0.3
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	10	0.18	0.04	0.16
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	9	3.25	0.18	3.27
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	9	2.02	0.14	2.02
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	9	1.73	0.26	1.73
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	9	1.14	0.08	1.13
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	9	0.74	0.03	0.75
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	9	0.43	0.02	0.43
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	9	0.39	0.1	0.43
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	9	0.39	0.11	0.44
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	9	0.34	0.06	0.33
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	9	0.29	0.11	0.36
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	9	0.24	0.07	0.24
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	9	0.22	0.24	0.14
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	8	0.82	0.54	1.1
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	8	0.69	0.36	0.56
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	8	0.36	0.15	0.36
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	8	0.33	0.51	0.14
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	8	0.3	0.17	0.28
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	8	0.19	0.07	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	8	0.17	0.04	0.16
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	8	0.15	0.03	0.15
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	8	0.13	0.02	0.12
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	7	1.35	0.09	1.37
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	7	1.11	0.4	1.05
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	7	0.98	0.03	0.98
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	7	0.77	0.22	0.79
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	7	0.74	0.17	0.79
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	7	0.46	0.0	0.46
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	7	0.41	0.03	0.42
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	7	0.4	0.01	0.4
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	7	0.31	0.08	0.34
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	7	0.31	0.03	0.31
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	7	0.21	0.01	0.21
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	7	0.18	0.05	0.19
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	7	0.17	0.03	0.17
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	7	0.13	0.02	0.14
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	7	0.13	0.01	0.13
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	6	1.31	0.19	1.4
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	6	0.85	0.42	1.01
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	6	0.75	0.31	0.9
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	6	0.48	0.14	0.5
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	6	0.41	0.1	0.39
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	6	0.41	0.1	0.39
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	6	0.41	0.1	0.39
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	6	0.41	0.01	0.42
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	6	0.29	0.13	0.28
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	6	0.16	0.03	0.16
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	6	0.15	0.03	0.15
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	6	0.12	0.01	0.12
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	5	1.29	0.2	1.33
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	5	0.61	0.2	0.74
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	5	0.52	0.22	0.58
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	5	0.51	0.03	0.51
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	5	0.29	0.1	0.27
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	5	0.24	0.06	0.21
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	5	0.23	0.01	0.23
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	5	0.16	0.02	0.16
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	5	0.15	0.04	0.12
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	5	0.13	0.02	0.12
(1,837)	1:A:5:ASP:H	1:A:4:GLN:HB3	4	1.06	0.55	1.36
(1,299)	1:A:10:GLN:HG2	1:A:11:ALA:HB2	4	0.56	0.15	0.51

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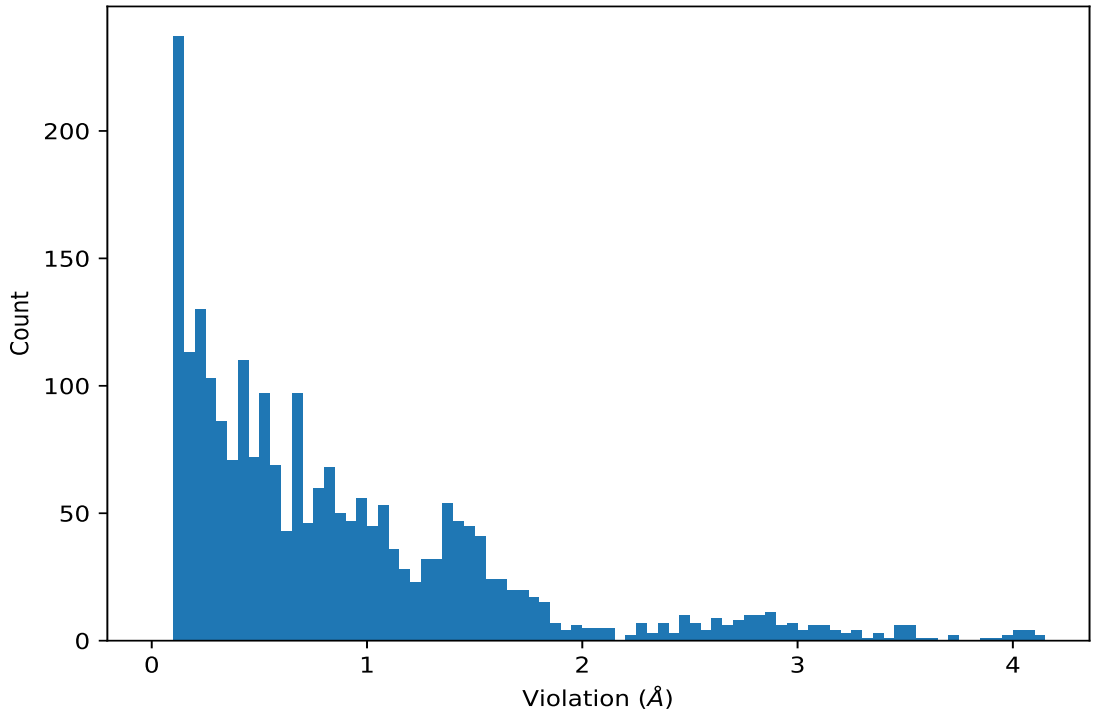
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1057)	1:A:48:ARG:H	1:A:48:ARG:HD3	4	0.54	0.04	0.56
(1,831)	1:A:4:GLN:H	1:A:4:GLN:HG2	4	0.42	0.13	0.46
(1,1062)	1:A:48:ARG:H	1:A:47:ARG:HB2	4	0.15	0.02	0.16
(1,899)	1:A:31:VAL:H	1:A:30:ILE:HG13	4	0.13	0.01	0.12
(1,1154)	1:A:64:TYR:H	1:A:63:LEU:HD12	4	0.12	0.0	0.12
(1,374)	1:A:16:ILE:HD12	1:A:14:SER:HB3	3	0.85	0.14	0.81
(1,250)	1:A:14:SER:HB3	1:A:15:TYR:H	3	0.67	0.06	0.67
(1,487)	1:A:30:ILE:HD12	1:A:10:GLN:HE21	3	0.49	0.19	0.48
(1,65)	1:A:34:MET:HG2	1:A:35:GLU:HB2	3	0.47	0.13	0.41
(1,587)	1:A:50:LYS:HE2	1:A:47:ARG:HA	3	0.37	0.37	0.11
(1,103)	1:A:42:PHE:HB3	1:A:33:VAL:HG22	3	0.19	0.07	0.18
(1,83)	1:A:38:ASP:HA	1:A:38:ASP:HB2	3	0.18	0.0	0.18
(1,576)	1:A:49:THR:HB	1:A:46:SER:HB2	3	0.14	0.04	0.11
(1,87)	1:A:39:ASP:HB3	1:A:39:ASP:H	3	0.13	0.01	0.13
(1,953)	1:A:26:ARG:H	1:A:15:TYR:H	3	0.13	0.03	0.11
(1,916)	1:A:40:GLY:H	1:A:42:PHE:HD1	3	0.12	0.01	0.12
(1,510)	1:A:45:THR:HB	1:A:46:SER:H	3	0.11	0.0	0.11
(1,244)	1:A:14:SER:HA	1:A:27:ASP:H	3	0.11	0.0	0.11
(1,332)	1:A:13:TYR:HB3	1:A:13:TYR:HD1	2	1.19	0.0	1.19
(1,225)	1:A:65:LEU:HB3	1:A:5:ASP:HA	2	0.77	0.2	0.77
(1,703)	1:A:7:PHE:H	1:A:7:PHE:HD2	2	0.32	0.14	0.32
(1,1015)	1:A:36:LYS:H	1:A:35:GLU:HG2	2	0.24	0.02	0.24
(1,63)	1:A:34:MET:HB2	1:A:34:MET:HE2	2	0.18	0.02	0.18
(1,676)	1:A:11:ALA:H	1:A:10:GLN:HB3	2	0.15	0.01	0.15
(1,1011)	1:A:36:LYS:H	1:A:33:VAL:HG22	2	0.14	0.01	0.14
(1,964)	1:A:27:ASP:H	1:A:26:ARG:HB2	2	0.12	0.01	0.12
(1,560)	1:A:47:ARG:HD3	1:A:47:ARG:HA	2	0.11	0.0	0.11
(1,1045)	1:A:46:SER:H	1:A:50:LYS:H	2	0.11	0.0	0.11

[1]Number of violated models, [2]Standard 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)
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	6	4.14
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	15	4.11
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	11	4.1
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	8	4.09
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	1	4.06
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	13	4.06
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	4	4.04
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	5	4.04
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	12	4.04
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	3	4.03
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	2	3.98
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	14	3.95
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	10	3.93
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	7	3.88
(1,882)	1:A:45:THR:H	1:A:52:PHE:HD2	9	3.74
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	12	3.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	8	3.6
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	6	3.57
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	11	3.55
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	12	3.55
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	11	3.54
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	13	3.53
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	5	3.52
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	10	3.52
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	1	3.48
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	7	3.48
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	14	3.47
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	2	3.45
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	12	3.45
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	13	3.45
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	1	3.42
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	11	3.39
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	13	3.38
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	9	3.35
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	9	3.33
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	3	3.3
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	15	3.29
(1,625)	1:A:57:GLY:HA3	1:A:9:TYR:HD1	4	3.27
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	10	3.27
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	8	3.24
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	9	3.21
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	9	3.2
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	6	3.19
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	10	3.19
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	4	3.18
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	5	3.17
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	8	3.15
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	3	3.13
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	14	3.13
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	9	3.13
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	14	3.1
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	10	3.1
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	7	3.08
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	2	3.07
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	15	3.07
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	7	3.07
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	1	3.06
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	4	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	3	3.03
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	13	3.03
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	7	3.01
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	11	3.0
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	10	2.99
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	15	2.98
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	6	2.98
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	9	2.97
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	8	2.97
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	11	2.96
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	13	2.95
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	5	2.94
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	4	2.94
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	1	2.93
(1,329)	1:A:12:LEU:HD12	1:A:13:TYR:HD1	2	2.93
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	3	2.92
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	2	2.91
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	6	2.9
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	9	2.9
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	12	2.9
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	15	2.9
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	12	2.88
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	5	2.87
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	2	2.86
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	12	2.86
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	10	2.85
(1,624)	1:A:57:GLY:HA3	1:A:9:TYR:HE1	4	2.85
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	11	2.85
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	4	2.84
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	7	2.84
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	5	2.84
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	13	2.84
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	2	2.83
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	1	2.82
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	2	2.81
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	13	2.81
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	4	2.81
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	15	2.81
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	6	2.8
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	8	2.8
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	14	2.79
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	8	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	1	2.78
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	7	2.77
(1,645)	1:A:60:VAL:HG22	1:A:9:TYR:HD1	8	2.76
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	6	2.76
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	7	2.76
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	11	2.75
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	13	2.74
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	3	2.74
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	1	2.73
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	3	2.72
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	11	2.71
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	15	2.7
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	11	2.7
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	5	2.7
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	3	2.69
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	15	2.69
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	2	2.69
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	11	2.68
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	5	2.68
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	2	2.67
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	10	2.65
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	12	2.65
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	14	2.65
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	4	2.63
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	3	2.62
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	1	2.61
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	15	2.61
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	13	2.6
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	7	2.6
(1,546)	1:A:45:THR:HG21	1:A:52:PHE:HD2	9	2.57
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	13	2.57
(1,113)	1:A:43:VAL:HG22	1:A:52:PHE:HD2	14	2.57
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	8	2.56
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	13	2.55
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	6	2.55
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	15	2.54
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	2	2.54
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	12	2.53
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	4	2.51
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	8	2.5
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	12	2.49
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	1	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	5	2.49
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	8	2.48
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	14	2.48
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	14	2.48
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	15	2.47
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	10	2.46
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	9	2.46
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	12	2.46
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	7	2.44
(1,118)	1:A:43:VAL:HG12	1:A:52:PHE:HD2	9	2.44
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	12	2.43
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	10	2.4
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	11	2.4
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	6	2.39
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	13	2.38
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	5	2.37
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	4	2.36
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	5	2.36
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	9	2.34
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	1	2.33
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	3	2.31
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	4	2.3
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	10	2.3
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	6	2.28
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	12	2.28
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	14	2.28
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	4	2.27
(1,515)	1:A:33:VAL:HB	1:A:9:TYR:HD1	7	2.26
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	6	2.21
(1,516)	1:A:33:VAL:HB	1:A:9:TYR:HE1	7	2.2
(1,470)	1:A:25:LEU:HD12	1:A:59:TYR:HE1	14	2.14
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	12	2.14
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	3	2.13
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	9	2.13
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	8	2.1
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	15	2.09
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	8	2.08
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	12	2.08
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	11	2.08
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	13	2.08
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	8	2.05
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	6	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	11	2.04
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	8	2.02
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	10	2.01
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	4	1.99
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	13	1.98
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	3	1.97
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	6	1.96
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	15	1.96
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	1	1.96
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	14	1.94
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	9	1.93
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	9	1.92
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	7	1.92
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	8	1.89
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	4	1.89
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	2	1.87
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	5	1.87
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	12	1.86
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	13	1.85
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	4	1.85
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	11	1.84
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	1	1.84
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	3	1.84
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	8	1.84
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	10	1.84
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	7	1.83
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	8	1.83
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	10	1.83
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	2	1.83
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	11	1.82
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	2	1.82
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	2	1.81
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	3	1.81
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	9	1.8
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	7	1.8
(1,321)	1:A:12:LEU:HB2	1:A:13:TYR:HD1	2	1.79
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	10	1.79
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	15	1.79
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	3	1.78
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	13	1.78
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	15	1.78
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	2	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	6	1.77
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	1	1.77
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	2	1.77
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	14	1.77
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	7	1.76
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	4	1.75
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	13	1.75
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	12	1.75
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	5	1.75
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	11	1.75
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	11	1.74
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	9	1.74
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	10	1.74
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	6	1.74
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	1	1.73
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	10	1.73
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	10	1.73
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	12	1.73
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	7	1.72
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	11	1.72
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	14	1.72
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	7	1.71
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	2	1.71
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	6	1.71
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	15	1.71
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	13	1.71
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	12	1.71
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	15	1.71
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	5	1.71
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	13	1.71
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	9	1.7
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	4	1.7
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	3	1.69
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	7	1.69
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	8	1.69
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	4	1.68
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	15	1.68
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	6	1.68
(1,1050)	1:A:46:SER:H	1:A:23:LEU:HD22	12	1.68
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	6	1.67
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	15	1.67
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	3	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	5	1.67
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	9	1.67
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	1	1.66
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	3	1.66
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	8	1.66
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	10	1.66
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	5	1.66
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	10	1.66
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	2	1.65
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	4	1.65
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	11	1.65
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	8	1.65
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	12	1.65
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	10	1.65
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	12	1.64
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	13	1.64
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	1	1.64
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	15	1.63
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	9	1.62
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	13	1.62
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	4	1.62
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	13	1.62
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	14	1.62
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	12	1.61
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	10	1.61
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	14	1.61
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	8	1.61
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	10	1.61
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	7	1.61
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	2	1.6
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	1	1.6
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	6	1.6
(1,586)	1:A:50:LYS:HE2	1:A:50:LYS:HA	13	1.59
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	1	1.59
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	2	1.59
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	7	1.59
(1,1035)	1:A:44:GLY:H	1:A:52:PHE:HD2	14	1.59
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	8	1.58
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	5	1.58
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	8	1.58
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	9	1.58
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	5	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	5	1.57
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	10	1.57
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	12	1.57
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	2	1.57
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	12	1.57
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	9	1.57
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	11	1.57
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	1	1.56
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	1	1.56
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	9	1.56
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	15	1.56
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	2	1.55
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	3	1.55
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	14	1.55
(1,590)	1:A:53:GLY:HA3	1:A:43:VAL:HG22	14	1.54
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	13	1.54
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	13	1.54
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	6	1.54
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	11	1.54
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	7	1.54
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	11	1.54
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	4	1.53
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	5	1.53
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	2	1.53
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	13	1.53
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	6	1.53
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	8	1.53
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	11	1.53
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	8	1.53
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	4	1.52
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	11	1.52
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	9	1.52
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	6	1.52
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	4	1.52
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	5	1.52
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	4	1.52
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	5	1.52
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	6	1.52
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	12	1.52
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	13	1.52
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	5	1.52
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	3	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	9	1.52
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	10	1.51
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	2	1.51
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	13	1.51
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	14	1.51
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	11	1.51
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	4	1.51
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	15	1.5
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	4	1.5
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	14	1.5
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	15	1.5
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	3	1.5
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	2	1.5
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	5	1.49
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	1	1.49
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	11	1.49
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	14	1.49
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	6	1.49
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	11	1.49
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	2	1.49
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	9	1.49
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	9	1.49
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	12	1.49
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	13	1.49
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	11	1.48
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	14	1.48
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	2	1.48
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	1	1.48
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	14	1.48
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	15	1.48
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	3	1.48
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	15	1.48
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	3	1.48
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	12	1.48
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	3	1.47
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	6	1.47
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	12	1.47
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	15	1.47
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	5	1.47
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	11	1.47
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	7	1.47
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	8	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	4	1.47
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	8	1.47
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	6	1.47
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	11	1.46
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	5	1.46
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	2	1.46
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	5	1.46
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	9	1.46
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	7	1.46
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	3	1.46
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	4	1.46
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	8	1.46
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	10	1.46
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	15	1.46
(1,133)	1:A:51:GLN:HB3	1:A:23:LEU:HD22	13	1.46
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	3	1.46
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	1	1.45
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	14	1.45
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	8	1.45
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	9	1.45
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	13	1.45
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	8	1.45
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	14	1.45
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	7	1.45
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	11	1.45
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	3	1.45
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	5	1.45
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	2	1.44
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	5	1.44
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	6	1.44
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	8	1.44
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	9	1.44
(1,466)	1:A:25:LEU:HD12	1:A:17:PRO:HG2	5	1.44
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	13	1.44
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	7	1.44
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	1	1.44
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	7	1.44
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	10	1.44
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	12	1.44
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	3	1.43
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	1	1.43
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	6	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	11	1.43
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	6	1.43
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	7	1.43
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	10	1.42
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	12	1.42
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	4	1.42
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	15	1.42
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	14	1.42
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	3	1.42
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	2	1.42
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	3	1.42
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	15	1.42
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	1	1.42
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	11	1.42
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	13	1.41
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	14	1.41
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	2	1.41
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	10	1.41
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	1	1.41
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	10	1.41
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	13	1.41
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	3	1.4
(1,837)	1:A:5:ASP:H	1:A:4:GLN:HB3	9	1.4
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	7	1.4
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	8	1.4
(1,483)	1:A:30:ILE:HD12	1:A:10:GLN:HG2	10	1.4
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	9	1.4
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	10	1.4
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	7	1.4
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	9	1.4
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	14	1.39
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	9	1.39
(1,837)	1:A:5:ASP:H	1:A:4:GLN:HB3	3	1.39
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	11	1.39
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	9	1.39
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	15	1.39
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	1	1.39
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	7	1.39
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	7	1.39
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	14	1.39
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	6	1.39
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	7	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	15	1.38
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	14	1.38
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	6	1.38
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	4	1.38
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	7	1.38
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	9	1.38
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	12	1.38
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	15	1.38
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	9	1.38
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	1	1.38
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	8	1.37
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	12	1.37
(1,547)	1:A:45:THR:HG21	1:A:51:GLN:H	10	1.37
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	6	1.37
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	7	1.37
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	13	1.37
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	15	1.37
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	11	1.37
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	15	1.36
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	2	1.36
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	10	1.36
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	3	1.36
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	4	1.35
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	4	1.35
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	3	1.35
(1,379)	1:A:17:PRO:HD2	1:A:16:ILE:HD12	9	1.35
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	13	1.35
(1,320)	1:A:12:LEU:HB3	1:A:13:TYR:HD1	2	1.35
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	1	1.35
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	1	1.35
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	8	1.35
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	7	1.35
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	5	1.35
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	8	1.34
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	13	1.34
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	5	1.34
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	8	1.34
(1,837)	1:A:5:ASP:H	1:A:4:GLN:HB3	10	1.33
(1,506)	1:A:31:VAL:HG22	1:A:45:THR:H	12	1.33
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	5	1.33
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	10	1.33
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	12	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	8	1.33
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	13	1.33
(1,176)	1:A:53:GLY:HA3	1:A:54:THR:HG21	14	1.33
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	5	1.33
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	11	1.33
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	5	1.33
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	13	1.32
(1,451)	1:A:23:LEU:HG	1:A:51:GLN:HB3	4	1.32
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	13	1.32
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	14	1.32
(1,1041)	1:A:44:GLY:H	1:A:33:VAL:HG22	2	1.32
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	8	1.31
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	13	1.31
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	6	1.31
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	10	1.31
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	13	1.31
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	7	1.3
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	9	1.3
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	12	1.3
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	1	1.3
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	2	1.3
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	12	1.3
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	13	1.3
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	12	1.29
(1,414)	1:A:46:SER:HA	1:A:23:LEU:HD22	5	1.29
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	12	1.28
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	10	1.28
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	11	1.28
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	1	1.28
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	7	1.28
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	11	1.28
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	8	1.27
(1,578)	1:A:46:SER:HB3	1:A:49:THR:HG21	3	1.27
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	12	1.27
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	4	1.27
(1,205)	1:A:60:VAL:HB	1:A:9:TYR:HD1	9	1.27
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	1	1.26
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	5	1.26
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	6	1.26
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	6	1.25
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	1	1.25
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	2	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	3	1.25
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	5	1.25
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	7	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	2	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	3	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	6	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	7	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	8	1.25
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	11	1.25
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	8	1.25
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	14	1.25
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	8	1.25
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	11	1.25
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	9	1.24
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	13	1.24
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	14	1.24
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	5	1.24
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	1	1.24
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	4	1.24
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	9	1.24
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	12	1.24
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	15	1.24
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	4	1.24
(1,998)	1:A:34:MET:H	1:A:33:VAL:HG22	9	1.23
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	4	1.23
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	10	1.23
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	13	1.23
(1,514)	1:A:33:VAL:HG22	1:A:33:VAL:HA	14	1.23
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	4	1.23
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	8	1.22
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	11	1.22
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	7	1.22
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	2	1.22
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	11	1.22
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	9	1.21
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	4	1.21
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	6	1.2
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	8	1.2
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	10	1.2
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	12	1.2
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	10	1.2
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	6	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	14	1.19
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	12	1.19
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	4	1.19
(1,525)	1:A:34:MET:HB2	1:A:33:VAL:HA	15	1.19
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	2	1.19
(1,332)	1:A:13:TYR:HB3	1:A:13:TYR:HD1	1	1.19
(1,332)	1:A:13:TYR:HB3	1:A:13:TYR:HD1	5	1.19
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	10	1.18
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	7	1.18
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	8	1.18
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	15	1.18
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	8	1.18
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	3	1.18
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	8	1.18
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	15	1.18
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	7	1.18
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	15	1.18
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	11	1.17
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	13	1.17
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	15	1.16
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	2	1.16
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	11	1.16
(1,945)	1:A:26:ARG:H	1:A:25:LEU:HD22	3	1.15
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	12	1.15
(1,520)	1:A:33:VAL:HG12	1:A:9:TYR:HD1	6	1.15
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	6	1.15
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	5	1.15
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	8	1.15
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	10	1.15
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	3	1.14
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	5	1.14
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	13	1.14
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	6	1.14
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	5	1.13
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	9	1.13
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	11	1.13
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	9	1.13
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	6	1.12
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	2	1.12
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	14	1.12
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	13	1.12
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	13	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	7	1.12
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	8	1.12
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	3	1.12
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	12	1.12
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	4	1.12
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	6	1.11
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	2	1.11
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	2	1.11
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	13	1.11
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	7	1.1
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	7	1.1
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	11	1.1
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	15	1.1
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	6	1.1
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	7	1.1
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	1	1.1
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	13	1.09
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	13	1.09
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	9	1.09
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	14	1.09
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	9	1.09
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	12	1.09
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	1	1.09
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	9	1.09
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	1	1.09
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	2	1.09
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	10	1.09
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	4	1.08
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	13	1.08
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	10	1.08
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	4	1.08
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	15	1.08
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	3	1.08
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	10	1.08
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	12	1.08
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	4	1.08
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	5	1.08
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	15	1.08
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	7	1.08
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	11	1.08
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	6	1.07
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	14	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	10	1.07
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	8	1.07
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	14	1.07
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	15	1.06
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	4	1.06
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	3	1.06
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	4	1.06
(1,380)	1:A:16:ILE:HD12	1:A:17:PRO:HD3	9	1.06
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	4	1.06
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	14	1.06
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	7	1.06
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	1	1.06
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	13	1.06
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	1	1.06
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	6	1.06
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	8	1.06
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	10	1.06
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	3	1.05
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	6	1.05
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	9	1.05
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	14	1.05
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	3	1.05
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	2	1.05
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	14	1.05
(1,115)	1:A:43:VAL:HG22	1:A:44:GLY:H	11	1.05
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	6	1.05
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	4	1.05
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	7	1.04
(1,724)	1:A:13:TYR:H	1:A:13:TYR:HD1	2	1.04
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	9	1.04
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	1	1.04
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	3	1.04
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	3	1.04
(1,374)	1:A:16:ILE:HD12	1:A:14:SER:HB3	9	1.04
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	4	1.04
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	1	1.04
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	9	1.03
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	14	1.03
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	7	1.03
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	10	1.03
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	15	1.03
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	2	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	4	1.02
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	3	1.02
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	13	1.02
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	4	1.02
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	4	1.02
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	12	1.02
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	14	1.02
(1,1025)	1:A:37:CYS:H	1:A:35:GLU:HG2	12	1.02
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	12	1.01
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	7	1.01
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	4	1.01
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	12	1.01
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	8	1.01
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	5	1.01
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	7	1.01
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	10	1.01
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	4	1.01
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	9	1.01
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	14	1.01
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	11	1.0
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	1	1.0
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	2	1.0
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	6	1.0
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	11	1.0
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	9	1.0
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	1	1.0
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	8	1.0
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	6	1.0
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	14	1.0
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	12	1.0
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	10	0.99
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	4	0.99
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	10	0.99
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	12	0.99
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	13	0.99
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	2	0.99
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	2	0.99
(1,384)	1:A:17:PRO:HA	1:A:18:GLN:HG2	12	0.99
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	13	0.99
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	4	0.98
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	13	0.98
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	5	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	9	0.98
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	6	0.98
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	3	0.98
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	6	0.98
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	9	0.98
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	1	0.98
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	7	0.98
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	10	0.98
(1,312)	1:A:12:LEU:HA	1:A:12:LEU:HD22	7	0.98
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	10	0.98
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	15	0.98
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	5	0.98
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	14	0.97
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	1	0.97
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	8	0.97
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	12	0.97
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	13	0.97
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	15	0.97
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	5	0.97
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	5	0.97
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	15	0.97
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	12	0.97
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	5	0.97
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	1	0.97
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	14	0.97
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	11	0.97
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	14	0.97
(1,225)	1:A:65:LEU:HB3	1:A:5:ASP:HA	10	0.97
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	3	0.97
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	9	0.97
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	6	0.97
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	13	0.97
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	10	0.97
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	6	0.96
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	4	0.96
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	12	0.96
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	11	0.96
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	11	0.96
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	9	0.96
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	12	0.96
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	8	0.96
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	12	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	13	0.96
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	2	0.96
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	5	0.95
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	2	0.95
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	6	0.95
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	10	0.95
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	15	0.95
(1,646)	1:A:60:VAL:HG22	1:A:61:LYS:H	14	0.95
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	7	0.95
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	1	0.95
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	10	0.95
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	13	0.94
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	14	0.94
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	2	0.94
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	9	0.94
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	11	0.94
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	2	0.94
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	10	0.94
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	8	0.94
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	11	0.94
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	15	0.93
(1,708)	1:A:8:SER:HB3	1:A:8:SER:H	14	0.93
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	6	0.93
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	7	0.93
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	13	0.93
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	8	0.93
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	14	0.93
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	15	0.92
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	3	0.92
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	5	0.92
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	9	0.92
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	13	0.92
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	14	0.92
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	4	0.92
(1,410)	1:A:19:ASN:HB3	1:A:22:GLU:H	1	0.92
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	14	0.92
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	10	0.92
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	9	0.92
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	1	0.91
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	11	0.91
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	3	0.91
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	8	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	3	0.91
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	14	0.91
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	12	0.9
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	13	0.9
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	2	0.9
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	7	0.9
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	14	0.9
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	2	0.89
(1,587)	1:A:50:LYS:HE2	1:A:47:ARG:HA	13	0.89
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	1	0.89
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	15	0.89
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	3	0.89
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	6	0.89
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	12	0.89
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	5	0.89
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	1	0.89
(1,937)	1:A:41:TRP:H	1:A:37:CYS:HB2	4	0.88
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	13	0.88
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	10	0.88
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	15	0.88
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	8	0.88
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	15	0.88
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	1	0.88
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	5	0.88
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	9	0.88
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	13	0.88
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	15	0.88
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	3	0.88
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	9	0.88
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	1	0.87
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	2	0.87
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	9	0.87
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	14	0.87
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	15	0.87
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	13	0.87
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	10	0.87
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	4	0.87
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	9	0.87
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	10	0.87
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	2	0.87
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	12	0.87
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	4	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	6	0.87
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	3	0.86
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	8	0.86
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	12	0.86
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	14	0.86
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	5	0.86
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	15	0.86
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	5	0.86
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	7	0.86
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	3	0.86
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	12	0.86
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	2	0.86
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	12	0.86
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	15	0.86
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	7	0.86
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	3	0.85
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	1	0.85
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	2	0.85
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	14	0.85
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	7	0.85
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	12	0.85
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	11	0.85
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	1	0.85
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	8	0.85
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	3	0.85
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	1	0.85
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	10	0.85
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	9	0.84
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	15	0.84
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	13	0.84
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	1	0.84
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	10	0.84
(1,489)	1:A:30:ILE:HD12	1:A:11:ALA:H	5	0.84
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	13	0.84
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	5	0.84
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	11	0.84
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	3	0.84
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	5	0.84
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	5	0.84
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	9	0.84
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	5	0.84
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	11	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	2	0.83
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	7	0.83
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	9	0.83
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	3	0.83
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	7	0.83
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	4	0.83
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	14	0.83
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	12	0.83
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	9	0.83
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	9	0.83
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	6	0.82
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	5	0.82
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	14	0.82
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	7	0.82
(1,299)	1:A:10:GLN:HG2	1:A:11:ALA:HB2	13	0.82
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	2	0.82
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	11	0.81
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	2	0.81
(1,374)	1:A:16:ILE:HD12	1:A:14:SER:HB3	1	0.81
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	15	0.81
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	4	0.81
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	6	0.81
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	14	0.81
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	13	0.81
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	9	0.81
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	10	0.81
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	3	0.81
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	15	0.81
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	11	0.81
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	6	0.8
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	3	0.8
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	14	0.8
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	12	0.8
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	15	0.8
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	13	0.8
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	8	0.8
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	3	0.8
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	10	0.8
(1,555)	1:A:46:SER:HB2	1:A:49:THR:HG21	11	0.8
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	3	0.8
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	1	0.8
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	7	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	7	0.79
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	3	0.79
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	7	0.79
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	7	0.79
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	8	0.79
(1,373)	1:A:16:ILE:HD12	1:A:24:GLU:HG3	11	0.79
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	3	0.79
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	3	0.79
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	13	0.79
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	15	0.79
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	3	0.79
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	8	0.78
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	10	0.78
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	10	0.78
(1,694)	1:A:16:ILE:H	1:A:16:ILE:HD12	7	0.78
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	5	0.78
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	14	0.78
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	4	0.78
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	3	0.78
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	2	0.78
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	12	0.78
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	8	0.78
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	9	0.78
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	8	0.78
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	3	0.78
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	11	0.77
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	13	0.77
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	4	0.76
(1,913)	1:A:42:PHE:H	1:A:42:PHE:HB3	5	0.76
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	11	0.76
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	6	0.76
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	1	0.76
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	6	0.76
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	14	0.76
(1,292)	1:A:10:GLN:HA	1:A:30:ILE:HD12	5	0.76
(1,248)	1:A:46:SER:HB3	1:A:23:LEU:HD22	5	0.76
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	2	0.76
(1,166)	1:A:51:GLN:HB2	1:A:49:THR:HG1	4	0.76
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	2	0.76
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	12	0.76
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	14	0.76
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	13	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	6	0.75
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	8	0.75
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	1	0.75
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	5	0.75
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	1	0.75
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	7	0.75
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	9	0.75
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	13	0.75
(1,250)	1:A:14:SER:HB3	1:A:15:TYR:H	1	0.75
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	12	0.75
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	11	0.75
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	6	0.75
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	1	0.75
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	10	0.75
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	13	0.75
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	14	0.75
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	13	0.75
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	6	0.74
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	6	0.74
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	11	0.74
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	9	0.74
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	14	0.74
(1,119)	1:A:44:GLY:HA3	1:A:33:VAL:HG22	12	0.74
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	5	0.74
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	7	0.74
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	4	0.74
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	10	0.74
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	10	0.73
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	12	0.73
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	8	0.73
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	13	0.73
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	5	0.73
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	13	0.73
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	4	0.73
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	7	0.73
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	12	0.73
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	10	0.72
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	12	0.72
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	10	0.72
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	11	0.72
(1,487)	1:A:30:ILE:HD12	1:A:10:GLN:HE21	5	0.72
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	8	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	15	0.72
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	5	0.72
(1,303)	1:A:11:ALA:HB2	1:A:28:GLY:HA3	8	0.72
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	1	0.72
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	4	0.72
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	9	0.72
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	7	0.72
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	7	0.72
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	13	0.72
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	5	0.72
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	8	0.72
(1,923)	1:A:52:PHE:H	1:A:45:THR:HG21	15	0.71
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	9	0.71
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	8	0.71
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	15	0.71
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	6	0.71
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	7	0.71
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	15	0.71
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	8	0.71
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	10	0.71
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	4	0.71
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	2	0.7
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	3	0.7
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	11	0.7
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	12	0.7
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	13	0.7
(1,662)	1:A:64:TYR:HB2	1:A:64:TYR:HD1	9	0.7
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	12	0.7
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	4	0.7
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	15	0.7
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	15	0.7
(1,374)	1:A:16:ILE:HD12	1:A:14:SER:HB3	8	0.7
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	9	0.7
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	10	0.7
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	3	0.7
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	6	0.7
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	7	0.7
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	6	0.7
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	4	0.7
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	7	0.7
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	6	0.69
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	6	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	8	0.69
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	9	0.69
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	8	0.69
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	1	0.69
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	15	0.69
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	15	0.69
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	6	0.69
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	5	0.68
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	7	0.68
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	6	0.68
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	6	0.68
(1,1121)	1:A:59:TYR:H	1:A:59:TYR:HE1	5	0.68
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	6	0.68
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	8	0.68
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	11	0.68
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	11	0.68
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	14	0.68
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	14	0.68
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	14	0.67
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	4	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	1	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	3	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	4	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	5	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	7	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	8	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	9	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	10	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	12	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	13	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	14	0.67
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	15	0.67
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	7	0.67
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	6	0.67
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	10	0.67
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	6	0.67
(1,250)	1:A:14:SER:HB3	1:A:15:TYR:H	9	0.67
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	6	0.67
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	15	0.67
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	11	0.67
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	13	0.67
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	2	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	15	0.67
(1,1058)	1:A:48:ARG:H	1:A:49:THR:HG21	4	0.67
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	12	0.67
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	11	0.66
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	1	0.66
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	8	0.66
(1,70)	1:A:35:GLU:HB2	1:A:34:MET:HE2	10	0.66
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	2	0.66
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	11	0.66
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	1	0.66
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	11	0.66
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	14	0.66
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	4	0.66
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	5	0.66
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	13	0.66
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	9	0.66
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	8	0.66
(1,1120)	1:A:59:TYR:H	1:A:59:TYR:HD1	5	0.66
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	3	0.66
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	1	0.66
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	15	0.66
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	10	0.65
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	1	0.65
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	13	0.65
(1,65)	1:A:34:MET:HG2	1:A:35:GLU:HB2	13	0.65
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	6	0.65
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	11	0.65
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	1	0.65
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	12	0.65
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	13	0.65
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	2	0.65
(1,1133)	1:A:60:VAL:H	1:A:60:VAL:HG22	14	0.65
(1,1114)	1:A:55:PHE:H	1:A:54:THR:HG21	8	0.65
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	2	0.65
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	15	0.64
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	8	0.64
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	3	0.64
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	7	0.64
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	9	0.64
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	10	0.64
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	12	0.64
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	8	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	12	0.64
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	3	0.64
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	10	0.64
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	12	0.64
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	11	0.64
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	8	0.63
(1,788)	1:A:25:LEU:H	1:A:15:TYR:HD1	12	0.63
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	9	0.63
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	6	0.63
(1,526)	1:A:34:MET:HG2	1:A:44:GLY:HA3	13	0.63
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	2	0.63
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	14	0.63
(1,1032)	1:A:43:VAL:H	1:A:33:VAL:HG22	2	0.63
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	7	0.62
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	1	0.62
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	12	0.62
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	10	0.62
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	8	0.62
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	9	0.62
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	10	0.62
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	11	0.62
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	8	0.62
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	9	0.62
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	2	0.62
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	5	0.62
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	7	0.62
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	9	0.61
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	1	0.61
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	2	0.61
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	8	0.61
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	1	0.61
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	2	0.61
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	4	0.61
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	9	0.61
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	3	0.61
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	8	0.6
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	10	0.6
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	15	0.6
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	3	0.6
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	15	0.6
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	11	0.6
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:A:14:SER:HB3	1:A:15:TYR:H	8	0.6
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	1	0.6
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	2	0.6
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	1	0.6
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	3	0.6
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	4	0.59
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	4	0.59
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	4	0.59
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	1	0.59
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	4	0.59
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	2	0.59
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	5	0.59
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	11	0.59
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	15	0.59
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	1	0.59
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	7	0.58
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	8	0.58
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	12	0.58
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	1	0.58
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	1	0.58
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	9	0.58
(1,810)	1:A:43:VAL:H	1:A:42:PHE:HB2	5	0.57
(1,760)	1:A:20:ASP:H	1:A:19:ASN:HB3	1	0.57
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	3	0.57
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	10	0.57
(1,638)	1:A:60:VAL:HA	1:A:9:TYR:HD1	9	0.57
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	4	0.57
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	15	0.57
(1,225)	1:A:65:LEU:HB3	1:A:5:ASP:HA	7	0.57
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	11	0.57
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	12	0.57
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	6	0.57
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	13	0.57
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	15	0.56
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	15	0.56
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	4	0.56
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	5	0.56
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	9	0.56
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	3	0.56
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	2	0.56
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	2	0.56
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	2	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	6	0.56
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	3	0.56
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	2	0.56
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	9	0.56
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	3	0.56
(1,1057)	1:A:48:ARG:H	1:A:48:ARG:HD3	7	0.56
(1,1057)	1:A:48:ARG:H	1:A:48:ARG:HD3	11	0.56
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	8	0.55
(1,831)	1:A:4:GLN:H	1:A:4:GLN:HG2	5	0.55
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	8	0.55
(1,544)	1:A:44:GLY:HA3	1:A:32:ASP:HB2	11	0.55
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	1	0.55
(1,488)	1:A:30:ILE:HD12	1:A:31:VAL:H	5	0.55
(1,299)	1:A:10:GLN:HG2	1:A:11:ALA:HB2	4	0.55
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	7	0.55
(1,172)	1:A:52:PHE:HB3	1:A:45:THR:HG21	15	0.55
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	10	0.55
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	11	0.55
(1,1147)	1:A:64:TYR:H	1:A:64:TYR:HD1	12	0.55
(1,1057)	1:A:48:ARG:H	1:A:48:ARG:HD3	13	0.55
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	15	0.54
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	1	0.54
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	3	0.54
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	7	0.54
(1,595)	1:A:22:GLU:HG3	1:A:54:THR:HG21	9	0.54
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	10	0.54
(1,425)	1:A:33:VAL:HG22	1:A:42:PHE:HB2	4	0.54
(1,110)	1:A:43:VAL:HG22	1:A:34:MET:HG2	2	0.54
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	5	0.54
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	3	0.53
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	1	0.53
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	8	0.53
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	12	0.53
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	6	0.53
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	2	0.53
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	6	0.53
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	15	0.53
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	10	0.53
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	7	0.53
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	5	0.53
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	2	0.53
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	15	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	11	0.52
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	12	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	3	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	4	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	5	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	13	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	14	0.52
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	15	0.52
(1,565)	1:A:50:LYS:HD2	1:A:50:LYS:HE2	13	0.52
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	14	0.52
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	14	0.52
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	14	0.52
(1,469)	1:A:25:LEU:HD12	1:A:15:TYR:HD1	11	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	1	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	2	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	3	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	4	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	5	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	6	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	7	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	8	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	9	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	10	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	11	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	12	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	13	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	14	0.52
(1,372)	1:A:16:ILE:HD12	1:A:16:ILE:HB	15	0.52
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	14	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	1	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	3	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	6	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	7	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	11	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	12	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	13	0.52
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	15	0.52
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	10	0.52
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	1	0.51
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	3	0.51
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	6	0.51
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	3	0.51
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	7	0.51
(1,84)	1:A:39:ASP:HA	1:A:39:ASP:HB3	11	0.51
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	6	0.51
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	11	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	2	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	4	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	8	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	9	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	10	0.51
(1,206)	1:A:60:VAL:HA	1:A:60:VAL:HG22	14	0.51
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	12	0.51
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	1	0.51
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	1	0.51
(1,1096)	1:A:51:GLN:H	1:A:23:LEU:HD22	5	0.51
(1,1000)	1:A:35:GLU:H	1:A:33:VAL:HG22	2	0.51
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	4	0.5
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	10	0.5
(1,831)	1:A:4:GLN:H	1:A:4:GLN:HG2	7	0.5
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	1	0.5
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	8	0.5
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	12	0.5
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	13	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	1	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	2	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	5	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	7	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	8	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	12	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	14	0.5
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	15	0.5
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	11	0.5
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	5	0.5
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	7	0.49
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	11	0.49
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	14	0.49
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	13	0.49
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	14	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	3	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	4	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	6	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	10	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	11	0.49
(1,492)	1:A:30:ILE:HD12	1:A:30:ILE:HG13	13	0.49
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	3	0.49
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	6	0.49
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	2	0.49
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	8	0.49
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	13	0.48
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	14	0.48
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	9	0.48
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	7	0.48
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	1	0.48
(1,487)	1:A:30:ILE:HD12	1:A:10:GLN:HE21	3	0.48
(1,272)	1:A:8:SER:HB3	1:A:63:LEU:HB3	10	0.48
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	4	0.48
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	14	0.48
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	2	0.47
(1,997)	1:A:34:MET:H	1:A:34:MET:HB2	5	0.47
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	12	0.47
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	12	0.47
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	6	0.47
(1,299)	1:A:10:GLN:HG2	1:A:11:ALA:HB2	1	0.47
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	8	0.47
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	11	0.47
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	15	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	4	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	6	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	7	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	10	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	11	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	13	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	14	0.47
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	15	0.47
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	10	0.47
(1,1057)	1:A:48:ARG:H	1:A:48:ARG:HD3	10	0.47
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	8	0.46
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	2	0.46
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	6	0.46
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	2	0.46
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	3	0.46
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	4	0.46
(1,26)	1:A:25:LEU:HB2	1:A:25:LEU:HD22	12	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	7	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	1	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	3	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	5	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	8	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	9	0.46
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	12	0.46
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	12	0.45
(1,703)	1:A:7:PHE:H	1:A:7:PHE:HD2	10	0.45
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	5	0.45
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	11	0.45
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	13	0.45
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	6	0.45
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	13	0.45
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	5	0.45
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	4	0.45
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	12	0.45
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	6	0.45
(1,183)	1:A:54:THR:HA	1:A:54:THR:HG21	2	0.45
(1,153)	1:A:49:THR:HG21	1:A:49:THR:HG1	13	0.45
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	8	0.45
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	7	0.44
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	5	0.44
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	4	0.44
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	6	0.44
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	7	0.44
(1,657)	1:A:62:PRO:HG3	1:A:62:PRO:HD2	6	0.44
(1,647)	1:A:60:VAL:HG22	1:A:10:GLN:H	11	0.44
(1,519)	1:A:33:VAL:HG12	1:A:9:TYR:HE1	9	0.44
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	8	0.44
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	9	0.44
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	4	0.44
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	6	0.44
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	7	0.44
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	1	0.43
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	5	0.43
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	2	0.43
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	13	0.43
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	10	0.43
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	8	0.43
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	8	0.43
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	9	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	10	0.43
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	12	0.43
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	15	0.43
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	11	0.43
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	13	0.43
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	7	0.42
(1,831)	1:A:4:GLN:H	1:A:4:GLN:HG2	13	0.42
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	4	0.42
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	14	0.42
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	10	0.42
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	3	0.42
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	6	0.42
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	2	0.42
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	13	0.42
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	11	0.42
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	15	0.42
(1,299)	1:A:10:GLN:HG2	1:A:11:ALA:HB2	15	0.42
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	2	0.42
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	5	0.42
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	13	0.42
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	15	0.42
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	1	0.42
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	5	0.42
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	11	0.42
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	14	0.42
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	15	0.42
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	12	0.41
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	15	0.41
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	2	0.41
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	5	0.41
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	8	0.41
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	13	0.41
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	15	0.41
(1,65)	1:A:34:MET:HG2	1:A:35:GLU:HB2	7	0.41
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	1	0.41
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	2	0.41
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	11	0.41
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	10	0.41
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	5	0.41
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	12	0.41
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	4	0.41
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	2	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	15	0.41
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	9	0.41
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	2	0.41
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	10	0.4
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	8	0.4
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	6	0.4
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	5	0.4
(1,664)	1:A:64:TYR:HB2	1:A:64:TYR:HE1	9	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	1	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	2	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	3	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	4	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	5	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	6	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	7	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	8	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	9	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	10	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	11	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	12	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	13	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	14	0.4
(1,659)	1:A:63:LEU:HB2	1:A:63:LEU:HA	15	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	1	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	3	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	4	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	7	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	9	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	10	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	11	0.4
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	12	0.4
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	8	0.4
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	4	0.4
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	14	0.4
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	15	0.4
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	13	0.4
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	9	0.4
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	9	0.4
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	9	0.4
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	15	0.4
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	13	0.4
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	2	0.4
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	3	0.4
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	9	0.4
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	10	0.4
(1,129)	1:A:45:THR:HB	1:A:32:ASP:HB2	7	0.4
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	6	0.39
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	3	0.39
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	2	0.39
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	3	0.39
(1,656)	1:A:62:PRO:HG2	1:A:62:PRO:HD3	14	0.39
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	5	0.39
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	14	0.39
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	15	0.39
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	3	0.39
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	4	0.39
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	7	0.39
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	9	0.39
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	6	0.39
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	3	0.39
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	5	0.39
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	7	0.39
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	11	0.39
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	13	0.39
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	2	0.39
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	12	0.39
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	3	0.39
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	6	0.39
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	12	0.39
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	15	0.39
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	10	0.38
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	4	0.38
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	5	0.38
(1,61)	1:A:34:MET:HB2	1:A:34:MET:HG2	13	0.38
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	8	0.38
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	1	0.38
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	10	0.38
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	10	0.38
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	10	0.38
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	4	0.38
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	7	0.38
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	8	0.38
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	13	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,355)	1:A:52:PHE:HA	1:A:23:LEU:HD22	14	0.38
(1,228)	1:A:65:LEU:HB2	1:A:65:LEU:HA	8	0.38
(1,154)	1:A:49:THR:HG21	1:A:48:ARG:HB2	4	0.38
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	6	0.37
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	6	0.37
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	11	0.37
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	2	0.37
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	7	0.37
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	6	0.37
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	2	0.37
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	13	0.37
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	5	0.37
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	13	0.37
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	13	0.37
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	13	0.37
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	13	0.37
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	14	0.37
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	8	0.37
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	15	0.37
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	5	0.37
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	10	0.36
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	12	0.36
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	7	0.36
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	9	0.36
(1,661)	1:A:8:SER:HB3	1:A:63:LEU:HD12	11	0.36
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	2	0.36
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	6	0.36
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	15	0.36
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	1	0.36
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	12	0.36
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	1	0.36
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	5	0.36
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	14	0.36
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	8	0.36
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	11	0.35
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	1	0.35
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	12	0.35
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	3	0.35
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	12	0.35
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	8	0.35
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	10	0.35
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	10	0.35
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	14	0.35
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	6	0.35
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	14	0.35
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	11	0.35
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	6	0.35
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	4	0.35
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	11	0.35
(1,471)	1:A:25:LEU:HA	1:A:25:LEU:HD22	2	0.35
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	8	0.35
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	15	0.35
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	2	0.35
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	5	0.35
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	9	0.35
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	15	0.35
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	7	0.35
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	9	0.35
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	6	0.34
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	11	0.34
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	14	0.34
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	10	0.34
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	15	0.34
(1,65)	1:A:34:MET:HG2	1:A:35:GLU:HB2	9	0.34
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	14	0.34
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	11	0.34
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	1	0.34
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	3	0.34
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	6	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	1	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	3	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	6	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	8	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	12	0.34
(1,147)	1:A:48:ARG:HG3	1:A:48:ARG:HD3	14	0.34
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	9	0.34
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	2	0.34
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	7	0.34
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	4	0.33
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	1	0.33
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	8	0.33
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	13	0.33
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	5	0.33
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	4	0.33
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	5	0.33
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	13	0.33
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	4	0.33
(1,300)	1:A:10:GLN:HG2	1:A:61:LYS:HG3	14	0.33
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	2	0.33
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	3	0.33
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	4	0.33
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	12	0.32
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	2	0.32
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	3	0.32
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	5	0.32
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	10	0.32
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	4	0.32
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	10	0.32
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	8	0.32
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	9	0.32
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	2	0.32
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	11	0.32
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	7	0.32
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	5	0.32
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	10	0.32
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	14	0.32
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	1	0.31
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	10	0.31
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	12	0.31
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	7	0.31
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	7	0.31
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	1	0.31
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	6	0.31
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	9	0.31
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	1	0.31
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	13	0.31
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	10	0.31
(1,149)	1:A:49:THR:HA	1:A:49:THR:HG21	4	0.31
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	15	0.3
(1,834)	1:A:5:ASP:HB2	1:A:5:ASP:H	13	0.3
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	4	0.3
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	9	0.3
(1,777)	1:A:23:LEU:H	1:A:54:THR:HG21	9	0.3
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	11	0.3
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	6	0.3
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	11	0.3
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	4	0.3
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	5	0.3
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	2	0.3
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	8	0.3
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	15	0.3
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	2	0.3
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	12	0.3
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	9	0.3
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	9	0.3
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	13	0.3
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	15	0.3
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	5	0.3
(1,117)	1:A:43:VAL:HG12	1:A:34:MET:HB2	13	0.3
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	1	0.3
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	4	0.3
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	11	0.3
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	2	0.29
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	10	0.29
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	1	0.29
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	3	0.29
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	10	0.29
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	6	0.29
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	13	0.29
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	6	0.29
(1,150)	1:A:49:THR:HA	1:A:48:ARG:HG3	12	0.29
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	7	0.29
(1,103)	1:A:42:PHE:HB3	1:A:33:VAL:HG22	2	0.29
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	5	0.28
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	5	0.28
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	14	0.28
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	13	0.28
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	9	0.28
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	12	0.28
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	14	0.28
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	11	0.28
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	14	0.28
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	3	0.28
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	1	0.28
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	3	0.28
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	14	0.28
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	6	0.27
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	9	0.27
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	15	0.27
(1,545)	1:A:44:GLY:HA3	1:A:34:MET:HB2	10	0.27
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	12	0.27
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	13	0.27
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	12	0.27
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	7	0.27
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	1	0.27
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	5	0.27
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	10	0.27
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	8	0.27
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	12	0.27
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	3	0.27
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	5	0.27
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	9	0.27
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	12	0.27
(1,1048)	1:A:46:SER:H	1:A:45:THR:HG21	13	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	4	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	5	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	6	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	7	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	8	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	9	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	10	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	11	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	12	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	13	0.27
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	15	0.27
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	13	0.26
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	12	0.26
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	3	0.26
(1,487)	1:A:30:ILE:HD12	1:A:10:GLN:HE21	7	0.26
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	3	0.26
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	4	0.26
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	12	0.26
(1,255)	1:A:6:LEU:HD22	1:A:6:LEU:HA	15	0.26
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	1	0.26
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	4	0.26
(1,1015)	1:A:36:LYS:H	1:A:35:GLU:HG2	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	1	0.26
(1,1)	1:A:22:GLU:HA	1:A:22:GLU:HB2	2	0.26
(1,922)	1:A:52:PHE:H	1:A:23:LEU:HD22	4	0.25
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	8	0.25
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	3	0.25
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	6	0.25
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	10	0.25
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	3	0.25
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	3	0.25
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	8	0.25
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	6	0.25
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	13	0.25
(1,1002)	1:A:35:GLU:H	1:A:35:GLU:HB2	13	0.25
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	6	0.24
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	12	0.24
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	12	0.24
(1,750)	1:A:19:ASN:H	1:A:18:GLN:HG2	12	0.24
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	14	0.24
(1,549)	1:A:45:THR:HG21	1:A:45:THR:HG1	5	0.24
(1,534)	1:A:36:LYS:HD2	1:A:42:PHE:HD1	13	0.24
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	6	0.24
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	9	0.24
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	10	0.24
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG21	5	0.24
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG22	5	0.24
(1,509)	1:A:32:ASP:HB2	1:A:45:THR:HG23	5	0.24
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	2	0.24
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	12	0.24
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	10	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	3	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	4	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	9	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	10	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	11	0.24
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	13	0.24
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	6	0.24
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	7	0.24
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	2	0.23
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	7	0.23
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	13	0.23
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	3	0.23
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	4	0.23
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	5	0.23
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	5	0.23
(1,667)	1:A:10:GLN:HB2	1:A:61:LYS:HG3	13	0.23
(1,626)	1:A:57:GLY:HA3	1:A:60:VAL:HG22	2	0.23
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	13	0.23
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	2	0.23
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	11	0.23
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	4	0.23
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	13	0.23
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	15	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	1	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	4	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	6	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	8	0.23
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	15	0.23
(1,274)	1:A:8:SER:HB2	1:A:63:LEU:HB3	3	0.23
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	1	0.23
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	7	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	1	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	2	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	5	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	6	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	7	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	8	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	12	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	14	0.23
(1,161)	1:A:51:GLN:HG3	1:A:51:GLN:HB3	15	0.23
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	2	0.23
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	10	0.23
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	11	0.23
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	14	0.23
(1,1015)	1:A:36:LYS:H	1:A:35:GLU:HG2	4	0.23
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	1	0.22
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	2	0.22
(1,873)	1:A:18:GLN:H	1:A:15:TYR:HE1	8	0.22
(1,831)	1:A:4:GLN:H	1:A:4:GLN:HG2	14	0.22
(1,802)	1:A:32:ASP:H	1:A:31:VAL:HG22	7	0.22
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	3	0.22
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	12	0.22
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	9	0.22
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	11	0.22
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	7	0.22
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	12	0.22
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	9	0.22
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	2	0.22
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	7	0.22
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	11	0.22
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	12	0.22
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	5	0.22
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	9	0.22
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	11	0.22
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	5	0.22
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	4	0.22
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	1	0.21
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	4	0.21
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	1	0.21
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	12	0.21
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	15	0.21
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	7	0.21
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	11	0.21
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	2	0.21
(1,511)	1:A:33:VAL:HA	1:A:44:GLY:HA3	5	0.21
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	3	0.21
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	6	0.21
(1,45)	1:A:21:ASP:HB2	1:A:21:ASP:HA	8	0.21
(1,426)	1:A:46:SER:HA	1:A:31:VAL:HG22	14	0.21
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	3	0.21
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	13	0.21
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	4	0.21
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	3	0.21
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	6	0.21
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	8	0.21
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	15	0.21
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	15	0.21
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	8	0.21
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	8	0.21
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	8	0.2
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	10	0.2
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	11	0.2
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	12	0.2
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	14	0.2
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:A:34:MET:HB2	1:A:34:MET:HE2	7	0.2
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	2	0.2
(1,564)	1:A:47:ARG:HG2	1:A:47:ARG:HA	5	0.2
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	6	0.2
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	11	0.2
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	5	0.2
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	10	0.2
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	14	0.2
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	2	0.2
(1,240)	1:A:3:SER:HA	1:A:3:SER:HB2	4	0.2
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	2	0.2
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	5	0.2
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	8	0.2
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	13	0.2
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	3	0.2
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	15	0.2
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	6	0.2
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	13	0.19
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	5	0.19
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	6	0.19
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	9	0.19
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	15	0.19
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	6	0.19
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	7	0.19
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	10	0.19
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	11	0.19
(1,866)	1:A:12:LEU:H	1:A:12:LEU:HD22	14	0.19
(1,860)	1:A:29:ASP:H	1:A:10:GLN:HG2	13	0.19
(1,83)	1:A:38:ASP:HA	1:A:38:ASP:HB2	12	0.19
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	1	0.19
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	4	0.19
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	10	0.19
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	14	0.19
(1,576)	1:A:49:THR:HB	1:A:46:SER:HB2	4	0.19
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	7	0.19
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	8	0.19
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	6	0.19
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	12	0.19
(1,454)	1:A:51:GLN:HG3	1:A:23:LEU:HD22	12	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	1	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	4	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	10	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	11	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	12	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	14	0.19
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	15	0.19
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	14	0.19
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	10	0.19
(1,1159)	1:A:65:LEU:H	1:A:65:LEU:HB2	7	0.19
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	4	0.19
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	6	0.19
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	11	0.19
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	5	0.19
(1,992)	1:A:33:VAL:H	1:A:33:VAL:HG22	3	0.18
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	9	0.18
(1,83)	1:A:38:ASP:HA	1:A:38:ASP:HB2	9	0.18
(1,83)	1:A:38:ASP:HA	1:A:38:ASP:HB2	10	0.18
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	11	0.18
(1,703)	1:A:7:PHE:H	1:A:7:PHE:HD2	3	0.18
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	2	0.18
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	3	0.18
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	15	0.18
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	3	0.18
(1,223)	1:A:62:PRO:HA	1:A:62:PRO:HB2	9	0.18
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	6	0.18
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	14	0.18
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	4	0.18
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	9	0.18
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	10	0.18
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	13	0.18
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	1	0.18
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	13	0.18
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	10	0.18
(1,103)	1:A:42:PHE:HB3	1:A:33:VAL:HG22	9	0.18
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	3	0.17
(1,953)	1:A:26:ARG:H	1:A:15:TYR:H	6	0.17
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	11	0.17
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	9	0.17
(1,890)	1:A:54:THR:H	1:A:54:THR:HG21	13	0.17
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	7	0.17
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	7	0.17
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	5	0.17
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	15	0.17
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	10	0.17
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	15	0.17
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	6	0.17
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	14	0.17
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	8	0.17
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	12	0.17
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	4	0.17
(1,171)	1:A:45:THR:HG21	1:A:52:PHE:HB2	15	0.17
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	4	0.17
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	1	0.17
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	15	0.17
(1,1130)	1:A:60:VAL:H	1:A:59:TYR:HB3	14	0.17
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	3	0.17
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	15	0.17
(1,1062)	1:A:48:ARG:H	1:A:47:ARG:HB2	7	0.17
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	7	0.17
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	15	0.16
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	4	0.16
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	11	0.16
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	2	0.16
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	6	0.16
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	14	0.16
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	4	0.16
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	13	0.16
(1,676)	1:A:11:ALA:H	1:A:10:GLN:HB3	13	0.16
(1,63)	1:A:34:MET:HB2	1:A:34:MET:HE2	9	0.16
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	10	0.16
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	13	0.16
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	12	0.16
(1,570)	1:A:48:ARG:HB2	1:A:49:THR:H	4	0.16
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	3	0.16
(1,548)	1:A:45:THR:HG21	1:A:50:LYS:H	9	0.16
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	3	0.16
(1,501)	1:A:48:ARG:HA	1:A:48:ARG:HG2	10	0.16
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	1	0.16
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	1	0.16
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	12	0.16
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	7	0.16
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	7	0.16
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	12	0.16
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	11	0.16
(1,1066)	1:A:49:THR:H	1:A:49:THR:HG21	6	0.16
(1,1062)	1:A:48:ARG:H	1:A:47:ARG:HB2	1	0.16
(1,1062)	1:A:48:ARG:H	1:A:47:ARG:HB2	2	0.16
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	8	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	1	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	2	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	3	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	4	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	5	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	6	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	7	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	8	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	9	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	10	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	11	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	12	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	13	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	14	0.15
(1,97)	1:A:42:PHE:HA	1:A:42:PHE:HB2	15	0.15
(1,958)	1:A:27:ASP:H	1:A:14:SER:HB3	9	0.15
(1,899)	1:A:31:VAL:H	1:A:30:ILE:HG13	15	0.15
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	2	0.15
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	15	0.15
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	3	0.15
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	7	0.15
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	9	0.15
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	12	0.15
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	13	0.15
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	13	0.15
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	10	0.15
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	6	0.15
(1,596)	1:A:22:GLU:HG2	1:A:54:THR:HG21	4	0.15
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	2	0.15
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	4	0.15
(1,556)	1:A:46:SER:HB2	1:A:23:LEU:HD22	1	0.15
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	1	0.15
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	3	0.15
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	4	0.15
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	6	0.15
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	10	0.15
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	13	0.15
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	4	0.15
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	11	0.15
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	11	0.15
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	12	0.15
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	5	0.15
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	7	0.15
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	9	0.15
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	12	0.15
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	3	0.15
(1,1011)	1:A:36:LYS:H	1:A:33:VAL:HG22	4	0.15
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	6	0.14
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	8	0.14
(1,965)	1:A:27:ASP:H	1:A:26:ARG:HB3	9	0.14
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	9	0.14
(1,911)	1:A:42:PHE:H	1:A:41:TRP:HB2	15	0.14
(1,87)	1:A:39:ASP:HB3	1:A:39:ASP:H	9	0.14
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	1	0.14
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	2	0.14
(1,835)	1:A:5:ASP:H	1:A:4:GLN:HG2	11	0.14
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	6	0.14
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	8	0.14
(1,771)	1:A:22:GLU:H	1:A:22:GLU:HB3	1	0.14
(1,768)	1:A:21:ASP:H	1:A:22:GLU:H	3	0.14
(1,704)	1:A:6:LEU:H	1:A:7:PHE:H	7	0.14
(1,676)	1:A:11:ALA:H	1:A:10:GLN:HB3	4	0.14
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	15	0.14
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	5	0.14
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	13	0.14
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	5	0.14
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	7	0.14
(1,484)	1:A:30:ILE:HD12	1:A:30:ILE:HA	5	0.14
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	9	0.14
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	12	0.14
(1,358)	1:A:52:PHE:HA	1:A:52:PHE:HD2	14	0.14
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	2	0.14
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	1	0.14
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	5	0.14
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	9	0.14
(1,12)	1:A:35:GLU:HA	1:A:36:LYS:HG2	15	0.14
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	2	0.14
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	5	0.14
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	9	0.14
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	11	0.14
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	14	0.14
(1,1059)	1:A:48:ARG:H	1:A:48:ARG:HG2	4	0.14
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	2	0.14
(1,964)	1:A:27:ASP:H	1:A:26:ARG:HB2	13	0.13
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	15	0.13
(1,916)	1:A:40:GLY:H	1:A:42:PHE:HD1	13	0.13
(1,899)	1:A:31:VAL:H	1:A:30:ILE:HG13	1	0.13
(1,884)	1:A:54:THR:H	1:A:54:THR:HG1	14	0.13
(1,87)	1:A:39:ASP:HB3	1:A:39:ASP:H	10	0.13
(1,829)	1:A:4:GLN:H	1:A:3:SER:HA	1	0.13
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	14	0.13
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	2	0.13
(1,660)	1:A:6:LEU:HB2	1:A:5:ASP:H	7	0.13
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	1	0.13
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	7	0.13
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	12	0.13
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	8	0.13
(1,528)	1:A:35:GLU:HB2	1:A:36:LYS:H	8	0.13
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	8	0.13
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	15	0.13
(1,475)	1:A:26:ARG:HB2	1:A:26:ARG:HD2	5	0.13
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	8	0.13
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	9	0.13
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	5	0.13
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	3	0.13
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	15	0.13
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	6	0.13
(1,1154)	1:A:64:TYR:H	1:A:63:LEU:HD12	8	0.13
(1,1153)	1:A:64:TYR:H	1:A:63:LEU:HB3	8	0.13
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	2	0.13
(1,1011)	1:A:36:LYS:H	1:A:33:VAL:HG22	13	0.13
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	12	0.12
(1,994)	1:A:34:MET:H	1:A:44:GLY:HA3	15	0.12
(1,964)	1:A:27:ASP:H	1:A:26:ARG:HB2	7	0.12
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	3	0.12
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	14	0.12
(1,916)	1:A:40:GLY:H	1:A:42:PHE:HD1	2	0.12
(1,899)	1:A:31:VAL:H	1:A:30:ILE:HG13	13	0.12
(1,87)	1:A:39:ASP:HB3	1:A:39:ASP:H	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:A:23:LEU:HA	1:A:23:LEU:HD22	13	0.12
(1,79)	1:A:37:CYS:HA	1:A:37:CYS:HB3	4	0.12
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	9	0.12
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	14	0.12
(1,769)	1:A:22:GLU:H	1:A:21:ASP:HB3	2	0.12
(1,762)	1:A:21:ASP:H	1:A:21:ASP:HB3	8	0.12
(1,700)	1:A:5:ASP:HB2	1:A:6:LEU:H	4	0.12
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	3	0.12
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	5	0.12
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	11	0.12
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	9	0.12
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	14	0.12
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	15	0.12
(1,532)	1:A:36:LYS:HD2	1:A:36:LYS:HA	5	0.12
(1,531)	1:A:36:LYS:HB2	1:A:42:PHE:HE1	15	0.12
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	13	0.12
(1,517)	1:A:33:VAL:HB	1:A:8:SER:HA	10	0.12
(1,510)	1:A:45:THR:HB	1:A:46:SER:H	3	0.12
(1,495)	1:A:30:ILE:HG22	1:A:47:ARG:HD3	9	0.12
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	1	0.12
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	3	0.12
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	4	0.12
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	2	0.12
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	12	0.12
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	15	0.12
(1,338)	1:A:12:LEU:HD12	1:A:61:LYS:HD2	11	0.12
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	6	0.12
(1,241)	1:A:14:SER:HA	1:A:25:LEU:HB2	13	0.12
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	10	0.12
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	12	0.12
(1,184)	1:A:54:THR:HG21	1:A:54:THR:HG1	5	0.12
(1,175)	1:A:53:GLY:HA3	1:A:54:THR:HG1	14	0.12
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	13	0.12
(1,1154)	1:A:64:TYR:H	1:A:63:LEU:HD12	7	0.12
(1,1154)	1:A:64:TYR:H	1:A:63:LEU:HD12	11	0.12
(1,1154)	1:A:64:TYR:H	1:A:63:LEU:HD12	13	0.12
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	2	0.12
(1,11)	1:A:35:GLU:HA	1:A:35:GLU:HG2	10	0.12
(1,1062)	1:A:48:ARG:H	1:A:47:ARG:HB2	8	0.12
(1,953)	1:A:26:ARG:H	1:A:15:TYR:H	1	0.11
(1,953)	1:A:26:ARG:H	1:A:15:TYR:H	4	0.11
(1,943)	1:A:25:LEU:H	1:A:15:TYR:HB2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,916)	1:A:40:GLY:H	1:A:42:PHE:HD1	9	0.11
(1,899)	1:A:31:VAL:H	1:A:30:ILE:HG13	8	0.11
(1,897)	1:A:31:VAL:H	1:A:30:ILE:HB	3	0.11
(1,886)	1:A:45:THR:H	1:A:45:THR:HB	14	0.11
(1,837)	1:A:5:ASP:H	1:A:4:GLN:HB3	12	0.11
(1,793)	1:A:53:GLY:H	1:A:52:PHE:HD2	2	0.11
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	4	0.11
(1,785)	1:A:25:LEU:H	1:A:24:GLU:HG2	11	0.11
(1,758)	1:A:20:ASP:H	1:A:22:GLU:H	3	0.11
(1,679)	1:A:33:VAL:H	1:A:32:ASP:HB2	13	0.11
(1,66)	1:A:34:MET:HG2	1:A:34:MET:HA	5	0.11
(1,629)	1:A:58:ASN:HB2	1:A:41:TRP:HE3	9	0.11
(1,587)	1:A:50:LYS:HE2	1:A:47:ARG:HA	11	0.11
(1,587)	1:A:50:LYS:HE2	1:A:47:ARG:HA	14	0.11
(1,580)	1:A:50:LYS:HA	1:A:45:THR:HG21	15	0.11
(1,576)	1:A:49:THR:HB	1:A:46:SER:HB2	9	0.11
(1,576)	1:A:49:THR:HB	1:A:46:SER:HB2	12	0.11
(1,560)	1:A:47:ARG:HD3	1:A:47:ARG:HA	2	0.11
(1,560)	1:A:47:ARG:HD3	1:A:47:ARG:HA	14	0.11
(1,56)	1:A:60:VAL:HG12	1:A:11:ALA:HB2	1	0.11
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	11	0.11
(1,557)	1:A:23:LEU:HG	1:A:46:SER:HB2	12	0.11
(1,538)	1:A:37:CYS:HB2	1:A:40:GLY:H	7	0.11
(1,533)	1:A:36:LYS:HD2	1:A:42:PHE:HE1	15	0.11
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	4	0.11
(1,518)	1:A:33:VAL:HB	1:A:7:PHE:HB3	7	0.11
(1,510)	1:A:45:THR:HB	1:A:46:SER:H	6	0.11
(1,510)	1:A:45:THR:HB	1:A:46:SER:H	15	0.11
(1,496)	1:A:8:SER:HB2	1:A:30:ILE:HG22	14	0.11
(1,486)	1:A:30:ILE:HD12	1:A:10:GLN:HE22	2	0.11
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	11	0.11
(1,458)	1:A:25:LEU:HB2	1:A:15:TYR:HB3	15	0.11
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	5	0.11
(1,405)	1:A:18:GLN:HA	1:A:19:ASN:HB2	8	0.11
(1,37)	1:A:28:GLY:HA3	1:A:10:GLN:HG2	10	0.11
(1,36)	1:A:27:ASP:HB3	1:A:13:TYR:HA	12	0.11
(1,356)	1:A:52:PHE:HA	1:A:45:THR:HG21	5	0.11
(1,342)	1:A:12:LEU:HD12	1:A:61:LYS:HE2	14	0.11
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	12	0.11
(1,330)	1:A:12:LEU:HD12	1:A:60:VAL:H	13	0.11
(1,289)	1:A:10:GLN:HA	1:A:10:GLN:HG2	2	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	4	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	5	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	6	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	7	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	8	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	9	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	10	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	12	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	13	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	14	0.11
(1,281)	1:A:9:TYR:HB2	1:A:9:TYR:HE1	15	0.11
(1,244)	1:A:14:SER:HA	1:A:27:ASP:H	1	0.11
(1,244)	1:A:14:SER:HA	1:A:27:ASP:H	2	0.11
(1,244)	1:A:14:SER:HA	1:A:27:ASP:H	3	0.11
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	4	0.11
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	13	0.11
(1,209)	1:A:61:LYS:HB3	1:A:61:LYS:HA	15	0.11
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	5	0.11
(1,20)	1:A:24:GLU:HG2	1:A:16:ILE:HD12	11	0.11
(1,165)	1:A:51:GLN:HG2	1:A:23:LEU:HD22	5	0.11
(1,144)	1:A:48:ARG:HD3	1:A:48:ARG:HB2	4	0.11
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	2	0.11
(1,142)	1:A:47:ARG:HB2	1:A:47:ARG:HD3	8	0.11
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	2	0.11
(1,1124)	1:A:59:TYR:H	1:A:59:TYR:HB3	8	0.11
(1,1112)	1:A:55:PHE:H	1:A:42:PHE:HB3	15	0.11
(1,1045)	1:A:46:SER:H	1:A:50:LYS:H	4	0.11
(1,1045)	1:A:46:SER:H	1:A:50:LYS:H	11	0.11
(1,103)	1:A:42:PHE:HB3	1:A:33:VAL:HG22	3	0.11
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	1	0.11
(1,1026)	1:A:37:CYS:H	1:A:36:LYS:HB2	10	0.11

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found