



Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 01:04 PM EST

PDB ID : 6NBN
BMRB ID : 30550
Title : Structure of Aedes aegypti OBP22 in the complex with arachidonic acid
Authors : Jones, D.N.; Wang, J.
Deposited on : 2018-12-07

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.40

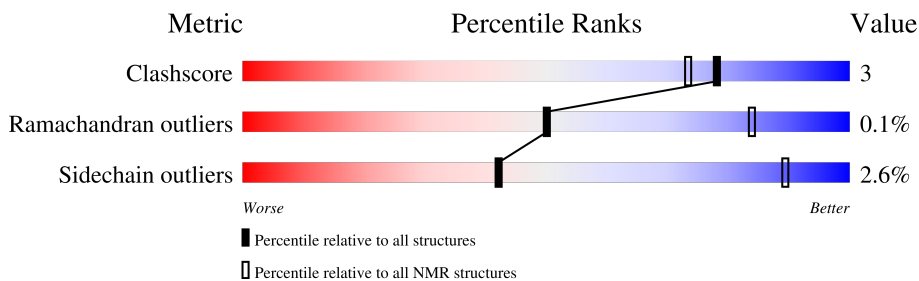
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 91%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	123	

2 Ensemble composition and analysis i

This entry contains 30 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:6-A:121 (116)	0.40	1

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 4 clusters and 6 single-model clusters were found.

Cluster number	Models
1	1, 7, 9, 12, 13, 18, 19, 21, 24, 25, 29
2	4, 5, 11, 14, 15, 30
3	3, 8, 16, 17, 22
4	6, 26
Single-model clusters	2; 10; 20; 23; 27; 28

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 2033 atoms, of which 1004 are hydrogens and 0 are deuteriums.

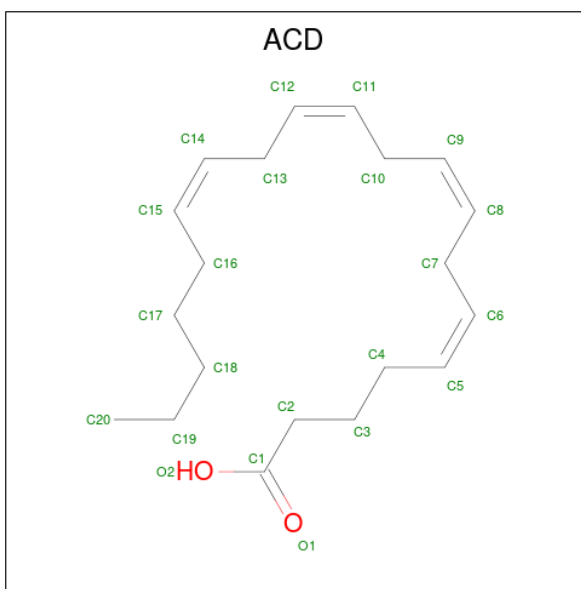
- Molecule 1 is a protein called AAEL005772-PA.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	123	1980	633	973	170	195	9	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q1HRL7

- Molecule 2 is ARACHIDONIC ACID (three-letter code: ACD) (formula: $C_{20}H_{32}O_2$).



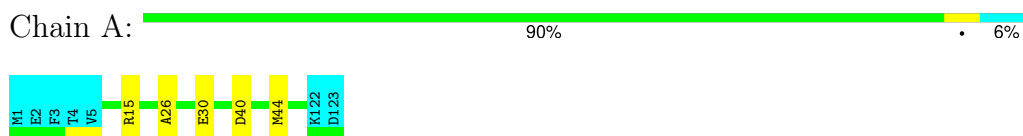
Mol	Chain	Residues	Atoms			
			Total	C	H	O
2	A	1	53	20	31	2

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: AAEL005772-PA

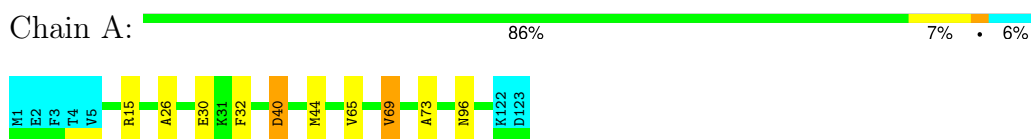


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

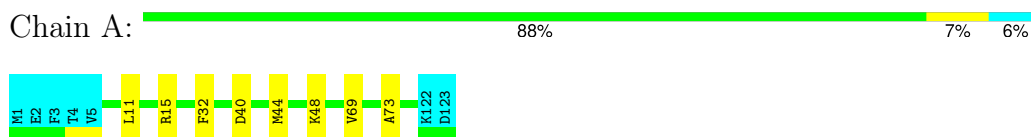
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: AAEL005772-PA



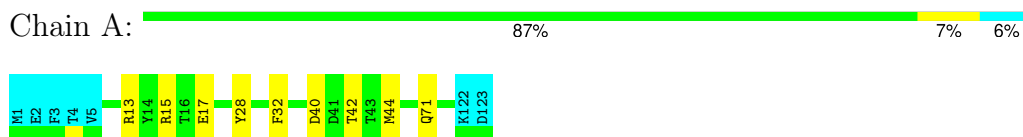
4.2.2 Score per residue for model 2

- Molecule 1: AAEL005772-PA



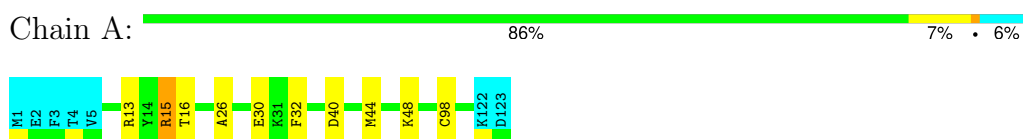
4.2.3 Score per residue for model 3

- Molecule 1: AAEL005772-PA



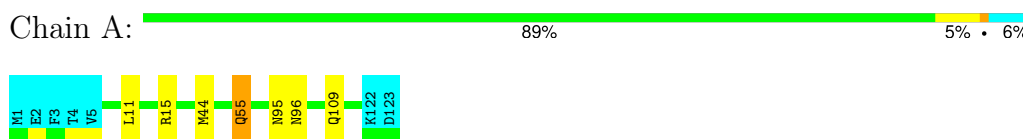
4.2.4 Score per residue for model 4

- Molecule 1: AAEL005772-PA



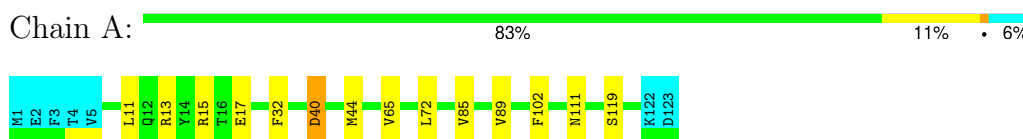
4.2.5 Score per residue for model 5

- Molecule 1: AAEL005772-PA



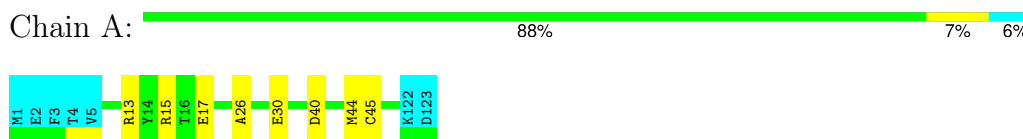
4.2.6 Score per residue for model 6

- Molecule 1: AAEL005772-PA




4.2.7 Score per residue for model 7

- Molecule 1: AAEL005772-PA



4.2.8 Score per residue for model 8


- Molecule 1: AAEL005772-PA

Chain A:  90% • 6%



4.2.9 Score per residue for model 9


- Molecule 1: AAEL005772-PA

Chain A:  85% 10% 6%



4.2.10 Score per residue for model 10


- Molecule 1: AAEL005772-PA

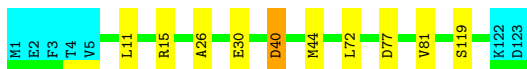
Chain A:  79% 14% • 6%



4.2.11 Score per residue for model 11


- Molecule 1: AAEL005772-PA

Chain A:  86% 7% • 6%



4.2.12 Score per residue for model 12


- Molecule 1: AAEL005772-PA

Chain A:  86% 8% 6%



4.2.13 Score per residue for model 13


- Molecule 1: AAEL005772-PA

Chain A:  89% 6%



4.2.14 Score per residue for model 14


- Molecule 1: AAEL005772-PA

Chain A:  82% 12% 6%



4.2.15 Score per residue for model 15


- Molecule 1: AAEL005772-PA

Chain A:  85% 8% 6%



4.2.16 Score per residue for model 16


- Molecule 1: AAEL005772-PA

Chain A:  83% 11% 6%



4.2.17 Score per residue for model 17

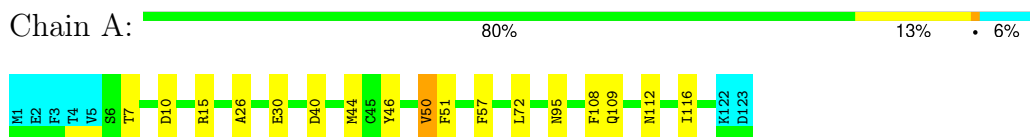
- Molecule 1: AAEL005772-PA

Chain A:  89% 6%



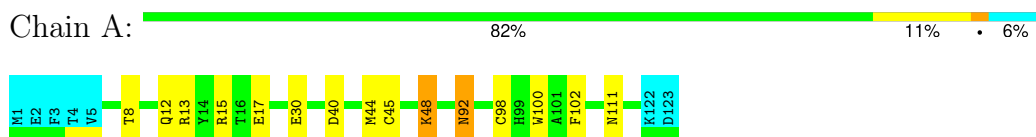
4.2.18 Score per residue for model 18

- Molecule 1: AAEL005772-PA



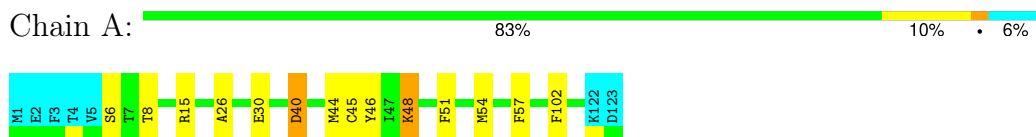
4.2.19 Score per residue for model 19

- Molecule 1: AAEL005772-PA



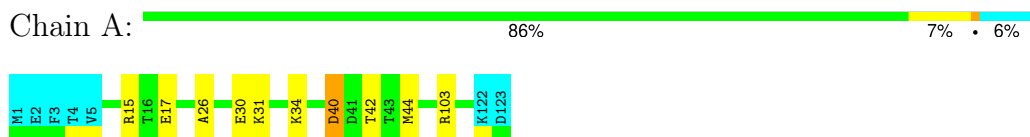
4.2.20 Score per residue for model 20

- Molecule 1: AAEL005772-PA



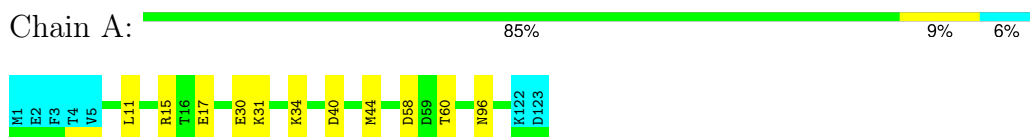
4.2.21 Score per residue for model 21

- Molecule 1: AAEL005772-PA



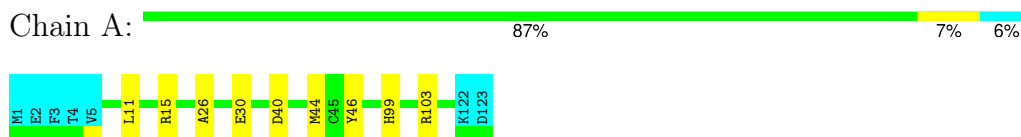
4.2.22 Score per residue for model 22

- Molecule 1: AAEL005772-PA



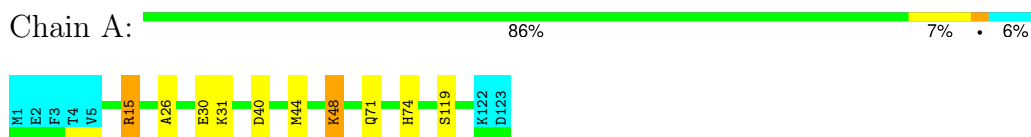
4.2.23 Score per residue for model 23

- Molecule 1: AAEL005772-PA



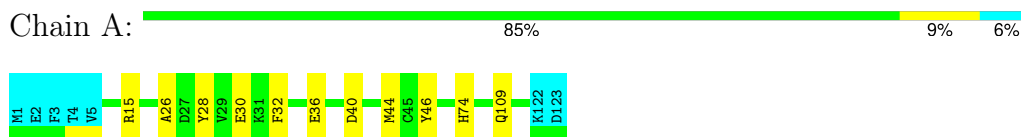
4.2.24 Score per residue for model 24

- Molecule 1: AAEL005772-PA



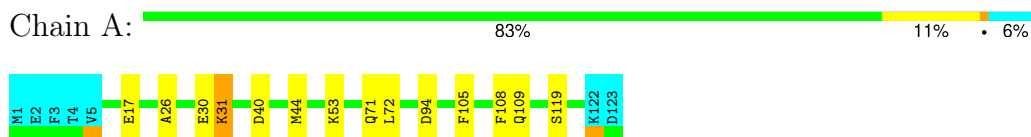
4.2.25 Score per residue for model 25

- Molecule 1: AAEL005772-PA



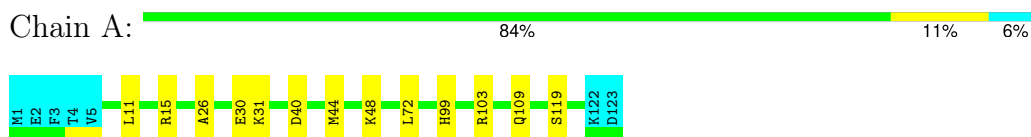
4.2.26 Score per residue for model 26

- Molecule 1: AAEL005772-PA



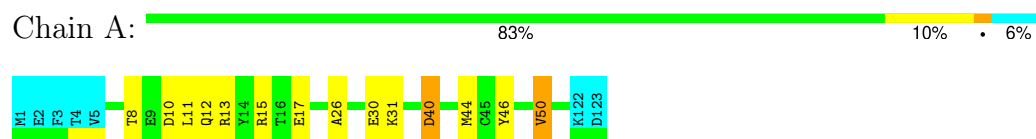
4.2.27 Score per residue for model 27

- Molecule 1: AAEL005772-PA



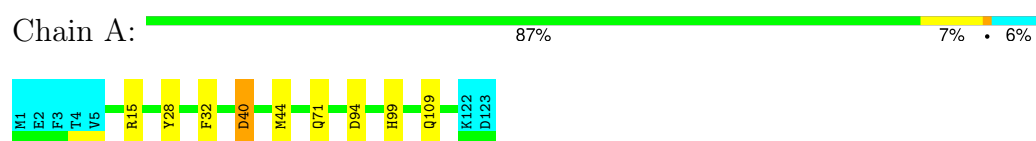
4.2.28 Score per residue for model 28

- Molecule 1: AAEL005772-PA



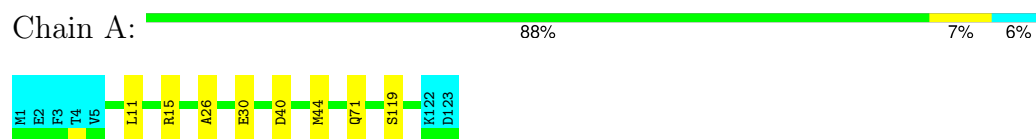
4.2.29 Score per residue for model 29

- Molecule 1: AAEL005772-PA



4.2.30 Score per residue for model 30

- Molecule 1: AAEL005772-PA



5 Refinement protocol and experimental data overview

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

Of the 50 calculated structures, 30 were deposited, based on the following criterion: *NOE violation energy*.

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

Software name	Classification	Version
ARIA	structure calculation	2.3.2
CNS	structure calculation	1.2

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	1565
Number of shifts mapped to atoms	1565
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	91%

6 Model quality i

6.1 Standard geometry i

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

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	947	914	911	5±2
2	A	22	31	31	0±1
All	All	29070	28350	28260	153

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 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:LEU:HA	1:A:119:SER:OG	0.61	1.94	11	5
1:A:40:ASP:O	1:A:44:MET:HG3	0.60	1.96	1	29
1:A:11:LEU:O	1:A:15:ARG:HG3	0.59	1.95	22	11
1:A:15:ARG:HH21	2:A:201:ACD:C1	0.57	2.12	21	3
1:A:13:ARG:O	1:A:17:GLU:HG3	0.57	1.99	10	5
1:A:99:HIS:O	1:A:103:ARG:HG3	0.56	2.00	16	3
1:A:15:ARG:HD2	2:A:201:ACD:O2	0.54	2.02	15	4
1:A:32:PHE:HB3	2:A:201:ACD:O2	0.53	2.04	6	5
1:A:49:CYS:SG	1:A:53:LYS:HE2	0.52	2.44	12	1
1:A:48:LYS:HD3	1:A:98:CYS:SG	0.52	2.45	15	3
1:A:13:ARG:O	1:A:17:GLU:HG2	0.51	2.05	16	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:ASP:OD2	1:A:42:THR:HB	0.51	2.06	21	1
1:A:71:GLN:HG3	1:A:119:SER:OG	0.50	2.06	30	2
1:A:31:LYS:O	1:A:34:LYS:HG2	0.50	2.07	22	2
1:A:26:ALA:O	1:A:30:GLU:HG3	0.49	2.08	25	17
1:A:58:ASP:OD1	1:A:60:THR:HB	0.49	2.07	16	2
1:A:31:LYS:NZ	1:A:31:LYS:HB2	0.49	2.22	26	1
1:A:15:ARG:HH12	2:A:201:ACD:C1	0.48	2.22	4	1
1:A:45:CYS:O	1:A:48:LYS:HG3	0.48	2.08	20	3
1:A:44:MET:HG2	1:A:102:PHE:CG	0.47	2.43	20	3
1:A:71:GLN:OE1	1:A:71:GLN:HA	0.47	2.09	26	2
1:A:26:ALA:O	1:A:30:GLU:HG2	0.47	2.10	1	2
1:A:81:VAL:O	1:A:85:VAL:HG13	0.47	2.10	10	1
1:A:94:ASP:OD1	1:A:99:HIS:HB3	0.47	2.09	29	1
1:A:44:MET:HG2	1:A:102:PHE:CD1	0.46	2.45	6	2
1:A:52:ASN:HA	1:A:57:PHE:O	0.46	2.10	10	1
1:A:46:TYR:O	1:A:50:VAL:HG13	0.46	2.11	18	2
1:A:65:VAL:O	1:A:69:VAL:HG13	0.45	2.11	1	1
1:A:13:ARG:HA	1:A:13:ARG:NE	0.45	2.26	4	1
1:A:15:ARG:HD2	1:A:46:TYR:OH	0.45	2.11	23	1
1:A:6:SER:HB3	1:A:54:MET:SD	0.44	2.52	20	1
1:A:85:VAL:O	1:A:89:VAL:HG23	0.44	2.12	10	2
1:A:105:PHE:O	1:A:109:GLN:HG2	0.44	2.12	26	1
1:A:72:LEU:HD13	1:A:108:PHE:CZ	0.43	2.48	26	3
1:A:8:THR:O	1:A:12:GLN:HG3	0.43	2.13	19	1
1:A:92:ASN:HB2	1:A:100:TRP:CD2	0.43	2.49	14	1
1:A:8:THR:O	1:A:12:GLN:HG2	0.43	2.14	28	1
1:A:18:CYS:SG	1:A:53:LYS:HD3	0.42	2.53	10	1
1:A:92:ASN:HB2	1:A:100:TRP:CE3	0.42	2.49	14	1
1:A:15:ARG:HH11	2:A:201:ACD:C1	0.42	2.28	15	1
1:A:55:GLN:HA	1:A:55:GLN:HE21	0.42	1.75	5	1
1:A:48:LYS:HD3	1:A:48:LYS:C	0.42	2.35	24	1
1:A:15:ARG:HG2	1:A:46:TYR:OH	0.42	2.15	25	2
1:A:112:ASN:O	1:A:116:ILE:HG13	0.41	2.15	18	1
1:A:58:ASP:OD2	1:A:60:THR:HB	0.41	2.14	8	1
1:A:51:PHE:HB3	1:A:57:PHE:HB3	0.41	1.92	20	2
1:A:45:CYS:HA	1:A:48:LYS:CG	0.41	2.46	20	1
1:A:99:HIS:O	1:A:103:ARG:HB2	0.41	2.14	23	1
1:A:28:TYR:HB3	1:A:32:PHE:CZ	0.41	2.50	3	4
1:A:84:GLU:O	1:A:87:LYS:HG2	0.41	2.15	10	1
1:A:77:ASP:O	1:A:81:VAL:HG23	0.41	2.16	11	1
1:A:92:ASN:HB3	1:A:100:TRP:CD2	0.41	2.50	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:VAL:O	1:A:73:ALA:HB3	0.41	2.15	2	1
1:A:7:THR:HG22	1:A:10:ASP:OD2	0.40	2.16	18	1
1:A:80:GLU:O	1:A:84:GLU:HG3	0.40	2.17	16	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	116/123 (94%)	110±1 (95±1%)	5±1 (5±1%)	0±0 (0±0%)	50	84
All	All	3480/3690 (94%)	3314 (95%)	161 (5%)	5 (0%)	50	84

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

Mol	Chain	Res	Type	Models (Total)
1	A	74	HIS	3
1	A	73	ALA	2

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	107/114 (94%)	104±1 (97±1%)	3±1 (3±1%)	42	89
All	All	3210/3420 (94%)	3128 (97%)	82 (3%)	42	89

All 28 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	15	ARG	13
1	A	40	ASP	9
1	A	96	ASN	6
1	A	48	LYS	6
1	A	109	GLN	6
1	A	111	ASN	5
1	A	17	GLU	5
1	A	31	LYS	4
1	A	30	GLU	3
1	A	95	ASN	2
1	A	65	VAL	2
1	A	45	CYS	2
1	A	10	ASP	2
1	A	92	ASN	2
1	A	50	VAL	2
1	A	69	VAL	1
1	A	42	THR	1
1	A	16	THR	1
1	A	44	MET	1
1	A	55	GLN	1
1	A	85	VAL	1
1	A	80	GLU	1
1	A	8	THR	1
1	A	103	ARG	1
1	A	36	GLU	1
1	A	53	LYS	1
1	A	94	ASP	1
1	A	71	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 oligosaccharides in this entry.

6.6 Ligand geometry

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	ACD	A	201	-	21,21,21	0.46±0.02	0±0 (0±0%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	ACD	A	201	-	21,21,21	0.78±0.02	0±0 (1±2%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ACD	A	201	-	-	0±0,19,19,19	-

There are no bond-length outliers.

All unique angle outliers are listed below.

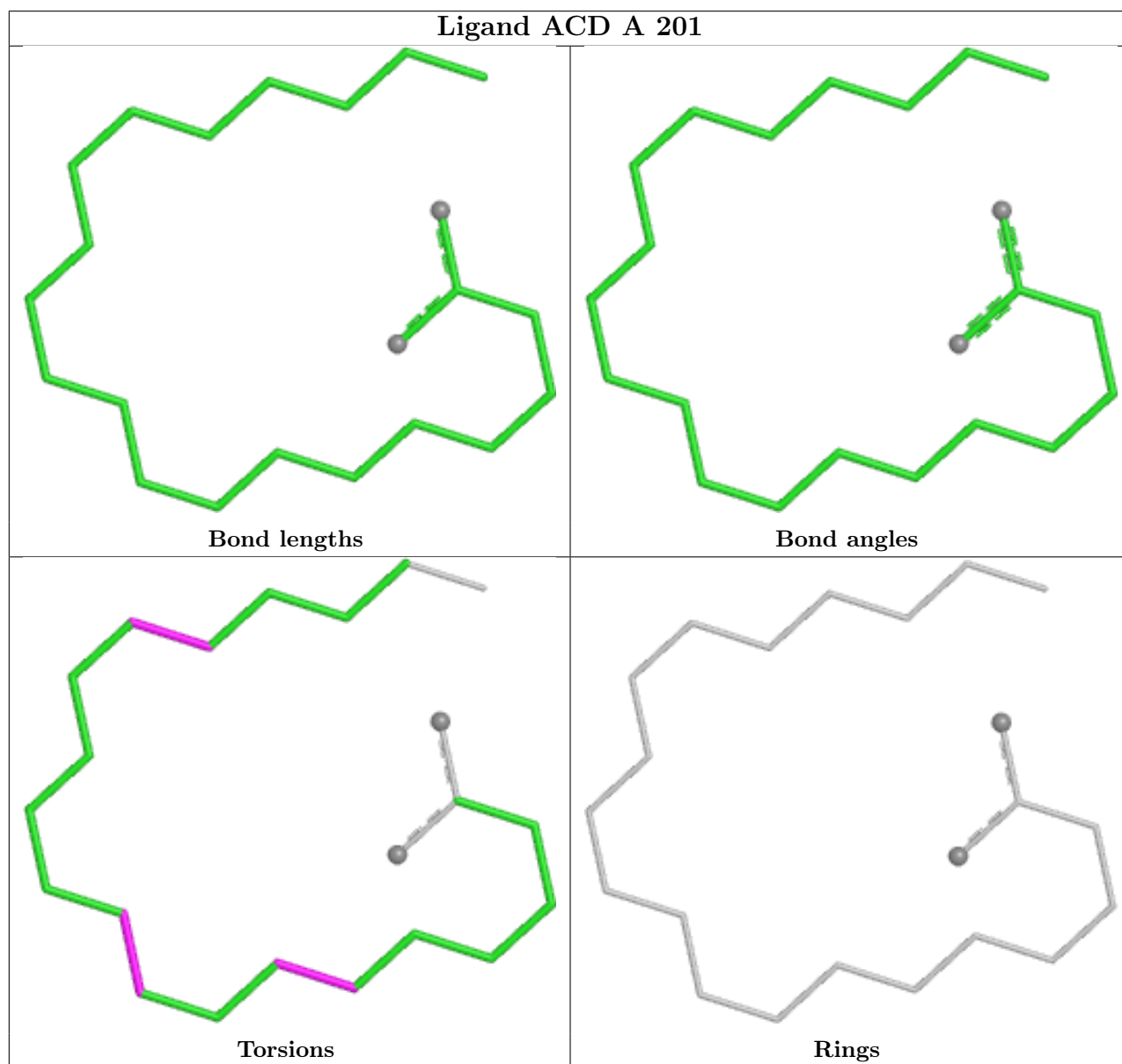
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	201	ACD	C3-C2-C1	2.26	108.61	114.51	5	8

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 91% for the well-defined parts and 90% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	1565
Number of shifts mapped to atoms	1565
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	8

The following errors were found when reading this chemical shift list.

- Chemical shift has been reported more than once. All 6 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	86	LEU	HD11	0.886	0.011	1
1	A	86	LEU	HD13	0.886	0.011	1
1	A	86	LEU	HD12	0.886	0.011	1
1	A	68	LEU	HD11	0.653	0.007	1
1	A	68	LEU	HD12	0.653	0.007	1
1	A	68	LEU	HD13	0.653	0.007	1

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	122	-0.35 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	119	0.26 ± 0.19	None needed (< 0.5 ppm)
$^{13}\text{C}'$	115	-0.09 ± 0.16	None needed (< 0.5 ppm)

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Nucleus	# values	Correction \pm precision, ppm	Suggested action
^{15}N	118	0.46 \pm 0.29	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 91%, i.e. 1455 atoms were assigned a chemical shift out of a possible 1600. 0 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	571/577 (99%)	232/232 (100%)	226/232 (97%)	113/113 (100%)
Sidechain	772/878 (88%)	521/562 (93%)	234/278 (84%)	17/38 (45%)
Aromatic	112/145 (77%)	62/71 (87%)	48/66 (73%)	2/8 (25%)
Overall	1455/1600 (91%)	815/865 (94%)	508/576 (88%)	132/159 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 90%, i.e. 1526 atoms were assigned a chemical shift out of a possible 1698. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	598/612 (98%)	243/246 (99%)	237/246 (96%)	118/120 (98%)
Sidechain	806/931 (87%)	542/596 (91%)	247/296 (83%)	17/39 (44%)
Aromatic	122/155 (79%)	67/76 (88%)	53/71 (75%)	2/8 (25%)
Overall	1526/1698 (90%)	852/918 (93%)	537/613 (88%)	137/167 (82%)

7.1.4 Statistically unusual chemical shifts [i](#)

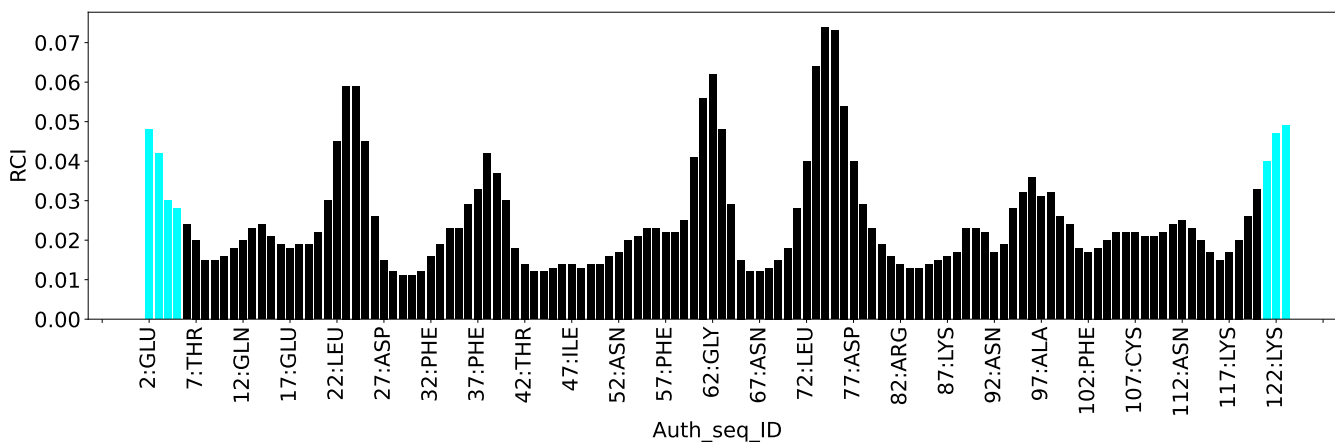
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	43	THR	HG1	5.23	0.08 – 2.19	19.4
1	A	92	ASN	HB2	0.06	1.27 – 4.34	-8.9
1	A	62	GLY	HA2	1.19	2.15 – 5.77	-7.6
1	A	47	ILE	HG21	-0.62	-0.56 – 2.11	-5.2
1	A	47	ILE	HG22	-0.62	-0.56 – 2.11	-5.2
1	A	47	ILE	HG23	-0.62	-0.56 – 2.11	-5.2
1	A	53	LYS	HB3	0.41	0.46 – 3.04	-5.2
1	A	117	LYS	HE2	1.94	1.95 – 3.88	-5.0

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2040
Intra-residue ($ i-j =0$)	1020
Sequential ($ i-j =1$)	330
Medium range ($ i-j >1$ and $ i-j <5$)	301
Long range ($ i-j \geq 5$)	248
Inter-chain	99
Hydrogen bond restraints	42
Disulfide bond restraints	0
Total dihedral-angle restraints	225
Number of unmapped restraints	0
Number of restraints per residue	18.3
Number of long range restraints per residue ¹	2.0

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	15.1	0.2
0.2-0.5 (Medium)	34.4	0.5
>0.5 (Large)	38.3	3.56

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	1.8	4.21
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis

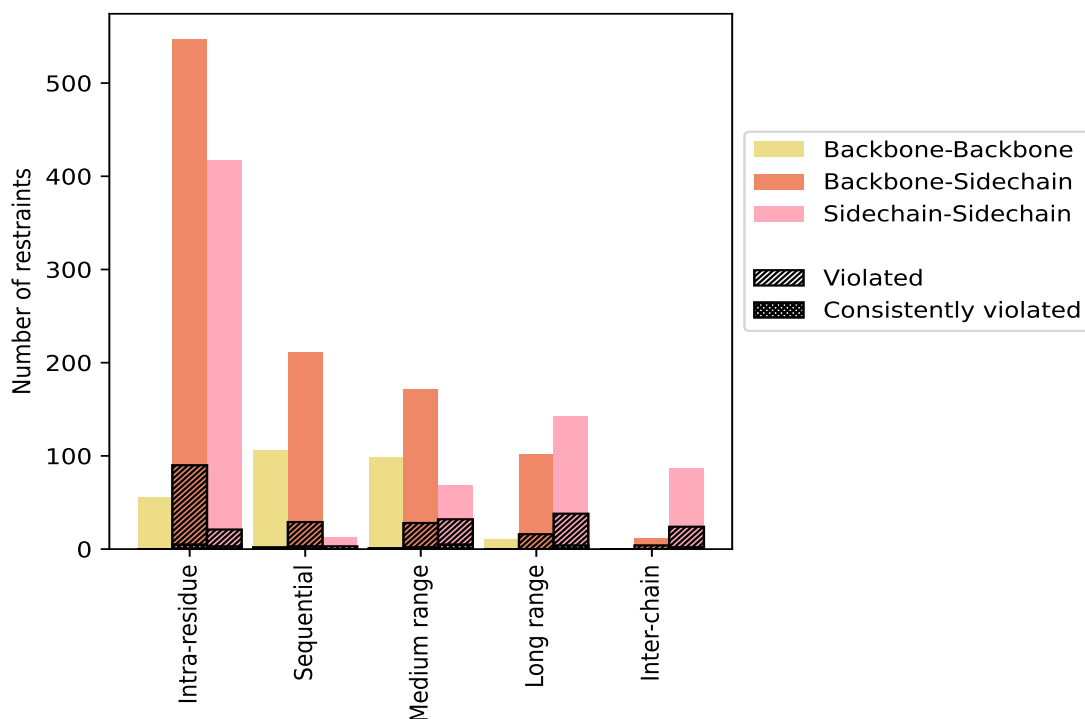
9.1 Summary of distance violations

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1020	50.0	111	10.9	5.4	8	0.8	0.4
Backbone-Backbone	56	2.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	547	26.8	90	16.5	4.4	5	0.9	0.2
Sidechain-Sidechain	417	20.4	21	5.0	1.0	3	0.7	0.1
Sequential ($i-j =1$)	330	16.2	34	10.3	1.7	3	0.9	0.1
Backbone-Backbone	106	5.2	2	1.9	0.1	0	0.0	0.0
Backbone-Sidechain	211	10.3	29	13.7	1.4	3	1.4	0.1
Sidechain-Sidechain	13	0.6	3	23.1	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	301	14.8	60	19.9	2.9	7	2.3	0.3
Backbone-Backbone	98	4.8	1	1.0	0.0	0	0.0	0.0
Backbone-Sidechain	135	6.6	27	20.0	1.3	2	1.5	0.1
Sidechain-Sidechain	68	3.3	32	47.1	1.6	5	7.4	0.2
Long range ($i-j \geq 5$)	248	12.2	54	21.8	2.6	4	1.6	0.2
Backbone-Backbone	10	0.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	97	4.8	16	16.5	0.8	0	0.0	0.0
Sidechain-Sidechain	141	6.9	38	27.0	1.9	4	2.8	0.2
Inter-chain	99	4.9	28	28.3	1.4	2	2.0	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	12	0.6	4	33.3	0.2	0	0.0	0.0
Sidechain-Sidechain	87	4.3	24	27.6	1.2	2	2.3	0.1
Hydrogen bond	42	2.1	1	2.4	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2040	100.0	288	14.1	14.1	24	1.2	1.2
Backbone-Backbone	270	13.2	3	1.1	0.1	0	0.0	0.0
Backbone-Sidechain	1043	51.1	167	16.0	8.2	10	1.0	0.5
Sidechain-Sidechain	727	35.6	118	16.2	5.8	14	1.9	0.7

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	28	9	21	21	14	93	0.62	1.84	0.46	0.48
2	30	7	24	16	13	90	0.5	2.0	0.35	0.42
3	33	7	23	17	13	93	0.53	1.94	0.39	0.4
4	28	6	24	15	9	82	0.56	2.28	0.43	0.39
5	29	8	23	14	12	86	0.55	2.09	0.41	0.44
6	27	13	25	20	11	96	0.62	1.89	0.46	0.46
7	31	8	27	14	15	95	0.57	1.92	0.44	0.44
8	31	9	26	14	12	92	0.59	3.01	0.49	0.47
9	32	11	29	10	13	95	0.63	3.56	0.64	0.39
10	38	7	22	25	17	109	0.6	1.96	0.47	0.48

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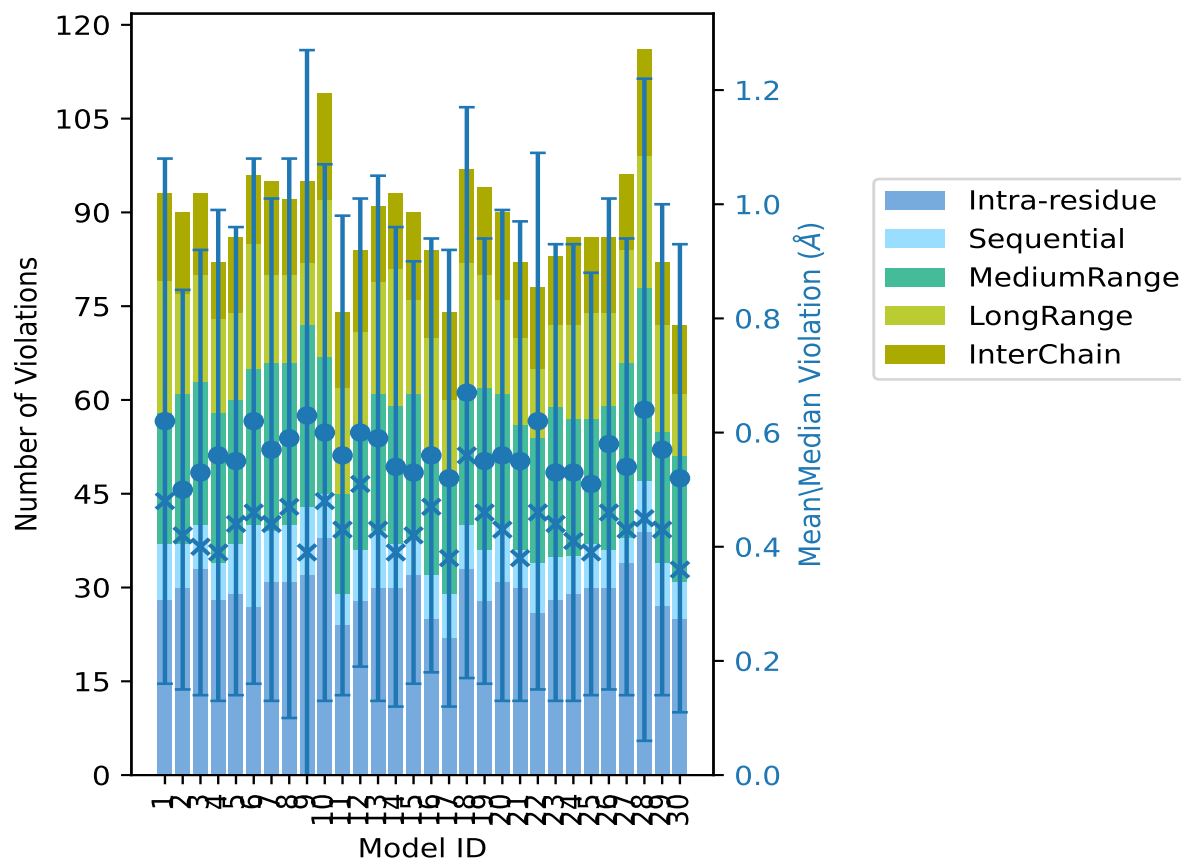
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	24	5	16	17	12	74	0.56	1.94	0.42	0.43
12	28	8	19	16	13	84	0.6	1.79	0.41	0.51
13	30	9	22	18	12	91	0.59	1.93	0.46	0.43
14	30	7	22	22	12	93	0.54	2.02	0.42	0.39
15	32	6	23	15	14	90	0.53	1.86	0.37	0.42
16	25	7	20	18	14	84	0.56	1.9	0.38	0.47
17	22	7	19	12	14	74	0.52	2.04	0.4	0.38
18	33	7	21	21	15	97	0.67	2.79	0.5	0.56
19	28	8	26	18	14	94	0.55	2.0	0.39	0.46
20	31	9	21	15	14	90	0.56	2.22	0.43	0.43
21	30	6	20	14	12	82	0.55	1.89	0.42	0.38
22	26	8	20	11	13	78	0.62	1.97	0.47	0.46
23	28	7	24	13	11	83	0.53	2.0	0.4	0.44
24	29	6	22	15	14	86	0.53	2.1	0.4	0.41
25	30	7	20	17	12	86	0.51	1.8	0.37	0.39
26	30	6	23	15	12	86	0.58	2.02	0.43	0.46
27	34	4	28	18	12	96	0.54	1.95	0.4	0.43
28	39	8	31	21	17	116	0.64	3.54	0.58	0.45
29	27	7	21	17	10	82	0.57	1.82	0.43	0.43
30	25	6	20	10	11	72	0.52	1.9	0.41	0.36

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

⁵Inter-chain restraints, ⁶Standard deviation

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1711(IR:909, SQ:296, MR:241, LR:194, IC:71) 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	%
24	10	13	18	5	70	1	3.3
16	10	10	9	3	48	2	6.7
14	2	2	3	0	21	3	10.0
8	0	2	4	0	14	4	13.3
11	0	3	2	0	16	5	16.7
2	1	1	0	0	4	6	20.0

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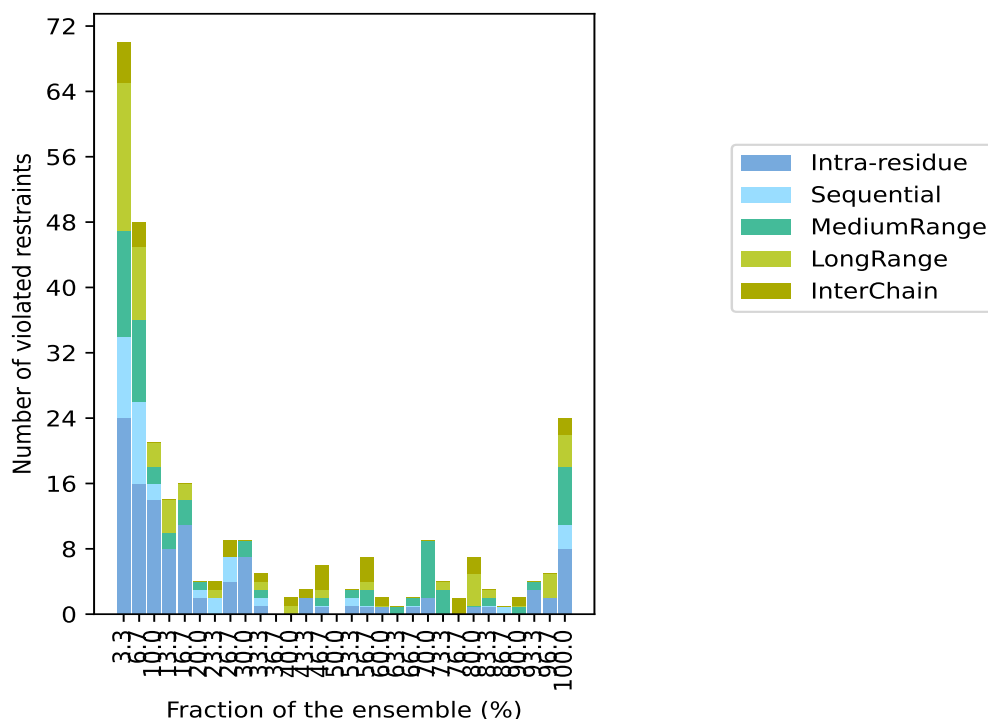
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	2	0	1	1	4	7	23.3
4	3	0	0	2	9	8	26.7
7	0	2	0	0	9	9	30.0
1	1	1	1	1	5	10	33.3
0	0	0	0	0	0	11	36.7
0	0	0	1	1	2	12	40.0
2	0	0	0	1	3	13	43.3
1	0	1	1	3	6	14	46.7
0	0	0	0	0	0	15	50.0
1	1	1	0	0	3	16	53.3
1	0	2	1	3	7	17	56.7
1	0	0	0	1	2	18	60.0
0	0	1	0	0	1	19	63.3
1	0	1	0	0	2	20	66.7
2	0	7	0	0	9	21	70.0
0	0	3	1	0	4	22	73.3
0	0	0	0	2	2	23	76.7
1	0	0	4	2	7	24	80.0
1	0	1	1	0	3	25	83.3
0	1	0	0	0	1	26	86.7
0	0	1	0	1	2	27	90.0
3	0	1	0	0	4	28	93.3
2	0	0	3	0	5	29	96.7
8	3	7	4	2	24	30	100.0

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

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

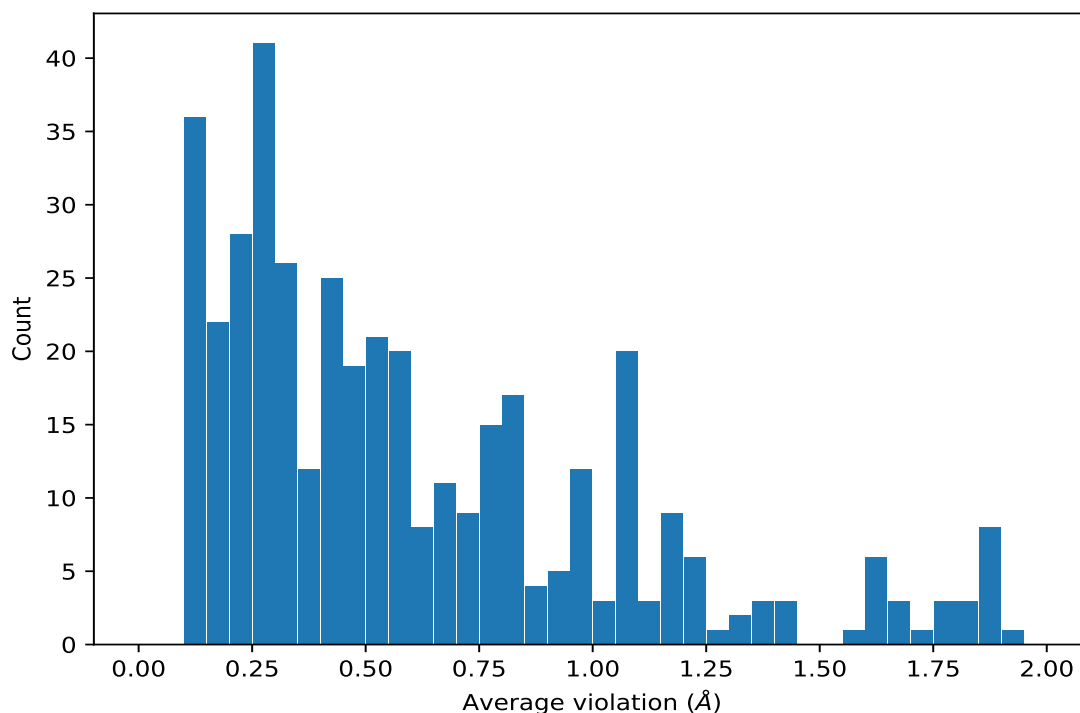
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	30	1.9	0.1	1.9
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	30	1.89	0.18	1.92
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	30	1.89	0.18	1.92
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	30	1.89	0.18	1.92
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	30	1.89	0.18	1.92
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	30	1.89	0.18	1.92
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	30	1.89	0.18	1.92
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	30	1.65	0.17	1.66
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	30	1.65	0.17	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	30	1.65	0.17	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	30	1.65	0.17	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	30	1.65	0.17	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	30	1.65	0.17	1.66
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	30	1.09	0.37	1.06

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	30	1.09	0.37	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	30	1.09	0.37	1.06
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	30	1.05	0.04	1.06
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	30	1.05	0.04	1.06
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	30	1.05	0.04	1.06
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	30	0.88	0.07	0.89
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	30	0.88	0.07	0.89
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	30	0.88	0.07	0.89
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	30	0.82	0.21	0.78
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	30	0.82	0.15	0.8
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	30	0.8	0.1	0.8
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	30	0.75	0.1	0.76
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	30	0.75	0.1	0.76
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	30	0.75	0.1	0.76
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	30	0.62	0.26	0.57
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	30	0.62	0.26	0.57
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	30	0.62	0.26	0.57
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	30	0.59	0.0	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	30	0.59	0.0	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	30	0.59	0.0	0.59
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	30	0.54	0.07	0.55
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	30	0.43	0.0	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	30	0.43	0.0	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	30	0.43	0.0	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	30	0.42	0.07	0.42
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	30	0.42	0.07	0.42
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	30	0.37	0.09	0.4
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	30	0.36	0.05	0.37
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	30	0.34	0.01	0.34
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	30	0.33	0.02	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	30	0.33	0.02	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	30	0.33	0.02	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	30	0.32	0.02	0.32
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	30	0.3	0.02	0.3
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	30	0.18	0.01	0.18
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	30	0.17	0.0	0.17
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	30	0.12	0.02	0.12
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	29	0.82	0.31	0.83

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	29	0.82	0.31	0.83
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	29	0.82	0.31	0.83
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	29	0.6	0.06	0.61
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	29	0.6	0.06	0.61
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	29	0.6	0.06	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD21	29	0.6	0.06	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD22	29	0.6	0.06	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD23	29	0.6	0.06	0.61
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	29	0.48	0.0	0.48
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	29	0.34	0.06	0.35
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	29	0.33	0.1	0.32
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	29	0.33	0.1	0.32
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	29	0.33	0.1	0.32
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	28	0.72	0.15	0.72
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	28	0.57	0.01	0.57
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	28	0.26	0.01	0.26
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	28	0.11	0.01	0.11
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	27	0.74	0.27	0.69
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	27	0.74	0.27	0.69
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	27	0.74	0.27	0.69
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	27	0.57	0.39	0.53
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	27	0.57	0.39	0.53
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	27	0.57	0.39	0.53
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	26	0.5	0.04	0.49
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	25	1.12	0.49	1.24
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	25	0.38	0.01	0.38
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	25	0.28	0.07	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	25	0.28	0.07	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	25	0.28	0.07	0.27
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	24	1.16	0.03	1.16
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	24	1.16	0.03	1.16
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	24	1.16	0.03	1.16
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	24	0.83	0.05	0.83
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	24	0.83	0.05	0.83
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	24	0.83	0.05	0.83
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	24	0.75	0.05	0.75
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	24	0.75	0.05	0.75
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	24	0.75	0.05	0.75
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	24	0.61	0.19	0.57
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	24	0.57	0.11	0.56
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	24	0.54	0.24	0.69
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	24	0.32	0.14	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	23	0.53	0.17	0.48
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	23	0.52	0.23	0.66
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	22	0.9	0.09	0.91
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	22	0.73	0.1	0.74
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	22	0.73	0.1	0.74
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	22	0.73	0.1	0.74
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	22	0.32	0.1	0.3
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	22	0.24	0.11	0.21
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	21	1.14	0.57	1.29
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	21	1.02	0.07	1.02
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	21	0.5	0.07	0.49
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	21	0.46	0.01	0.45
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	21	0.41	0.19	0.46
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	21	0.41	0.07	0.4
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	21	0.41	0.07	0.4
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	21	0.41	0.07	0.4
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	21	0.35	0.34	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	21	0.23	0.0	0.23
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	21	0.23	0.06	0.22
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	20	0.63	0.35	0.57
(1,1972)	1:36:A:GLU:HB3	1:38:A:PRO:HD2	20	0.63	0.35	0.57
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	20	0.19	0.07	0.17
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	19	1.09	0.5	1.18
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	18	0.68	0.29	0.66
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	18	0.17	0.05	0.16
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	18	0.17	0.05	0.16
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	18	0.17	0.05	0.16
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	17	0.81	0.39	0.94
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	17	0.81	0.39	0.94
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	17	0.81	0.39	0.94
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	17	0.68	1.06	0.32
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	17	0.68	1.06	0.32
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	17	0.68	0.24	0.78
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	17	0.63	0.26	0.57
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	17	0.28	0.11	0.26
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	17	0.16	0.04	0.15
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	17	0.16	0.04	0.15
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	17	0.16	0.04	0.15
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	17	0.12	0.0	0.12
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	16	0.74	0.02	0.74
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	16	0.4	0.25	0.31
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	16	0.4	0.25	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	16	0.4	0.25	0.31
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB3	16	0.4	0.25	0.31
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB3	16	0.4	0.25	0.31
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB3	16	0.4	0.25	0.31
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	16	0.21	0.07	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	16	0.21	0.07	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	16	0.21	0.07	0.19
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	14	1.15	0.08	1.16
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	14	0.85	0.52	0.78
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	14	0.85	0.52	0.78
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	14	0.59	0.38	0.68
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	14	0.53	0.06	0.54
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	14	0.27	0.11	0.27
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	14	0.22	0.01	0.22
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	13	0.49	0.24	0.63
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	13	0.36	0.12	0.39
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	13	0.3	0.11	0.28
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	12	0.51	0.38	0.44
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	12	0.4	0.42	0.15
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	12	0.4	0.42	0.15
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	12	0.4	0.42	0.15
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	10	1.21	0.12	1.19
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	10	0.47	0.13	0.49
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	10	0.47	0.13	0.49
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	10	0.47	0.13	0.49
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	10	0.26	0.16	0.2
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	10	0.26	0.16	0.2
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	10	0.26	0.16	0.2
(1,1775)	1:16:A:THR:HG21	1:17:A:GLU:HG3	10	0.26	0.16	0.2
(1,1775)	1:16:A:THR:HG22	1:17:A:GLU:HG3	10	0.26	0.16	0.2
(1,1775)	1:16:A:THR:HG23	1:17:A:GLU:HG3	10	0.26	0.16	0.2
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	10	0.26	0.18	0.2
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB2	10	0.22	0.04	0.22
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	10	0.22	0.04	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	9	1.06	0.77	1.6
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	9	1.06	0.77	1.6
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	9	1.06	0.77	1.6
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	9	0.42	0.3	0.28
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	9	0.33	0.29	0.17
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	9	0.28	0.04	0.28
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	9	0.23	0.03	0.23
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	9	0.22	0.0	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	9	0.22	0.0	0.22
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	9	0.21	0.01	0.21
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	9	0.16	0.01	0.16
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	8	0.51	0.37	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	8	0.35	0.01	0.36
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	8	0.32	0.14	0.3
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	8	0.32	0.14	0.3
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	8	0.32	0.14	0.3
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	8	0.31	0.01	0.31
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	8	0.29	0.01	0.29
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	8	0.28	0.29	0.18
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	8	0.28	0.29	0.18
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	8	0.28	0.29	0.18
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	8	0.19	0.01	0.18
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	8	0.18	0.05	0.18
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	8	0.18	0.06	0.17
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	8	0.18	0.06	0.17
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	8	0.18	0.06	0.17
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	7	1.33	0.82	1.26
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE2	7	1.33	0.82	1.26
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	7	0.87	0.05	0.88
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	7	0.49	0.08	0.52
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	7	0.49	0.08	0.52
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	7	0.49	0.08	0.52
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	7	0.34	0.43	0.16
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	7	0.34	0.43	0.16
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	7	0.34	0.43	0.16
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG11	7	0.34	0.43	0.16
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG12	7	0.34	0.43	0.16
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG13	7	0.34	0.43	0.16
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	6	0.22	0.02	0.22
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	6	0.18	0.07	0.15
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	6	0.16	0.0	0.16
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	6	0.16	0.03	0.15
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	6	0.16	0.03	0.15
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	6	0.16	0.03	0.15
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	5	1.71	0.05	1.7
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	5	1.29	0.34	1.42
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE1	5	1.22	0.18	1.24
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE2	5	1.22	0.18	1.24
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE1	5	1.22	0.18	1.24
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE2	5	1.22	0.18	1.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	5	0.9	0.05	0.88
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	5	0.9	0.05	0.88
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	5	0.9	0.05	0.88
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	5	0.8	0.05	0.78
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	5	0.8	0.05	0.78
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	5	0.8	0.05	0.78
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG2	5	0.66	0.03	0.65
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG3	5	0.66	0.03	0.65
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	5	0.57	0.01	0.57
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	5	0.51	0.01	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	5	0.51	0.01	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	5	0.51	0.01	0.52
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	5	0.48	0.0	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	5	0.48	0.0	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	5	0.48	0.0	0.48
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	5	0.42	0.02	0.43
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	5	0.25	0.06	0.26
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG2	5	0.24	0.08	0.23
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG3	5	0.24	0.08	0.23
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	5	0.24	0.03	0.22
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	5	0.2	0.08	0.15
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	5	0.2	0.08	0.15
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	5	0.2	0.08	0.15
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	5	0.15	0.02	0.15
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	5	0.14	0.0	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	5	0.14	0.0	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	5	0.14	0.0	0.14
(1,1698)	1:31:A:LYS:HA	1:31:A:LYS:HG2	4	0.73	0.03	0.73
(1,290)	1:28:A:TYR:HA	1:31:A:LYS:HG3	4	0.7	0.09	0.74
(1,1914)	1:109:A:GLN:HE21	1:37:A:PHE:HB3	4	0.53	0.3	0.56
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	4	0.53	0.3	0.45
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	4	0.53	0.3	0.45
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	4	0.53	0.3	0.45
(1,1443)	1:31:A:LYS:HA	1:31:A:LYS:HG2	4	0.31	0.03	0.31
(1,401)	1:82:A:ARG:HB2	1:82:A:ARG:HD2	4	0.28	0.09	0.24
(1,400)	1:82:A:ARG:HB3	1:82:A:ARG:HD2	4	0.27	0.07	0.31
(1,194)	1:34:A:LYS:H	1:34:A:LYS:HB2	4	0.26	0.03	0.27
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD11	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD12	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD13	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD11	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD12	4	0.25	0.15	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD13	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD11	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD12	4	0.25	0.15	0.19
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD13	4	0.25	0.15	0.19
(1,1425)	1:52:A:ASN:HB3	1:52:A:ASN:H	4	0.22	0.03	0.22
(1,304)	1:84:A:GLU:H	1:84:A:GLU:HG3	4	0.15	0.02	0.15
(1,1680)	1:98:A:CYS:HA	1:48:A:LYS:HG3	4	0.14	0.05	0.12
(1,747)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	4	0.13	0.03	0.12
(1,1188)	1:12:A:GLN:H	1:12:A:GLN:HG2	4	0.13	0.01	0.14
(1,1960)	1:30:A:GLU:HG3	1:27:A:ASP:HA	3	1.87	0.26	1.69
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE1	3	0.67	0.1	0.73
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE2	3	0.67	0.1	0.73
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE3	3	0.67	0.1	0.73
(1,150)	1:95:A:ASN:HA	1:92:A:ASN:HD22	3	0.62	0.32	0.69
(1,339)	1:30:A:GLU:HG2	1:30:A:GLU:H	3	0.55	0.05	0.54
(1,958)	1:110:A:LYS:HG2	1:110:A:LYS:HE3	3	0.48	0.04	0.49
(1,958)	1:110:A:LYS:HG2	1:110:A:LYS:HE2	3	0.48	0.04	0.49
(1,833)	1:91:A:LYS:H	1:91:A:LYS:HG3	3	0.45	0.25	0.28
(1,1399)	1:55:A:GLN:HA	1:55:A:GLN:HG2	3	0.43	0.0	0.43
(1,1298)	1:82:A:ARG:HB3	1:82:A:ARG:HD3	3	0.42	0.02	0.42
(1,1010)	1:30:A:GLU:HB3	1:30:A:GLU:HA	3	0.38	0.01	0.38
(1,782)	1:27:A:ASP:H	1:27:A:ASP:HB2	3	0.37	0.0	0.37
(1,736)	1:110:A:LYS:HB3	1:110:A:LYS:HG2	3	0.34	0.01	0.33
(1,728)	1:31:A:LYS:H	1:30:A:GLU:HB2	3	0.3	0.03	0.31
(1,69)	1:30:A:GLU:HG2	1:30:A:GLU:HA	3	0.28	0.02	0.28
(1,1758)	1:38:A:PRO:HD2	1:31:A:LYS:HD2	3	0.28	0.12	0.27
(1,504)	1:13:A:ARG:H	1:13:A:ARG:HB3	3	0.26	0.01	0.26
(1,177)	1:3:A:PHE:H	1:2:A:GLU:HB2	3	0.21	0.09	0.17
(1,1279)	1:31:A:LYS:HB3	1:31:A:LYS:HD3	3	0.14	0.03	0.14
(1,1716)	1:110:A:LYS:HA	1:110:A:LYS:HG3	3	0.14	0.01	0.13
(1,333)	1:36:A:GLU:HG3	1:36:A:GLU:HA	3	0.13	0.03	0.11
(1,614)	1:43:A:THR:HG21	1:38:A:PRO:HD3	3	0.13	0.02	0.14
(1,614)	1:43:A:THR:HG22	1:38:A:PRO:HD3	3	0.13	0.02	0.14
(1,614)	1:43:A:THR:HG23	1:38:A:PRO:HD3	3	0.13	0.02	0.14
(1,1020)	1:103:A:ARG:HB3	1:103:A:ARG:H	3	0.11	0.01	0.1
(1,679)	1:50:A:VAL:HB	1:47:A:ILE:HA	2	1.94	0.04	1.94
(1,175)	1:50:A:VAL:HG21	1:18:A:CYS:HB2	2	1.82	0.01	1.82
(1,175)	1:50:A:VAL:HG22	1:18:A:CYS:HB2	2	1.82	0.01	1.82
(1,175)	1:50:A:VAL:HG23	1:18:A:CYS:HB2	2	1.82	0.01	1.82
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG11	2	1.78	0.02	1.78
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG12	2	1.78	0.02	1.78
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG13	2	1.78	0.02	1.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG11	2	1.66	0.04	1.66
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG12	2	1.66	0.04	1.66
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG13	2	1.66	0.04	1.66
(1,1423)	1:50:A:VAL:HB	1:47:A:ILE:HA	2	1.59	0.04	1.59
(1,907)	1:50:A:VAL:HG21	1:18:A:CYS:HB3	2	1.42	0.03	1.42
(1,907)	1:50:A:VAL:HG22	1:18:A:CYS:HB3	2	1.42	0.03	1.42
(1,907)	1:50:A:VAL:HG23	1:18:A:CYS:HB3	2	1.42	0.03	1.42
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG11	2	1.38	0.0	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG12	2	1.38	0.0	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG13	2	1.38	0.0	1.38
(1,1928)	1:52:A:ASN:HD21	1:57:A:PHE:H	2	1.23	0.1	1.23
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD1	2	1.16	0.2	1.16
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD2	2	1.16	0.2	1.16
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD1	2	1.16	0.2	1.16
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD2	2	1.16	0.2	1.16
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD1	2	1.16	0.2	1.16
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD2	2	1.16	0.2	1.16
(1,337)	1:66:A:ASP:H	1:65:A:VAL:HB	2	1.08	0.01	1.08
(1,399)	1:65:A:VAL:HG21	1:65:A:VAL:H	2	1.06	0.01	1.06
(1,399)	1:65:A:VAL:HG22	1:65:A:VAL:H	2	1.06	0.01	1.06
(1,399)	1:65:A:VAL:HG23	1:65:A:VAL:H	2	1.06	0.01	1.06
(1,1808)	1:84:A:GLU:HA	1:87:A:LYS:HD3	2	1.02	0.48	1.02
(1,1808)	1:84:A:GLU:HA	1:87:A:LYS:HD2	2	1.02	0.48	1.02
(1,1631)	1:50:A:VAL:HG11	2:201:A:ACD:H42	2	0.99	0.09	0.99
(1,1631)	1:50:A:VAL:HG12	2:201:A:ACD:H42	2	0.99	0.09	0.99
(1,1631)	1:50:A:VAL:HG13	2:201:A:ACD:H42	2	0.99	0.09	0.99
(1,453)	1:50:A:VAL:HG21	1:15:A:ARG:HA	2	0.97	0.13	0.97
(1,453)	1:50:A:VAL:HG22	1:15:A:ARG:HA	2	0.97	0.13	0.97
(1,453)	1:50:A:VAL:HG23	1:15:A:ARG:HA	2	0.97	0.13	0.97
(1,1738)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,1738)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,1738)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,1844)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,1844)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,1844)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	2	0.97	0.13	0.97
(1,601)	1:96:A:ASN:H	1:92:A:ASN:HD22	2	0.95	0.53	0.95
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE1	2	0.78	0.14	0.78
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE2	2	0.78	0.14	0.78
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE1	2	0.78	0.14	0.78
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE2	2	0.78	0.14	0.78
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE1	2	0.78	0.14	0.78
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE2	2	0.78	0.14	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,992)	1:50:A:VAL:HG21	1:15:A:ARG:HA	2	0.76	0.14	0.76
(1,992)	1:50:A:VAL:HG22	1:15:A:ARG:HA	2	0.76	0.14	0.76
(1,992)	1:50:A:VAL:HG23	1:15:A:ARG:HA	2	0.76	0.14	0.76
(1,1144)	1:51:A:PHE:H	1:50:A:VAL:HB	2	0.68	0.01	0.68
(1,1883)	1:50:A:VAL:HG11	1:54:A:MET:HG3	2	0.6	0.07	0.6
(1,1883)	1:50:A:VAL:HG12	1:54:A:MET:HG3	2	0.6	0.07	0.6
(1,1883)	1:50:A:VAL:HG13	1:54:A:MET:HG3	2	0.6	0.07	0.6
(1,70)	1:18:A:CYS:HA	1:21:A:SER:HB3	2	0.5	0.15	0.5
(1,734)	1:50:A:VAL:HG21	1:50:A:VAL:HA	2	0.5	0.03	0.5
(1,734)	1:50:A:VAL:HG22	1:50:A:VAL:HA	2	0.5	0.03	0.5
(1,734)	1:50:A:VAL:HG23	1:50:A:VAL:HA	2	0.5	0.03	0.5
(1,1563)	1:92:A:ASN:H	1:91:A:LYS:HB2	2	0.5	0.03	0.5
(1,848)	1:7:A:THR:H	1:10:A:ASP:HB2	2	0.49	0.07	0.49
(1,173)	1:2:A:GLU:HA	1:2:A:GLU:HG3	2	0.46	0.0	0.46
(1,173)	1:2:A:GLU:HA	1:2:A:GLU:HG2	2	0.46	0.0	0.46
(1,1472)	1:50:A:VAL:HB	1:50:A:VAL:H	2	0.45	0.02	0.45
(1,574)	1:50:A:VAL:HG21	1:50:A:VAL:HA	2	0.4	0.02	0.4
(1,574)	1:50:A:VAL:HG22	1:50:A:VAL:HA	2	0.4	0.02	0.4
(1,574)	1:50:A:VAL:HG23	1:50:A:VAL:HA	2	0.4	0.02	0.4
(1,694)	1:12:A:GLN:HA	1:12:A:GLN:HG2	2	0.38	0.0	0.38
(1,694)	1:12:A:GLN:HA	1:12:A:GLN:HG3	2	0.38	0.0	0.38
(1,1651)	1:50:A:VAL:HG11	2:201:A:ACD:H41	2	0.38	0.11	0.38
(1,1651)	1:50:A:VAL:HG12	2:201:A:ACD:H41	2	0.38	0.11	0.38
(1,1651)	1:50:A:VAL:HG13	2:201:A:ACD:H41	2	0.38	0.11	0.38
(1,12)	1:22:A:LEU:H	1:21:A:SER:HB2	2	0.36	0.02	0.36
(1,1721)	1:54:A:MET:HA	1:54:A:MET:HG3	2	0.27	0.01	0.27
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG21	2	0.26	0.02	0.26
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG22	2	0.26	0.02	0.26
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG23	2	0.26	0.02	0.26
(1,583)	1:33:A:LYS:HA	1:33:A:LYS:HG2	2	0.23	0.01	0.23
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG11	2	0.22	0.02	0.22
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG12	2	0.22	0.02	0.22
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG13	2	0.22	0.02	0.22
(1,1569)	1:14:A:TYR:HD1	1:54:A:MET:HG3	2	0.22	0.08	0.22
(1,1569)	1:14:A:TYR:HD2	1:54:A:MET:HG3	2	0.22	0.08	0.22
(1,181)	1:11:A:LEU:H	1:10:A:ASP:HB2	2	0.18	0.04	0.18
(1,1193)	1:3:A:PHE:H	1:2:A:GLU:HA	2	0.16	0.01	0.16
(1,209)	1:65:A:VAL:HG21	1:65:A:VAL:HA	2	0.15	0.02	0.15
(1,209)	1:65:A:VAL:HG22	1:65:A:VAL:HA	2	0.15	0.02	0.15
(1,209)	1:65:A:VAL:HG23	1:65:A:VAL:HA	2	0.15	0.02	0.15
(1,463)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	2	0.15	0.02	0.15
(1,9)	1:90:A:ASP:H	1:90:A:ASP:HB3	2	0.15	0.04	0.15

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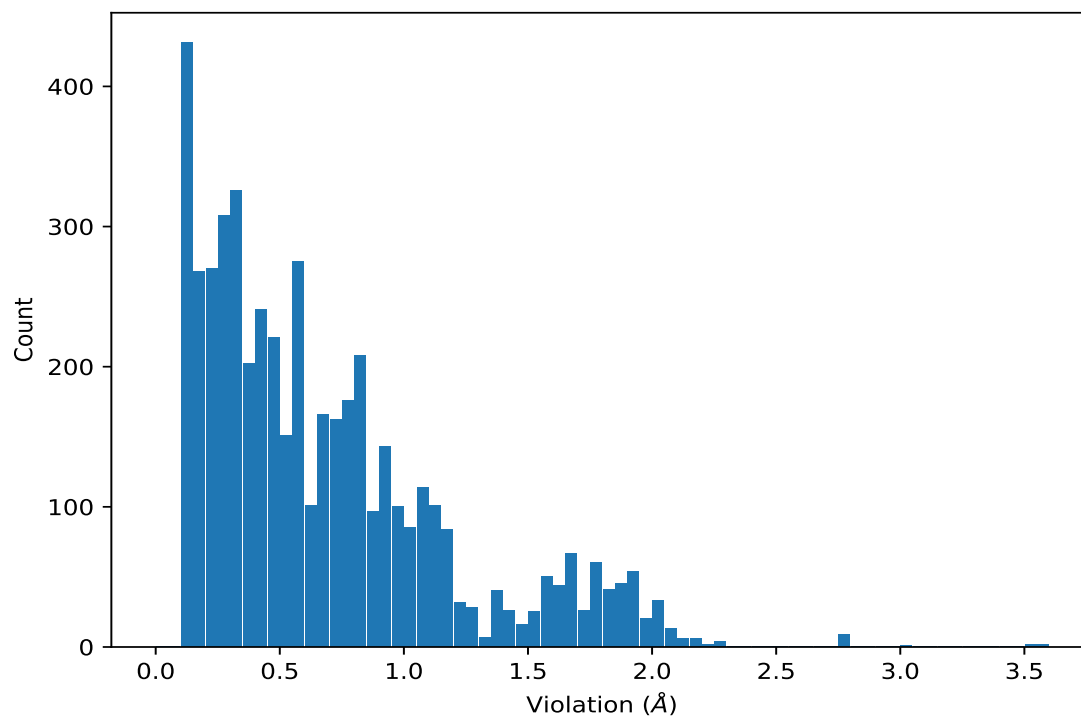
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1644)	1:11:A:LEU:HD11	2:201:A:ACD:H41	2	0.13	0.03	0.13
(1,1644)	1:11:A:LEU:HD12	2:201:A:ACD:H41	2	0.13	0.03	0.13
(1,1644)	1:11:A:LEU:HD13	2:201:A:ACD:H41	2	0.13	0.03	0.13
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG21	2	0.12	0.02	0.12
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG22	2	0.12	0.02	0.12
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG23	2	0.12	0.02	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD21	2	0.12	0.0	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD22	2	0.12	0.0	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD23	2	0.12	0.0	0.12
(1,266)	1:30:A:GLU:HG2	1:30:A:GLU:HA	2	0.12	0.02	0.12
(1,1275)	1:119:A:SER:HB2	1:119:A:SER:H	2	0.12	0.0	0.12
(1,49)	1:20:A:SER:H	1:20:A:SER:HB3	2	0.11	0.0	0.11
(1,945)	1:122:A:LYS:HB2	1:122:A:LYS:HA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	9	3.56
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	9	3.56
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	28	3.54
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	28	3.54
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE2	8	3.01
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	18	2.79
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	18	2.79
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	18	2.79
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	18	2.79
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	18	2.79
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	18	2.79
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	18	2.79
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	18	2.79
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	18	2.79
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	4	2.28
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	9	2.27
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	9	2.27
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	9	2.27
(1,1960)	1:30:A:GLU:HG3	1:27:A:ASP:HA	9	2.24
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	20	2.22
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	18	2.16
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	18	2.16
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	18	2.16
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	18	2.16
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	18	2.16
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	18	2.16
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	24	2.1
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	24	2.1
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	24	2.1
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	24	2.1
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	24	2.1
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	24	2.1
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	5	2.09
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	5	2.09
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	5	2.09
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	5	2.09
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	5	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	5	2.09
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	28	2.08
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	20	2.07
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	20	2.07
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	20	2.07
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	20	2.07
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	20	2.07
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	20	2.07
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	17	2.04
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	17	2.04
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	17	2.04
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	17	2.04
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	17	2.04
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	17	2.04
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	9	2.03
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	9	2.03
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	9	2.03
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	9	2.03
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	9	2.03
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	9	2.03
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	26	2.02
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	14	2.02
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	14	2.02
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	14	2.02
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	14	2.02
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	14	2.02
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	14	2.02
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	14	2.01
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	19	2.0
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	2	2.0
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	2	2.0
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	2	2.0
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	2	2.0
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	2	2.0
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	2	2.0
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	23	2.0
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	23	2.0
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	23	2.0
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	23	2.0
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	23	2.0
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	23	2.0
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	9	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	4	1.98
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	4	1.98
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	4	1.98
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	4	1.98
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	4	1.98
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	4	1.98
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	19	1.98
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	19	1.98
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	19	1.98
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	19	1.98
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	19	1.98
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	19	1.98
(1,679)	1:50:A:VAL:HB	1:47:A:ILE:HA	28	1.98
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	5	1.98
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	5	1.97
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	22	1.97
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	10	1.96
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	10	1.96
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	10	1.96
(1,1885)	1:89:A:VAL:HG21	1:85:A:VAL:HG11	10	1.95
(1,1885)	1:89:A:VAL:HG21	1:85:A:VAL:HG12	10	1.95
(1,1885)	1:89:A:VAL:HG21	1:85:A:VAL:HG13	10	1.95
(1,1885)	1:89:A:VAL:HG22	1:85:A:VAL:HG11	10	1.95
(1,1885)	1:89:A:VAL:HG22	1:85:A:VAL:HG12	10	1.95
(1,1885)	1:89:A:VAL:HG22	1:85:A:VAL:HG13	10	1.95
(1,1885)	1:89:A:VAL:HG23	1:85:A:VAL:HG11	10	1.95
(1,1885)	1:89:A:VAL:HG23	1:85:A:VAL:HG12	10	1.95
(1,1885)	1:89:A:VAL:HG23	1:85:A:VAL:HG13	10	1.95
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	27	1.95
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	3	1.94
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	3	1.94
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	3	1.94
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	3	1.94
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	3	1.94
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	3	1.94
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	28	1.94
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	28	1.94
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	28	1.94
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	28	1.94
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	28	1.94
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	28	1.94
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	11	1.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	11	1.94
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	11	1.94
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	11	1.94
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	11	1.94
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	11	1.94
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	13	1.93
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	27	1.93
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	27	1.93
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	27	1.93
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	27	1.93
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	27	1.93
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	27	1.93
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	7	1.92
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	22	1.92
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	22	1.92
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	22	1.92
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	22	1.92
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	22	1.92
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	22	1.92
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	20	1.92
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	10	1.91
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	18	1.91
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	11	1.91
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	11	1.91
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	11	1.91
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	11	1.91
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	11	1.91
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	11	1.91
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	7	1.91
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	7	1.91
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	7	1.91
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	11	1.9
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	16	1.9
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	30	1.9
(1,679)	1:50:A:VAL:HB	1:47:A:ILE:HA	18	1.9
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	8	1.9
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	8	1.9
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	8	1.9
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	8	1.9
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	8	1.9
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	8	1.9
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	3	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	6	1.89
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	8	1.89
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	21	1.89
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	14	1.89
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	14	1.89
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	14	1.89
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	14	1.89
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	14	1.89
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	14	1.89
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	11	1.88
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	11	1.88
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	11	1.88
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	4	1.88
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	26	1.88
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	8	1.87
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	8	1.87
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	8	1.87
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	8	1.87
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	8	1.87
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	8	1.87
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	15	1.86
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	15	1.86
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	15	1.86
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	15	1.86
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	15	1.86
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	15	1.86
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	2	1.85
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	15	1.85
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	21	1.85
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	21	1.85
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	21	1.85
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	21	1.85
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	21	1.85
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	21	1.85
(1,653)	1:78:A:ALA:HA	1:69:A:VAL:HG11	1	1.84
(1,653)	1:78:A:ALA:HA	1:69:A:VAL:HG12	1	1.84
(1,653)	1:78:A:ALA:HA	1:69:A:VAL:HG13	1	1.84
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	10	1.84
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	10	1.84
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	10	1.84
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	10	1.84
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	10	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	10	1.84
(1,175)	1:50:A:VAL:HG21	1:18:A:CYS:HB2	18	1.83
(1,175)	1:50:A:VAL:HG22	1:18:A:CYS:HB2	18	1.83
(1,175)	1:50:A:VAL:HG23	1:18:A:CYS:HB2	18	1.83
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	13	1.83
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	13	1.83
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	13	1.83
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	24	1.82
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	29	1.82
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	29	1.82
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	29	1.82
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	29	1.82
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	29	1.82
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	29	1.82
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	22	1.81
(1,175)	1:50:A:VAL:HG21	1:18:A:CYS:HB2	28	1.81
(1,175)	1:50:A:VAL:HG22	1:18:A:CYS:HB2	28	1.81
(1,175)	1:50:A:VAL:HG23	1:18:A:CYS:HB2	28	1.81
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	23	1.8
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	25	1.8
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	26	1.8
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	26	1.8
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	26	1.8
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	26	1.8
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	26	1.8
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	26	1.8
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	30	1.8
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	30	1.8
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	30	1.8
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	30	1.8
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	30	1.8
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	30	1.8
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	13	1.8
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	1	1.79
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	12	1.79
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	22	1.79
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	25	1.79
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	25	1.79
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	25	1.79
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	25	1.79
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	25	1.79
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	25	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG11	6	1.79
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG12	6	1.79
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG13	6	1.79
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	17	1.78
(1,1151)	1:104:A:GLY:HA3	1:107:A:CYS:HB2	29	1.78
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	13	1.78
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	13	1.78
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	13	1.78
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	13	1.78
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	13	1.78
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	13	1.78
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	28	1.77
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	28	1.77
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	28	1.77
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	28	1.77
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	28	1.77
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	28	1.77
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	7	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	7	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	7	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	7	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	7	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	7	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	10	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	10	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	10	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	10	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	10	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	10	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	12	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	12	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	12	1.76
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	12	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	12	1.76
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	12	1.76
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG11	13	1.76
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG12	13	1.76
(1,920)	1:82:A:ARG:HA	1:65:A:VAL:HG13	13	1.76
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	1	1.75
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	1	1.75
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	1	1.75
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	1	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	1	1.75
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	1	1.75
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	7	1.75
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	15	1.75
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	15	1.75
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	15	1.75
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	15	1.75
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	15	1.75
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	15	1.75
(1,1972)	1:36:A:GLU:HB3	1:38:A:PRO:HD2	27	1.74
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	9	1.73
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	9	1.73
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	9	1.73
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	9	1.73
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	9	1.73
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	9	1.73
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	12	1.73
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	12	1.73
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	12	1.73
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	12	1.73
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	12	1.73
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	12	1.73
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	12	1.73
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	12	1.73
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	12	1.73
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	8	1.72
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	26	1.72
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	24	1.72
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	24	1.72
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	24	1.72
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	24	1.72
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	24	1.72
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	24	1.72
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	29	1.71
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	3	1.71
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG11	13	1.7
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG12	13	1.7
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG13	13	1.7
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	20	1.7
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	20	1.7
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	20	1.7
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	20	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	20	1.7
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	20	1.7
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	21	1.7
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	21	1.7
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	21	1.7
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	21	1.7
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	21	1.7
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	21	1.7
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	10	1.7
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	23	1.7
(1,1960)	1:30:A:GLU:HG3	1:27:A:ASP:HA	19	1.69
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	22	1.69
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	22	1.69
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	22	1.69
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	22	1.69
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	22	1.69
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	22	1.69
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	6	1.68
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	6	1.68
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	6	1.68
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	6	1.68
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	6	1.68
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	6	1.68
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	7	1.68
(1,1960)	1:30:A:GLU:HG3	1:27:A:ASP:HA	22	1.67
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	6	1.67
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	6	1.67
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	6	1.67
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	6	1.67
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	6	1.67
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	6	1.67
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	5	1.67
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	5	1.67
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	5	1.67
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	5	1.67
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	5	1.67
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	5	1.67
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	25	1.67
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	25	1.67
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	25	1.67
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	25	1.67
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	25	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	25	1.67
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	16	1.66
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	1	1.66
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	1	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	1	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	1	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	1	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	1	1.66
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	7	1.66
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	7	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	7	1.66
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	7	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	7	1.66
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	7	1.66
(1,496)	1:57:A:PHE:HA	1:64:A:LEU:HG	12	1.66
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	10	1.66
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	10	1.66
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	10	1.66
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	26	1.65
(1,1423)	1:50:A:VAL:HB	1:47:A:ILE:HA	28	1.63
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	26	1.63
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	26	1.63
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	26	1.63
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	26	1.63
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	26	1.63
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	26	1.63
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	6	1.62
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	4	1.62
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	4	1.62
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	4	1.62
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	4	1.62
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	4	1.62
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	4	1.62
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG11	6	1.61
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG12	6	1.61
(1,1359)	1:82:A:ARG:HG2	1:65:A:VAL:HG13	6	1.61
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	21	1.61
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	9	1.6
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	3	1.6
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	3	1.6
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	3	1.6
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	3	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	3	1.6
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	3	1.6
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	16	1.6
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	16	1.6
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	16	1.6
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	16	1.6
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	16	1.6
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	16	1.6
(1,409)	1:78:A:ALA:HB1	1:69:A:VAL:HG11	1	1.6
(1,409)	1:78:A:ALA:HB1	1:69:A:VAL:HG12	1	1.6
(1,409)	1:78:A:ALA:HB1	1:69:A:VAL:HG13	1	1.6
(1,409)	1:78:A:ALA:HB2	1:69:A:VAL:HG11	1	1.6
(1,409)	1:78:A:ALA:HB2	1:69:A:VAL:HG12	1	1.6
(1,409)	1:78:A:ALA:HB2	1:69:A:VAL:HG13	1	1.6
(1,409)	1:78:A:ALA:HB3	1:69:A:VAL:HG11	1	1.6
(1,409)	1:78:A:ALA:HB3	1:69:A:VAL:HG12	1	1.6
(1,409)	1:78:A:ALA:HB3	1:69:A:VAL:HG13	1	1.6
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	29	1.6
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	29	1.6
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	29	1.6
(1,1112)	1:78:A:ALA:HB1	1:69:A:VAL:HG11	1	1.59
(1,1112)	1:78:A:ALA:HB1	1:69:A:VAL:HG12	1	1.59
(1,1112)	1:78:A:ALA:HB1	1:69:A:VAL:HG13	1	1.59
(1,1112)	1:78:A:ALA:HB2	1:69:A:VAL:HG11	1	1.59
(1,1112)	1:78:A:ALA:HB2	1:69:A:VAL:HG12	1	1.59
(1,1112)	1:78:A:ALA:HB2	1:69:A:VAL:HG13	1	1.59
(1,1112)	1:78:A:ALA:HB3	1:69:A:VAL:HG11	1	1.59
(1,1112)	1:78:A:ALA:HB3	1:69:A:VAL:HG12	1	1.59
(1,1112)	1:78:A:ALA:HB3	1:69:A:VAL:HG13	1	1.59
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	7	1.59
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	17	1.59
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	17	1.59
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	17	1.59
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	17	1.59
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	17	1.59
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	17	1.59
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	18	1.59
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	18	1.59
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	18	1.59
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	18	1.59
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	18	1.59
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	18	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,774)	1:82:A:ARG:HA	1:69:A:VAL:HG21	1	1.58
(1,774)	1:82:A:ARG:HA	1:69:A:VAL:HG22	1	1.58
(1,774)	1:82:A:ARG:HA	1:69:A:VAL:HG23	1	1.58
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	7	1.58
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	29	1.57
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	29	1.57
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	29	1.57
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	29	1.57
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	29	1.57
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	29	1.57
(1,347)	1:73:A:ALA:HB1	1:69:A:VAL:HG11	1	1.57
(1,347)	1:73:A:ALA:HB1	1:69:A:VAL:HG12	1	1.57
(1,347)	1:73:A:ALA:HB1	1:69:A:VAL:HG13	1	1.57
(1,347)	1:73:A:ALA:HB2	1:69:A:VAL:HG11	1	1.57
(1,347)	1:73:A:ALA:HB2	1:69:A:VAL:HG12	1	1.57
(1,347)	1:73:A:ALA:HB2	1:69:A:VAL:HG13	1	1.57
(1,347)	1:73:A:ALA:HB3	1:69:A:VAL:HG11	1	1.57
(1,347)	1:73:A:ALA:HB3	1:69:A:VAL:HG12	1	1.57
(1,347)	1:73:A:ALA:HB3	1:69:A:VAL:HG13	1	1.57
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	8	1.56
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	23	1.56
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	23	1.56
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	23	1.56
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	23	1.56
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	23	1.56
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	23	1.56
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	24	1.56
(1,1423)	1:50:A:VAL:HB	1:47:A:ILE:HA	18	1.55
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	18	1.54
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	27	1.54
(1,703)	1:78:A:ALA:HA	1:69:A:VAL:HG11	1	1.54
(1,703)	1:78:A:ALA:HA	1:69:A:VAL:HG12	1	1.54
(1,703)	1:78:A:ALA:HA	1:69:A:VAL:HG13	1	1.54
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	27	1.52
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	27	1.52
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	27	1.52
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	27	1.52
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	27	1.52
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	27	1.52
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	30	1.51
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	19	1.51
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	19	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	19	1.51
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	19	1.51
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	19	1.51
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	19	1.51
(1,1808)	1:84:A:GLU:HA	1:87:A:LYS:HD2	29	1.5
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	2	1.5
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	2	1.5
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	2	1.5
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	2	1.5
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	2	1.5
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	2	1.5
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	6	1.48
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	6	1.48
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	6	1.48
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	6	1.48
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	6	1.48
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	6	1.48
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	6	1.48
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	6	1.48
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	6	1.48
(1,601)	1:96:A:ASN:H	1:92:A:ASN:HD22	19	1.48
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	6	1.47
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	22	1.47
(1,1395)	1:82:A:ARG:HA	1:69:A:VAL:HG21	1	1.46
(1,1395)	1:82:A:ARG:HA	1:69:A:VAL:HG22	1	1.46
(1,1395)	1:82:A:ARG:HA	1:69:A:VAL:HG23	1	1.46
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	6	1.46
(1,907)	1:50:A:VAL:HG21	1:18:A:CYS:HB3	28	1.45
(1,907)	1:50:A:VAL:HG22	1:18:A:CYS:HB3	28	1.45
(1,907)	1:50:A:VAL:HG23	1:18:A:CYS:HB3	28	1.45
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	21	1.45
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	9	1.44
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	13	1.43
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	13	1.43
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	13	1.43
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	13	1.43
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	13	1.43
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	13	1.43
(1,74)	1:85:A:VAL:HG21	1:108:A:PHE:HE1	10	1.43
(1,74)	1:85:A:VAL:HG21	1:108:A:PHE:HE2	10	1.43
(1,74)	1:85:A:VAL:HG22	1:108:A:PHE:HE1	10	1.43
(1,74)	1:85:A:VAL:HG22	1:108:A:PHE:HE2	10	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:85:A:VAL:HG23	1:108:A:PHE:HE1	10	1.43
(1,74)	1:85:A:VAL:HG23	1:108:A:PHE:HE2	10	1.43
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE1	1	1.42
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE2	1	1.42
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	20	1.42
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	6	1.42
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	6	1.42
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	6	1.42
(1,1097)	1:86:A:LEU:HA	1:85:A:VAL:HG11	10	1.41
(1,1097)	1:86:A:LEU:HA	1:85:A:VAL:HG12	10	1.41
(1,1097)	1:86:A:LEU:HA	1:85:A:VAL:HG13	10	1.41
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	22	1.4
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	18	1.4
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	27	1.4
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE1	22	1.39
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE2	22	1.39
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE2	14	1.39
(1,907)	1:50:A:VAL:HG21	1:18:A:CYS:HB3	18	1.39
(1,907)	1:50:A:VAL:HG22	1:18:A:CYS:HB3	18	1.39
(1,907)	1:50:A:VAL:HG23	1:18:A:CYS:HB3	18	1.39
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	14	1.38
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	27	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG11	6	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG12	6	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG13	6	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG11	13	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG12	13	1.38
(1,634)	1:82:A:ARG:HG3	1:65:A:VAL:HG13	13	1.38
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	21	1.38
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG11	10	1.37
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG12	10	1.37
(1,1836)	1:68:A:LEU:HG	1:85:A:VAL:HG13	10	1.37
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	8	1.37
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	8	1.37
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	8	1.37
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	8	1.37
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	8	1.37
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	8	1.37
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	8	1.37
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	8	1.37
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	8	1.37
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	29	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	29	1.37
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	29	1.37
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD1	18	1.36
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD2	18	1.36
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD1	18	1.36
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD2	18	1.36
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD1	18	1.36
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD2	18	1.36
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	8	1.35
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	30	1.34
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	30	1.34
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	30	1.34
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	30	1.34
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	16	1.34
(1,1928)	1:52:A:ASN:HD21	1:57:A:PHE:H	25	1.33
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	30	1.3
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	21	1.29
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	21	1.29
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	21	1.29
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	21	1.29
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	21	1.29
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	21	1.29
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	21	1.29
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	21	1.29
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	21	1.29
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	28	1.29
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	12	1.28
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	9	1.28
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	6	1.26
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	10	1.26
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	10	1.26
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	10	1.26
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	19	1.25
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	12	1.25
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	18	1.25
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	1	1.25
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	1	1.25
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	1	1.25
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	1	1.25
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	1	1.25
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	1	1.25
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	1	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	1	1.25
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	1	1.25
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE1	4	1.24
(1,1984)	1:53:A:LYS:HD2	1:14:A:TYR:HE2	4	1.24
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	15	1.24
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	22	1.24
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	22	1.24
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	22	1.24
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	22	1.24
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	22	1.24
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	22	1.24
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	22	1.24
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	22	1.24
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	22	1.24
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	18	1.24
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	10	1.24
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	14	1.24
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	19	1.22
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	6	1.22
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	3	1.22
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	5	1.21
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	5	1.21
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	5	1.21
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	5	1.21
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	5	1.21
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	5	1.21
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	5	1.21
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	5	1.21
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	5	1.21
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	3	1.21
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	3	1.21
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	3	1.21
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	13	1.21
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	10	1.21
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	23	1.2
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	23	1.2
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	23	1.2
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	28	1.2
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	28	1.2
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	28	1.2
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	1	1.2
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE1	16	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:5:A:VAL:HG21	1:3:A:PHE:HE2	16	1.2
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE1	16	1.2
(1,1140)	1:5:A:VAL:HG22	1:3:A:PHE:HE2	16	1.2
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE1	16	1.2
(1,1140)	1:5:A:VAL:HG23	1:3:A:PHE:HE2	16	1.2
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	12	1.2
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	25	1.19
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	25	1.19
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	25	1.19
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	7	1.19
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	22	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	3	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	3	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	3	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	3	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	3	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	3	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	3	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	3	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	3	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	15	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	15	1.19
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	15	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	15	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	15	1.19
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	15	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	15	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	15	1.19
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	15	1.19
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	2	1.18
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	2	1.18
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	2	1.18
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	12	1.18
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	12	1.18
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	12	1.18
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	21	1.18
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	21	1.18
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	21	1.18
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	29	1.18
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	29	1.18
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	29	1.18
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	17	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	17	1.18
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	17	1.18
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	14	1.18
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	18	1.18
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	16	1.18
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	1	1.18
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	1	1.18
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	1	1.18
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	12	1.17
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	15	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	3	1.17
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	3	1.17
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	3	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	6	1.17
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	6	1.17
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	6	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	13	1.17
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	13	1.17
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	13	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	15	1.17
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	15	1.17
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	15	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	24	1.17
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	24	1.17
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	24	1.17
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	2	1.17
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	5	1.16
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	5	1.16
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	5	1.16
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	19	1.16
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	19	1.16
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	19	1.16
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	10	1.16
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	17	1.16
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	4	1.15
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	4	1.15
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	4	1.15
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	10	1.15
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	10	1.15
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	10	1.15
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	11	1.15
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	11	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	11	1.15
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	26	1.15
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	26	1.15
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	26	1.15
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	27	1.15
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	27	1.15
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	27	1.15
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	24	1.15
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	30	1.15
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	20	1.15
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	20	1.15
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	20	1.15
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	26	1.15
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	26	1.15
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	26	1.15
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	8	1.14
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	14	1.14
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	14	1.14
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	14	1.14
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	16	1.14
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	16	1.14
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	16	1.14
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	18	1.14
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	18	1.14
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	18	1.14
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	20	1.14
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	20	1.14
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	20	1.14
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	25	1.14
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	25	1.14
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	25	1.14
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	25	1.14
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	25	1.14
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	25	1.14
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	25	1.14
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	25	1.14
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	25	1.14
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	17	1.14
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	28	1.14
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	14	1.14
(1,1972)	1:36:A:GLU:HB3	1:38:A:PRO:HD2	28	1.13
(1,1928)	1:52:A:ASN:HD21	1:57:A:PHE:H	28	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	1	1.13
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	1	1.13
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	1	1.13
(1,1972)	1:36:A:GLU:HB3	1:38:A:PRO:HD2	26	1.12
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	9	1.12
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	7	1.12
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	29	1.12
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	29	1.12
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	29	1.12
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	29	1.12
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	29	1.12
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	29	1.12
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	29	1.12
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	29	1.12
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	29	1.12
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	5	1.12
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	5	1.12
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	5	1.12
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	10	1.12
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	10	1.12
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	10	1.12
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	6	1.11
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	6	1.11
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	6	1.11
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	14	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	13	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	13	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	13	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	13	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	13	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	13	1.1
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	13	1.1
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	13	1.1
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	13	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	24	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	24	1.1
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	24	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	24	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	24	1.1
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	24	1.1
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	24	1.1
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	24	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	24	1.1
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	8	1.1
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	8	1.1
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	8	1.1
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	11	1.1
(1,453)	1:50:A:VAL:HG21	1:15:A:ARG:HA	18	1.1
(1,453)	1:50:A:VAL:HG22	1:15:A:ARG:HA	18	1.1
(1,453)	1:50:A:VAL:HG23	1:15:A:ARG:HA	18	1.1
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	4	1.1
(1,1844)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	28	1.09
(1,1844)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	28	1.09
(1,1844)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	28	1.09
(1,1738)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	28	1.09
(1,1738)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	28	1.09
(1,1738)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	28	1.09
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	14	1.09
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	14	1.09
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	14	1.09
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	11	1.09
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	11	1.09
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	11	1.09
(1,446)	1:82:A:ARG:HG3	1:69:A:VAL:HG21	1	1.09
(1,446)	1:82:A:ARG:HG3	1:69:A:VAL:HG22	1	1.09
(1,446)	1:82:A:ARG:HG3	1:69:A:VAL:HG23	1	1.09
(1,337)	1:66:A:ASP:H	1:65:A:VAL:HB	6	1.09
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	11	1.08
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	3	1.08
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	4	1.08
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	4	1.08
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	4	1.08
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	4	1.08
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	4	1.08
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	4	1.08
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	4	1.08
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	4	1.08
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	4	1.08
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	4	1.08
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	18	1.08
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	18	1.08
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	18	1.08
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	28	1.08
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	28	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	28	1.08
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	29	1.08
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	29	1.08
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	29	1.08
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	28	1.08
(1,337)	1:66:A:ASP:H	1:65:A:VAL:HB	13	1.08
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	22	1.07
(1,1848)	1:89:A:VAL:HG11	1:63:A:PRO:HG3	8	1.07
(1,1848)	1:89:A:VAL:HG12	1:63:A:PRO:HG3	8	1.07
(1,1848)	1:89:A:VAL:HG13	1:63:A:PRO:HG3	8	1.07
(1,1631)	1:50:A:VAL:HG11	2:201:A:ACD:H42	18	1.07
(1,1631)	1:50:A:VAL:HG12	2:201:A:ACD:H42	18	1.07
(1,1631)	1:50:A:VAL:HG13	2:201:A:ACD:H42	18	1.07
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	16	1.07
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	23	1.07
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	23	1.07
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	23	1.07
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	2	1.07
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	28	1.07
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	9	1.07
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	9	1.07
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	9	1.07
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	9	1.07
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	9	1.07
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	9	1.07
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	9	1.07
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	9	1.07
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	9	1.07
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	15	1.07
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	15	1.07
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	15	1.07
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	16	1.07
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	16	1.07
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	16	1.07
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	21	1.07
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	21	1.07
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	21	1.07
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	22	1.07
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	22	1.07
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	22	1.07
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	25	1.07
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	25	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	25	1.07
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	4	1.07
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	8	1.07
(1,399)	1:65:A:VAL:HG21	1:65:A:VAL:H	13	1.07
(1,399)	1:65:A:VAL:HG22	1:65:A:VAL:H	13	1.07
(1,399)	1:65:A:VAL:HG23	1:65:A:VAL:H	13	1.07
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	24	1.06
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	17	1.06
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	27	1.06
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	29	1.06
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	20	1.06
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	20	1.06
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	20	1.06
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	20	1.06
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	20	1.06
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	20	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	20	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	20	1.06
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	20	1.06
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	13	1.06
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	13	1.06
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	13	1.06
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	14	1.06
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	14	1.06
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	14	1.06
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	26	1.06
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	26	1.06
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	26	1.06
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	3	1.06
(1,399)	1:65:A:VAL:HG21	1:65:A:VAL:H	6	1.06
(1,399)	1:65:A:VAL:HG22	1:65:A:VAL:H	6	1.06
(1,399)	1:65:A:VAL:HG23	1:65:A:VAL:H	6	1.06
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	12	1.06
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	10	1.05
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	15	1.05
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	13	1.05
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	29	1.05
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	10	1.05
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	9	1.05
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE1	10	1.04
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE2	10	1.04
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	21	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	21	1.04
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	21	1.04
(1,969)	1:70:A:HIS:HD2	1:70:A:HIS:H	16	1.04
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	6	1.04
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	14	1.03
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	6	1.03
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	26	1.03
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	26	1.03
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	26	1.03
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	10	1.03
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	10	1.03
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	10	1.03
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	10	1.03
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	10	1.03
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	10	1.03
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	10	1.03
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	10	1.03
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	10	1.03
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	14	1.03
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	14	1.03
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	14	1.03
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	2	1.03
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	2	1.03
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	2	1.03
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	24	1.03
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	24	1.03
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	24	1.03
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	8	1.03
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	5	1.03
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	5	1.03
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	5	1.03
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	22	1.02
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	23	1.02
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	9	1.02
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	9	1.02
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	9	1.02
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	23	1.02
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	23	1.02
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	23	1.02
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	6	1.01
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	6	1.01
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	6	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	20	1.01
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	5	1.01
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	5	1.01
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	5	1.01
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	25	1.01
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	25	1.01
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	25	1.01
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	13	1.01
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	22	1.01
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	24	1.01
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	7	1.01
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	7	1.01
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	7	1.01
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	30	1.01
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	30	1.01
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	30	1.01
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	2	1.01
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	2	1.01
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	2	1.01
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	1	1.01
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	28	1.0
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	26	1.0
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	3	1.0
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	8	1.0
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	20	1.0
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	8	1.0
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	8	1.0
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	8	1.0
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	3	1.0
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	3	1.0
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	3	1.0
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	4	1.0
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	4	1.0
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	4	1.0
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	17	1.0
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	17	1.0
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	17	1.0
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	20	1.0
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	20	1.0
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	20	1.0
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE1	14	0.99
(1,1984)	1:53:A:LYS:HD3	1:14:A:TYR:HE2	14	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1600)	1:104:A:GLY:HA2	2:201:A:ACD:H201	19	0.99
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	6	0.99
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	6	0.99
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	6	0.99
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	13	0.99
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	13	0.99
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	13	0.99
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	15	0.99
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	12	0.99
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	12	0.99
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	12	0.99
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	27	0.99
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	27	0.99
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	27	0.99
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	16	0.99
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	24	0.99
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	16	0.99
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	4	0.98
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	8	0.98
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	8	0.98
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	6	0.98
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	5	0.98
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	9	0.98
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	25	0.98
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	25	0.98
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	25	0.98
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	26	0.98
(1,805)	1:65:A:VAL:HA	1:85:A:VAL:HG11	10	0.98
(1,805)	1:65:A:VAL:HA	1:85:A:VAL:HG12	10	0.98
(1,805)	1:65:A:VAL:HA	1:85:A:VAL:HG13	10	0.98
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD1	30	0.98
(1,533)	1:5:A:VAL:HG21	1:3:A:PHE:HD2	30	0.98
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD1	30	0.98
(1,533)	1:5:A:VAL:HG22	1:3:A:PHE:HD2	30	0.98
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD1	30	0.98
(1,533)	1:5:A:VAL:HG23	1:3:A:PHE:HD2	30	0.98
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	3	0.98
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	3	0.98
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	3	0.98
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	24	0.98
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	24	0.98
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	24	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,150)	1:95:A:ASN:HA	1:92:A:ASN:HD22	19	0.98
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	4	0.97
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	23	0.97
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	23	0.97
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	23	0.97
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	26	0.97
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	26	0.97
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	26	0.97
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	27	0.97
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	27	0.97
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	27	0.97
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	26	0.97
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	17	0.97
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	17	0.97
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	17	0.97
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	17	0.97
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	17	0.97
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	17	0.97
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	17	0.97
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	17	0.97
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	17	0.97
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD1	28	0.97
(1,1233)	1:50:A:VAL:HG11	1:51:A:PHE:HD2	28	0.97
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD1	28	0.97
(1,1233)	1:50:A:VAL:HG12	1:51:A:PHE:HD2	28	0.97
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD1	28	0.97
(1,1233)	1:50:A:VAL:HG13	1:51:A:PHE:HD2	28	0.97
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	1	0.97
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	1	0.97
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	1	0.97
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	21	0.97
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	21	0.97
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	21	0.97
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	29	0.96
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	16	0.96
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	16	0.96
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	16	0.96
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	16	0.96
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	16	0.96
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	16	0.96
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	16	0.96
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	16	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	16	0.96
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	5	0.96
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	5	0.96
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	5	0.96
(1,1212)	1:5:A:VAL:HG11	1:6:A:SER:H	19	0.96
(1,1212)	1:5:A:VAL:HG12	1:6:A:SER:H	19	0.96
(1,1212)	1:5:A:VAL:HG13	1:6:A:SER:H	19	0.96
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	13	0.96
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	13	0.96
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	13	0.96
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	19	0.96
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	26	0.96
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	26	0.96
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	26	0.96
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	12	0.95
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	11	0.95
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	28	0.95
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	28	0.95
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	28	0.95
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	28	0.95
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	28	0.95
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	28	0.95
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	28	0.95
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	28	0.95
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	28	0.95
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	7	0.95
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	7	0.95
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	7	0.95
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	15	0.95
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	25	0.95
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	25	0.95
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	25	0.95
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	27	0.95
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	27	0.95
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	27	0.95
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	30	0.94
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	11	0.94
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	11	0.94
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	11	0.94
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	1	0.94
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	6	0.94
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	7	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	12	0.94
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	17	0.94
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	23	0.94
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	4	0.94
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	28	0.94
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	13	0.94
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	13	0.94
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	13	0.94
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	19	0.93
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	27	0.93
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	27	0.93
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	27	0.93
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	27	0.93
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	27	0.93
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	27	0.93
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	27	0.93
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	27	0.93
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	27	0.93
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	20	0.93
(1,1006)	1:70:A:HIS:H	1:69:A:VAL:HB	1	0.93
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	2	0.93
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	7	0.93
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	27	0.93
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	6	0.93
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	6	0.93
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	6	0.93
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	23	0.93
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	23	0.93
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	23	0.93
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	5	0.93
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	5	0.93
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	5	0.93
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	20	0.92
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	20	0.92
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	20	0.92
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	30	0.92
(1,1583)	1:71:A:GLN:HG2	2:201:A:ACD:H11	29	0.92
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	1	0.92
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	9	0.92
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	19	0.92
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	19	0.92
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	19	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	19	0.92
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	19	0.92
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	19	0.92
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	19	0.92
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	19	0.92
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	19	0.92
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	24	0.92
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	24	0.92
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	24	0.92
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	2	0.92
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE1	28	0.92
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE2	28	0.92
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE1	28	0.92
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE2	28	0.92
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE1	28	0.92
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE2	28	0.92
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	30	0.92
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	30	0.92
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	30	0.92
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	10	0.92
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	10	0.92
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	10	0.92
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	20	0.92
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	20	0.92
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	20	0.92
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	26	0.92
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	26	0.92
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	26	0.92
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	11	0.91
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	21	0.91
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	21	0.91
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	21	0.91
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	8	0.91
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	9	0.91
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	23	0.91
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	1	0.91
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	30	0.91
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	30	0.91
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	30	0.91
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	30	0.91
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	30	0.91
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	30	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	30	0.91
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	30	0.91
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	30	0.91
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	22	0.91
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	22	0.91
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	22	0.91
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	24	0.91
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	24	0.91
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	24	0.91
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	15	0.9
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	15	0.9
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	15	0.9
(1,1631)	1:50:A:VAL:HG11	2:201:A:ACD:H42	28	0.9
(1,1631)	1:50:A:VAL:HG12	2:201:A:ACD:H42	28	0.9
(1,1631)	1:50:A:VAL:HG13	2:201:A:ACD:H42	28	0.9
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	9	0.9
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	29	0.9
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	29	0.9
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	5	0.9
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	18	0.9
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	21	0.9
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	18	0.9
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	18	0.9
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	18	0.9
(1,677)	1:86:A:LEU:H	1:85:A:VAL:HB	10	0.9
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	4	0.9
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	4	0.9
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	4	0.9
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	12	0.9
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	12	0.9
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	12	0.9
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	15	0.89
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	4	0.89
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	25	0.89
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	8	0.89
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	14	0.89
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	19	0.89
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	28	0.89
(1,1445)	1:70:A:HIS:HB3	1:67:A:ASN:HA	25	0.89
(1,992)	1:50:A:VAL:HG21	1:15:A:ARG:HA	18	0.89
(1,992)	1:50:A:VAL:HG22	1:15:A:ARG:HA	18	0.89
(1,992)	1:50:A:VAL:HG23	1:15:A:ARG:HA	18	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	15	0.89
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	15	0.89
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	15	0.89
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	19	0.89
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	19	0.89
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	19	0.89
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	18	0.89
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	14	0.89
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	14	0.89
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	14	0.89
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	27	0.89
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	27	0.89
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	27	0.89
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	3	0.88
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	7	0.88
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	7	0.88
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	7	0.88
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	23	0.88
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	23	0.88
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	23	0.88
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	21	0.88
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	9	0.88
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	23	0.88
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	12	0.88
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	12	0.88
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	12	0.88
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	20	0.88
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	29	0.88
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	17	0.88
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	17	0.88
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	17	0.88
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	13	0.88
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	13	0.88
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	13	0.88
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	18	0.88
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	18	0.88
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	18	0.88
(1,1914)	1:109:A:GLN:HE21	1:37:A:PHE:HB3	5	0.87
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	16	0.87
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	2	0.87
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	2	0.87
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	2	0.87
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	2	0.87
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	2	0.87
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	2	0.87
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	2	0.87
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	2	0.87
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	20	0.87
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	27	0.87
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	27	0.87
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	27	0.87
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	13	0.87
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	13	0.87
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	13	0.87
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	4	0.87
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	2	0.87
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	16	0.87
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	30	0.87
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	11	0.87
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	11	0.87
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	11	0.87
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	29	0.87
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	29	0.87
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	29	0.87
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	30	0.87
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	30	0.87
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	30	0.87
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	7	0.86
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	7	0.86
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	7	0.86
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	5	0.86
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	5	0.86
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	5	0.86
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	1	0.86
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	14	0.86
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	29	0.86
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	29	0.86
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	29	0.86
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	17	0.86
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	22	0.86
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	30	0.86
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	16	0.86
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	16	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	16	0.86
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	17	0.86
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	28	0.85
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	12	0.85
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	5	0.85
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	14	0.85
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	14	0.85
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	14	0.85
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	14	0.85
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	14	0.85
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	14	0.85
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	14	0.85
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	14	0.85
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	14	0.85
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	3	0.85
(1,1196)	1:64:A:LEU:HD21	1:64:A:LEU:HA	10	0.85
(1,1196)	1:64:A:LEU:HD22	1:64:A:LEU:HA	10	0.85
(1,1196)	1:64:A:LEU:HD23	1:64:A:LEU:HA	10	0.85
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	7	0.85
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	7	0.85
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	7	0.85
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	1	0.85
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	15	0.85
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	28	0.85
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	8	0.85
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	8	0.85
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	8	0.85
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	10	0.85
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	10	0.85
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	10	0.85
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	12	0.85
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	12	0.85
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	12	0.85
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	21	0.85
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	21	0.85
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	21	0.85
(1,216)	1:87:A:LYS:H	1:87:A:LYS:HG3	25	0.85
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	4	0.85
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	4	0.85
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	4	0.85
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	28	0.85
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	28	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	28	0.85
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	5	0.85
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	5	0.85
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	5	0.85
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	22	0.85
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	22	0.85
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	22	0.85
(1,1844)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	18	0.84
(1,1844)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	18	0.84
(1,1844)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	18	0.84
(1,1738)	1:50:A:VAL:HG11	1:14:A:TYR:HB2	18	0.84
(1,1738)	1:50:A:VAL:HG12	1:14:A:TYR:HB2	18	0.84
(1,1738)	1:50:A:VAL:HG13	1:14:A:TYR:HB2	18	0.84
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	14	0.84
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	14	0.84
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	14	0.84
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	22	0.84
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	20	0.84
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	25	0.84
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	27	0.84
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	24	0.84
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	12	0.84
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	12	0.84
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	12	0.84
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	12	0.84
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	12	0.84
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	12	0.84
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	12	0.84
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	12	0.84
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	12	0.84
(1,453)	1:50:A:VAL:HG21	1:15:A:ARG:HA	28	0.84
(1,453)	1:50:A:VAL:HG22	1:15:A:ARG:HA	28	0.84
(1,453)	1:50:A:VAL:HG23	1:15:A:ARG:HA	28	0.84
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	18	0.84
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	18	0.84
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	18	0.84
(1,102)	1:84:A:GLU:HB2	1:81:A:VAL:HA	15	0.84
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	6	0.84
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	6	0.84
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	6	0.84
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	15	0.84
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	15	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	15	0.84
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	20	0.84
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	20	0.84
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	20	0.84
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	13	0.83
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	13	0.83
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	13	0.83
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	30	0.83
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	30	0.83
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	30	0.83
(1,1632)	1:85:A:VAL:HG21	2:201:A:ACD:H171	10	0.83
(1,1632)	1:85:A:VAL:HG22	2:201:A:ACD:H171	10	0.83
(1,1632)	1:85:A:VAL:HG23	2:201:A:ACD:H171	10	0.83
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	25	0.83
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	11	0.83
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	11	0.83
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	11	0.83
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	22	0.83
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	22	0.83
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	22	0.83
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	21	0.83
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	21	0.83
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	21	0.83
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	23	0.83
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	23	0.83
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	23	0.83
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	24	0.83
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	24	0.83
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	24	0.83
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	18	0.82
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	13	0.82
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	8	0.82
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	9	0.82
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	9	0.82
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	9	0.82
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	17	0.82
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	20	0.82
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	29	0.82
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	23	0.82
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	23	0.82
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	23	0.82
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	23	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	23	0.82
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	23	0.82
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	23	0.82
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	23	0.82
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	23	0.82
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	16	0.82
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	16	0.82
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	16	0.82
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	23	0.82
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	23	0.82
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	23	0.82
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	6	0.82
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	9	0.82
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	9	0.82
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	9	0.82
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	11	0.82
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	11	0.82
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	11	0.82
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	12	0.82
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	12	0.82
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	12	0.82
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	6	0.81
(1,1950)	1:8:A:THR:HG21	1:12:A:GLN:HG2	21	0.81
(1,1950)	1:8:A:THR:HG22	1:12:A:GLN:HG2	21	0.81
(1,1950)	1:8:A:THR:HG23	1:12:A:GLN:HG2	21	0.81
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	26	0.81
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	26	0.81
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	26	0.81
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	3	0.81
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	7	0.81
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	28	0.81
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	21	0.81
(1,833)	1:91:A:LYS:H	1:91:A:LYS:HG3	18	0.81
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	11	0.81
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	19	0.81
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	25	0.81
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	20	0.81
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	9	0.81
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	9	0.81
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	9	0.81
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	25	0.81
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	25	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	25	0.81
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	10	0.81
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	10	0.81
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	10	0.81
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	14	0.81
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	14	0.81
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	14	0.81
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	27	0.81
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	27	0.81
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	27	0.81
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	13	0.81
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	13	0.81
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	13	0.81
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	18	0.8
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	4	0.8
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	4	0.8
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	4	0.8
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	21	0.8
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	21	0.8
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	21	0.8
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	7	0.8
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	14	0.8
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	16	0.8
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	12	0.8
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	12	0.8
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	12	0.8
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	2	0.8
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	4	0.8
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	23	0.8
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	8	0.8
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	28	0.8
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	28	0.8
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	28	0.8
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	13	0.8
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	13	0.8
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	13	0.8
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	18	0.8
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	18	0.8
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	18	0.8
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	12	0.8
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	12	0.8
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	12	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	1	0.79
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	1	0.79
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	1	0.79
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	17	0.79
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	17	0.79
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	17	0.79
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	19	0.79
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	19	0.79
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	19	0.79
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	17	0.79
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	17	0.79
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	17	0.79
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	11	0.79
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	19	0.79
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	21	0.79
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	7	0.79
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	24	0.79
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	21	0.79
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	23	0.79
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	2	0.79
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	2	0.79
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	2	0.79
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	3	0.79
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	3	0.79
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	3	0.79
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	8	0.79
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	8	0.79
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	8	0.79
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	29	0.79
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	29	0.79
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	29	0.79
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	15	0.79
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	15	0.79
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	15	0.79
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	29	0.78
(1,1914)	1:109:A:GLN:HE21	1:37:A:PHE:HB3	14	0.78
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	16	0.78
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	2	0.78
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	2	0.78
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	2	0.78
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	28	0.78
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	28	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	28	0.78
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	2	0.78
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	10	0.78
(1,1593)	1:63:A:PRO:HB3	2:201:A:ACD:H201	20	0.78
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	12	0.78
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	12	0.78
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	12	0.78
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	21	0.78
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	11	0.78
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	14	0.78
(1,290)	1:28:A:TYR:HA	1:31:A:LYS:HG3	24	0.78
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	25	0.78
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	25	0.78
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	25	0.78
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	6	0.78
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	6	0.78
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	6	0.78
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	7	0.78
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	7	0.78
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	7	0.78
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	30	0.77
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	20	0.77
(1,1698)	1:31:A:LYS:HA	1:31:A:LYS:HG2	26	0.77
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	7	0.77
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	7	0.77
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	7	0.77
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	17	0.77
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	23	0.77
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	24	0.77
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	24	0.77
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	24	0.77
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	3	0.77
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	9	0.77
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	9	0.77
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	9	0.77
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	10	0.77
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	18	0.77
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	29	0.77
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	29	0.77
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	29	0.77
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	29	0.77
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	3	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	12	0.77
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	18	0.77
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	1	0.77
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	7	0.77
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	7	0.77
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	7	0.77
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	2	0.77
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	8	0.77
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	28	0.77
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	14	0.77
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	14	0.77
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	14	0.77
(1,290)	1:28:A:TYR:HA	1:31:A:LYS:HG3	27	0.77
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	16	0.77
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	16	0.77
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	16	0.77
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	26	0.77
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	26	0.77
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	26	0.77
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	4	0.77
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	4	0.77
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	4	0.77
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	28	0.77
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	28	0.77
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	28	0.77
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	11	0.77
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	11	0.77
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	11	0.77
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	17	0.77
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	17	0.77
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	17	0.77
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	15	0.76
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	29	0.76
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	8	0.76
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	8	0.76
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	8	0.76
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	14	0.76
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	14	0.76
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	14	0.76
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	13	0.76
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	13	0.76
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	13	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	18	0.76
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	21	0.76
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	2	0.76
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	16	0.76
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	21	0.76
(1,327)	1:88:A:CYS:HB3	2:201:A:ACD:H191	20	0.76
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	7	0.76
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	7	0.76
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	7	0.76
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	6	0.76
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	6	0.76
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	6	0.76
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	15	0.76
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	15	0.76
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	15	0.76
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	20	0.76
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	20	0.76
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	20	0.76
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	10	0.75
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	15	0.75
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	24	0.75
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	24	0.75
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	24	0.75
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	24	0.75
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	13	0.75
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	7	0.75
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	7	0.75
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	7	0.75
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	30	0.75
(1,937)	1:64:A:LEU:HD21	1:64:A:LEU:HA	10	0.75
(1,937)	1:64:A:LEU:HD22	1:64:A:LEU:HA	10	0.75
(1,937)	1:64:A:LEU:HD23	1:64:A:LEU:HA	10	0.75
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	5	0.75
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	21	0.75
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE1	22	0.75
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE2	22	0.75
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE3	22	0.75
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	3	0.75
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	6	0.75
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	10	0.75
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	22	0.75
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	21	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	21	0.75
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	21	0.75
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	23	0.75
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	23	0.75
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	23	0.75
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	24	0.75
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	24	0.75
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	24	0.75
(1,1698)	1:31:A:LYS:HA	1:31:A:LYS:HG2	27	0.74
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	6	0.74
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	16	0.74
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	6	0.74
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	25	0.74
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	27	0.74
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	29	0.74
(1,495)	1:69:A:VAL:H	1:69:A:VAL:HB	1	0.74
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	7	0.74
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	9	0.74
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	23	0.74
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	26	0.74
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	27	0.74
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	3	0.74
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	3	0.74
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	3	0.74
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	11	0.74
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	11	0.74
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	11	0.74
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	9	0.74
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	9	0.74
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	9	0.74
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	28	0.74
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	28	0.74
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	28	0.74
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	17	0.73
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	19	0.73
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	25	0.73
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	25	0.73
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	25	0.73
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	20	0.73
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	20	0.73
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	20	0.73
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	2	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	5	0.73
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	15	0.73
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	18	0.73
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	30	0.73
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	9	0.73
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	12	0.73
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE1	10	0.73
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE2	10	0.73
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE3	10	0.73
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	5	0.73
(1,316)	1:43:A:THR:HG21	1:37:A:PHE:HB2	20	0.73
(1,316)	1:43:A:THR:HG22	1:37:A:PHE:HB2	20	0.73
(1,316)	1:43:A:THR:HG23	1:37:A:PHE:HB2	20	0.73
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	3	0.73
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	10	0.73
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	10	0.73
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	10	0.73
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	18	0.73
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	18	0.73
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	18	0.73
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	23	0.73
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	23	0.73
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	23	0.73
(1,10)	1:82:A:ARG:HG3	1:69:A:VAL:HG21	1	0.73
(1,10)	1:82:A:ARG:HG3	1:69:A:VAL:HG22	1	0.73
(1,10)	1:82:A:ARG:HG3	1:69:A:VAL:HG23	1	0.73
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	12	0.72
(1,1698)	1:31:A:LYS:HA	1:31:A:LYS:HG2	28	0.72
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	7	0.72
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	6	0.72
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	6	0.72
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	6	0.72
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	8	0.72
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	8	0.72
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	8	0.72
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	10	0.72
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	10	0.72
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	10	0.72
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	26	0.72
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	15	0.72
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	15	0.72
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	15	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	19	0.72
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	19	0.72
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	19	0.72
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	7	0.72
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	7	0.72
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	7	0.72
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	7	0.72
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	7	0.72
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	7	0.72
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	7	0.72
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	7	0.72
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	7	0.72
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	7	0.72
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	24	0.72
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	13	0.72
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	5	0.72
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	13	0.72
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	26	0.72
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	20	0.72
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	20	0.72
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	20	0.72
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	5	0.72
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	5	0.72
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	5	0.72
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	14	0.72
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	14	0.72
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	14	0.72
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	19	0.72
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	19	0.72
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	19	0.72
(1,6)	1:12:A:GLN:HA	1:15:A:ARG:HD2	4	0.72
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	16	0.71
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	20	0.71
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	9	0.71
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	18	0.71
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	18	0.71
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	18	0.71
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	2	0.71
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	12	0.71
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	24	0.71
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	16	0.71
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	16	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	16	0.71
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	29	0.71
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	29	0.71
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	29	0.71
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	16	0.71
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	12	0.71
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	12	0.71
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	12	0.71
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	26	0.71
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	28	0.71
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	11	0.71
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	11	0.71
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	11	0.71
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	11	0.71
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	11	0.71
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	11	0.71
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	11	0.71
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	11	0.71
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	11	0.71
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	10	0.71
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	15	0.71
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	9	0.71
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	22	0.71
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	16	0.71
(1,338)	1:80:A:GLU:H	1:80:A:GLU:HB3	18	0.71
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	17	0.71
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	17	0.71
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	17	0.71
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	20	0.71
(1,99)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	19	0.71
(1,99)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	19	0.71
(1,99)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	19	0.71
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	2	0.71
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	2	0.71
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	2	0.71
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	3	0.71
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	3	0.71
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	3	0.71
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	8	0.71
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	8	0.71
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	8	0.71
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	29	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	29	0.71
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	29	0.71
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	17	0.7
(1,1894)	1:111:A:ASN:HD21	1:108:A:PHE:HA	13	0.7
(1,1698)	1:31:A:LYS:HA	1:31:A:LYS:HG2	24	0.7
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	22	0.7
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	22	0.7
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	22	0.7
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	22	0.7
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	25	0.7
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	25	0.7
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	25	0.7
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	26	0.7
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	26	0.7
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	26	0.7
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	4	0.7
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	19	0.7
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG2	19	0.7
(1,1144)	1:51:A:PHE:H	1:50:A:VAL:HB	28	0.7
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	18	0.7
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	10	0.7
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	18	0.7
(1,290)	1:28:A:TYR:HA	1:31:A:LYS:HG3	28	0.7
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	26	0.7
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	26	0.7
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	26	0.7
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	25	0.7
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	25	0.7
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	25	0.7
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	1	0.7
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	1	0.7
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	1	0.7
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	29	0.69
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	5	0.69
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	5	0.69
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	5	0.69
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	7	0.69
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	7	0.69
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	7	0.69
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	17	0.69
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	19	0.69
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG2	4	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	10	0.69
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	30	0.69
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	30	0.69
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	30	0.69
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	8	0.69
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	8	0.69
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	8	0.69
(1,150)	1:95:A:ASN:HA	1:92:A:ASN:HD22	9	0.69
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	16	0.69
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	16	0.69
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	16	0.69
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	26	0.69
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	26	0.69
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	26	0.69
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	20	0.68
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	16	0.68
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	16	0.68
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	16	0.68
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	21	0.68
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	21	0.68
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	21	0.68
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	29	0.68
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	29	0.68
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	29	0.68
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	1	0.68
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	3	0.68
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	1	0.68
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	1	0.68
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	1	0.68
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	4	0.68
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	4	0.68
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	4	0.68
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	16	0.68
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	16	0.68
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	16	0.68
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	27	0.68
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	7	0.68
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	19	0.68
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	28	0.68
(1,708)	1:85:A:VAL:H	1:85:A:VAL:HB	10	0.68
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	5	0.68
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	17	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	8	0.68
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	8	0.68
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	8	0.68
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	8	0.68
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	16	0.68
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	16	0.68
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	16	0.68
(1,1883)	1:50:A:VAL:HG11	1:54:A:MET:HG3	28	0.67
(1,1883)	1:50:A:VAL:HG12	1:54:A:MET:HG3	28	0.67
(1,1883)	1:50:A:VAL:HG13	1:54:A:MET:HG3	28	0.67
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	1	0.67
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	6	0.67
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	6	0.67
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	6	0.67
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	9	0.67
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	9	0.67
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	9	0.67
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	18	0.67
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	18	0.67
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	18	0.67
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	19	0.67
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	28	0.67
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	27	0.67
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	27	0.67
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	27	0.67
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	30	0.67
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	30	0.67
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	30	0.67
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG21	26	0.67
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG22	26	0.67
(1,1373)	1:5:A:VAL:HG11	1:7:A:THR:HG23	26	0.67
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG21	26	0.67
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG22	26	0.67
(1,1373)	1:5:A:VAL:HG12	1:7:A:THR:HG23	26	0.67
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG21	26	0.67
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG22	26	0.67
(1,1373)	1:5:A:VAL:HG13	1:7:A:THR:HG23	26	0.67
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	2	0.67
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	12	0.67
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	24	0.67
(1,1144)	1:51:A:PHE:H	1:50:A:VAL:HB	18	0.67
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	23	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	10	0.67
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	23	0.67
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	9	0.67
(1,1943)	1:100:A:TRP:HE1	1:103:A:ARG:HH12	4	0.66
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	9	0.66
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	9	0.66
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	9	0.66
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	10	0.66
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	10	0.66
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	10	0.66
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	24	0.66
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	24	0.66
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	24	0.66
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	22	0.66
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	19	0.66
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	28	0.66
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	25	0.66
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	26	0.66
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	21	0.66
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	20	0.65
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	10	0.65
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	26	0.65
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	26	0.65
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	26	0.65
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	10	0.65
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	18	0.65
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	18	0.65
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	18	0.65
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG2	23	0.65
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	16	0.65
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	5	0.65
(1,788)	1:88:A:CYS:HB3	1:85:A:VAL:HA	27	0.65
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	13	0.65
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	4	0.65
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	4	0.65
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	4	0.65
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	26	0.65
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	27	0.65
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	5	0.65
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	5	0.65
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	5	0.65
(1,70)	1:18:A:CYS:HA	1:21:A:SER:HB3	6	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	12	0.64
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	14	0.64
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	14	0.64
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	14	0.64
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	17	0.64
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	17	0.64
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	17	0.64
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	25	0.64
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	25	0.64
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	25	0.64
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	12	0.64
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	12	0.64
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	12	0.64
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	24	0.64
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	16	0.64
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	8	0.64
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	8	0.64
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	8	0.64
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	1	0.64
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	3	0.64
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	25	0.64
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	15	0.64
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	6	0.64
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	23	0.64
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE1	18	0.64
(1,512)	1:50:A:VAL:HG21	1:46:A:TYR:HE2	18	0.64
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE1	18	0.64
(1,512)	1:50:A:VAL:HG22	1:46:A:TYR:HE2	18	0.64
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE1	18	0.64
(1,512)	1:50:A:VAL:HG23	1:46:A:TYR:HE2	18	0.64
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	25	0.64
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	25	0.64
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	25	0.64
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	11	0.63
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	3	0.63
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	5	0.63
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	5	0.63
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	5	0.63
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG3	20	0.63
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	5	0.63
(1,80)	1:89:A:VAL:HG21	1:63:A:PRO:HG3	19	0.63
(1,80)	1:89:A:VAL:HG22	1:63:A:PRO:HG3	19	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:89:A:VAL:HG23	1:63:A:PRO:HG3	19	0.63
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	7	0.62
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	7	0.62
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	7	0.62
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	27	0.62
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	27	0.62
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	27	0.62
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	11	0.62
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	11	0.62
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	11	0.62
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	27	0.62
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	27	0.62
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	27	0.62
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	18	0.62
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	21	0.62
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	5	0.62
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	17	0.62
(1,1161)	1:48:A:LYS:HA	1:48:A:LYS:HG2	15	0.62
(1,992)	1:50:A:VAL:HG21	1:15:A:ARG:HA	28	0.62
(1,992)	1:50:A:VAL:HG22	1:15:A:ARG:HA	28	0.62
(1,992)	1:50:A:VAL:HG23	1:15:A:ARG:HA	28	0.62
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	26	0.62
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	7	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	2	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	2	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	2	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	22	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	22	0.62
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	22	0.62
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	25	0.62
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	25	0.62
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	25	0.62
(1,339)	1:30:A:GLU:HG2	1:30:A:GLU:H	9	0.62
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	23	0.62
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	22	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD21	2	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD22	2	0.61
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD23	2	0.61
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	6	0.61
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	6	0.61
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	6	0.61
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	12	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	12	0.61
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	12	0.61
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	20	0.61
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	20	0.61
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	20	0.61
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	19	0.61
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	19	0.61
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	19	0.61
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	12	0.61
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	9	0.61
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	29	0.61
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	3	0.61
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	11	0.61
(1,656)	1:112:A:ASN:HB2	1:115:A:LEU:HB2	24	0.61
(1,201)	1:85:A:VAL:HG11	2:201:A:ACD:H191	10	0.61
(1,201)	1:85:A:VAL:HG12	2:201:A:ACD:H191	10	0.61
(1,201)	1:85:A:VAL:HG13	2:201:A:ACD:H191	10	0.61
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	10	0.6
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	27	0.6
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	10	0.6
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	18	0.6
(1,1559)	1:85:A:VAL:H	1:85:A:VAL:HB	10	0.6
(1,1457)	1:113:A:LEU:HG	1:117:A:LYS:HE2	3	0.6
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	7	0.6
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	14	0.6
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	15	0.6
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	1	0.6
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	5	0.6
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	5	0.6
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	5	0.6
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	12	0.6
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	20	0.6
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	2	0.6
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	2	0.6
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	2	0.6
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	28	0.6
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	28	0.6
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	28	0.6
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	16	0.59
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	29	0.59
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	29	0.59
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	29	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	1	0.59
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	1	0.59
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	1	0.59
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	3	0.59
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	3	0.59
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	3	0.59
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	20	0.59
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	25	0.59
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	27	0.59
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	12	0.59
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	12	0.59
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	11	0.59
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	15	0.59
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	11	0.59
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	11	0.59
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	11	0.59
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	15	0.59
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	27	0.59
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	27	0.59
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	27	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	4	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	4	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	4	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	5	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	5	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	5	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	6	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	6	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	6	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	7	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	7	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	7	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	8	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	8	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	8	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	9	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	9	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	9	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	10	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	10	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	10	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	11	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	11	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	13	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	13	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	13	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	14	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	14	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	14	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	15	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	15	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	15	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	16	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	16	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	16	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	18	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	18	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	18	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	19	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	19	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	19	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	20	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	20	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	20	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	21	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	21	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	21	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	22	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	22	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	22	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	23	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	23	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	23	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	24	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	24	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	24	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	25	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	25	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	25	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	26	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	26	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	26	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	27	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	27	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	27	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	29	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	29	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	29	0.59
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	30	0.59
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	30	0.59
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	30	0.59
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	4	0.58
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	27	0.58
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	8	0.58
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	8	0.58
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	8	0.58
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	11	0.58
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	11	0.58
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	11	0.58
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	19	0.58
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	12	0.58
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	12	0.58
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	12	0.58
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	1	0.58
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	7	0.58
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	17	0.58
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	18	0.58
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	19	0.58
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	19	0.58
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	16	0.58
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	21	0.58
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	22	0.58
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	11	0.58
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	6	0.58
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	6	0.58
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	6	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	1	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	6	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	8	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	13	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	16	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	17	0.58
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	19	0.58
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	26	0.58
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	26	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	26	0.58
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	11	0.58
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	11	0.58
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	11	0.58
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	12	0.58
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	12	0.58
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	12	0.58
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	13	0.58
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	1	0.58
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	1	0.58
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	1	0.58
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	3	0.58
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	3	0.58
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	3	0.58
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	12	0.58
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	12	0.58
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	12	0.58
(1,53)	1:115:A:LEU:HD11	1:115:A:LEU:HB3	17	0.58
(1,53)	1:115:A:LEU:HD12	1:115:A:LEU:HB3	17	0.58
(1,53)	1:115:A:LEU:HD13	1:115:A:LEU:HB3	17	0.58
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	26	0.57
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	1	0.57
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	18	0.57
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	6	0.57
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	6	0.57
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	6	0.57
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	13	0.57
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	13	0.57
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	13	0.57
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	15	0.57
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	15	0.57
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	15	0.57
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	19	0.57
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	19	0.57
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	19	0.57
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	19	0.57
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	28	0.57
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	19	0.57
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	19	0.57
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	19	0.57
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	1	0.57
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	14	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	22	0.57
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	13	0.57
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	27	0.57
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	26	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	2	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	3	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	4	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	7	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	9	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	10	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	14	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	22	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	24	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	25	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	26	0.57
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	28	0.57
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	5	0.57
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	5	0.57
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	5	0.57
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	16	0.57
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	16	0.57
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	16	0.57
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	3	0.56
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	15	0.56
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	27	0.56
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	30	0.56
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	30	0.56
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	30	0.56
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	16	0.56
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	28	0.56
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	5	0.56
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	6	0.56
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	11	0.56
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	24	0.56
(1,1484)	1:61:A:GLU:HB3	1:58:A:ASP:HB3	10	0.56
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	3	0.56
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	3	0.56
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	18	0.56
(1,848)	1:7:A:THR:H	1:10:A:ASP:HB2	9	0.56
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	1	0.56
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	18	0.56
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	23	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	27	0.56
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	30	0.56
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	15	0.56
(1,290)	1:28:A:TYR:HA	1:31:A:LYS:HG3	26	0.56
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	2	0.55
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	24	0.55
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	22	0.55
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	22	0.55
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	22	0.55
(1,1808)	1:84:A:GLU:HA	1:87:A:LYS:HD3	25	0.55
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	28	0.55
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	28	0.55
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	28	0.55
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	2	0.55
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	4	0.55
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	28	0.55
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	1	0.55
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	1	0.55
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	1	0.55
(1,1046)	1:66:A:ASP:HB3	1:66:A:ASP:H	18	0.55
(1,931)	1:123:A:ASP:H	1:122:A:LYS:HA	5	0.55
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	7	0.55
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	4	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	16	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	16	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	16	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	19	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	19	0.55
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	19	0.55
(1,467)	1:12:A:GLN:H	1:12:A:GLN:HB3	5	0.55
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	1	0.55
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	1	0.55
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	30	0.55
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	30	0.55
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	14	0.55
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	14	0.55
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	14	0.55
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	23	0.55
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	23	0.55
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	23	0.55
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	28	0.54
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	4	0.54
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	4	0.54
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	4	0.54
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB3	27	0.54
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB3	27	0.54
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB3	27	0.54
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	1	0.54
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	15	0.54
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	21	0.54
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	21	0.54
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	21	0.54
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	11	0.54
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	12	0.54
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	1	0.54
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	2	0.54
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	8	0.54
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	8	0.54
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	8	0.54
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	28	0.54
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	28	0.54
(1,339)	1:30:A:GLU:HG2	1:30:A:GLU:H	19	0.54
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	27	0.54
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	27	0.54
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	27	0.54
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	25	0.53
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	8	0.53
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	8	0.53
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	8	0.53
(1,1883)	1:50:A:VAL:HG11	1:54:A:MET:HG3	18	0.53
(1,1883)	1:50:A:VAL:HG12	1:54:A:MET:HG3	18	0.53
(1,1883)	1:50:A:VAL:HG13	1:54:A:MET:HG3	18	0.53
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	27	0.53
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	27	0.53
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	27	0.53
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	10	0.53
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	27	0.53
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	29	0.53
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	2	0.53
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	10	0.53
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	19	0.53
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	19	0.53
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	19	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE1	3	0.53
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE2	3	0.53
(1,650)	1:6:A:SER:HB2	1:54:A:MET:HE3	3	0.53
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	26	0.53
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	26	0.53
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	26	0.53
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	7	0.52
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	7	0.52
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	7	0.52
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	24	0.52
(1,1850)	1:9:A:GLU:HA	1:8:A:THR:HG21	20	0.52
(1,1850)	1:9:A:GLU:HA	1:8:A:THR:HG22	20	0.52
(1,1850)	1:9:A:GLU:HA	1:8:A:THR:HG23	20	0.52
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	5	0.52
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	5	0.52
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	5	0.52
(1,1690)	1:106:A:LYS:HA	1:109:A:GLN:HG3	2	0.52
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	19	0.52
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	24	0.52
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	14	0.52
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	23	0.52
(1,1563)	1:92:A:ASN:H	1:91:A:LYS:HB2	23	0.52
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	15	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	3	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	3	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	3	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	10	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	10	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	10	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	22	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	22	0.52
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	22	0.52
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	8	0.52
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	8	0.52
(1,958)	1:110:A:LYS:HG2	1:110:A:LYS:HE2	14	0.52
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	17	0.52
(1,734)	1:50:A:VAL:HG21	1:50:A:VAL:HA	18	0.52
(1,734)	1:50:A:VAL:HG22	1:50:A:VAL:HA	18	0.52
(1,734)	1:50:A:VAL:HG23	1:50:A:VAL:HA	18	0.52
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	14	0.52
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	7	0.52
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	13	0.52
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	13	0.52
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	13	0.52
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	12	0.51
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	13	0.51
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	23	0.51
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	2	0.51
(1,1811)	1:56:A:LEU:HD21	2:201:A:ACD:H131	23	0.51
(1,1811)	1:56:A:LEU:HD22	2:201:A:ACD:H131	23	0.51
(1,1811)	1:56:A:LEU:HD23	2:201:A:ACD:H131	23	0.51
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	12	0.51
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	15	0.51
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	2	0.51
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	8	0.51
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	28	0.51
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	6	0.51
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	2	0.51
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	2	0.51
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	2	0.51
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	16	0.51
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	16	0.51
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	16	0.51
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	12	0.51
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	13	0.51
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	22	0.51
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	14	0.51
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	14	0.51
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	14	0.51
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	21	0.51
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	21	0.51
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	21	0.51
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	22	0.51
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	22	0.51
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	22	0.51
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	2	0.51
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	21	0.5
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	5	0.5
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	5	0.5
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	5	0.5
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD11	11	0.5
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD12	11	0.5
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD13	11	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD11	11	0.5
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD12	11	0.5
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD13	11	0.5
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD11	11	0.5
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD12	11	0.5
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD13	11	0.5
(1,1662)	1:13:A:ARG:HA	1:13:A:ARG:HG3	8	0.5
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	7	0.5
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	4	0.5
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	4	0.5
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	4	0.5
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	4	0.5
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	12	0.5
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE1	20	0.5
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE2	20	0.5
(1,1221)	1:54:A:MET:HG2	1:54:A:MET:HE3	20	0.5
(1,1185)	1:106:A:LYS:HB2	1:103:A:ARG:HA	27	0.5
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	24	0.5
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	18	0.5
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	12	0.5
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	27	0.5
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	25	0.5
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	25	0.5
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	23	0.49
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	26	0.49
(1,1651)	1:50:A:VAL:HG11	2:201:A:ACD:H41	18	0.49
(1,1651)	1:50:A:VAL:HG12	2:201:A:ACD:H41	18	0.49
(1,1651)	1:50:A:VAL:HG13	2:201:A:ACD:H41	18	0.49
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	8	0.49
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	8	0.49
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	8	0.49
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	23	0.49
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	24	0.49
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	3	0.49
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	18	0.49
(1,958)	1:110:A:LYS:HG2	1:110:A:LYS:HE2	6	0.49
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	5	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	3	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	7	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	8	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	15	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	16	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	24	0.49
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	30	0.49
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	13	0.49
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	13	0.49
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	13	0.49
(1,339)	1:30:A:GLU:HG2	1:30:A:GLU:H	22	0.49
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	19	0.49
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	19	0.49
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	19	0.49
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	2	0.49
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	8	0.48
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	27	0.48
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	2	0.48
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	13	0.48
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	26	0.48
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	3	0.48
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	20	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	10	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	10	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	10	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	12	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	12	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	12	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	29	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	29	0.48
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	29	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	2	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	4	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	6	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	7	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	8	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	9	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	10	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	11	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	12	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	13	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	14	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	15	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	18	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	19	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	20	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	21	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	23	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	24	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	25	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	26	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	27	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	28	0.48
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	30	0.48
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	1	0.48
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	22	0.48
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	5	0.48
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	6	0.48
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	17	0.48
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	9	0.48
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	9	0.48
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	18	0.48
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	18	0.48
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	1	0.48
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	2	0.48
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	18	0.48
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	18	0.48
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	18	0.48
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	25	0.48
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	8	0.47
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	14	0.47
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	8	0.47
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	11	0.47
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD21	4	0.47
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD22	4	0.47
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD23	4	0.47
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	6	0.47
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	7	0.47
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	7	0.47
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	7	0.47
(1,1638)	1:47:A:ILE:HD11	2:201:A:ACD:H42	3	0.47
(1,1638)	1:47:A:ILE:HD12	2:201:A:ACD:H42	3	0.47
(1,1638)	1:47:A:ILE:HD13	2:201:A:ACD:H42	3	0.47
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	15	0.47
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	16	0.47
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	29	0.47
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	29	0.47
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	29	0.47
(1,1563)	1:92:A:ASN:H	1:91:A:LYS:HB2	1	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1472)	1:50:A:VAL:HB	1:50:A:VAL:H	18	0.47
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	8	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	7	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	7	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	7	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD21	13	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD22	13	0.47
(1,1208)	1:64:A:LEU:HB3	1:64:A:LEU:HD23	13	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	3	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	5	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	16	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	17	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	22	0.47
(1,1099)	1:38:A:PRO:HD3	1:38:A:PRO:HB3	29	0.47
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	19	0.47
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	1	0.47
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	1	0.47
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	1	0.47
(1,734)	1:50:A:VAL:HG21	1:50:A:VAL:HA	28	0.47
(1,734)	1:50:A:VAL:HG22	1:50:A:VAL:HA	28	0.47
(1,734)	1:50:A:VAL:HG23	1:50:A:VAL:HA	28	0.47
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	9	0.47
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	10	0.47
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	29	0.47
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	6	0.47
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	23	0.47
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	23	0.47
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	23	0.47
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	5	0.47
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	29	0.47
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	13	0.47
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	13	0.47
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	13	0.47
(1,173)	1:2:A:GLU:HA	1:2:A:GLU:HG2	15	0.47
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	12	0.46
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	12	0.46
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	12	0.46
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	25	0.46
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	25	0.46
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	25	0.46
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	6	0.46
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	11	0.46
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	7	0.46
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	22	0.46
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	6	0.46
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	6	0.46
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	6	0.46
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	5	0.46
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	9	0.46
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	25	0.46
(1,1068)	1:69:A:VAL:H	1:69:A:VAL:HG21	1	0.46
(1,1068)	1:69:A:VAL:H	1:69:A:VAL:HG22	1	0.46
(1,1068)	1:69:A:VAL:H	1:69:A:VAL:HG23	1	0.46
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	16	0.46
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	28	0.46
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	14	0.46
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	3	0.46
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	3	0.46
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	3	0.46
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	6	0.46
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	6	0.46
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	22	0.46
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	22	0.46
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	26	0.46
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	26	0.46
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	26	0.46
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	27	0.46
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	27	0.46
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	27	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	3	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	8	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	15	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	19	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	23	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	25	0.46
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	27	0.46
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	12	0.46
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	12	0.46
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	12	0.46
(1,173)	1:2:A:GLU:HA	1:2:A:GLU:HG3	23	0.46
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	19	0.45
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	25	0.45
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	25	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	25	0.45
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD21	28	0.45
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD22	28	0.45
(1,1811)	1:71:A:GLN:HG3	1:56:A:LEU:HD23	28	0.45
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	11	0.45
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	2	0.45
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	3	0.45
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	10	0.45
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	30	0.45
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	30	0.45
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	30	0.45
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	26	0.45
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	28	0.45
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	5	0.45
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	3	0.45
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	25	0.45
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	17	0.45
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	19	0.45
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	20	0.45
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	8	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	4	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	7	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	9	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	10	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	20	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	21	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	24	0.45
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	29	0.45
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	6	0.45
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	6	0.45
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	6	0.45
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	15	0.45
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	15	0.45
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	15	0.45
(1,1995)	1:11:A:LEU:HD21	1:8:A:THR:HA	20	0.44
(1,1995)	1:11:A:LEU:HD22	1:8:A:THR:HA	20	0.44
(1,1995)	1:11:A:LEU:HD23	1:8:A:THR:HA	20	0.44
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	2	0.44
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	2	0.44
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	2	0.44
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	30	0.44
(1,1298)	1:82:A:ARG:HB3	1:82:A:ARG:HD3	23	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	21	0.44
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	12	0.44
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	20	0.44
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	5	0.44
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	5	0.44
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	5	0.44
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	8	0.44
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	8	0.44
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	8	0.44
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	19	0.44
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	6	0.44
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	26	0.44
(1,412)	1:70:A:HIS:HB3	1:70:A:HIS:H	28	0.44
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	7	0.44
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	7	0.44
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	7	0.44
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	5	0.43
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	18	0.43
(1,1758)	1:38:A:PRO:HD2	1:31:A:LYS:HD2	27	0.43
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	14	0.43
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	14	0.43
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	14	0.43
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	2	0.43
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	2	0.43
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	2	0.43
(1,1577)	1:54:A:MET:HE1	2:201:A:ACD:H41	29	0.43
(1,1577)	1:54:A:MET:HE2	2:201:A:ACD:H41	29	0.43
(1,1577)	1:54:A:MET:HE3	2:201:A:ACD:H41	29	0.43
(1,1472)	1:50:A:VAL:HB	1:50:A:VAL:H	28	0.43
(1,1399)	1:55:A:GLN:HA	1:55:A:GLN:HG2	24	0.43
(1,1399)	1:55:A:GLN:HA	1:55:A:GLN:HG2	26	0.43
(1,1399)	1:55:A:GLN:HA	1:55:A:GLN:HG2	27	0.43
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	16	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	1	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	1	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	1	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	2	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	2	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	2	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	5	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	5	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	5	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	6	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	6	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	6	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	7	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	7	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	7	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	8	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	8	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	8	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	9	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	9	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	9	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	10	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	10	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	10	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	11	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	11	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	11	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	12	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	12	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	12	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	13	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	13	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	13	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	14	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	14	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	14	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	15	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	15	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	15	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	16	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	16	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	16	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	17	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	17	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	17	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	18	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	18	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	18	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	19	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	19	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	19	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	20	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	20	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	20	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	21	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	21	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	21	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	22	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	22	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	22	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	23	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	23	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	23	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	24	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	24	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	24	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	26	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	26	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	26	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	27	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	27	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	27	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	28	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	28	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	28	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	29	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	29	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	29	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	30	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	30	0.43
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	30	0.43
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	9	0.43
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	5	0.43
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	10	0.43
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	13	0.43
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	29	0.43
(1,958)	1:110:A:LYS:HG2	1:110:A:LYS:HE3	13	0.43
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	4	0.43
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	15	0.43
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	18	0.43
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	18	0.43
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	18	0.43
(1,712)	1:52:A:ASN:HB2	1:53:A:LYS:H	21	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	9	0.43
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	20	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	2	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	2	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	8	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	8	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	15	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	15	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	19	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	19	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	23	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	23	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	26	0.43
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	26	0.43
(1,401)	1:82:A:ARG:HB2	1:82:A:ARG:HD2	17	0.43
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	11	0.43
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	11	0.43
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	11	0.43
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	17	0.43
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	17	0.43
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	17	0.43
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	22	0.42
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	27	0.42
(1,1298)	1:82:A:ARG:HB3	1:82:A:ARG:HD3	25	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	3	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	3	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	3	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	4	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	4	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	4	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG21	25	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG22	25	0.42
(1,1289)	1:120:A:ILE:HG13	1:120:A:ILE:HG23	25	0.42
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	17	0.42
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	17	0.42
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	17	0.42
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	2	0.42
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	2	0.42
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	2	0.42
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	15	0.42
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	15	0.42
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	15	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	27	0.42
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	2	0.42
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	14	0.42
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	28	0.42
(1,962)	1:87:A:LYS:HA	1:87:A:LYS:HG2	10	0.42
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	28	0.42
(1,848)	1:7:A:THR:H	1:10:A:ASP:HB2	28	0.42
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	23	0.42
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	23	0.42
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	23	0.42
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	19	0.42
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	24	0.42
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	14	0.42
(1,601)	1:96:A:ASN:H	1:92:A:ASN:HD22	9	0.42
(1,574)	1:50:A:VAL:HG21	1:50:A:VAL:HA	18	0.42
(1,574)	1:50:A:VAL:HG22	1:50:A:VAL:HA	18	0.42
(1,574)	1:50:A:VAL:HG23	1:50:A:VAL:HA	18	0.42
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	11	0.42
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	28	0.42
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	28	0.42
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	28	0.42
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	19	0.41
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	17	0.41
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	22	0.41
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	14	0.41
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	14	0.41
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	14	0.41
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	12	0.41
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	11	0.41
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	20	0.41
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	11	0.41
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	21	0.41
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	27	0.41
(1,851)	1:104:A:GLY:HA3	2:201:A:ACD:H201	19	0.41
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	7	0.41
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	22	0.41
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	22	0.41
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	22	0.41
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	7	0.4
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	13	0.4
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	15	0.4
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	27	0.4
(1,1426)	1:85:A:VAL:HA	1:85:A:VAL:HG21	10	0.4
(1,1426)	1:85:A:VAL:HA	1:85:A:VAL:HG22	10	0.4
(1,1426)	1:85:A:VAL:HA	1:85:A:VAL:HG23	10	0.4
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	2	0.4
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	22	0.4
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	6	0.4
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	8	0.4
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	24	0.4
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	24	0.4
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	24	0.4
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	4	0.4
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	4	0.4
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	27	0.4
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	27	0.4
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	20	0.4
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	9	0.4
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	9	0.4
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	9	0.4
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	28	0.4
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	28	0.4
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	28	0.4
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	19	0.4
(1,1986)	1:89:A:VAL:HA	1:63:A:PRO:HG3	5	0.39
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	23	0.39
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	1	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	7	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	8	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	11	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	14	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	15	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	19	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	24	0.39
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	29	0.39
(1,1298)	1:82:A:ARG:HB3	1:82:A:ARG:HD3	28	0.39
(1,1114)	1:106:A:LYS:HA	1:109:A:GLN:HG3	2	0.39
(1,1103)	1:55:A:GLN:HA	1:55:A:GLN:HG3	3	0.39
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	2	0.39
(1,1010)	1:30:A:GLU:HB3	1:30:A:GLU:HA	9	0.39
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	25	0.39
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	25	0.39
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	25	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	7	0.39
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	29	0.39
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	29	0.39
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	29	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	5	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	5	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	11	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	11	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	13	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	13	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	14	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	14	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	20	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	20	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	21	0.39
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	21	0.39
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	13	0.39
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	25	0.39
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	28	0.39
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	14	0.39
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	14	0.39
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	14	0.39
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	18	0.39
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	18	0.39
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	18	0.39
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	23	0.39
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	23	0.39
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	23	0.39
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG2	1	0.39
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	4	0.38
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	4	0.38
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	4	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	3	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	4	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	6	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	9	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	13	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	21	0.38
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	25	0.38
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	27	0.38
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	1	0.38
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	21	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	29	0.38
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	29	0.38
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	29	0.38
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	4	0.38
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	23	0.38
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	24	0.38
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	3	0.38
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	16	0.38
(1,1010)	1:30:A:GLU:HB3	1:30:A:GLU:HA	19	0.38
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	26	0.38
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	15	0.38
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	15	0.38
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	15	0.38
(1,735)	1:44:A:MET:HE1	1:39:A:GLU:HG2	7	0.38
(1,735)	1:44:A:MET:HE2	1:39:A:GLU:HG2	7	0.38
(1,735)	1:44:A:MET:HE3	1:39:A:GLU:HG2	7	0.38
(1,694)	1:12:A:GLN:HA	1:12:A:GLN:HG3	21	0.38
(1,694)	1:12:A:GLN:HA	1:12:A:GLN:HG2	29	0.38
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	4	0.38
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	9	0.38
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	5	0.38
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	5	0.38
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	5	0.38
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	19	0.38
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	19	0.38
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	19	0.38
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	7	0.38
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	7	0.38
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	7	0.38
(1,12)	1:22:A:LEU:H	1:21:A:SER:HB2	9	0.38
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	4	0.37
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	30	0.37
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	10	0.37
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	16	0.37
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	27	0.37
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	28	0.37
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	30	0.37
(1,1311)	1:70:A:HIS:HB3	1:67:A:ASN:HA	25	0.37
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	21	0.37
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	21	0.37
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	21	0.37
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	25	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	25	0.37
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	25	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	2	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	4	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	8	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	9	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	10	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	11	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	14	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	18	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	19	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	20	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	21	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	23	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	28	0.37
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	30	0.37
(1,1010)	1:30:A:GLU:HB3	1:30:A:GLU:HA	22	0.37
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	15	0.37
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	16	0.37
(1,782)	1:27:A:ASP:H	1:27:A:ASP:HB2	10	0.37
(1,782)	1:27:A:ASP:H	1:27:A:ASP:HB2	20	0.37
(1,782)	1:27:A:ASP:H	1:27:A:ASP:HB2	27	0.37
(1,574)	1:50:A:VAL:HG21	1:50:A:VAL:HA	28	0.37
(1,574)	1:50:A:VAL:HG22	1:50:A:VAL:HA	28	0.37
(1,574)	1:50:A:VAL:HG23	1:50:A:VAL:HA	28	0.37
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	12	0.37
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	12	0.37
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	12	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	12	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	12	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	16	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	16	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	24	0.37
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	24	0.37
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	19	0.37
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	30	0.37
(1,76)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	3	0.37
(1,76)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	3	0.37
(1,76)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	3	0.37
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	21	0.36
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	30	0.36
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	19	0.36
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	19	0.36
(1,1854)	1:87:A:LYS:HB3	1:84:A:GLU:HA	10	0.36
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	13	0.36
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	13	0.36
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	13	0.36
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	26	0.36
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	26	0.36
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	26	0.36
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	20	0.36
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	20	0.36
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	20	0.36
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	18	0.36
(1,1422)	1:77:A:ASP:H	1:77:A:ASP:HB3	26	0.36
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	28	0.36
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	13	0.36
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	13	0.36
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	13	0.36
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	15	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	7	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	12	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	13	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	15	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	24	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	25	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	26	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	27	0.36
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	29	0.36
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	2	0.36
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	16	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	5	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	11	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	12	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	13	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	15	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	20	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	22	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	25	0.36
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	26	0.36
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	3	0.36
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	3	0.36
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	17	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	17	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	3	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	7	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	11	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	14	0.36
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	15	0.36
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	30	0.36
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	1	0.36
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	1	0.36
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	1	0.36
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	2	0.36
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	2	0.36
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	2	0.36
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	14	0.36
(1,70)	1:18:A:CYS:HA	1:21:A:SER:HB3	9	0.36
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	2	0.35
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	2	0.35
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	2	0.35
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	5	0.35
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	5	0.35
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	5	0.35
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	20	0.35
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	20	0.35
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	20	0.35
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	26	0.35
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	26	0.35
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	26	0.35
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	28	0.35
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	28	0.35
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	28	0.35
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	14	0.35
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	29	0.35
(1,1587)	1:85:A:VAL:HG11	2:201:A:ACD:H201	9	0.35
(1,1587)	1:85:A:VAL:HG12	2:201:A:ACD:H201	9	0.35
(1,1587)	1:85:A:VAL:HG13	2:201:A:ACD:H201	9	0.35
(1,1580)	1:120:A:ILE:HG13	2:201:A:ACD:H9	3	0.35
(1,1443)	1:31:A:LYS:HA	1:31:A:LYS:HG2	26	0.35
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	3	0.35
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	5	0.35
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	12	0.35
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	11	0.35
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	11	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	11	0.35
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	4	0.35
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	3	0.35
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	5	0.35
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	6	0.35
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	17	0.35
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	22	0.35
(1,988)	1:44:A:MET:HA	1:44:A:MET:HG2	5	0.35
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	13	0.35
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	17	0.35
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	21	0.35
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	2	0.35
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	3	0.35
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	10	0.35
(1,736)	1:110:A:LYS:HB3	1:110:A:LYS:HG2	4	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	4	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	9	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	13	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	14	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	15	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	23	0.35
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	27	0.35
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	15	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	3	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	4	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	6	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	7	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	8	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	9	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	10	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	14	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	16	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	17	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	19	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	24	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	27	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	28	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	29	0.35
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	30	0.35
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	28	0.35
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	28	0.35
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	28	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	8	0.35
(1,88)	1:69:A:VAL:HA	1:69:A:VAL:HG11	1	0.35
(1,88)	1:69:A:VAL:HA	1:69:A:VAL:HG12	1	0.35
(1,88)	1:69:A:VAL:HA	1:69:A:VAL:HG13	1	0.35
(1,12)	1:22:A:LEU:H	1:21:A:SER:HB2	6	0.35
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	14	0.34
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	7	0.34
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	7	0.34
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	7	0.34
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	29	0.34
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	29	0.34
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	29	0.34
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	15	0.34
(1,1869)	1:82:A:ARG:H	1:69:A:VAL:HG21	1	0.34
(1,1869)	1:82:A:ARG:H	1:69:A:VAL:HG22	1	0.34
(1,1869)	1:82:A:ARG:H	1:69:A:VAL:HG23	1	0.34
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	7	0.34
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	7	0.34
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	7	0.34
(1,1341)	1:39:A:GLU:H	1:39:A:GLU:HB3	7	0.34
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	9	0.34
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	6	0.34
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	20	0.34
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	2	0.34
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	7	0.34
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	19	0.34
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	20	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	1	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	3	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	5	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	6	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	7	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	8	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	10	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	11	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	12	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	16	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	18	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	19	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	20	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	21	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	22	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	24	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	25	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	26	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	28	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	29	0.34
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	30	0.34
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	2	0.34
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	21	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	15	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	15	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	15	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	17	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	17	0.34
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	17	0.34
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	6	0.34
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	6	0.34
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	6	0.34
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	16	0.34
(1,371)	1:27:A:ASP:HA	1:27:A:ASP:HB2	21	0.34
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	8	0.34
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	8	0.34
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	8	0.34
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	16	0.34
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	16	0.34
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	16	0.34
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	6	0.34
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	6	0.34
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	6	0.34
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	15	0.34
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	25	0.33
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	6	0.33
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	6	0.33
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	6	0.33
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	9	0.33
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	9	0.33
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	9	0.33
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	15	0.33
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	15	0.33
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	15	0.33
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	23	0.33
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	23	0.33
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	23	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	27	0.33
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	27	0.33
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	27	0.33
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	21	0.33
(1,1942)	1:19:A:VAL:HG11	1:20:A:SER:HB2	5	0.33
(1,1942)	1:19:A:VAL:HG12	1:20:A:SER:HB2	5	0.33
(1,1942)	1:19:A:VAL:HG13	1:20:A:SER:HB2	5	0.33
(1,1914)	1:109:A:GLN:HE21	1:37:A:PHE:HB3	27	0.33
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	9	0.33
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	7	0.33
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB3	14	0.33
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB3	14	0.33
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB3	14	0.33
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	2	0.33
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	24	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	2	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	2	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	2	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	8	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	8	0.33
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	8	0.33
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	6	0.33
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	6	0.33
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	6	0.33
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	26	0.33
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	5	0.33
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	18	0.33
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	27	0.33
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	11	0.33
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	11	0.33
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	2	0.33
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	2	0.33
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	2	0.33
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	4	0.33
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	4	0.33
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	4	0.33
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	14	0.33
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	14	0.33
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	14	0.33
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	30	0.33
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	30	0.33
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	30	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,736)	1:110:A:LYS:HB3	1:110:A:LYS:HG2	26	0.33
(1,736)	1:110:A:LYS:HB3	1:110:A:LYS:HG2	27	0.33
(1,728)	1:31:A:LYS:H	1:30:A:GLU:HB2	22	0.33
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	2	0.33
(1,626)	1:61:A:GLU:HB2	1:61:A:GLU:HA	17	0.33
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	13	0.33
(1,400)	1:82:A:ARG:HB3	1:82:A:ARG:HD2	2	0.33
(1,400)	1:82:A:ARG:HB3	1:82:A:ARG:HD2	30	0.33
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	2	0.33
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	7	0.33
(1,177)	1:3:A:PHE:H	1:2:A:GLU:HB2	24	0.33
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	1	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	1	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	1	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	3	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	3	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	3	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	11	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	11	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	11	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	12	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	12	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	12	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	16	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	16	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	16	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	18	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	18	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	18	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	21	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	21	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	21	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	24	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	24	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	24	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	30	0.32
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	30	0.32
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	30	0.32
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	4	0.32
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	9	0.32
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	3	0.32
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	6	0.32
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	6	0.32
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	22	0.32
(1,1443)	1:31:A:LYS:HA	1:31:A:LYS:HG2	27	0.32
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	2	0.32
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	29	0.32
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	24	0.32
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	24	0.32
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	24	0.32
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	2	0.32
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	3	0.32
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	11	0.32
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	15	0.32
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	9	0.32
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	16	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	3	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	4	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	9	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	12	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	14	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	15	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	28	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	29	0.32
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	30	0.32
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	29	0.32
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	29	0.32
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	3	0.32
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	3	0.32
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	3	0.32
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	3	0.32
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	9	0.32
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	9	0.32
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	9	0.32
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	27	0.32
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	29	0.32
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	29	0.32
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	4	0.32
(1,59)	1:101:A:ALA:HB1	1:48:A:LYS:HG2	20	0.32
(1,59)	1:101:A:ALA:HB2	1:48:A:LYS:HG2	20	0.32
(1,59)	1:101:A:ALA:HB3	1:48:A:LYS:HG2	20	0.32
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	8	0.31
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	8	0.31
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	14	0.31
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	14	0.31
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	14	0.31
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	19	0.31
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	5	0.31
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	23	0.31
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	16	0.31
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	16	0.31
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	16	0.31
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	29	0.31
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	3	0.31
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	30	0.31
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	8	0.31
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	14	0.31
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	8	0.31
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	6	0.31
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	10	0.31
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	24	0.31
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	1	0.31
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	9	0.31
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	13	0.31
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	16	0.31
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	17	0.31
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	2	0.31
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	13	0.31
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	26	0.31
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	26	0.31
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	26	0.31
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	27	0.31
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	27	0.31
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	27	0.31
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	28	0.31
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	28	0.31
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	28	0.31
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	17	0.31
(1,792)	1:88:A:CYS:HB2	2:201:A:ACD:H201	22	0.31
(1,728)	1:31:A:LYS:H	1:30:A:GLU:HB2	9	0.31
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	1	0.31
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	30	0.31
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	25	0.31
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	25	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	25	0.31
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	1	0.31
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	1	0.31
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	1	0.31
(1,69)	1:30:A:GLU:HG2	1:30:A:GLU:HA	19	0.31
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	10	0.3
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	10	0.3
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	10	0.3
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	13	0.3
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	13	0.3
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	13	0.3
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	22	0.3
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	22	0.3
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	22	0.3
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	25	0.3
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	25	0.3
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	25	0.3
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	20	0.3
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	21	0.3
(1,1569)	1:14:A:TYR:HD1	1:54:A:MET:HG3	20	0.3
(1,1569)	1:14:A:TYR:HD2	1:54:A:MET:HG3	20	0.3
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	20	0.3
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	20	0.3
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	20	0.3
(1,1443)	1:31:A:LYS:HA	1:31:A:LYS:HG2	28	0.3
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	4	0.3
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	17	0.3
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	3	0.3
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	3	0.3
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	3	0.3
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	9	0.3
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	30	0.3
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	1	0.3
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	8	0.3
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	11	0.3
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	23	0.3
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	25	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	4	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	8	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	10	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	14	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	18	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	22	0.3
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	30	0.3
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	20	0.3
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	17	0.3
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	17	0.3
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	17	0.3
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	25	0.3
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	25	0.3
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	25	0.3
(1,1990)	1:19:A:VAL:HG21	1:24:A:ILE:HG12	17	0.29
(1,1990)	1:19:A:VAL:HG22	1:24:A:ILE:HG12	17	0.29
(1,1990)	1:19:A:VAL:HG23	1:24:A:ILE:HG12	17	0.29
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	6	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	3	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	7	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	8	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	11	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	14	0.29
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	15	0.29
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	13	0.29
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	12	0.29
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	12	0.29
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	12	0.29
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	24	0.29
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	24	0.29
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	24	0.29
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	25	0.29
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	17	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	4	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	4	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	4	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	5	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	5	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	5	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	23	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	23	0.29
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	23	0.29
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	1	0.29
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	1	0.29
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	1	0.29
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	26	0.29
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	1	0.29
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	1	0.29
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	13	0.29
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	13	0.29
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	13	0.29
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	7	0.29
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	16	0.29
(1,1106)	1:27:A:ASP:H	1:27:A:ASP:HB3	21	0.29
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	9	0.29
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	21	0.29
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	1	0.29
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	20	0.29
(1,839)	1:108:A:PHE:H	1:107:A:CYS:HB2	22	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	2	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	7	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	12	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	15	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	19	0.29
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	27	0.29
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	7	0.29
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	7	0.29
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	7	0.29
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	12	0.29
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	12	0.29
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	12	0.29
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	28	0.29
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	29	0.29
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	1	0.29
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	15	0.29
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	15	0.29
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	15	0.29
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	13	0.29
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	10	0.29
(1,1932)	1:8:A:THR:HA	1:120:A:ILE:HD11	20	0.28
(1,1932)	1:8:A:THR:HA	1:120:A:ILE:HD12	20	0.28
(1,1932)	1:8:A:THR:HA	1:120:A:ILE:HD13	20	0.28
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	9	0.28
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	16	0.28
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	16	0.28
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	16	0.28
(1,1780)	1:103:A:ARG:HD3	1:103:A:ARG:HH12	25	0.28
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1721)	1:54:A:MET:HA	1:54:A:MET:HG3	20	0.28
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	21	0.28
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	21	0.28
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	21	0.28
(1,1443)	1:31:A:LYS:HA	1:31:A:LYS:HG2	24	0.28
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	7	0.28
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	10	0.28
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	3	0.28
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	7	0.28
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	18	0.28
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	10	0.28
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	26	0.28
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	27	0.28
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	22	0.28
(1,833)	1:91:A:LYS:H	1:91:A:LYS:HG3	1	0.28
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	5	0.28
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	6	0.28
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	21	0.28
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	24	0.28
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	26	0.28
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	24	0.28
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	24	0.28
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	24	0.28
(1,400)	1:82:A:ARG:HB3	1:82:A:ARG:HD2	15	0.28
(1,194)	1:34:A:LYS:H	1:34:A:LYS:HB2	22	0.28
(1,69)	1:30:A:GLU:HG2	1:30:A:GLU:HA	9	0.28
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	16	0.27
(1,1929)	1:27:A:ASP:HA	1:27:A:ASP:HB2	21	0.27
(1,1758)	1:38:A:PRO:HD2	1:31:A:LYS:HD2	26	0.27
(1,1651)	1:50:A:VAL:HG11	2:201:A:ACD:H41	28	0.27
(1,1651)	1:50:A:VAL:HG12	2:201:A:ACD:H41	28	0.27
(1,1651)	1:50:A:VAL:HG13	2:201:A:ACD:H41	28	0.27
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	25	0.27
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	25	0.27
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	25	0.27
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	29	0.27
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	29	0.27
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	29	0.27
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	5	0.27
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	6	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	12	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	12	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	12	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	30	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	30	0.27
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	30	0.27
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	28	0.27
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	30	0.27
(1,833)	1:91:A:LYS:H	1:91:A:LYS:HG3	23	0.27
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	3	0.27
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	23	0.27
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	28	0.27
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	22	0.27
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	11	0.27
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	11	0.27
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	11	0.27
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	21	0.27
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	21	0.27
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	21	0.27
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	4	0.27
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	15	0.27
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	8	0.27
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	16	0.27
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	20	0.27
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	21	0.27
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	11	0.27
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	11	0.27
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	11	0.27
(1,504)	1:13:A:ARG:H	1:13:A:ARG:HB3	1	0.27
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG21	28	0.27
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG22	28	0.27
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG23	28	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	2	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	7	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	10	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	13	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	17	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	18	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	21	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	23	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	24	0.27
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	29	0.27
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	4	0.27
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	4	0.27
(1,194)	1:34:A:LYS:H	1:34:A:LYS:HB2	5	0.27
(1,194)	1:34:A:LYS:H	1:34:A:LYS:HB2	21	0.27
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	9	0.26
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	22	0.26
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	27	0.26
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	27	0.26
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	27	0.26
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	10	0.26
(1,1721)	1:54:A:MET:HA	1:54:A:MET:HG3	2	0.26
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	25	0.26
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	14	0.26
(1,1585)	1:85:A:VAL:HG11	2:201:A:ACD:H191	10	0.26
(1,1585)	1:85:A:VAL:HG12	2:201:A:ACD:H191	10	0.26
(1,1585)	1:85:A:VAL:HG13	2:201:A:ACD:H191	10	0.26
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	21	0.26
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	17	0.26
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	28	0.26
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	11	0.26
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	22	0.26
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	22	0.26
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	22	0.26
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	1	0.26
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	20	0.26
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	28	0.26
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	5	0.26
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB2	6	0.26
(1,813)	1:88:A:CYS:HB3	1:88:A:CYS:H	25	0.26
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	26	0.26
(1,728)	1:31:A:LYS:H	1:30:A:GLU:HB2	19	0.26
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	24	0.26
(1,504)	1:13:A:ARG:H	1:13:A:ARG:HB3	25	0.26
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	18	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	1	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	3	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	4	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	5	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	6	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	8	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	9	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	11	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	14	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	16	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	20	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	22	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	25	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	26	0.26
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	30	0.26
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	4	0.26
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	10	0.26
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG3	12	0.26
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	14	0.26
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	14	0.26
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	14	0.26
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	10	0.25
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	11	0.25
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	27	0.25
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	27	0.25
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	27	0.25
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	28	0.25
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	28	0.25
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	28	0.25
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	26	0.25
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	11	0.25
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	11	0.25
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	11	0.25
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	9	0.25
(1,1519)	1:50:A:VAL:H	1:50:A:VAL:HG21	28	0.25
(1,1519)	1:50:A:VAL:H	1:50:A:VAL:HG22	28	0.25
(1,1519)	1:50:A:VAL:H	1:50:A:VAL:HG23	28	0.25
(1,1425)	1:52:A:ASN:HB3	1:52:A:ASN:H	25	0.25
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	16	0.25
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	16	0.25
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	16	0.25
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	1	0.25
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	22	0.25
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	28	0.25
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	28	0.25
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	28	0.25
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	28	0.25
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	28	0.25
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	28	0.25
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	18	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	21	0.25
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	30	0.25
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	4	0.25
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	8	0.25
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	18	0.25
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	24	0.25
(1,987)	1:39:A:GLU:HA	1:39:A:GLU:HB2	7	0.25
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	14	0.25
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	23	0.25
(1,504)	1:13:A:ARG:H	1:13:A:ARG:HB3	8	0.25
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	27	0.25
(1,439)	1:106:A:LYS:HB3	1:106:A:LYS:HG3	28	0.25
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD1	10	0.25
(1,417)	1:63:A:PRO:HD2	1:57:A:PHE:HD2	10	0.25
(1,401)	1:82:A:ARG:HB2	1:82:A:ARG:HD2	15	0.25
(1,238)	1:113:A:LEU:HD21	1:117:A:LYS:HE2	27	0.25
(1,238)	1:113:A:LEU:HD22	1:117:A:LYS:HE2	27	0.25
(1,238)	1:113:A:LEU:HD23	1:117:A:LYS:HE2	27	0.25
(1,69)	1:30:A:GLU:HG2	1:30:A:GLU:HA	22	0.25
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	4	0.24
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG11	6	0.24
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG12	6	0.24
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG13	6	0.24
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	4	0.24
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	25	0.24
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	9	0.24
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	9	0.24
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	9	0.24
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	16	0.24
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	13	0.24
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	30	0.24
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	30	0.24
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	30	0.24
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	8	0.24
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	9	0.24
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	9	0.24
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	9	0.24
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	28	0.24
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	23	0.24
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB2	8	0.24
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	17	0.24
(1,583)	1:33:A:LYS:HA	1:33:A:LYS:HG2	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	16	0.24
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG21	23	0.24
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG22	23	0.24
(1,481)	1:4:A:THR:HA	1:4:A:THR:HG23	23	0.24
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	9	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	1	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	3	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	8	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	16	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	17	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	27	0.24
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	29	0.24
(1,219)	1:5:A:VAL:HG11	1:71:A:GLN:HE22	13	0.24
(1,219)	1:5:A:VAL:HG12	1:71:A:GLN:HE22	13	0.24
(1,219)	1:5:A:VAL:HG13	1:71:A:GLN:HE22	13	0.24
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH12	24	0.23
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	8	0.23
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	8	0.23
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	8	0.23
(1,1785)	1:44:A:MET:HE1	1:39:A:GLU:HG3	7	0.23
(1,1785)	1:44:A:MET:HE2	1:39:A:GLU:HG3	7	0.23
(1,1785)	1:44:A:MET:HE3	1:39:A:GLU:HG3	7	0.23
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB3	2	0.23
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB3	2	0.23
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB3	2	0.23
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	4	0.23
(1,1680)	1:98:A:CYS:HA	1:48:A:LYS:HG3	14	0.23
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	19	0.23
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	19	0.23
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	19	0.23
(1,1425)	1:52:A:ASN:HB3	1:52:A:ASN:H	23	0.23
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	15	0.23
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	19	0.23
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	7	0.23
(1,1184)	1:7:A:THR:HG21	1:7:A:THR:HA	18	0.23
(1,1184)	1:7:A:THR:HG22	1:7:A:THR:HA	18	0.23
(1,1184)	1:7:A:THR:HG23	1:7:A:THR:HA	18	0.23
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	15	0.23
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	17	0.23
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	28	0.23
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	15	0.23
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB2	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	3	0.23
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	8	0.23
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	16	0.23
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	10	0.23
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	10	0.23
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	10	0.23
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	22	0.23
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	22	0.23
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	22	0.23
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	2	0.23
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	10	0.23
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	14	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	2	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	4	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	6	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	12	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	14	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	15	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	19	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	20	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	22	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	23	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	24	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	26	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	28	0.23
(1,245)	1:36:A:GLU:HB2	1:36:A:GLU:HG2	30	0.23
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	12	0.23
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	14	0.23
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	19	0.23
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	20	0.23
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG2	11	0.23
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	27	0.22
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	3	0.22
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	5	0.22
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	5	0.22
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	5	0.22
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	26	0.22
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	27	0.22
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	5	0.22
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	5	0.22
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	5	0.22
(1,1608)	1:63:A:PRO:HG3	2:201:A:ACD:H201	30	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	20	0.22
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	25	0.22
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	7	0.22
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	7	0.22
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	7	0.22
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	8	0.22
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	8	0.22
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	8	0.22
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	9	0.22
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	30	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	7	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	7	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	7	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	14	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	14	0.22
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	14	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	1	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	3	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	5	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	12	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	14	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	18	0.22
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	20	0.22
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	16	0.22
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	30	0.22
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	9	0.22
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	10	0.22
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	11	0.22
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	26	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	2	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	4	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	6	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	10	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	12	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	21	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	23	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	24	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	26	0.22
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	28	0.22
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	1	0.22
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	9	0.22
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	9	0.22
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	14	0.22
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	4	0.22
(1,583)	1:33:A:LYS:HA	1:33:A:LYS:HG2	3	0.22
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	23	0.22
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	2	0.22
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	8	0.22
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	9	0.22
(1,401)	1:82:A:ARG:HB2	1:82:A:ARG:HD2	2	0.22
(1,401)	1:82:A:ARG:HB2	1:82:A:ARG:HD2	30	0.22
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	3	0.22
(1,181)	1:11:A:LEU:H	1:10:A:ASP:HB2	9	0.22
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	1	0.22
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	3	0.22
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	5	0.22
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	15	0.22
(1,125)	1:23:A:ASN:HB3	1:23:A:ASN:HA	18	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	27	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	27	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	27	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	28	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	28	0.22
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	28	0.22
(1,26)	1:9:A:GLU:HA	1:9:A:GLU:HG2	1	0.22
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	3	0.22
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	28	0.21
(1,1944)	1:89:A:VAL:H	1:85:A:VAL:HG11	10	0.21
(1,1944)	1:89:A:VAL:H	1:85:A:VAL:HG12	10	0.21
(1,1944)	1:89:A:VAL:H	1:85:A:VAL:HG13	10	0.21
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG11	13	0.21
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG12	13	0.21
(1,1941)	1:66:A:ASP:HA	1:65:A:VAL:HG13	13	0.21
(1,1862)	1:93:A:THR:H	1:103:A:ARG:HH21	25	0.21
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	16	0.21
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	25	0.21
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	3	0.21
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	15	0.21
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	13	0.21
(1,1425)	1:52:A:ASN:HB3	1:52:A:ASN:H	28	0.21
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	26	0.21
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	6	0.21
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	6	0.21
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	22	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	5	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	5	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	5	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	26	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	26	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	26	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	27	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	27	0.21
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	27	0.21
(1,1260)	1:23:A:ASN:HB3	1:23:A:ASN:HA	15	0.21
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	23	0.21
(1,1119)	1:123:A:ASP:H	1:123:A:ASP:HB3	26	0.21
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	20	0.21
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	15	0.21
(1,975)	1:96:A:ASN:HD22	1:96:A:ASN:HB3	27	0.21
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	10	0.21
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	15	0.21
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	24	0.21
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	25	0.21
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	20	0.21
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	27	0.21
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	27	0.21
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	27	0.21
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	19	0.21
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	6	0.21
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	19	0.21
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	24	0.21
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	26	0.2
(1,1828)	1:82:A:ARG:HB3	1:86:A:LEU:HD11	1	0.2
(1,1828)	1:82:A:ARG:HB3	1:86:A:LEU:HD12	1	0.2
(1,1828)	1:82:A:ARG:HB3	1:86:A:LEU:HD13	1	0.2
(1,1756)	1:81:A:VAL:HG21	1:78:A:ALA:HA	23	0.2
(1,1756)	1:81:A:VAL:HG22	1:78:A:ALA:HA	23	0.2
(1,1756)	1:81:A:VAL:HG23	1:78:A:ALA:HA	23	0.2
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD11	14	0.2
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD12	14	0.2
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD13	14	0.2
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD11	14	0.2
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD12	14	0.2
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD13	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD11	14	0.2
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD12	14	0.2
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD13	14	0.2
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	2	0.2
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	24	0.2
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	28	0.2
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	19	0.2
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	19	0.2
(1,1704)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	19	0.2
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	23	0.2
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	8	0.2
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	13	0.2
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	13	0.2
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	13	0.2
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	13	0.2
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	10	0.2
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	10	0.2
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	10	0.2
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	11	0.2
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	11	0.2
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	11	0.2
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	10	0.2
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	10	0.2
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	10	0.2
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	17	0.2
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	16	0.2
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	5	0.2
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	10	0.2
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	29	0.2
(1,778)	1:95:A:ASN:HA	1:95:A:ASN:HB3	18	0.2
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	5	0.2
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	28	0.2
(1,194)	1:34:A:LYS:H	1:34:A:LYS:HB2	25	0.2
(1,150)	1:95:A:ASN:HA	1:92:A:ASN:HD22	7	0.2
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	30	0.2
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	6	0.2
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	24	0.2
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	18	0.19
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	19	0.19
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	1	0.19
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	19	0.19
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	5	0.19
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	5	0.19
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	14	0.19
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	14	0.19
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	14	0.19
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	16	0.19
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	16	0.19
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	16	0.19
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	6	0.19
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	27	0.19
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	2	0.19
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	10	0.19
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	29	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	12	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	12	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	12	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	15	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	15	0.19
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	15	0.19
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	12	0.19
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	12	0.19
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	12	0.19
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	18	0.19
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	18	0.19
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	18	0.19
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	22	0.19
(1,1094)	1:80:A:GLU:HA	1:80:A:GLU:HG3	15	0.19
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	3	0.19
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG21	21	0.19
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG22	21	0.19
(1,548)	1:91:A:LYS:HB3	1:93:A:THR:HG23	21	0.19
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	19	0.19
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	25	0.19
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	28	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	7	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	13	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	16	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	17	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	19	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	23	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	25	0.19
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	29	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9)	1:90:A:ASP:H	1:90:A:ASP:HB3	6	0.19
(1,1972)	1:31:A:LYS:HA	1:36:A:GLU:HB3	2	0.18
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	14	0.18
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	26	0.18
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	25	0.18
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	10	0.18
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	13	0.18
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	13	0.18
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	13	0.18
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD11	25	0.18
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD12	25	0.18
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD13	25	0.18
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD11	25	0.18
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD12	25	0.18
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD13	25	0.18
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD11	25	0.18
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD12	25	0.18
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD13	25	0.18
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	25	0.18
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	11	0.18
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	11	0.18
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	11	0.18
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	19	0.18
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	19	0.18
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	19	0.18
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	14	0.18
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	26	0.18
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	4	0.18
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	24	0.18
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	3	0.18
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	3	0.18
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	3	0.18
(1,1425)	1:52:A:ASN:HB3	1:52:A:ASN:H	18	0.18
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	2	0.18
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	2	0.18
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	2	0.18
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	14	0.18
(1,1319)	1:5:A:VAL:HG21	1:71:A:GLN:HE22	17	0.18
(1,1319)	1:5:A:VAL:HG22	1:71:A:GLN:HE22	17	0.18
(1,1319)	1:5:A:VAL:HG23	1:71:A:GLN:HE22	17	0.18
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	1	0.18
(1,1279)	1:31:A:LYS:HB3	1:31:A:LYS:HD3	28	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1206)	1:12:A:GLN:HA	1:12:A:GLN:HG3	10	0.18
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	9	0.18
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	30	0.18
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	19	0.18
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	6	0.18
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	24	0.18
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	29	0.18
(1,747)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	14	0.18
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	5	0.18
(1,452)	1:111:A:ASN:H	1:111:A:ASN:HB2	6	0.18
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	22	0.18
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	17	0.18
(1,333)	1:36:A:GLU:HG3	1:36:A:GLU:HA	13	0.18
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	28	0.18
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	24	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	1	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	2	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	4	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	5	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	8	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	10	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	11	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	12	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	18	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	20	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	21	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	22	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	27	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	28	0.18
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	30	0.18
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	17	0.17
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	12	0.17
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	13	0.17
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	26	0.17
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	26	0.17
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	26	0.17
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	13	0.17
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	13	0.17
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	13	0.17
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	21	0.17
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	21	0.17
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	21	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:88:A:CYS:HB2	2:201:A:ACD:H201	20	0.17
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	21	0.17
(1,1489)	1:117:A:LYS:HG2	1:117:A:LYS:HE3	30	0.17
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	18	0.17
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	18	0.17
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	18	0.17
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	1	0.17
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	1	0.17
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	1	0.17
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	11	0.17
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	22	0.17
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	22	0.17
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	22	0.17
(1,1308)	1:89:A:VAL:HA	2:201:A:ACD:H201	15	0.17
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	20	0.17
(1,1193)	1:3:A:PHE:H	1:2:A:GLU:HA	14	0.17
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	17	0.17
(1,1064)	1:84:A:GLU:H	1:83:A:THR:HG21	25	0.17
(1,1064)	1:84:A:GLU:H	1:83:A:THR:HG22	25	0.17
(1,1064)	1:84:A:GLU:H	1:83:A:THR:HG23	25	0.17
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	2	0.17
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	4	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	1	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	2	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	3	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	4	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	5	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	7	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	8	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	9	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	10	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	11	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	12	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	13	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	14	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	15	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	16	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	17	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	18	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	19	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	20	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	21	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	23	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	24	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	26	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	27	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	28	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	29	0.17
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	30	0.17
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	17	0.17
(1,463)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	9	0.17
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	2	0.17
(1,304)	1:84:A:GLU:H	1:84:A:GLU:HG3	2	0.17
(1,209)	1:65:A:VAL:HG21	1:65:A:VAL:HA	6	0.17
(1,209)	1:65:A:VAL:HG22	1:65:A:VAL:HA	6	0.17
(1,209)	1:65:A:VAL:HG23	1:65:A:VAL:HA	6	0.17
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	17	0.17
(1,177)	1:3:A:PHE:H	1:2:A:GLU:HB2	8	0.17
(1,109)	1:81:A:VAL:HA	1:84:A:GLU:HG2	11	0.17
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	2	0.17
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	8	0.17
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	3	0.17
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	6	0.17
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	9	0.17
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	14	0.17
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	15	0.17
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	11	0.16
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	5	0.16
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	14	0.16
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	14	0.16
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	14	0.16
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	23	0.16
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	23	0.16
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	23	0.16
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	28	0.16
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	28	0.16
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	28	0.16
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	23	0.16
(1,1716)	1:110:A:LYS:HA	1:110:A:LYS:HG3	4	0.16
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	6	0.16
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	6	0.16
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	6	0.16
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	15	0.16
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	15	0.16
(1,1644)	1:11:A:LEU:HD11	2:201:A:ACD:H41	28	0.16
(1,1644)	1:11:A:LEU:HD12	2:201:A:ACD:H41	28	0.16
(1,1644)	1:11:A:LEU:HD13	2:201:A:ACD:H41	28	0.16
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	17	0.16
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	17	0.16
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	17	0.16
(1,1405)	1:36:A:GLU:HG3	1:36:A:GLU:HA	13	0.16
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	23	0.16
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	13	0.16
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	13	0.16
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	13	0.16
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB1	6	0.16
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB2	6	0.16
(1,1278)	1:48:A:LYS:HB3	1:101:A:ALA:HB3	6	0.16
(1,1261)	1:5:A:VAL:HG11	1:71:A:GLN:HE21	4	0.16
(1,1261)	1:5:A:VAL:HG12	1:71:A:GLN:HE21	4	0.16
(1,1261)	1:5:A:VAL:HG13	1:71:A:GLN:HE21	4	0.16
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	30	0.16
(1,1045)	1:28:A:TYR:H	1:28:A:TYR:HD1	21	0.16
(1,1045)	1:28:A:TYR:H	1:28:A:TYR:HD2	21	0.16
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	9	0.16
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	14	0.16
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	24	0.16
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	25	0.16
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	8	0.16
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	27	0.16
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	13	0.16
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	13	0.16
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	13	0.16
(1,790)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	29	0.16
(1,614)	1:43:A:THR:HG21	1:38:A:PRO:HD3	19	0.16
(1,614)	1:43:A:THR:HG22	1:38:A:PRO:HD3	19	0.16
(1,614)	1:43:A:THR:HG23	1:38:A:PRO:HD3	19	0.16
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	6	0.16
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	22	0.16
(1,593)	1:61:A:GLU:HB3	1:61:A:GLU:HG3	25	0.16
(1,561)	1:106:A:LYS:HB2	1:103:A:ARG:HA	20	0.16
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	1	0.16
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	8	0.16
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	12	0.16
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	30	0.16
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	16	0.16
(1,362)	1:106:A:LYS:HG3	1:106:A:LYS:HE3	24	0.16
(1,304)	1:84:A:GLU:H	1:84:A:GLU:HG3	30	0.16
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	5	0.16
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	12	0.16
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	24	0.16
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	25	0.16
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	26	0.16
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG3	20	0.16
(1,84)	1:9:A:GLU:HA	1:9:A:GLU:HG3	29	0.16
(1,1914)	1:109:A:GLN:HE21	1:37:A:PHE:HB3	18	0.15
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	21	0.15
(1,1856)	1:111:A:ASN:HD22	1:110:A:LYS:HE3	3	0.15
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	14	0.15
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	6	0.15
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	6	0.15
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	6	0.15
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	29	0.15
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	29	0.15
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	29	0.15
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	18	0.15
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	18	0.15
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	18	0.15
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	15	0.15
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	15	0.15
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	15	0.15
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	21	0.15
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	3	0.15
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	3	0.15
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	3	0.15
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	13	0.15
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	13	0.15
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	13	0.15
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	18	0.15
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	18	0.15
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	18	0.15
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	12	0.15
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	12	0.15
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	12	0.15
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	17	0.15
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	17	0.15
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	29	0.15
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	29	0.15
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	29	0.15
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	7	0.15
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	7	0.15
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	7	0.15
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	8	0.15
(1,1357)	1:88:A:CYS:HB3	2:201:A:ACD:H201	6	0.15
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	14	0.15
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	14	0.15
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	14	0.15
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	18	0.15
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	18	0.15
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	18	0.15
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	21	0.15
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	21	0.15
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	21	0.15
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	29	0.15
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	29	0.15
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	29	0.15
(1,1302)	1:103:A:ARG:HA	1:103:A:ARG:HG2	13	0.15
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	10	0.15
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	10	0.15
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	10	0.15
(1,1193)	1:3:A:PHE:H	1:2:A:GLU:HA	24	0.15
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	7	0.15
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	21	0.15
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	19	0.15
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	27	0.15
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB3	12	0.15
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	10	0.15
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	15	0.15
(1,993)	1:95:A:ASN:HA	1:95:A:ASN:HB3	18	0.15
(1,554)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	3	0.15
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	16	0.15
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	26	0.15
(1,400)	1:82:A:ARG:HB3	1:82:A:ARG:HD2	17	0.15
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	2	0.15
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	20	0.15
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	21	0.15
(1,183)	1:91:A:LYS:HB3	1:91:A:LYS:HG2	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:11:A:LEU:H	1:10:A:ASP:HB2	28	0.15
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	15	0.15
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	21	0.15
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	26	0.15
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	2	0.15
(1,18)	1:106:A:LYS:HB3	1:106:A:LYS:HA	26	0.15
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	14	0.14
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	15	0.14
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	15	0.14
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	15	0.14
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	19	0.14
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	19	0.14
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	19	0.14
(1,1775)	1:16:A:THR:HG21	1:17:A:GLU:HG3	23	0.14
(1,1775)	1:16:A:THR:HG22	1:17:A:GLU:HG3	23	0.14
(1,1775)	1:16:A:THR:HG23	1:17:A:GLU:HG3	23	0.14
(1,1758)	1:38:A:PRO:HD2	1:31:A:LYS:HD2	29	0.14
(1,1628)	1:104:A:GLY:HA3	2:201:A:ACD:H201	9	0.14
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG21	28	0.14
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG22	28	0.14
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG23	28	0.14
(1,1279)	1:31:A:LYS:HB3	1:31:A:LYS:HD3	27	0.14
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	22	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	7	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	7	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	7	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	12	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	12	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	12	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	13	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	13	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	13	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD11	29	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD12	29	0.14
(1,1202)	1:64:A:LEU:HB2	1:64:A:LEU:HD13	29	0.14
(1,1188)	1:12:A:GLN:H	1:12:A:GLN:HG2	5	0.14
(1,1188)	1:12:A:GLN:H	1:12:A:GLN:HG2	24	0.14
(1,1096)	1:62:A:GLY:HA2	1:63:A:PRO:HD2	7	0.14
(1,1036)	1:60:A:THR:H	1:59:A:ASP:HB2	13	0.14
(1,834)	1:77:A:ASP:HB3	1:80:A:GLU:HB3	30	0.14
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	4	0.14
(1,614)	1:43:A:THR:HG21	1:38:A:PRO:HD3	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:43:A:THR:HG22	1:38:A:PRO:HD3	16	0.14
(1,614)	1:43:A:THR:HG23	1:38:A:PRO:HD3	16	0.14
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	18	0.14
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	27	0.14
(1,415)	1:89:A:VAL:HG21	2:201:A:ACD:H201	20	0.14
(1,415)	1:89:A:VAL:HG22	2:201:A:ACD:H201	20	0.14
(1,415)	1:89:A:VAL:HG23	2:201:A:ACD:H201	20	0.14
(1,304)	1:84:A:GLU:H	1:84:A:GLU:HG3	9	0.14
(1,103)	1:115:A:LEU:H	1:114:A:SER:HB2	5	0.14
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	8	0.14
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	17	0.13
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD11	10	0.13
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD12	10	0.13
(1,1729)	1:54:A:MET:HE1	1:11:A:LEU:HD13	10	0.13
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD11	10	0.13
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD12	10	0.13
(1,1729)	1:54:A:MET:HE2	1:11:A:LEU:HD13	10	0.13
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD11	10	0.13
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD12	10	0.13
(1,1729)	1:54:A:MET:HE3	1:11:A:LEU:HD13	10	0.13
(1,1716)	1:110:A:LYS:HA	1:110:A:LYS:HG3	26	0.13
(1,1716)	1:110:A:LYS:HA	1:110:A:LYS:HG3	27	0.13
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	23	0.13
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	23	0.13
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	23	0.13
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	24	0.13
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	24	0.13
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	24	0.13
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	17	0.13
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	17	0.13
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	17	0.13
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	10	0.13
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	10	0.13
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	10	0.13
(1,1653)	1:50:A:VAL:HG21	1:14:A:TYR:HB2	16	0.13
(1,1653)	1:50:A:VAL:HG22	1:14:A:TYR:HB2	16	0.13
(1,1653)	1:50:A:VAL:HG23	1:14:A:TYR:HB2	16	0.13
(1,1648)	1:88:A:CYS:HB3	2:201:A:ACD:H201	20	0.13
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	5	0.13
(1,1569)	1:14:A:TYR:HD1	1:54:A:MET:HG3	2	0.13
(1,1569)	1:14:A:TYR:HD2	1:54:A:MET:HG3	2	0.13
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	6	0.13
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	6	0.13
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	22	0.13
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	22	0.13
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	22	0.13
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	7	0.13
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	7	0.13
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	7	0.13
(1,1389)	1:14:A:TYR:HD1	1:11:A:LEU:HD11	29	0.13
(1,1389)	1:14:A:TYR:HD1	1:11:A:LEU:HD12	29	0.13
(1,1389)	1:14:A:TYR:HD1	1:11:A:LEU:HD13	29	0.13
(1,1389)	1:14:A:TYR:HD2	1:11:A:LEU:HD11	29	0.13
(1,1389)	1:14:A:TYR:HD2	1:11:A:LEU:HD12	29	0.13
(1,1389)	1:14:A:TYR:HD2	1:11:A:LEU:HD13	29	0.13
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	5	0.13
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	5	0.13
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	5	0.13
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	15	0.13
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	15	0.13
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	15	0.13
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	17	0.13
(1,1188)	1:12:A:GLN:H	1:12:A:GLN:HG2	3	0.13
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	24	0.13
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	7	0.13
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	23	0.13
(1,1020)	1:103:A:ARG:HB3	1:103:A:ARG:H	16	0.13
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	4	0.13
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	8	0.13
(1,747)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	6	0.13
(1,463)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	1	0.13
(1,372)	1:123:A:ASP:H	1:123:A:ASP:HB2	25	0.13
(1,266)	1:30:A:GLU:HG2	1:30:A:GLU:HA	19	0.13
(1,209)	1:65:A:VAL:HG21	1:65:A:VAL:HA	13	0.13
(1,209)	1:65:A:VAL:HG22	1:65:A:VAL:HA	13	0.13
(1,209)	1:65:A:VAL:HG23	1:65:A:VAL:HA	13	0.13
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	7	0.13
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	13	0.13
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	28	0.13
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	7	0.12
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	3	0.12
(1,1889)	1:35:A:TRP:H	1:35:A:TRP:HD1	27	0.12
(1,1827)	1:16:A:THR:HG21	1:20:A:SER:HB2	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:16:A:THR:HG22	1:20:A:SER:HB2	12	0.12
(1,1827)	1:16:A:THR:HG23	1:20:A:SER:HB2	12	0.12
(1,1816)	1:16:A:THR:HG21	1:17:A:GLU:HA	11	0.12
(1,1816)	1:16:A:THR:HG22	1:17:A:GLU:HA	11	0.12
(1,1816)	1:16:A:THR:HG23	1:17:A:GLU:HA	11	0.12
(1,1775)	1:16:A:THR:HG21	1:19:A:VAL:HB	30	0.12
(1,1775)	1:16:A:THR:HG22	1:19:A:VAL:HB	30	0.12
(1,1775)	1:16:A:THR:HG23	1:19:A:VAL:HB	30	0.12
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	22	0.12
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	22	0.12
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	22	0.12
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	8	0.12
(1,1728)	1:89:A:VAL:HA	1:63:A:PRO:HG3	14	0.12
(1,1726)	1:20:A:SER:H	1:16:A:THR:HA	24	0.12
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	10	0.12
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	10	0.12
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	10	0.12
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	29	0.12
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	29	0.12
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	29	0.12
(1,1680)	1:98:A:CYS:HA	1:48:A:LYS:HG3	7	0.12
(1,1680)	1:98:A:CYS:HA	1:48:A:LYS:HG3	30	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	21	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	21	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	21	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	30	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	30	0.12
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	30	0.12
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	23	0.12
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	23	0.12
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	23	0.12
(1,1596)	1:63:A:PRO:HB2	2:201:A:ACD:H201	21	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	13	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	13	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	13	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG21	20	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG22	20	0.12
(1,1397)	1:5:A:VAL:H	1:4:A:THR:HG23	20	0.12
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	5	0.12
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	6	0.12
(1,1369)	1:33:A:LYS:HA	1:33:A:LYS:HG2	27	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	3	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	5	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	11	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	13	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	17	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	20	0.12
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	25	0.12
(1,1275)	1:119:A:SER:HB2	1:119:A:SER:H	18	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD21	7	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD22	7	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD23	7	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD21	12	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD22	12	0.12
(1,1238)	1:64:A:LEU:H	1:64:A:LEU:HD23	12	0.12
(1,1188)	1:12:A:GLN:H	1:12:A:GLN:HG2	25	0.12
(1,1157)	1:121:A:LYS:HA	1:121:A:LYS:HG3	19	0.12
(1,1053)	1:99:A:HIS:HB3	1:96:A:ASN:HB2	29	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	2	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	3	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	5	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	7	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	9	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	10	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	11	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	13	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	14	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	18	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	20	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	23	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	24	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	25	0.12
(1,929)	1:17:A:GLU:HB3	1:17:A:GLU:HG3	29	0.12
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	20	0.12
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	20	0.12
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	20	0.12
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	25	0.12
(1,408)	1:70:A:HIS:HB3	1:71:A:GLN:H	19	0.12
(1,306)	1:106:A:LYS:HB2	1:107:A:CYS:H	23	0.12
(1,304)	1:84:A:GLU:H	1:84:A:GLU:HG3	28	0.12
(1,236)	1:16:A:THR:HG21	1:17:A:GLU:H	25	0.12
(1,236)	1:16:A:THR:HG22	1:17:A:GLU:H	25	0.12
(1,236)	1:16:A:THR:HG23	1:17:A:GLU:H	25	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:3:A:PHE:H	1:2:A:GLU:HB2	28	0.12
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD21	23	0.12
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD22	23	0.12
(1,82)	1:61:A:GLU:HB3	1:64:A:LEU:HD23	23	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	1	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	11	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	12	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	14	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	16	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	17	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	18	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	19	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	23	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	25	0.12
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	29	0.12
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	9	0.12
(1,1925)	1:31:A:LYS:HA	1:36:A:GLU:HB2	10	0.11
(1,1910)	1:9:A:GLU:HA	1:12:A:GLN:HG2	8	0.11
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	18	0.11
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	18	0.11
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	18	0.11
(1,1833)	1:38:A:PRO:HD2	1:31:A:LYS:HD3	9	0.11
(1,1775)	1:16:A:THR:HG21	1:17:A:GLU:HG3	20	0.11
(1,1775)	1:16:A:THR:HG22	1:17:A:GLU:HG3	20	0.11
(1,1775)	1:16:A:THR:HG23	1:17:A:GLU:HG3	20	0.11
(1,1775)	1:16:A:THR:HG21	1:17:A:GLU:HG3	29	0.11
(1,1775)	1:16:A:THR:HG22	1:17:A:GLU:HG3	29	0.11
(1,1775)	1:16:A:THR:HG23	1:17:A:GLU:HG3	29	0.11
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	2	0.11
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	2	0.11
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	2	0.11
(1,1710)	1:89:A:VAL:HG11	1:63:A:PRO:HD3	25	0.11
(1,1710)	1:89:A:VAL:HG12	1:63:A:PRO:HD3	25	0.11
(1,1710)	1:89:A:VAL:HG13	1:63:A:PRO:HD3	25	0.11
(1,1680)	1:98:A:CYS:HA	1:48:A:LYS:HG3	16	0.11
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	12	0.11
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	12	0.11
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	12	0.11
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	26	0.11
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	26	0.11
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	26	0.11
(1,1640)	1:89:A:VAL:HG21	2:201:A:ACD:H201	27	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1640)	1:89:A:VAL:HG22	2:201:A:ACD:H201	27	0.11
(1,1640)	1:89:A:VAL:HG23	2:201:A:ACD:H201	27	0.11
(1,1590)	1:63:A:PRO:HG2	2:201:A:ACD:H201	8	0.11
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG21	23	0.11
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG22	23	0.11
(1,1355)	1:4:A:THR:HA	1:4:A:THR:HG23	23	0.11
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	19	0.11
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	19	0.11
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	19	0.11
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	27	0.11
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	27	0.11
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	27	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	4	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	7	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	9	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	10	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	15	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	16	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	19	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	21	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	22	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	23	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	24	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	26	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	27	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	28	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	29	0.11
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	30	0.11
(1,1275)	1:119:A:SER:HB2	1:119:A:SER:H	17	0.11
(1,1142)	1:99:A:HIS:HB2	1:96:A:ASN:HB2	15	0.11
(1,1108)	1:69:A:VAL:HA	1:69:A:VAL:HG11	1	0.11
(1,1108)	1:69:A:VAL:HA	1:69:A:VAL:HG12	1	0.11
(1,1108)	1:69:A:VAL:HA	1:69:A:VAL:HG13	1	0.11
(1,1089)	1:38:A:PRO:HB2	1:38:A:PRO:HA	1	0.11
(1,945)	1:122:A:LYS:HB2	1:122:A:LYS:HA	26	0.11
(1,811)	1:52:A:ASN:HB2	1:49:A:CYS:HA	30	0.11
(1,747)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	8	0.11
(1,747)	1:112:A:ASN:HB2	1:115:A:LEU:HB3	19	0.11
(1,433)	1:76:A:ARG:HA	1:76:A:ARG:HG3	3	0.11
(1,333)	1:36:A:GLU:HG3	1:36:A:GLU:HA	7	0.11
(1,333)	1:36:A:GLU:HG3	1:36:A:GLU:HA	18	0.11
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	4	0.11
(1,260)	1:84:A:GLU:HG3	1:84:A:GLU:HA	17	0.11
(1,49)	1:20:A:SER:H	1:20:A:SER:HB3	14	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	3	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	4	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	5	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	6	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	9	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	22	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	27	0.11
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	30	0.11
(1,19)	1:81:A:VAL:H	1:80:A:GLU:HB3	21	0.11
(2,8)	1:43:A:THR:H	1:40:A:ASP:OD1	16	0.1
(1,1906)	1:10:A:ASP:HB2	1:6:A:SER:HB2	24	0.1
(1,1836)	1:85:A:VAL:HG11	1:63:A:PRO:HB2	6	0.1
(1,1836)	1:85:A:VAL:HG12	1:63:A:PRO:HB2	6	0.1
(1,1836)	1:85:A:VAL:HG13	1:63:A:PRO:HB2	6	0.1
(1,1746)	1:16:A:THR:HG21	1:20:A:SER:HB2	1	0.1
(1,1746)	1:16:A:THR:HG22	1:20:A:SER:HB2	1	0.1
(1,1746)	1:16:A:THR:HG23	1:20:A:SER:HB2	1	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	10	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	10	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	10	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD21	29	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD22	29	0.1
(1,1669)	1:45:A:CYS:HB2	1:22:A:LEU:HD23	29	0.1
(1,1644)	1:11:A:LEU:HD11	2:201:A:ACD:H41	9	0.1
(1,1644)	1:11:A:LEU:HD12	2:201:A:ACD:H41	9	0.1
(1,1644)	1:11:A:LEU:HD13	2:201:A:ACD:H41	9	0.1
(1,1517)	1:85:A:VAL:H	1:85:A:VAL:HG21	10	0.1
(1,1517)	1:85:A:VAL:H	1:85:A:VAL:HG22	10	0.1
(1,1517)	1:85:A:VAL:H	1:85:A:VAL:HG23	10	0.1
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG11	14	0.1
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG12	14	0.1
(1,1483)	1:90:A:ASP:H	1:89:A:VAL:HG13	14	0.1
(1,1309)	1:5:A:VAL:HG21	1:5:A:VAL:H	28	0.1
(1,1309)	1:5:A:VAL:HG22	1:5:A:VAL:H	28	0.1
(1,1309)	1:5:A:VAL:HG23	1:5:A:VAL:H	28	0.1
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	1	0.1
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	6	0.1
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	8	0.1
(1,1299)	1:112:A:ASN:HB2	1:112:A:ASN:HA	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1279)	1:31:A:LYS:HB3	1:31:A:LYS:HD3	24	0.1
(1,1225)	1:62:A:GLY:HA2	1:63:A:PRO:HD3	7	0.1
(1,1111)	1:63:A:PRO:HG3	2:201:A:ACD:H201	7	0.1
(1,1020)	1:103:A:ARG:HB3	1:103:A:ARG:H	10	0.1
(1,1020)	1:103:A:ARG:HB3	1:103:A:ARG:H	27	0.1
(1,945)	1:122:A:LYS:HB2	1:122:A:LYS:HA	1	0.1
(1,808)	1:43:A:THR:HG21	1:38:A:PRO:HD3	6	0.1
(1,808)	1:43:A:THR:HG22	1:38:A:PRO:HD3	6	0.1
(1,808)	1:43:A:THR:HG23	1:38:A:PRO:HD3	6	0.1
(1,765)	1:63:A:PRO:HG2	2:201:A:ACD:H201	28	0.1
(1,614)	1:43:A:THR:HG21	1:38:A:PRO:HD3	1	0.1
(1,614)	1:43:A:THR:HG22	1:38:A:PRO:HD3	1	0.1
(1,614)	1:43:A:THR:HG23	1:38:A:PRO:HD3	1	0.1
(1,551)	1:91:A:LYS:HB2	1:91:A:LYS:HA	23	0.1
(1,342)	1:16:A:THR:HB	1:16:A:THR:H	4	0.1
(1,312)	1:80:A:GLU:HA	1:80:A:GLU:HG3	22	0.1
(1,266)	1:30:A:GLU:HG2	1:30:A:GLU:HA	9	0.1
(1,205)	1:10:A:ASP:HB2	1:6:A:SER:HB2	24	0.1
(1,49)	1:20:A:SER:H	1:20:A:SER:HB3	27	0.1
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	10	0.1
(1,46)	1:37:A:PHE:H	1:37:A:PHE:HB3	20	0.1
(1,9)	1:90:A:ASP:H	1:90:A:ASP:HB3	19	0.1

10 Dihedral-angle violation analysis [i](#)

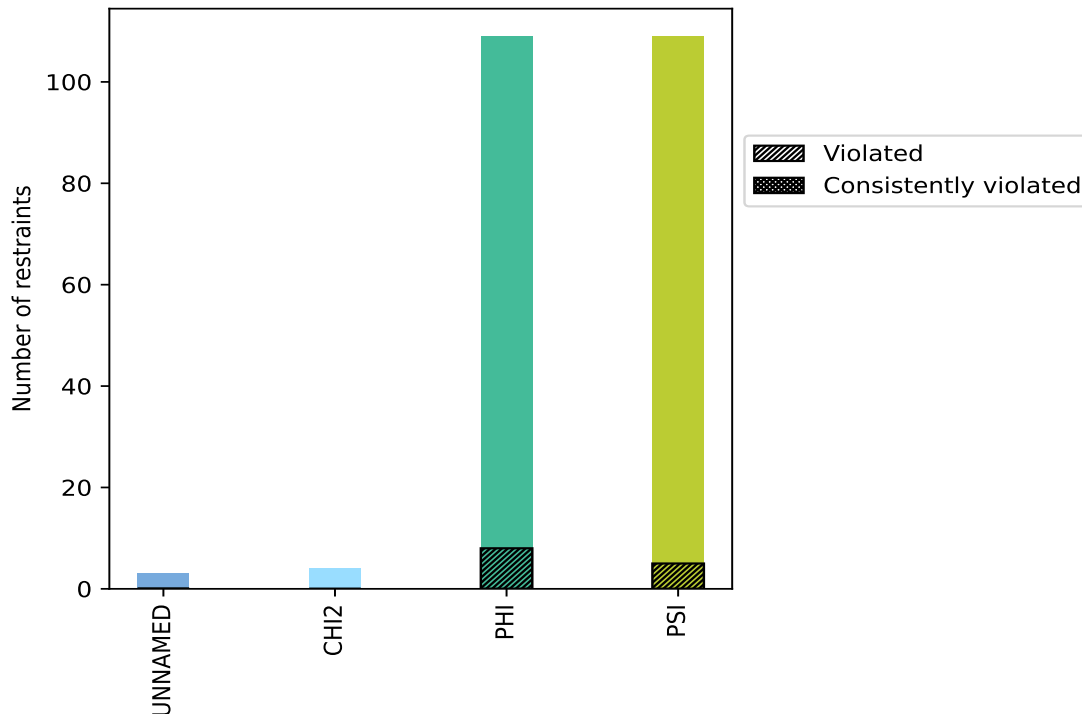
10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
UNNAMED	3	1.3	0	0.0	0.0	0	0.0	0.0
CHI2	4	1.8	0	0.0	0.0	0	0.0	0.0
PHI	109	48.4	8	7.3	3.6	0	0.0	0.0
PSI	109	48.4	5	4.6	2.2	0	0.0	0.0
Total	225	100.0	13	5.8	5.8	0	0.0	0.0

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



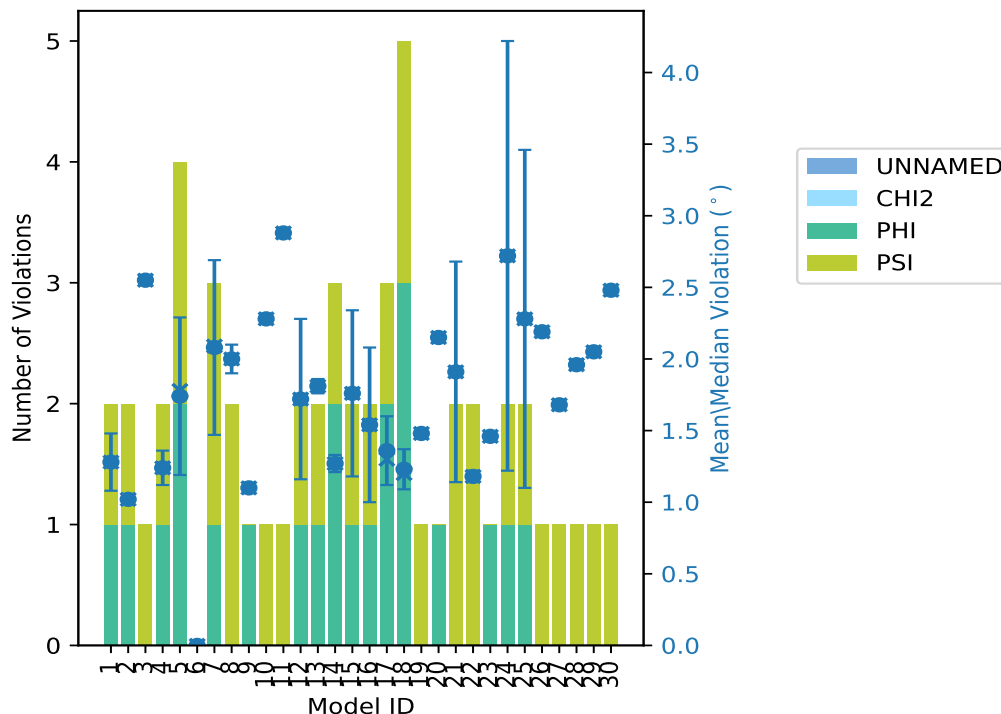
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [\(i\)](#)

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations					Mean (°)	Max (°)	SD (°)	Median (°)
	UNNAMED	CHI2	PHI	PSI	Total				
1	0	0	1	1	2	1.28	1.48	0.2	1.28
2	0	0	1	1	2	1.02	1.02	0.01	1.02
3	0	0	0	1	1	2.55	2.55	0.0	2.55
4	0	0	1	1	2	1.24	1.35	0.12	1.24
5	0	0	2	2	4	1.74	2.39	0.55	1.78
6	0	0	0	0	0	0.0	0.0	0.0	0.0
7	0	0	1	2	3	2.08	2.82	0.61	2.09
8	0	0	0	2	2	2.0	2.1	0.1	2.0
9	0	0	1	0	1	1.1	1.1	0.0	1.1
10	0	0	0	1	1	2.28	2.28	0.0	2.28
11	0	0	0	1	1	2.88	2.88	0.0	2.88
12	0	0	1	1	2	1.72	2.28	0.56	1.72
13	0	0	1	1	2	1.81	1.85	0.05	1.81
14	0	0	2	1	3	1.27	1.34	0.06	1.27
15	0	0	1	1	2	1.76	2.34	0.58	1.76
16	0	0	1	1	2	1.54	2.08	0.54	1.54
17	0	0	2	1	3	1.36	1.69	0.24	1.3
18	0	0	3	2	5	1.23	1.48	0.14	1.2
19	0	0	0	1	1	1.48	1.48	0.0	1.48
20	0	0	1	0	1	2.15	2.15	0.0	2.15
21	0	0	0	2	2	1.91	2.68	0.77	1.91
22	0	0	0	2	2	1.18	1.22	0.04	1.18
23	0	0	1	0	1	1.46	1.46	0.0	1.46
24	0	0	1	1	2	2.72	4.21	1.5	2.72
25	0	0	1	1	2	2.28	3.46	1.18	2.28
26	0	0	0	1	1	2.19	2.19	0.0	2.19
27	0	0	0	1	1	1.68	1.68	0.0	1.68
28	0	0	0	1	1	1.96	1.96	0.0	1.96
29	0	0	0	1	1	2.05	2.05	0.0	2.05
30	0	0	0	1	1	2.48	2.48	0.0	2.48

10.2.1 Bar graph : Dihedral 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

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very 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 ensemble.

Number of violated restraints					Fraction of the ensemble	
UNNAMED	CHI2	PHI	PSI	Total	Count ¹	%
0	0	3	3	6	1	3.3
0	0	3	0	3	2	6.7
0	0	0	0	0	3	10.0
0	0	0	1	1	4	13.3
0	0	0	0	0	5	16.7
0	0	1	0	1	6	20.0
0	0	1	0	1	7	23.3
0	0	0	0	0	8	26.7
0	0	0	0	0	9	30.0
0	0	0	0	0	10	33.3
0	0	0	0	0	11	36.7

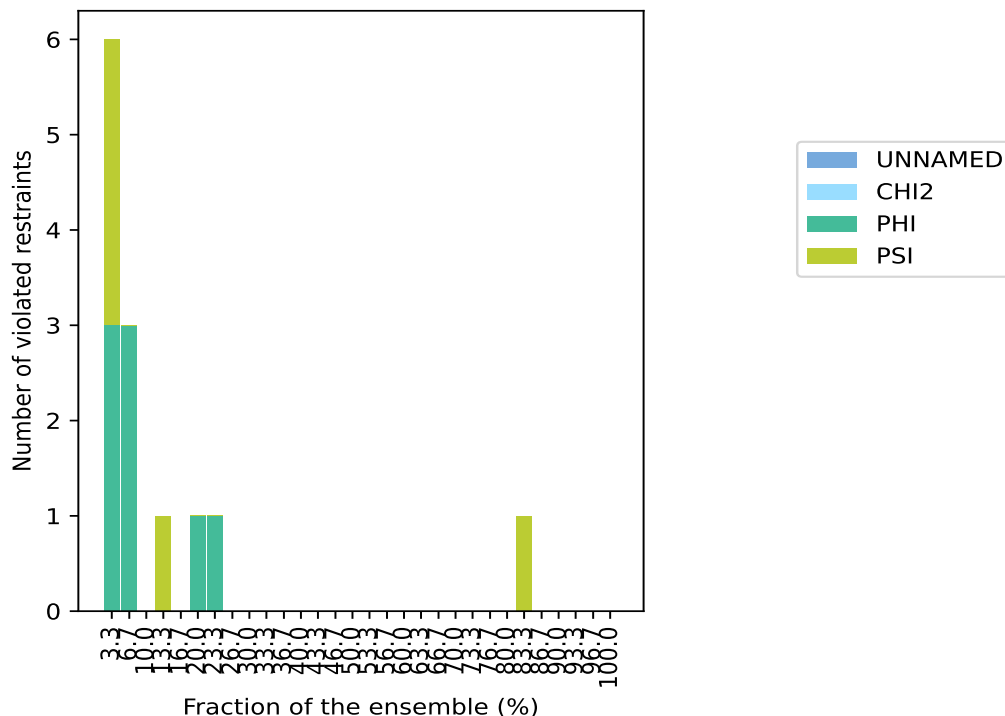
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Number of violated restraints					Fraction of the ensemble	
UNNAMED	CHI2	PHI	PSI	Total	Count ¹	%
0	0	0	0	0	12	40.0
0	0	0	0	0	13	43.3
0	0	0	0	0	14	46.7
0	0	0	0	0	15	50.0
0	0	0	0	0	16	53.3
0	0	0	0	0	17	56.7
0	0	0	0	0	18	60.0
0	0	0	0	0	19	63.3
0	0	0	0	0	20	66.7
0	0	0	0	0	21	70.0
0	0	0	0	0	22	73.3
0	0	0	0	0	23	76.7
0	0	0	0	0	24	80.0
0	0	0	1	1	25	83.3
0	0	0	0	0	26	86.7
0	0	0	0	0	27	90.0
0	0	0	0	0	28	93.3
0	0	0	0	0	29	96.7
0	0	0	0	0	30	100.0

¹ Number of models with violations

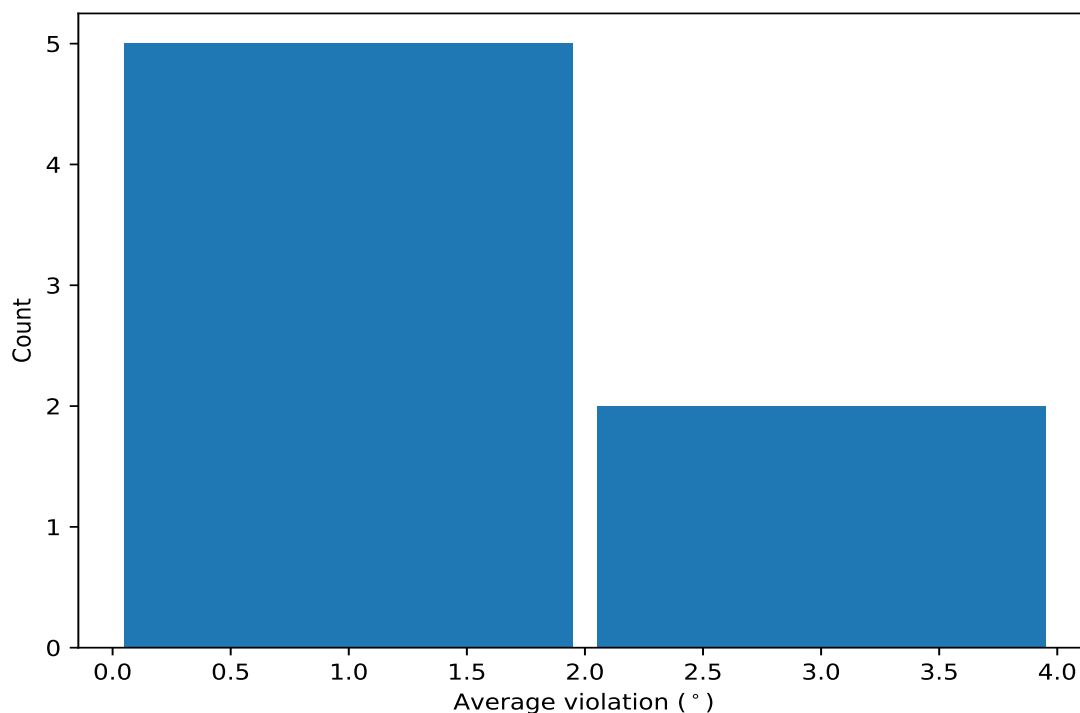
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle 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



10.4.2 Table: Most violated dihedral-angle 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.

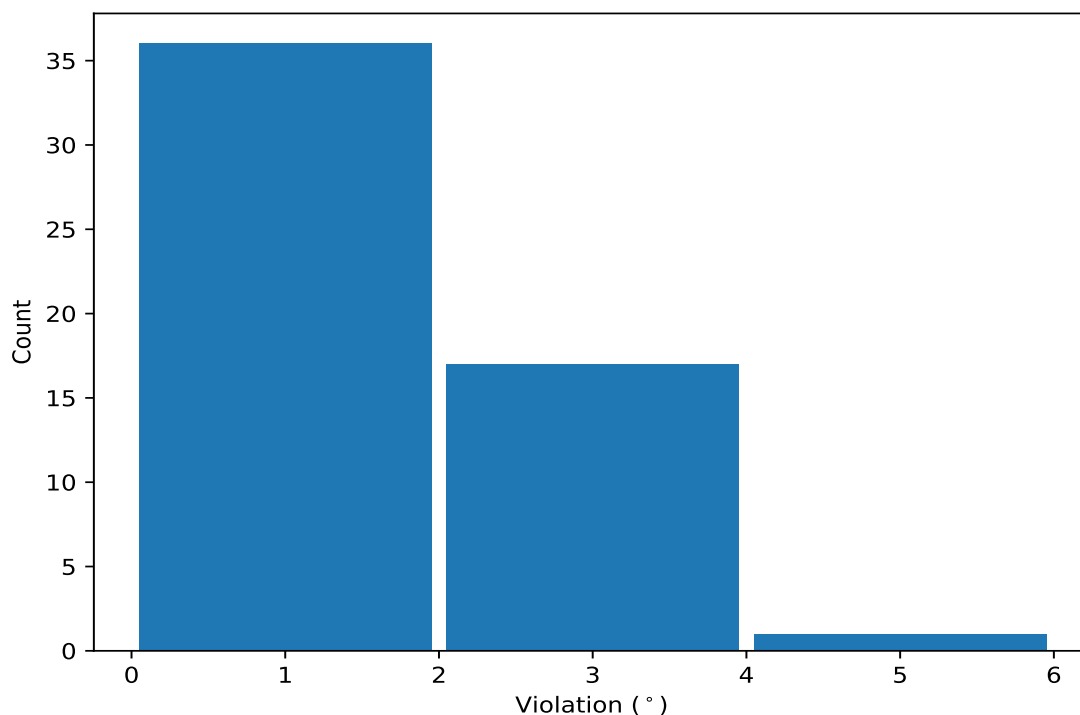
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	25	2.04	0.75	2.05
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	7	1.18	0.14	1.1
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	6	1.39	0.4	1.22
(1,218)	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	1:122:A:LYS:N	4	2.08	0.51	2.14
(1,163)	1:90:A:ASP:C	1:91:A:LYS:N	1:91:A:LYS:CA	1:91:A:LYS:C	2	1.35	0.09	1.35
(1,161)	1:89:A:VAL:C	1:90:A:ASP:N	1:90:A:ASP:CA	1:90:A:ASP:C	2	1.14	0.02	1.14
(1,3)	1:3:A:PHE:C	1:4:A:THR:N	1:4:A:THR:CA	1:4:A:THR:C	2	1.1	0.09	1.1

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	24	4.21
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	25	3.46
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	11	2.88
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	7	2.82
(1,218)	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	1:122:A:LYS:N	21	2.68
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	3	2.55
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	30	2.48
(1,218)	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	1:122:A:LYS:N	5	2.39
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	15	2.34
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	10	2.28
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	12	2.28
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	26	2.19
(1,157)	1:87:A:LYS:C	1:88:A:CYS:N	1:88:A:CYS:CA	1:88:A:CYS:C	20	2.15
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	5	2.11
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	8	2.1
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	7	2.09
(1,2)	1:3:A:PHE:N	1:3:A:PHE:CA	1:3:A:PHE:C	1:4:A:THR:N	16	2.08
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	29	2.05
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	28	1.96
(1,218)	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	1:122:A:LYS:N	8	1.9
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	13	1.85

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	13	1.76
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	17	1.69
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	27	1.68
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	1	1.48
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	19	1.48
(1,94)	1:50:A:VAL:N	1:50:A:VAL:CA	1:50:A:VAL:C	1:51:A:PHE:N	18	1.48
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	23	1.46
(1,163)	1:90:A:ASP:C	1:91:A:LYS:N	1:91:A:LYS:CA	1:91:A:LYS:C	5	1.44
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	4	1.35
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	14	1.34
(1,218)	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	1:122:A:LYS:N	7	1.33
(1,135)	1:74:A:HIS:C	1:75:A:GLY:N	1:75:A:GLY:CA	1:75:A:GLY:C	17	1.3
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	14	1.27
(1,163)	1:90:A:ASP:C	1:91:A:LYS:N	1:91:A:LYS:CA	1:91:A:LYS:C	18	1.26
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	24	1.22
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	22	1.22
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	14	1.2
(1,3)	1:3:A:PHE:C	1:4:A:THR:N	1:4:A:THR:CA	1:4:A:THR:C	18	1.2
(1,161)	1:89:A:VAL:C	1:90:A:ASP:N	1:90:A:ASP:CA	1:90:A:ASP:C	15	1.17
(1,129)	1:70:A:HIS:C	1:71:A:GLN:N	1:71:A:GLN:CA	1:71:A:GLN:C	12	1.16
(1,168)	1:94:A:ASP:N	1:94:A:ASP:CA	1:94:A:ASP:C	1:95:A:ASN:N	22	1.15
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	21	1.14
(1,161)	1:89:A:VAL:C	1:90:A:ASP:N	1:90:A:ASP:CA	1:90:A:ASP:C	4	1.12
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	18	1.12
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	9	1.1
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	17	1.1
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	25	1.09
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	18	1.08
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	1	1.08
(1,134)	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	1:74:A:HIS:N	2	1.02
(1,169)	1:94:A:ASP:C	1:95:A:ASN:N	1:95:A:ASN:CA	1:95:A:ASN:C	16	1.01
(1,3)	1:3:A:PHE:C	1:4:A:THR:N	1:4:A:THR:CA	1:4:A:THR:C	2	1.01
(1,217)	1:120:A:ILE:C	1:121:A:LYS:N	1:121:A:LYS:CA	1:121:A:LYS:C	5	1.0