



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 06:04 pm BST

PDB ID : 4CRP
BMRB ID : 19824
Title : Solution structure of a TrkAIg2 domain construct for use in drug discovery
Authors : Shoemark, D.K.; Fahey, M.; Williams, C.; Sessions, R.B.; Crump, M.P.; Allen-Birt, S.J.
Deposited on : 2014-02-28

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

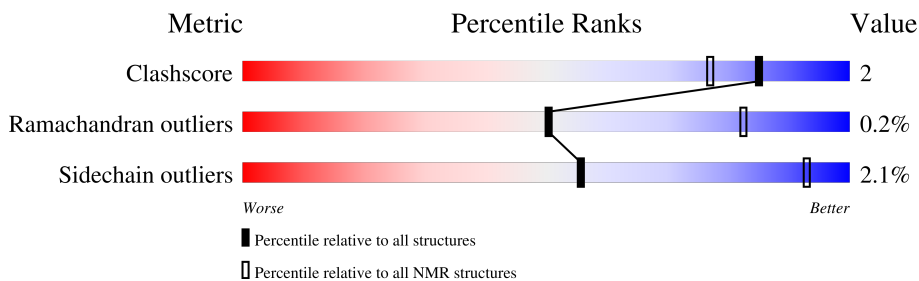
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 93%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	107	

2 Ensemble composition and analysis

This entry contains 25 models. Model 14 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:7-A:102 (96)	0.68	14

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

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

The models can be grouped into 2 clusters and 3 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1593 atoms, of which 765 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	107	1593	520	765	141	160	7	0

There are 6 discrepancies between the modelled and reference sequences:


Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ASP	-	expression tag	UNP P04629
A	2	ASP	-	expression tag	UNP P04629
A	4	ASP	-	expression tag	UNP P04629
A	5	ASP	-	expression tag	UNP P04629
A	9	CYS	PRO	engineered mutation	UNP P04629
A	91	CYS	PHE	engineered mutation	UNP P04629

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: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  86% 10%




4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1


- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  77% 12% 10%



4.2.2 Score per residue for model 2

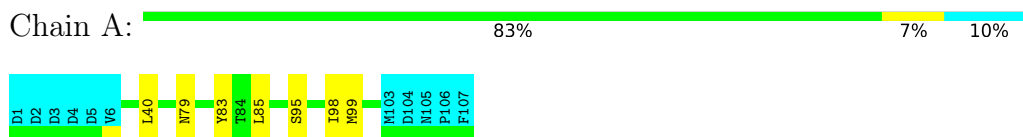
- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  84% 6% 10%



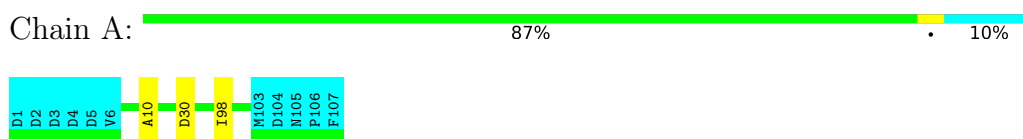
4.2.3 Score per residue for model 3

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



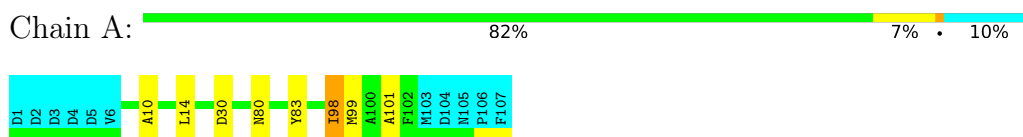
4.2.4 Score per residue for model 4

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



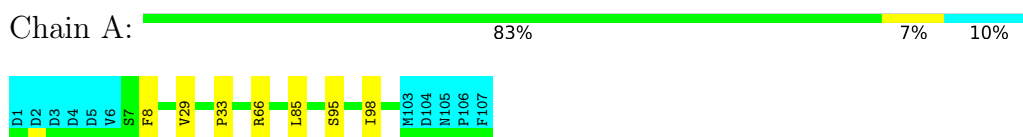
4.2.5 Score per residue for model 5

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



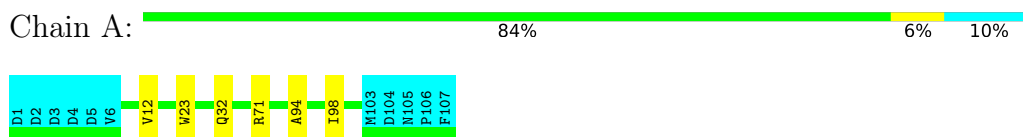
4.2.6 Score per residue for model 6

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



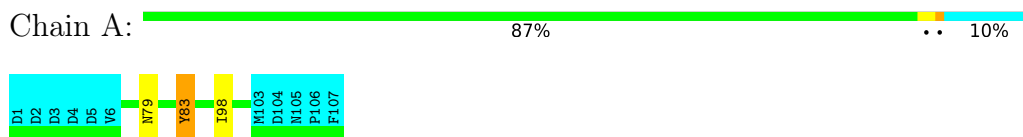
4.2.7 Score per residue for model 7

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



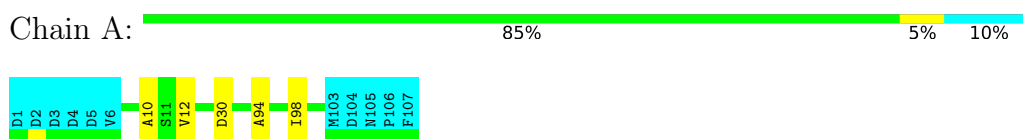
4.2.8 Score per residue for model 8

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



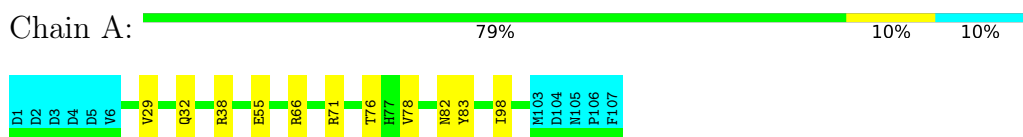
4.2.9 Score per residue for model 9

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



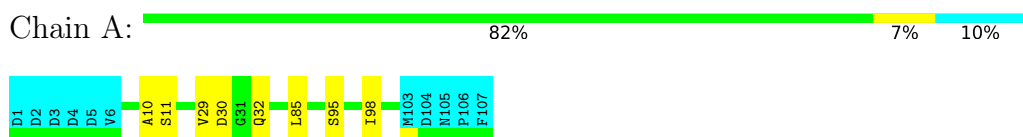
4.2.10 Score per residue for model 10

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



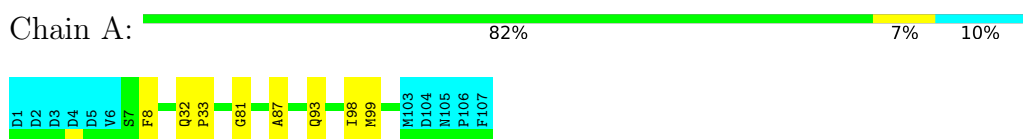
4.2.11 Score per residue for model 11

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



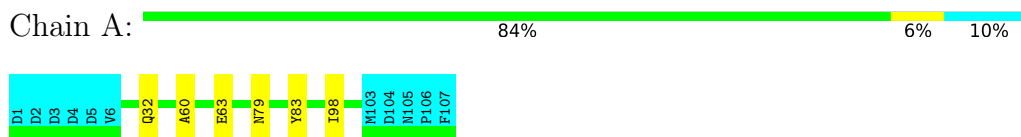
4.2.12 Score per residue for model 12

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



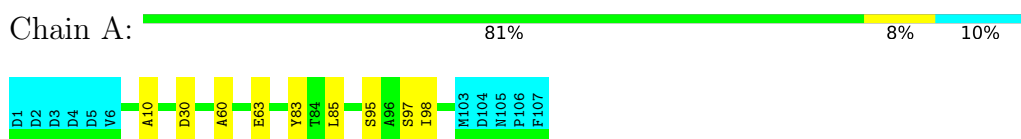
4.2.13 Score per residue for model 13

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



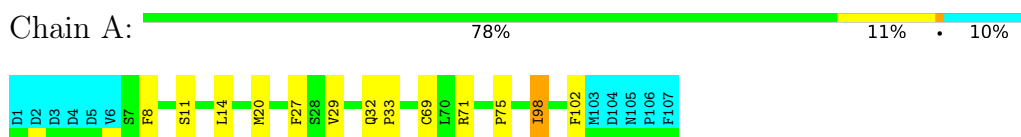
4.2.14 Score per residue for model 14 (medoid)

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



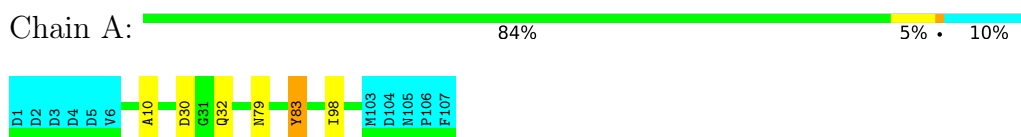
4.2.15 Score per residue for model 15

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



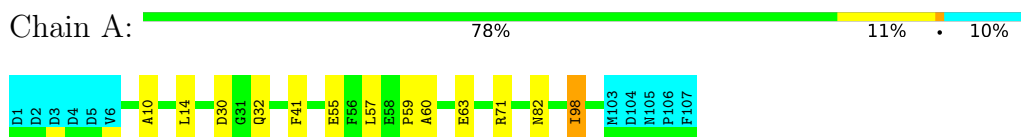
4.2.16 Score per residue for model 16

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



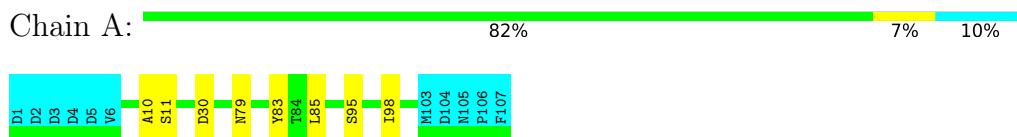
4.2.17 Score per residue for model 17

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



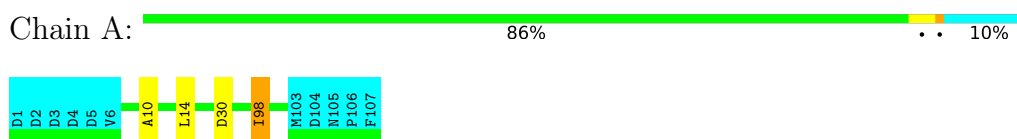
4.2.18 Score per residue for model 18

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



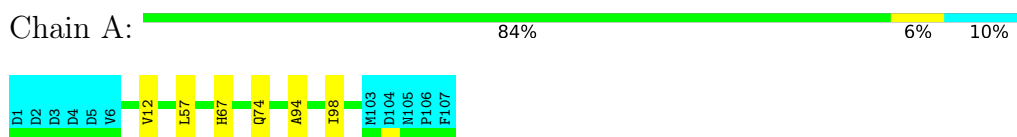
4.2.19 Score per residue for model 19

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



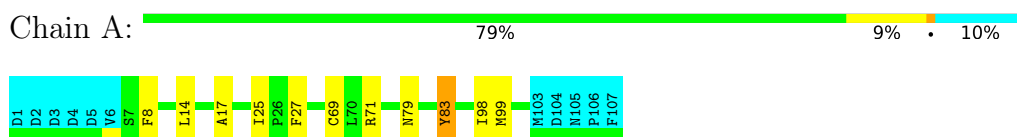
4.2.20 Score per residue for model 20

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



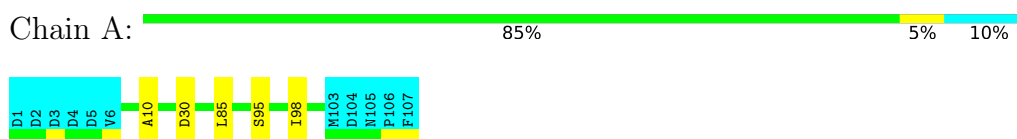
4.2.21 Score per residue for model 21

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR




4.2.22 Score per residue for model 22

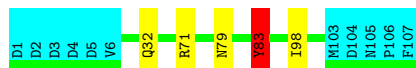
- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR



4.2.23 Score per residue for model 23


- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  85% . . 10%



4.2.24 Score per residue for model 24


- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  79% . 10%



4.2.25 Score per residue for model 25

- Molecule 1: HIGH AFFINITY NERVE GROWTH FACTOR RECEPTOR

Chain A:  79% 10% 10%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *ARIA 2.3*.

Of the 250 calculated structures, 25 were deposited, based on the following criterion: *LOWEST ENERGY, LEAST VIOLATION*.

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

Software name	Classification	Version
CNS	refinement	
CNS	structure solution	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	1245
Number of shifts mapped to atoms	1245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	93%

6 Model quality i

6.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.86±0.03	0±1/761 (0.1± 0.1%)	0.62±0.02	0±0/1042 (0.0± 0.0%)
All	All	0.86	11/19025 (0.1%)	0.62	0/26050 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.1±0.4
All	All	0	2

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	83	TYR	CE1-CZ	-7.62	1.28	1.38	24	6
1	A	83	TYR	CE2-CZ	6.83	1.47	1.38	24	5

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	71	ARG	Sidechain	1
1	A	83	TYR	Sidechain	1

6.2 Too-close contacts

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	738	699	694	3±1
All	All	18450	17475	17350	77

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:79:ASN:HA	1:A:83:TYR:OH	0.70	1.87	23	4
1:A:14:LEU:HD13	1:A:98:ILE:HG22	0.65	1.68	19	5
1:A:10:ALA:HA	1:A:30:ASP:O	0.56	2.01	11	13
1:A:55:GLU:OE2	1:A:71:ARG:HD2	0.55	2.01	10	1
1:A:11:SER:HB3	1:A:30:ASP:OD1	0.52	2.04	18	1
1:A:80:ASN:OD1	1:A:101:ALA:HA	0.52	2.05	5	1
1:A:79:ASN:HB3	1:A:83:TYR:OH	0.51	2.06	13	6
1:A:8:PHE:O	1:A:33:PRO:HD2	0.50	2.06	2	6
1:A:69:CYS:SG	1:A:71:ARG:HG3	0.49	2.47	21	1
1:A:14:LEU:HD23	1:A:27:PHE:HB3	0.48	1.83	21	2
1:A:60:ALA:O	1:A:63:GLU:HG2	0.48	2.08	17	3
1:A:40:LEU:O	1:A:83:TYR:HA	0.47	2.10	3	1
1:A:77:HIS:HA	1:A:102:PHE:O	0.47	2.09	1	1
1:A:12:VAL:HG23	1:A:94:ALA:HB3	0.47	1.87	7	4
1:A:29:VAL:HG13	1:A:66:ARG:HB3	0.45	1.87	24	3
1:A:81:GLY:O	1:A:99:MET:HA	0.45	2.11	12	1
1:A:83:TYR:O	1:A:97:SER:HA	0.45	2.11	14	1
1:A:17:ALA:HB2	1:A:25:ILE:HG12	0.44	1.89	21	1
1:A:85:LEU:O	1:A:95:SER:HA	0.44	2.13	22	6
1:A:51:PHE:O	1:A:72:LEU:HA	0.44	2.13	25	1
1:A:75:PRO:HB2	1:A:102:PHE:CE1	0.44	2.48	15	1
1:A:87:ALA:O	1:A:93:GLN:HA	0.44	2.13	12	1
1:A:11:SER:O	1:A:29:VAL:HA	0.43	2.14	15	2
1:A:76:THR:OG1	1:A:78:VAL:HG22	0.42	2.15	10	1
1:A:69:CYS:SG	1:A:71:ARG:HB3	0.42	2.55	15	1
1:A:55:GLU:HG3	1:A:71:ARG:HE	0.41	1.74	17	1
1:A:57:LEU:O	1:A:59:PRO:HD3	0.41	2.16	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:38:ARG:NE	1:A:38:ARG:HA	0.41	2.31	10	1
1:A:41:PHE:HA	1:A:82:ASN:O	0.41	2.15	17	1
1:A:80:ASN:HA	1:A:100:ALA:O	0.41	2.14	24	1
1:A:89:ASN:HB2	1:A:90:PRO:HD2	0.40	1.93	24	1
1:A:23:TRP:O	1:A:71:ARG:HA	0.40	2.16	7	1
1:A:83:TYR:HB2	1:A:98:ILE:HG23	0.40	1.94	5	1
1:A:57:LEU:HG	1:A:67:HIS:O	0.40	2.16	20	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	96/107 (90%)	92±1 (96±1%)	3±2 (4±2%)	0±0 (0±0%)	50	82
All	All	2400/2675 (90%)	2309 (96%)	87 (4%)	4 (0%)	50	82

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	32	GLN	4

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	80/91 (88%)	78±1 (98±1%)	2±1 (2±1%)	56	93
All	All	2000/2275 (88%)	1958 (98%)	42 (2%)	56	93

All 7 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	98	ILE	25
1	A	32	GLN	6
1	A	99	MET	5
1	A	74	GLN	2
1	A	20	MET	2
1	A	64	THR	1
1	A	82	ASN	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 93% 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: *trka_6.csdep.csh*

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	1245
Number of shifts mapped to atoms	1245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	7

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
$^{13}\text{C}_\alpha$	102	0.07 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	97	-0.30 ± 0.30	None needed (< 0.5 ppm)
$^{13}\text{C}'$	101	0.54 ± 0.21	Should be applied
^{15}N	95	-0.43 ± 0.41	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 93%, i.e. 1170 atoms were assigned a chemical shift out of a possible 1256. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	472/473 (100%)	191/191 (100%)	191/192 (99%)	90/90 (100%)
Sidechain	597/640 (93%)	401/422 (95%)	181/197 (92%)	15/21 (71%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	101/143 (71%)	56/71 (79%)	43/60 (72%)	2/12 (17%)
Overall	1170/1256 (93%)	648/684 (95%)	415/449 (92%)	107/123 (87%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 90%, i.e. 1245 atoms were assigned a chemical shift out of a possible 1382. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	500/526 (95%)	202/212 (95%)	203/214 (95%)	95/100 (95%)
Sidechain	638/703 (91%)	429/460 (93%)	193/221 (87%)	16/22 (73%)
Aromatic	107/153 (70%)	60/76 (79%)	45/65 (69%)	2/12 (17%)
Overall	1245/1382 (90%)	691/748 (92%)	441/500 (88%)	113/134 (84%)

7.1.4 Statistically unusual chemical shifts [i](#)

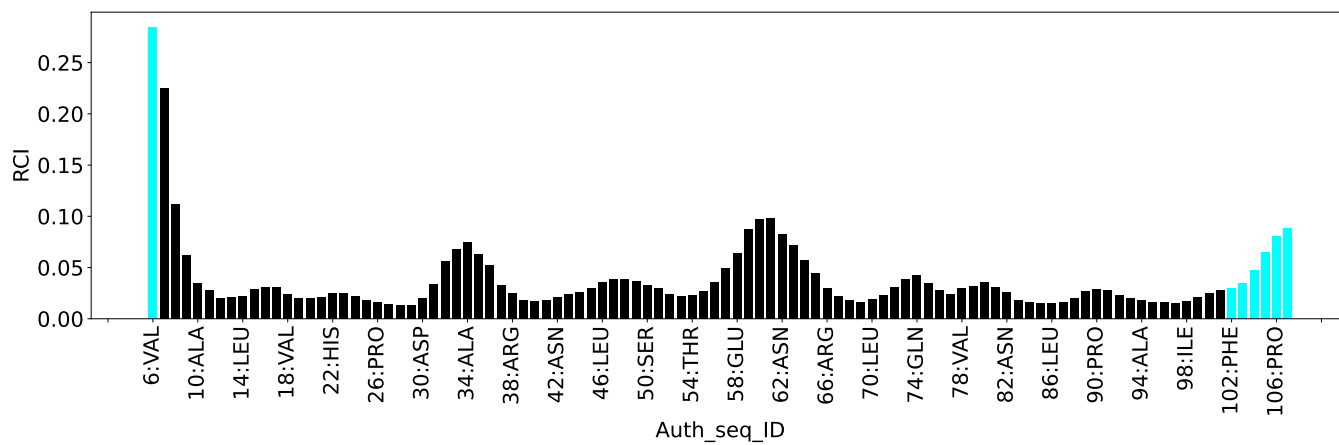
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	19	GLU	HB3	-0.23	0.95 – 3.05	-10.6
1	A	19	GLU	HG3	0.86	1.20 – 3.30	-6.6
1	A	43	GLY	N	129.81	91.59 – 127.52	5.6
1	A	19	GLU	HG2	1.12	1.24 – 3.30	-5.6
1	A	85	LEU	HD11	-0.74	-0.61 – 2.12	-5.5
1	A	85	LEU	HD12	-0.74	-0.61 – 2.12	-5.5
1	A	85	LEU	HD13	-0.74	-0.61 – 2.12	-5.5

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	2053
Intra-residue ($ i-j =0$)	918
Sequential ($ i-j =1$)	510
Medium range ($ i-j >1$ and $ i-j <5$)	120
Long range ($ i-j \geq 5$)	505
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	19.2
Number of long range restraints per residue ¹	4.7

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)	7.6	0.2
0.2-0.5 (Medium)	16.5	0.5
>0.5 (Large)	20.7	3.01

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

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

9 Distance violation analysis [i](#)

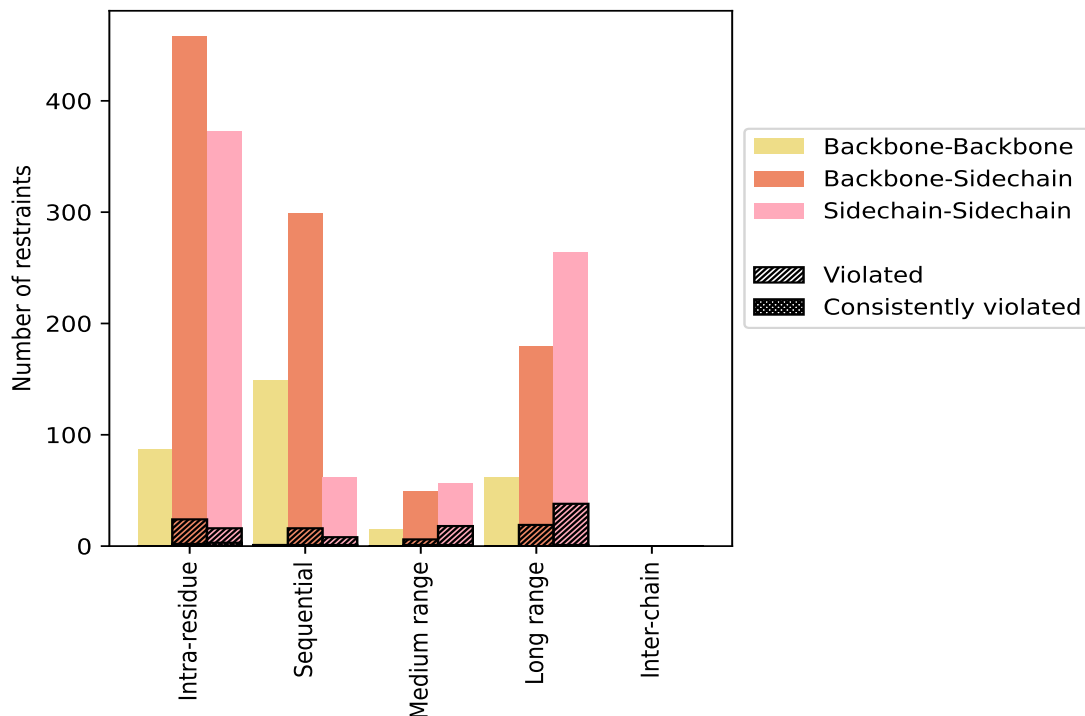
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	918	44.7	40	4.4	1.9	5	0.5	0.2
Backbone-Backbone	87	4.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	458	22.3	24	5.2	1.2	2	0.4	0.1
Sidechain-Sidechain	373	18.2	16	4.3	0.8	3	0.8	0.1
Sequential ($i-j =1$)	510	24.8	25	4.9	1.2	2	0.4	0.1
Backbone-Backbone	149	7.3	1	0.7	0.0	0	0.0	0.0
Backbone-Sidechain	299	14.6	16	5.4	0.8	1	0.3	0.0
Sidechain-Sidechain	62	3.0	8	12.9	0.4	1	1.6	0.0
Medium range ($i-j >1$ & $i-j <5$)	120	5.8	24	20.0	1.2	2	1.7	0.1
Backbone-Backbone	15	0.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	49	2.4	6	12.2	0.3	1	2.0	0.0
Sidechain-Sidechain	56	2.7	18	32.1	0.9	1	1.8	0.0
Long range ($i-j \geq 5$)	505	24.6	57	11.3	2.8	1	0.2	0.0
Backbone-Backbone	62	3.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	179	8.7	19	10.6	0.9	0	0.0	0.0
Sidechain-Sidechain	264	12.9	38	14.4	1.9	1	0.4	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2053	100.0	146	7.1	7.1	10	0.5	0.5
Backbone-Backbone	313	15.2	1	0.3	0.0	0	0.0	0.0
Backbone-Sidechain	985	48.0	65	6.6	3.2	4	0.4	0.2
Sidechain-Sidechain	755	36.8	80	10.6	3.9	6	0.8	0.3

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	12	4	7	7	0	30	0.56	2.06	0.46	0.37
2	19	8	13	12	0	52	0.62	2.45	0.44	0.54
3	12	7	11	11	0	41	0.66	2.43	0.56	0.52
4	15	11	9	19	0	54	0.69	2.41	0.57	0.52
5	8	7	6	8	0	29	0.64	2.05	0.54	0.45
6	14	7	12	15	0	48	0.61	2.67	0.51	0.47
7	17	9	7	13	0	46	0.59	2.34	0.47	0.45
8	16	7	12	12	0	47	0.59	2.18	0.44	0.48
9	17	9	10	13	0	49	0.55	1.92	0.41	0.41
10	19	12	10	11	0	52	0.48	2.08	0.37	0.37
11	17	11	12	13	0	53	0.54	2.37	0.45	0.39

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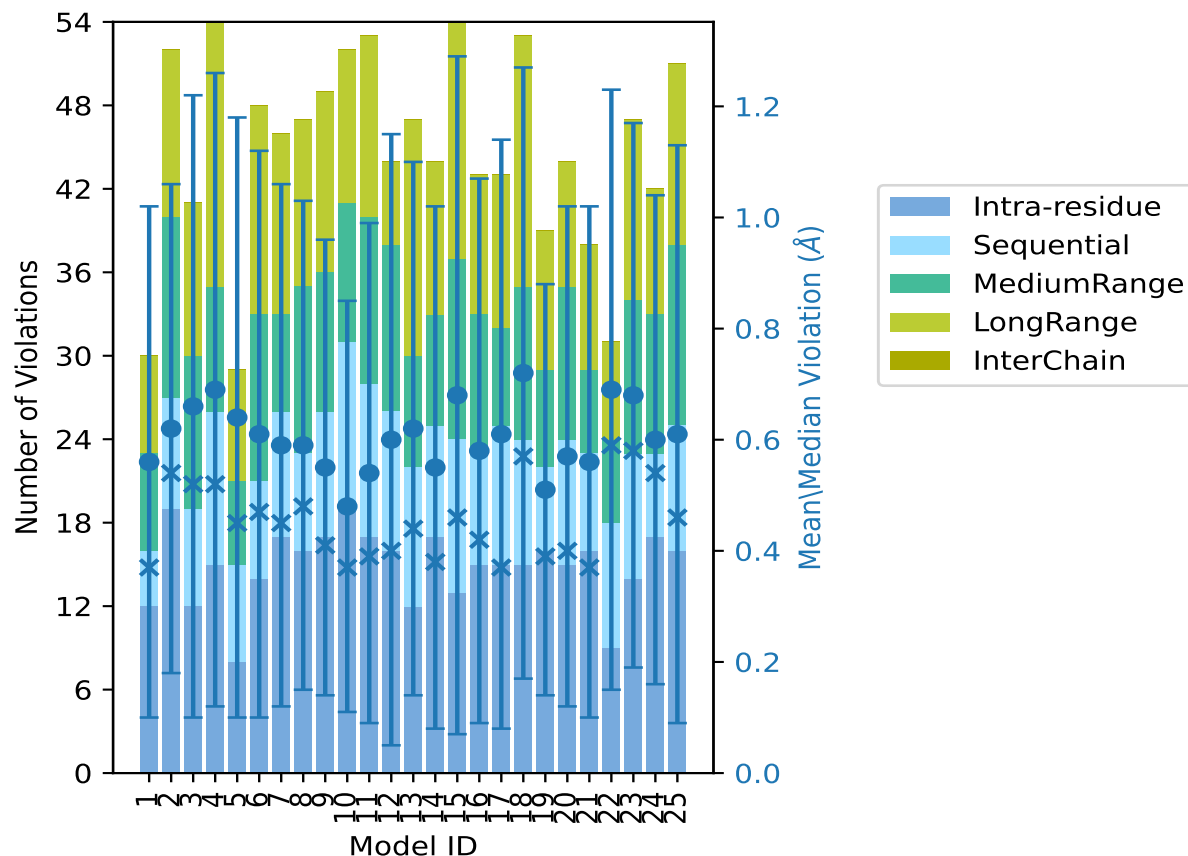
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
12	16	10	12	6	0	44	0.6	2.61	0.55	0.4
13	12	10	8	17	0	47	0.62	2.32	0.48	0.44
14	17	8	8	11	0	44	0.55	2.23	0.47	0.38
15	13	11	13	17	0	54	0.68	3.01	0.61	0.46
16	15	8	10	10	0	43	0.58	2.46	0.49	0.42
17	15	10	7	11	0	43	0.61	2.06	0.53	0.37
18	15	9	11	18	0	53	0.72	2.48	0.55	0.57
19	16	6	7	10	0	39	0.51	2.23	0.37	0.39
20	15	9	11	9	0	44	0.57	2.19	0.45	0.4
21	16	7	6	9	0	38	0.56	2.28	0.46	0.37
22	9	9	6	7	0	31	0.69	2.48	0.54	0.59
23	14	9	11	13	0	47	0.68	2.27	0.49	0.58
24	17	6	10	9	0	42	0.6	2.25	0.44	0.54
25	16	9	13	13	0	51	0.61	2.4	0.52	0.46

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, 1907(IR:878, SQ:485, MR:96, LR:448, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
5	2	4	19	0	30	1	4.0
6	7	0	13	0	26	2	8.0
2	2	4	3	0	11	3	12.0
5	1	2	1	0	9	4	16.0
0	3	1	3	0	7	5	20.0
4	0	0	3	0	7	6	24.0

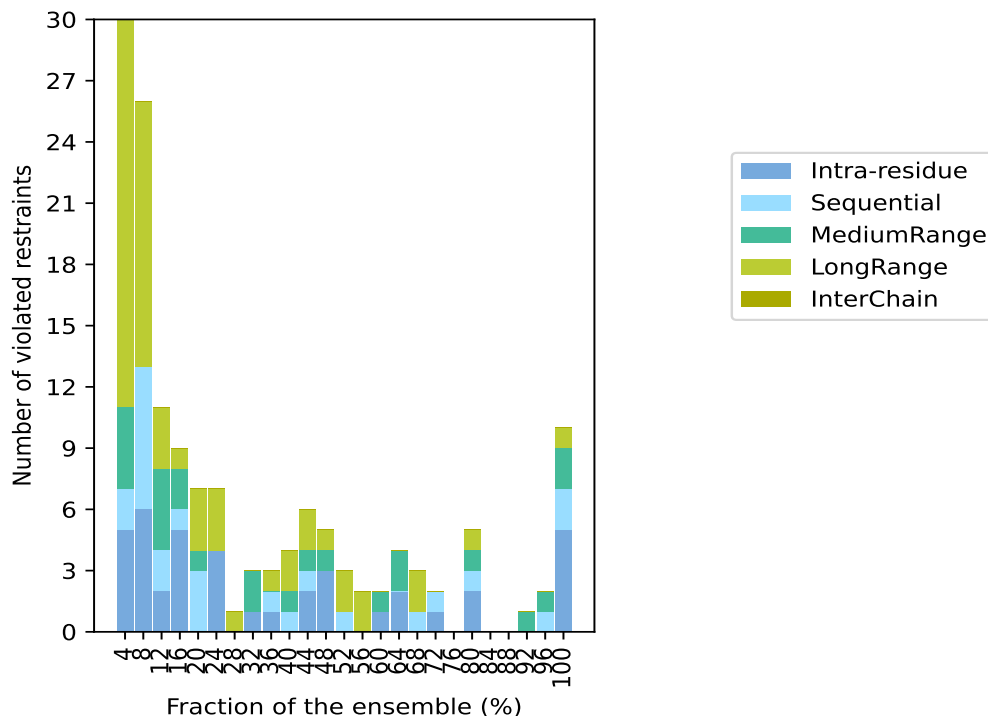
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	1	0	1	7	28.0
1	0	2	0	0	3	8	32.0
1	1	0	1	0	3	9	36.0
0	1	1	2	0	4	10	40.0
2	1	1	2	0	6	11	44.0
3	0	1	1	0	5	12	48.0
0	1	0	2	0	3	13	52.0
0	0	0	2	0	2	14	56.0
1	0	1	0	0	2	15	60.0
2	0	2	0	0	4	16	64.0
0	1	0	2	0	3	17	68.0
1	1	0	0	0	2	18	72.0
0	0	0	0	0	0	19	76.0
2	1	1	1	0	5	20	80.0
0	0	0	0	0	0	21	84.0
0	0	0	0	0	0	22	88.0
0	0	1	0	0	1	23	92.0
0	1	1	0	0	2	24	96.0
5	2	2	1	0	10	25	100.0

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

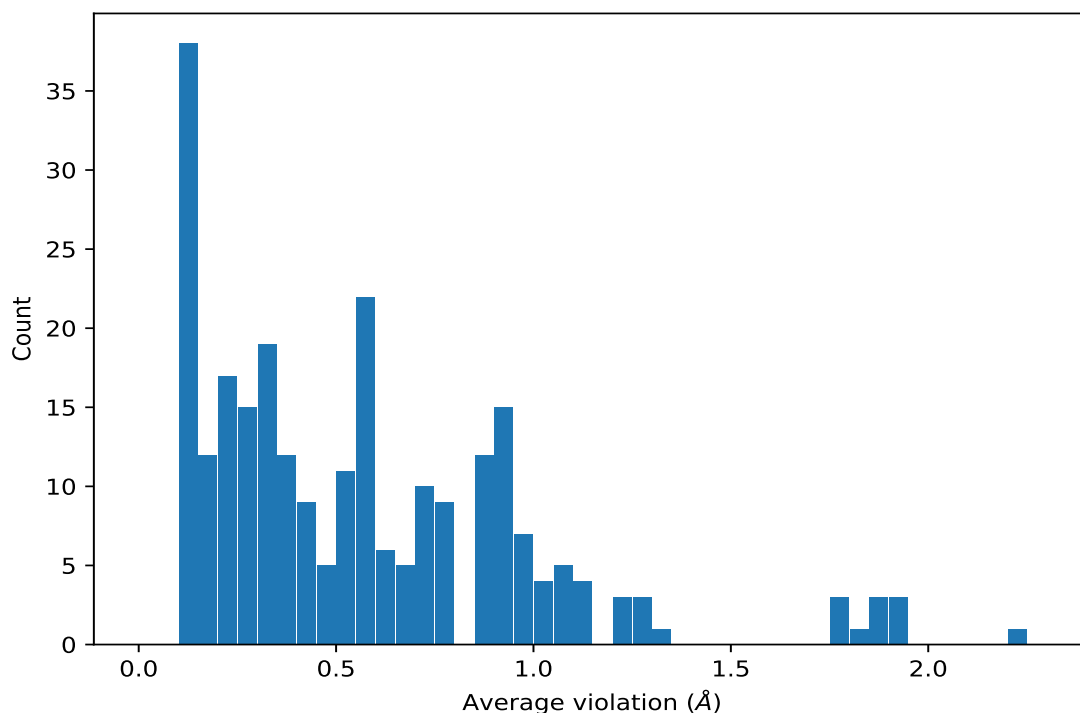
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	25	2.24	0.3	2.23
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	25	1.82	0.56	2.06
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	25	0.91	0.12	0.92
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	25	0.91	0.12	0.92
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	25	0.91	0.12	0.92
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	25	0.72	0.01	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	25	0.72	0.01	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	25	0.72	0.01	0.72
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	25	0.69	0.32	0.65
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	25	0.51	0.01	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	25	0.51	0.01	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	25	0.51	0.01	0.51
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	25	0.37	0.01	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	25	0.37	0.01	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	25	0.37	0.01	0.37
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	25	0.34	0.05	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	25	0.28	0.04	0.28
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	25	0.21	0.01	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	25	0.21	0.01	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	25	0.21	0.01	0.21
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	24	0.58	0.16	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	24	0.58	0.16	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	24	0.58	0.16	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	24	0.58	0.16	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	24	0.58	0.16	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	24	0.58	0.16	0.64
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	24	0.32	0.03	0.33
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	24	0.32	0.03	0.33
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	24	0.32	0.03	0.33
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	23	0.61	0.32	0.62
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	20	1.34	0.6	1.21
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	20	1.1	0.13	1.13
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	20	0.97	0.17	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	20	0.97	0.17	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	20	0.97	0.17	1.02
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	20	0.58	0.01	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	20	0.58	0.01	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	20	0.58	0.01	0.58
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	20	0.25	0.01	0.25
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	18	0.41	0.01	0.41
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	18	0.12	0.01	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	18	0.12	0.01	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	18	0.12	0.01	0.12
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	17	0.91	0.15	0.98
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	17	0.91	0.15	0.98
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	17	0.91	0.15	0.98
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.31	0.17	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.31	0.17	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.31	0.17	0.25
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	17	0.28	0.09	0.28
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	16	0.92	0.32	0.88
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	16	0.92	0.32	0.88
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	16	0.92	0.32	0.88
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	16	0.53	0.09	0.52
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	16	0.53	0.09	0.52
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	16	0.53	0.09	0.52
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	16	0.23	0.04	0.22
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	16	0.22	0.04	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	15	0.87	0.28	0.9
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	15	0.87	0.28	0.9
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	15	0.87	0.28	0.9
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	15	0.33	0.14	0.31
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	15	0.33	0.14	0.31
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	15	0.33	0.14	0.31
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	14	1.09	0.18	1.06
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	14	1.09	0.18	1.06
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	14	1.09	0.18	1.06
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	14	0.66	0.21	0.63
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	13	0.98	0.45	0.91
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	13	0.6	0.32	0.57
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	13	0.19	0.08	0.17
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	12	1.13	0.39	1.28
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	12	1.13	0.39	1.28
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	12	1.13	0.39	1.28
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	12	0.95	0.35	0.86
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	12	0.95	0.35	0.86
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	12	0.95	0.35	0.86
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	12	0.42	0.15	0.44
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	12	0.33	0.01	0.33
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	12	0.19	0.02	0.18
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	11	0.88	0.31	1.0
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	11	0.7	0.61	0.17
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	11	0.54	0.07	0.52
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	11	0.37	0.04	0.37
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	11	0.31	0.22	0.28
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	11	0.31	0.22	0.28
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	11	0.31	0.22	0.28
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	11	0.31	0.21	0.26
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	11	0.31	0.21	0.26
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	11	0.31	0.21	0.26
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	10	0.85	0.22	0.96
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	10	0.85	0.22	0.96
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	10	0.85	0.22	0.96
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	10	0.39	0.18	0.33
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	10	0.39	0.18	0.33
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	10	0.39	0.18	0.33
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	10	0.28	0.11	0.24
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	10	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	10	0.13	0.02	0.13
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	10	0.13	0.02	0.13
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	9	0.51	0.0	0.51
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	9	0.14	0.02	0.14
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	9	0.11	0.0	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	9	0.11	0.0	0.11
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	8	0.89	0.28	0.86
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	8	0.89	0.28	0.86
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	8	0.44	0.22	0.4
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	8	0.39	0.04	0.39
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	7	0.74	0.24	0.68
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	7	0.74	0.24	0.68
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	7	0.74	0.24	0.68
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	6	0.71	0.01	0.7
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	6	0.71	0.01	0.7
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	6	0.71	0.01	0.7
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	6	0.58	0.21	0.63
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	6	0.57	0.29	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	6	0.57	0.29	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	6	0.57	0.29	0.49
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	6	0.45	0.19	0.43
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	6	0.45	0.19	0.43
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	6	0.45	0.19	0.43
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	6	0.44	0.11	0.43
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	6	0.44	0.17	0.45
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	6	0.26	0.09	0.29
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	5	1.05	0.53	0.91
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	5	0.9	0.64	0.76
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	5	0.9	0.64	0.76
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	5	0.9	0.64	0.76
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	5	0.61	0.17	0.62

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	5	0.57	0.03	0.58
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	5	0.57	0.03	0.58
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	5	0.57	0.03	0.58
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	5	0.56	0.36	0.42
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	5	0.15	0.02	0.15
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	5	0.15	0.02	0.15
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	5	0.15	0.02	0.15
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	5	0.14	0.03	0.13
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	5	0.14	0.03	0.13
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	5	0.14	0.03	0.13
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD12	4	0.87	0.42	0.9
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD11	4	0.87	0.42	0.9
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD13	4	0.87	0.42	0.9
(1,827)	1:A:53:PHE:HB3	1:A:48:GLU:HB3	4	0.55	0.16	0.56
(1,1761)	1:A:48:GLU:H	1:A:48:GLU:HG3	4	0.48	0.12	0.45
(1,1661)	1:A:104:ASP:H	1:A:104:ASP:HB3	4	0.3	0.04	0.29
(1,692)	1:A:99:MET:HA	1:A:99:MET:HG2	4	0.28	0.02	0.27
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	4	0.22	0.03	0.22
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	4	0.22	0.03	0.22
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	4	0.22	0.03	0.22
(1,976)	1:A:6:VAL:HG22	1:A:8:PHE:HD1	4	0.22	0.03	0.22
(1,976)	1:A:6:VAL:HG21	1:A:8:PHE:HD1	4	0.22	0.03	0.22
(1,976)	1:A:6:VAL:HG23	1:A:8:PHE:HD1	4	0.22	0.03	0.22
(1,623)	1:A:63:GLU:HB3	1:A:63:GLU:HG2	4	0.18	0.01	0.18
(1,997)	1:A:77:HIS:HD2	1:A:78:VAL:HA	4	0.16	0.01	0.16
(1,1451)	1:A:79:ASN:HD21	1:A:79:ASN:HA	4	0.12	0.01	0.12
(1,1968)	1:A:89:ASN:HD21	1:A:33:PRO:HD3	3	1.06	0.23	1.15
(1,1027)	1:A:28:SER:HB3	1:A:30:ASP:HB2	3	1.03	0.19	1.16
(1,1028)	1:A:65:VAL:HG22	1:A:28:SER:HB3	3	0.94	0.13	0.95
(1,1028)	1:A:65:VAL:HG21	1:A:28:SER:HB3	3	0.94	0.13	0.95
(1,1028)	1:A:65:VAL:HG23	1:A:28:SER:HB3	3	0.94	0.13	0.95
(1,1111)	1:A:89:ASN:HB3	1:A:91:CYS:HB3	3	0.57	0.09	0.57
(1,251)	1:A:61:ALA:HB2	1:A:62:ASN:HB2	3	0.51	0.07	0.49
(1,251)	1:A:61:ALA:HB1	1:A:62:ASN:HB2	3	0.51	0.07	0.49
(1,251)	1:A:61:ALA:HB3	1:A:62:ASN:HB2	3	0.51	0.07	0.49
(1,1506)	1:A:91:CYS:H	1:A:91:CYS:HB3	3	0.44	0.02	0.44
(1,632)	1:A:65:VAL:HG12	1:A:28:SER:HB3	3	0.41	0.12	0.45
(1,632)	1:A:65:VAL:HG11	1:A:28:SER:HB3	3	0.41	0.12	0.45
(1,632)	1:A:65:VAL:HG13	1:A:28:SER:HB3	3	0.41	0.12	0.45
(1,1514)	1:A:92:GLY:H	1:A:91:CYS:HB3	3	0.28	0.09	0.3
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG22	3	0.27	0.18	0.16
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG21	3	0.27	0.18	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG23	3	0.27	0.18	0.16
(1,698)	1:A:103:MET:HB3	1:A:103:MET:HG2	3	0.2	0.0	0.2
(1,525)	1:A:45:VAL:HG22	1:A:47:ASN:HA	3	0.11	0.0	0.11
(1,525)	1:A:45:VAL:HG21	1:A:47:ASN:HA	3	0.11	0.0	0.11
(1,525)	1:A:45:VAL:HG23	1:A:47:ASN:HA	3	0.11	0.0	0.11
(1,1333)	1:A:40:LEU:HD12	1:A:45:VAL:HB	2	1.92	0.07	1.92
(1,1333)	1:A:40:LEU:HD11	1:A:45:VAL:HB	2	1.92	0.07	1.92
(1,1333)	1:A:40:LEU:HD13	1:A:45:VAL:HB	2	1.92	0.07	1.92
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD12	2	1.88	0.08	1.88
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD11	2	1.88	0.08	1.88
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD13	2	1.88	0.08	1.88
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD12	2	1.78	0.06	1.78
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD11	2	1.78	0.06	1.78
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD13	2	1.78	0.06	1.78
(1,527)	1:A:40:LEU:HD12	1:A:40:LEU:HA	2	1.25	0.01	1.25
(1,527)	1:A:40:LEU:HD11	1:A:40:LEU:HA	2	1.25	0.01	1.25
(1,527)	1:A:40:LEU:HD13	1:A:40:LEU:HA	2	1.25	0.01	1.25
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD22	2	1.23	0.04	1.23
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD21	2	1.23	0.04	1.23
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD23	2	1.23	0.04	1.23
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD12	2	1.0	0.06	1.0
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD11	2	1.0	0.06	1.0
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD13	2	1.0	0.06	1.0
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD12	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD11	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD13	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD12	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD11	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD13	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD12	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD11	2	0.76	0.05	0.76
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD13	2	0.76	0.05	0.76
(1,702)	1:A:86:LEU:HD12	1:A:40:LEU:HB3	2	0.67	0.21	0.67
(1,702)	1:A:86:LEU:HD11	1:A:40:LEU:HB3	2	0.67	0.21	0.67
(1,702)	1:A:86:LEU:HD13	1:A:40:LEU:HB3	2	0.67	0.21	0.67
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG12	2	0.61	0.01	0.61
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG11	2	0.61	0.01	0.61
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG13	2	0.61	0.01	0.61
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG22	2	0.58	0.44	0.58
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG21	2	0.58	0.44	0.58
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG23	2	0.58	0.44	0.58
(1,1074)	1:A:81:GLY:HA2	1:A:42:ASN:HD22	2	0.48	0.2	0.48

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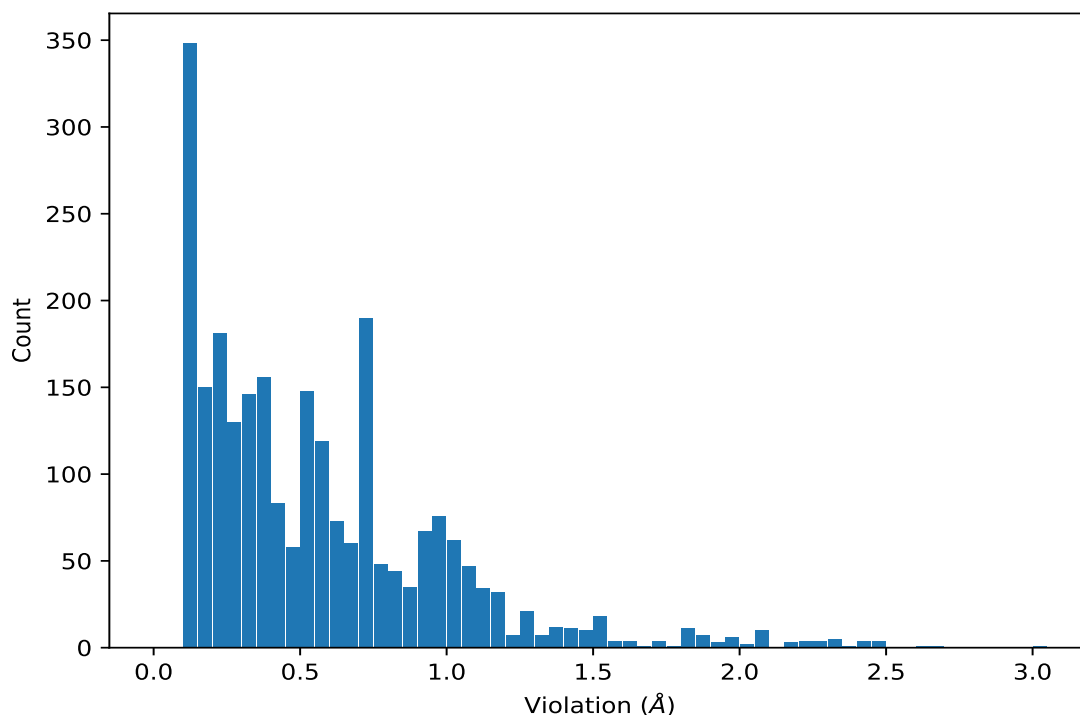
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD12	2	0.37	0.07	0.37
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD11	2	0.37	0.07	0.37
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD13	2	0.37	0.07	0.37
(1,1610)	1:A:82:ASN:H	1:A:42:ASN:HD22	2	0.36	0.14	0.36
(1,1962)	1:A:69:CYS:H	1:A:55:GLU:HB2	2	0.33	0.08	0.33
(1,1557)	1:A:100:ALA:H	1:A:99:MET:HG2	2	0.26	0.11	0.26
(1,407)	1:A:86:LEU:HD22	1:A:38:ARG:HD2	2	0.25	0.14	0.25
(1,407)	1:A:86:LEU:HD21	1:A:38:ARG:HD2	2	0.25	0.14	0.25
(1,407)	1:A:86:LEU:HD23	1:A:38:ARG:HD2	2	0.25	0.14	0.25
(1,1747)	1:A:48:GLU:H	1:A:48:GLU:HB2	2	0.25	0.02	0.25
(1,1159)	1:A:14:LEU:HD22	1:A:27:PHE:HB2	2	0.24	0.13	0.24
(1,1159)	1:A:14:LEU:HD21	1:A:27:PHE:HB2	2	0.24	0.13	0.24
(1,1159)	1:A:14:LEU:HD23	1:A:27:PHE:HB2	2	0.24	0.13	0.24
(1,1872)	1:A:74:GLN:H	1:A:73:ASN:HB3	2	0.2	0.0	0.2
(1,1568)	1:A:74:GLN:H	1:A:74:GLN:HG3	2	0.2	0.05	0.2
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG22	2	0.18	0.0	0.18
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG21	2	0.18	0.0	0.18
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG23	2	0.18	0.0	0.18
(1,1896)	1:A:102:PHE:H	1:A:102:PHE:HD1	2	0.16	0.06	0.16
(1,1999)	1:A:102:PHE:H	1:A:103:MET:H	2	0.16	0.02	0.16
(1,531)	1:A:40:LEU:HD12	1:A:40:LEU:HB2	2	0.12	0.01	0.12
(1,531)	1:A:40:LEU:HD11	1:A:40:LEU:HB2	2	0.12	0.01	0.12
(1,531)	1:A:40:LEU:HD13	1:A:40:LEU:HB2	2	0.12	0.01	0.12
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD22	2	0.11	0.0	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD21	2	0.11	0.0	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD23	2	0.11	0.0	0.11
(1,1078)	1:A:78:VAL:HG12	1:A:77:HIS:HD2	2	0.11	0.0	0.11
(1,1078)	1:A:78:VAL:HG11	1:A:77:HIS:HD2	2	0.11	0.0	0.11
(1,1078)	1:A:78:VAL:HG13	1:A:77:HIS:HD2	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)
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	15	3.01
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	6	2.67
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	12	2.61
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	18	2.48
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	22	2.48
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	16	2.46
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	2	2.45
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	3	2.43
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	3	2.41
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	4	2.41
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	25	2.4
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	11	2.37
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	7	2.34
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	18	2.33
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	4	2.32
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	13	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	16	2.31
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	21	2.28
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	23	2.27
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	6	2.25
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	24	2.25
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	14	2.23
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	19	2.23
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	14	2.22
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	4	2.2
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	20	2.19
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	8	2.18
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	25	2.16
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	12	2.09
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	10	2.08
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	22	2.07
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	25	2.07
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	4	2.07
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	4	2.07
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	4	2.07
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	17	2.06
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	1	2.06
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	5	2.05
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	5	2.04
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	23	2.03
(1,1333)	1:A:40:LEU:HD12	1:A:45:VAL:HB	15	1.99
(1,1333)	1:A:40:LEU:HD11	1:A:45:VAL:HB	15	1.99
(1,1333)	1:A:40:LEU:HD13	1:A:45:VAL:HB	15	1.99
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD12	15	1.97
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD11	15	1.97
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD13	15	1.97
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	5	1.92
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	9	1.92
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	11	1.91
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	8	1.89
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	13	1.87
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	21	1.87
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	24	1.86
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	6	1.86
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	7	1.85
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	9	1.85
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD12	15	1.84
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD11	15	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD13	15	1.84
(1,1333)	1:A:40:LEU:HD12	1:A:45:VAL:HB	18	1.84
(1,1333)	1:A:40:LEU:HD11	1:A:45:VAL:HB	18	1.84
(1,1333)	1:A:40:LEU:HD13	1:A:45:VAL:HB	18	1.84
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	15	1.82
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	3	1.82
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD12	18	1.8
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD11	18	1.8
(1,532)	1:A:45:VAL:HA	1:A:40:LEU:HD13	18	1.8
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	12	1.77
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	17	1.73
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD12	18	1.72
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD11	18	1.72
(1,535)	1:A:46:LEU:H	1:A:40:LEU:HD13	18	1.72
(1,1198)	1:A:69:CYS:HB3	1:A:26:PRO:HG2	17	1.69
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	13	1.61
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	20	1.6
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	20	1.6
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	20	1.6
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	23	1.59
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	23	1.59
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	23	1.59
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	2	1.57
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	17	1.53
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	17	1.53
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	17	1.53
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	11	1.53
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	23	1.52
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	3	1.52
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	7	1.52
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	15	1.51
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	15	1.51
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	15	1.51
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	17	1.51
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	22	1.51
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	15	1.5
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	15	1.5
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	15	1.5
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	25	1.5
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	25	1.5
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	25	1.5
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	1	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	20	1.47
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	20	1.47
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	20	1.47
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	12	1.47
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	12	1.47
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	17	1.46
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	13	1.45
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	13	1.45
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	13	1.45
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	18	1.44
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	12	1.43
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	12	1.43
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	12	1.43
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	17	1.42
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	1	1.41
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	1	1.41
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	1	1.41
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD12	15	1.4
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD11	15	1.4
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD13	15	1.4
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	18	1.39
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	18	1.39
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	18	1.39
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	20	1.39
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	20	1.39
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	20	1.39
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	23	1.37
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	23	1.37
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	23	1.37
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	4	1.35
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	4	1.35
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	4	1.35
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	9	1.33
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	8	1.32
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	16	1.31
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	16	1.31
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	16	1.31
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	7	1.31
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	24	1.3
(1,1968)	1:A:89:ASN:HD21	1:A:33:PRO:HD3	17	1.29
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	14	1.29
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	2	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	23	1.26
(1,527)	1:A:40:LEU:HD12	1:A:40:LEU:HA	15	1.26
(1,527)	1:A:40:LEU:HD11	1:A:40:LEU:HA	15	1.26
(1,527)	1:A:40:LEU:HD13	1:A:40:LEU:HA	15	1.26
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	2	1.26
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	2	1.26
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	2	1.26
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	19	1.26
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	3	1.26
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD22	18	1.26
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD21	18	1.26
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD23	18	1.26
(1,527)	1:A:40:LEU:HD12	1:A:40:LEU:HA	18	1.25
(1,527)	1:A:40:LEU:HD11	1:A:40:LEU:HA	18	1.25
(1,527)	1:A:40:LEU:HD13	1:A:40:LEU:HA	18	1.25
(1,509)	1:A:57:LEU:HD12	1:A:58:GLU:H	4	1.25
(1,509)	1:A:57:LEU:HD11	1:A:58:GLU:H	4	1.25
(1,509)	1:A:57:LEU:HD13	1:A:58:GLU:H	4	1.25
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	23	1.24
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	10	1.23
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	13	1.23
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	13	1.23
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	13	1.23
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	7	1.23
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	23	1.22
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	3	1.19
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD22	15	1.19
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD21	15	1.19
(1,1089)	1:A:84:THR:HB	1:A:40:LEU:HD23	15	1.19
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	22	1.18
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	22	1.18
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	22	1.18
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	12	1.18
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	13	1.18
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	8	1.18
(1,1027)	1:A:28:SER:HB3	1:A:30:ASP:HB2	13	1.18
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	15	1.17
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	2	1.17
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	2	1.17
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	2	1.17
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	14	1.17
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	14	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	14	1.17
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	25	1.16
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	25	1.16
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	25	1.16
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	25	1.16
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	25	1.16
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	25	1.16
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	12	1.16
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	12	1.16
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	12	1.16
(1,1027)	1:A:28:SER:HB3	1:A:30:ASP:HB2	20	1.16
(1,1968)	1:A:89:ASN:HD21	1:A:33:PRO:HD3	2	1.15
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	2	1.15
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	2	1.15
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	2	1.15
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	14	1.14
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	14	1.14
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	14	1.14
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	4	1.14
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	4	1.14
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	4	1.14
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	16	1.14
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	22	1.14
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	4	1.14
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	5	1.14
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	21	1.14
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	21	1.13
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	21	1.13
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	21	1.13
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	2	1.13
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	11	1.13
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	24	1.13
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD12	10	1.12
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD11	10	1.12
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD13	10	1.12
(1,1779)	1:A:58:GLU:H	1:A:57:LEU:HB2	4	1.11
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	6	1.1
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	6	1.1
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	6	1.1
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	6	1.1
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	6	1.1
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	6	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	8	1.1
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	8	1.1
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	8	1.1
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	4	1.1
(1,1183)	1:A:67:HIS:HB3	1:A:57:LEU:HD22	4	1.1
(1,1183)	1:A:67:HIS:HB3	1:A:57:LEU:HD21	4	1.1
(1,1183)	1:A:67:HIS:HB3	1:A:57:LEU:HD23	4	1.1
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	18	1.09
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	18	1.09
(1,1028)	1:A:65:VAL:HG22	1:A:28:SER:HB3	15	1.09
(1,1028)	1:A:65:VAL:HG21	1:A:28:SER:HB3	15	1.09
(1,1028)	1:A:65:VAL:HG23	1:A:28:SER:HB3	15	1.09
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	9	1.08
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	9	1.08
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	9	1.08
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	18	1.08
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	18	1.08
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	18	1.08
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	21	1.08
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	2	1.07
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	2	1.07
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	2	1.07
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	8	1.07
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	8	1.07
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	8	1.07
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	22	1.07
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	22	1.07
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	22	1.07
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	12	1.07
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	12	1.07
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	12	1.07
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	15	1.06
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	5	1.06
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	5	1.06
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	5	1.06
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD12	15	1.06
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD11	15	1.06
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD13	15	1.06
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	3	1.06
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	3	1.06
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	3	1.06
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	19	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	19	1.06
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	19	1.06
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	25	1.06
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	7	1.05
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	7	1.05
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	7	1.05
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	10	1.05
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	10	1.05
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	10	1.05
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	18	1.05
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	18	1.05
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	18	1.05
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	3	1.04
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	3	1.04
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	3	1.04
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	24	1.04
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	24	1.04
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	24	1.04
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	4	1.04
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	4	1.04
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	4	1.04
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	23	1.04
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	7	1.04
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	7	1.04
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	7	1.04
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	23	1.04
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	23	1.04
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	23	1.04
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	4	1.02
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	4	1.02
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	4	1.02
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	13	1.02
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	13	1.02
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	13	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	8	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	8	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	8	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	13	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	13	1.02
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	13	1.02
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG22	10	1.02
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG21	10	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG23	10	1.02
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	1	1.02
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	5	1.02
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	5	1.02
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	5	1.02
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	11	1.02
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	11	1.02
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	11	1.02
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	10	1.01
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	10	1.01
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	10	1.01
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	9	1.01
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	9	1.01
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	9	1.01
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	1	1.01
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	1	1.01
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	1	1.01
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	6	1.01
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	6	1.01
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	6	1.01
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	9	1.01
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	23	1.0
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	23	1.0
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	23	1.0
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	4	1.0
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	25	1.0
(1,13)	1:A:57:LEU:HD22	1:A:68:GLY:HA2	4	1.0
(1,13)	1:A:57:LEU:HD21	1:A:68:GLY:HA2	4	1.0
(1,13)	1:A:57:LEU:HD23	1:A:68:GLY:HA2	4	1.0
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	7	1.0
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	7	1.0
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	7	1.0
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	4	0.99
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	3	0.99
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	3	0.99
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	3	0.99
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	8	0.98
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	8	0.98
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	8	0.98
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	11	0.98
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	11	0.98
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	11	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	9	0.98
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	9	0.98
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	9	0.98
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	16	0.98
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	16	0.98
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	16	0.98
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	16	0.98
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	16	0.98
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	16	0.98
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	6	0.98
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	6	0.98
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	6	0.98
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	14	0.98
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	2	0.98
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	2	0.98
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	2	0.98
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	13	0.98
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	13	0.98
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	13	0.98
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	17	0.97
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	17	0.97
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	17	0.97
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	9	0.97
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	9	0.97
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	9	0.97
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	12	0.97
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	12	0.97
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	12	0.97
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	25	0.97
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	25	0.97
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	25	0.97
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	18	0.97
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	18	0.97
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	18	0.97
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	17	0.97
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	10	0.97
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	20	0.97
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	20	0.97
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	23	0.96
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	23	0.96
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	23	0.96
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	13	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	13	0.96
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	13	0.96
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	14	0.96
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	14	0.96
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	14	0.96
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	21	0.96
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	21	0.96
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	21	0.96
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	22	0.95
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	3	0.95
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	3	0.95
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	3	0.95
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	2	0.95
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	2	0.95
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	2	0.95
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	24	0.95
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	24	0.95
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	24	0.95
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	10	0.95
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	10	0.95
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	10	0.95
(1,1028)	1:A:65:VAL:HG22	1:A:28:SER:HB3	20	0.95
(1,1028)	1:A:65:VAL:HG21	1:A:28:SER:HB3	20	0.95
(1,1028)	1:A:65:VAL:HG23	1:A:28:SER:HB3	20	0.95
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	1	0.94
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	11	0.94
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	11	0.94
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	11	0.94
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD12	18	0.94
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD11	18	0.94
(1,536)	1:A:45:VAL:H	1:A:40:LEU:HD13	18	0.94
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	11	0.94
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	11	0.94
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	11	0.94
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	20	0.94
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	20	0.94
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	20	0.94
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	6	0.94
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	25	0.94
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	25	0.94
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	25	0.94
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	11	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	11	0.93
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	11	0.93
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	11	0.93
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	15	0.93
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	15	0.93
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	9	0.93
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	9	0.93
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	9	0.93
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	18	0.93
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	18	0.93
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	18	0.93
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	20	0.92
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	8	0.92
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	1	0.92
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	1	0.92
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	1	0.92
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	25	0.92
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	25	0.92
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	25	0.92
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	19	0.92
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	19	0.92
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	19	0.92
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	7	0.92
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	7	0.92
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	7	0.92
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	21	0.92
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	21	0.92
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	21	0.92
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	24	0.92
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	24	0.92
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	24	0.92
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	6	0.91
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	6	0.91
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	6	0.91
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	7	0.91
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	7	0.91
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	7	0.91
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	8	0.91
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	22	0.91
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	3	0.91
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	3	0.91
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	16	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	7	0.9
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	7	0.9
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	7	0.9
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	9	0.9
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	16	0.9
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	16	0.9
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	16	0.9
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	17	0.89
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	17	0.89
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	17	0.89
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	4	0.89
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	4	0.89
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	4	0.89
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	24	0.89
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	5	0.88
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	5	0.88
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	5	0.88
(1,702)	1:A:86:LEU:HD12	1:A:40:LEU:HB3	18	0.88
(1,702)	1:A:86:LEU:HD11	1:A:40:LEU:HB3	18	0.88
(1,702)	1:A:86:LEU:HD13	1:A:40:LEU:HB3	18	0.88
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	25	0.88
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	25	0.88
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	25	0.88
(1,449)	1:A:29:VAL:HG12	1:A:66:ARG:HD2	9	0.88
(1,449)	1:A:29:VAL:HG11	1:A:66:ARG:HD2	9	0.88
(1,449)	1:A:29:VAL:HG13	1:A:66:ARG:HD2	9	0.88
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	25	0.88
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	25	0.88
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	25	0.88
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	11	0.88
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	11	0.88
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	11	0.88
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	21	0.86
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	14	0.86
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	14	0.86
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	14	0.86
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	19	0.86
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	19	0.86
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	19	0.86
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	23	0.86
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	14	0.85
(1,1652)	1:A:99:MET:H	1:A:98:ILE:HG13	18	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	4	0.84
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	16	0.84
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	6	0.84
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	8	0.84
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	8	0.84
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	8	0.84
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	19	0.83
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	20	0.83
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	20	0.83
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	20	0.83
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	13	0.83
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	1	0.82
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD12	15	0.82
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD11	15	0.82
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD13	15	0.82
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD12	15	0.82
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD11	15	0.82
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD13	15	0.82
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD12	15	0.82
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD11	15	0.82
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD13	15	0.82
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	2	0.82
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	2	0.82
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	2	0.81
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	6	0.81
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	24	0.81
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	13	0.81
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	13	0.81
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	13	0.81
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	2	0.8
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	11	0.8
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	2	0.8
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	2	0.8
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	2	0.8
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	18	0.8
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	18	0.8
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	18	0.8
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	24	0.8
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	24	0.8
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	24	0.8
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	12	0.8
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	12	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	12	0.8
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	2	0.8
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	8	0.79
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	22	0.79
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	11	0.79
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	11	0.79
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	11	0.79
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	25	0.78
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	25	0.78
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	25	0.78
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	6	0.78
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	3	0.78
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	3	0.78
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	3	0.78
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	25	0.78
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	25	0.78
(1,1028)	1:A:65:VAL:HG22	1:A:28:SER:HB3	13	0.78
(1,1028)	1:A:65:VAL:HG21	1:A:28:SER:HB3	13	0.78
(1,1028)	1:A:65:VAL:HG23	1:A:28:SER:HB3	13	0.78
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	20	0.77
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	20	0.77
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	20	0.77
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	21	0.77
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	21	0.77
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	21	0.77
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	10	0.77
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	10	0.77
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	9	0.76
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	9	0.76
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	9	0.76
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	24	0.76
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	24	0.76
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	24	0.76
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	8	0.76
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	21	0.76
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	18	0.76
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	18	0.76
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	18	0.76
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	23	0.76
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	23	0.76
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	23	0.76
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	17	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	17	0.76
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	17	0.76
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	15	0.76
(1,1027)	1:A:28:SER:HB3	1:A:30:ASP:HB2	15	0.76
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	20	0.75
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	20	0.75
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	20	0.75
(1,1968)	1:A:89:ASN:HD21	1:A:33:PRO:HD3	14	0.75
(1,827)	1:A:53:PHE:HB3	1:A:48:GLU:HB3	23	0.74
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	4	0.74
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	4	0.74
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	4	0.74
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	17	0.74
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	17	0.74
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	17	0.74
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	22	0.74
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	22	0.74
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	22	0.74
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	13	0.74
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	17	0.74
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	6	0.74
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	6	0.74
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	6	0.74
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	6	0.74
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	6	0.74
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	6	0.74
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	16	0.73
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	16	0.73
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	16	0.73
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	15	0.73
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	15	0.73
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	15	0.73
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	3	0.73
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	3	0.73
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	3	0.73
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	9	0.73
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	9	0.73
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	9	0.73
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	16	0.73
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	16	0.73
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	16	0.73
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	3	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	23	0.73
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	23	0.73
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	23	0.73
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	8	0.72
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	8	0.72
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	8	0.72
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	4	0.72
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	24	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	1	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	1	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	1	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	2	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	2	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	2	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	5	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	5	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	5	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	15	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	15	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	15	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	23	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	23	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	23	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	24	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	24	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	24	0.72
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	25	0.72
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	25	0.72
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	25	0.72
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	8	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	2	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	2	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	2	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	2	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	2	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	2	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	19	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	19	0.72
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	19	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	19	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	19	0.72
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	19	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	4	0.71
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	4	0.71
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	4	0.71
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	14	0.71
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	14	0.71
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	14	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	7	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	7	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	7	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	8	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	8	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	8	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	11	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	11	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	11	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	12	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	12	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	12	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	13	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	13	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	13	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	18	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	18	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	18	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	19	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	19	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	19	0.71
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	20	0.71
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	20	0.71
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	20	0.71
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	16	0.71
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	16	0.71
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	16	0.71
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD12	18	0.71
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD11	18	0.71
(1,209)	1:A:45:VAL:HG22	1:A:40:LEU:HD13	18	0.71
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD12	18	0.71
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD11	18	0.71
(1,209)	1:A:45:VAL:HG21	1:A:40:LEU:HD13	18	0.71
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD12	18	0.71
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD11	18	0.71
(1,209)	1:A:45:VAL:HG23	1:A:40:LEU:HD13	18	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	5	0.71
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	5	0.71
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	5	0.71
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	9	0.71
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	2	0.71
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	2	0.71
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	2	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	12	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	12	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	12	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	12	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	12	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	12	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	15	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	15	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	15	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	15	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	15	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	15	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	22	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	22	0.71
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	22	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	22	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	22	0.71
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	22	0.71
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	18	0.7
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	18	0.7
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	18	0.7
(1,942)	1:A:106:PRO:HB3	1:A:107:PHE:HB3	1	0.7
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	9	0.7
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	9	0.7
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	9	0.7
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	12	0.7
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	12	0.7
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	12	0.7
(1,927)	1:A:99:MET:HE2	1:A:99:MET:HG2	24	0.7
(1,927)	1:A:99:MET:HE1	1:A:99:MET:HG2	24	0.7
(1,927)	1:A:99:MET:HE3	1:A:99:MET:HG2	24	0.7
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	22	0.7
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	22	0.7
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	22	0.7
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	10	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	10	0.7
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	10	0.7
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	14	0.7
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	14	0.7
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	14	0.7
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	21	0.7
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	21	0.7
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	21	0.7
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	3	0.7
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	3	0.7
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	3	0.7
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	4	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	4	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	4	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	4	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	4	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	4	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	4	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	7	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	7	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	7	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	7	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	7	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	7	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	18	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	18	0.7
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	18	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	18	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	18	0.7
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	18	0.7
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	6	0.69
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	18	0.69
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	18	0.69
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	18	0.69
(1,641)	1:A:6:VAL:HG22	1:A:6:VAL:HA	6	0.69
(1,641)	1:A:6:VAL:HG21	1:A:6:VAL:HA	6	0.69
(1,641)	1:A:6:VAL:HG23	1:A:6:VAL:HA	6	0.69
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	10	0.69
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	10	0.69
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	10	0.69
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	21	0.69
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	2	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	8	0.68
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	8	0.68
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	8	0.68
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	24	0.68
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	24	0.68
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	24	0.68
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	13	0.68
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	23	0.68
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	25	0.68
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	25	0.68
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	25	0.68
(1,1111)	1:A:89:ASN:HB3	1:A:91:CYS:HB3	11	0.68
(1,1074)	1:A:81:GLY:HA2	1:A:42:ASN:HD22	23	0.68
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	23	0.67
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	23	0.67
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	23	0.67
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	24	0.67
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	24	0.67
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	24	0.67
(1,1761)	1:A:48:GLU:H	1:A:48:GLU:HG3	4	0.67
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD12	18	0.67
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD11	18	0.67
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD13	18	0.67
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	25	0.67
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	25	0.67
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	25	0.67
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	25	0.67
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	25	0.67
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	25	0.67
(1,827)	1:A:53:PHE:HB3	1:A:48:GLU:HB3	16	0.66
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	10	0.66
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	10	0.66
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	10	0.66
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	16	0.66
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	16	0.66
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	16	0.66
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	16	0.66
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	16	0.66
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	16	0.66
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	20	0.66
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	3	0.65
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	5	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	23	0.65
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	23	0.65
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	23	0.65
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	11	0.65
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	22	0.65
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	22	0.65
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	14	0.64
(1,734)	1:A:25:ILE:HG22	1:A:27:PHE:HB2	12	0.64
(1,734)	1:A:25:ILE:HG21	1:A:27:PHE:HB2	12	0.64
(1,734)	1:A:25:ILE:HG23	1:A:27:PHE:HB2	12	0.64
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD22	3	0.64
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD21	3	0.64
(1,333)	1:A:98:ILE:HG12	1:A:14:LEU:HD23	3	0.64
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	16	0.64
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	14	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	9	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	9	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	9	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	9	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	9	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	9	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	17	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	17	0.64
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	17	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	17	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	17	0.64
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	17	0.64
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	11	0.63
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	11	0.63
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	11	0.63
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	11	0.63
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	24	0.63
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	18	0.62
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	18	0.62
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	18	0.62
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	5	0.62
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG12	10	0.62
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG11	10	0.62
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG13	10	0.62
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	5	0.62
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	2	0.62
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	6	0.62
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	6	0.62
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	6	0.62
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	23	0.62
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	23	0.62
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	23	0.62
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	23	0.62
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	23	0.62
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	23	0.62
(1,251)	1:A:61:ALA:HB2	1:A:62:ASN:HB2	22	0.61
(1,251)	1:A:61:ALA:HB1	1:A:62:ASN:HB2	22	0.61
(1,251)	1:A:61:ALA:HB3	1:A:62:ASN:HB2	22	0.61
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	25	0.61
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	12	0.61
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	19	0.61
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	19	0.61
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	19	0.61
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	7	0.6
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	7	0.6
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	7	0.6
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG12	15	0.6
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG11	15	0.6
(1,398)	1:A:79:ASN:HD21	1:A:78:VAL:HG13	15	0.6
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	12	0.6
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	12	0.6
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	12	0.6
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	9	0.6
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	24	0.6
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	8	0.6
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	8	0.6
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	8	0.6
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	3	0.6
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	3	0.6
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	3	0.6
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	3	0.6
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	3	0.6
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	3	0.6
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	25	0.59
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	25	0.59
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	25	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	4	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	4	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	7	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	7	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	7	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	8	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	8	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	8	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	10	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	10	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	10	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	13	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	13	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	13	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	22	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	22	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	22	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	23	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	23	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	23	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	24	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	24	0.59
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	24	0.59
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	10	0.58
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	10	0.58
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	10	0.58
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	7	0.58
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	7	0.58
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	7	0.58
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	19	0.58
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	19	0.58
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	19	0.58
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	24	0.58
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	24	0.58
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	24	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	3	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	3	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	3	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	6	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	6	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	6	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	9	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	9	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	9	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	11	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	11	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	11	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	14	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	14	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	14	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	16	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	16	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	16	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	20	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	20	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	20	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	21	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	21	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	21	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	25	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	25	0.58
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	25	0.58
(1,15)	1:A:57:LEU:HD22	1:A:57:LEU:HB2	4	0.58
(1,15)	1:A:57:LEU:HD21	1:A:57:LEU:HB2	4	0.58
(1,15)	1:A:57:LEU:HD23	1:A:57:LEU:HB2	4	0.58
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	23	0.58
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	14	0.57
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	6	0.57
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	6	0.57
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	6	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	2	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	2	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	2	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG22	18	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG21	18	0.57
(1,332)	1:A:98:ILE:HG12	1:A:98:ILE:HG23	18	0.57
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	7	0.57
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	7	0.57
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	7	0.57
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	17	0.57
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	25	0.57
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	17	0.57
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	21	0.57
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	9	0.57
(1,1111)	1:A:89:ASN:HB3	1:A:91:CYS:HB3	3	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	2	0.56
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	2	0.56
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	2	0.56
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	2	0.56
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	2	0.56
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	2	0.56
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	13	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	6	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	6	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	6	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	23	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	23	0.56
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	23	0.56
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	7	0.56
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	5	0.56
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	5	0.56
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	5	0.56
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	5	0.56
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	5	0.56
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	5	0.56
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	6	0.55
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	6	0.55
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	6	0.55
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	11	0.55
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	11	0.55
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	11	0.55
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	2	0.55
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	2	0.55
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	24	0.55
(1,1591)	1:A:79:ASN:H	1:A:102:PHE:HB2	19	0.55
(1,962)	1:A:6:VAL:HG12	1:A:7:SER:HB2	22	0.53
(1,962)	1:A:6:VAL:HG11	1:A:7:SER:HB2	22	0.53
(1,962)	1:A:6:VAL:HG13	1:A:7:SER:HB2	22	0.53
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	16	0.53
(1,632)	1:A:65:VAL:HG12	1:A:28:SER:HB3	20	0.53
(1,632)	1:A:65:VAL:HG11	1:A:28:SER:HB3	20	0.53
(1,632)	1:A:65:VAL:HG13	1:A:28:SER:HB3	20	0.53
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	18	0.53
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	18	0.53
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	18	0.53
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	4	0.53
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	4	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	4	0.53
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	18	0.53
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	14	0.53
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	19	0.52
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG22	6	0.52
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG21	6	0.52
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG23	6	0.52
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	2	0.52
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	2	0.52
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	2	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	1	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	1	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	1	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	2	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	2	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	2	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	3	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	3	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	3	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	5	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	5	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	5	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	6	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	6	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	6	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	7	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	7	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	7	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	8	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	8	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	8	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	13	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	13	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	13	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	17	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	17	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	17	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	18	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	18	0.52
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	18	0.52
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	19	0.52
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	7	0.52
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE1	23	0.52
(1,1239)	1:A:55:GLU:HG2	1:A:53:PHE:HE2	23	0.52
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	4	0.52
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	4	0.52
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	4	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	21	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	21	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	21	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	21	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	21	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	21	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	24	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	24	0.52
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	24	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	24	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	24	0.52
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	24	0.52
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	8	0.51
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	8	0.51
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	8	0.51
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	10	0.51
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	10	0.51
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	10	0.51
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	15	0.51
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	15	0.51
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	15	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	2	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	12	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	13	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	17	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	19	0.51
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	25	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	9	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	9	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	9	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	10	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	10	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	10	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	14	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	14	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	14	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	15	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	15	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	15	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	16	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	16	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	16	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	19	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	19	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	19	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	20	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	20	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	20	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	21	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	21	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	21	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	22	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	22	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	22	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	23	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	23	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	23	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	24	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	24	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	24	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	25	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	25	0.51
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	25	0.51
(1,1761)	1:A:48:GLU:H	1:A:48:GLU:HG3	16	0.51
(1,1147)	1:A:10:ALA:HB2	1:A:89:ASN:HB2	14	0.51
(1,1147)	1:A:10:ALA:HB1	1:A:89:ASN:HB2	14	0.51
(1,1147)	1:A:10:ALA:HB3	1:A:89:ASN:HB2	14	0.51
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	20	0.51
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	20	0.51
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	20	0.51
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	20	0.51
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	20	0.51
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	20	0.51
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	19	0.5
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	19	0.5
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	19	0.5
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	9	0.5
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:A:38:ARG:HB2	1:A:38:ARG:HG2	21	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	11	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	11	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	11	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD12	12	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD11	12	0.5
(1,219)	1:A:46:LEU:HB3	1:A:46:LEU:HD13	12	0.5
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	6	0.5
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	23	0.5
(1,1610)	1:A:82:ASN:H	1:A:42:ASN:HD22	23	0.5
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	4	0.49
(1,251)	1:A:61:ALA:HB2	1:A:62:ASN:HB2	11	0.49
(1,251)	1:A:61:ALA:HB1	1:A:62:ASN:HB2	11	0.49
(1,251)	1:A:61:ALA:HB3	1:A:62:ASN:HB2	11	0.49
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	7	0.49
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	19	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	4	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	4	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	4	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	18	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	18	0.49
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	18	0.49
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	9	0.48
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB2	8	0.48
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB1	8	0.48
(1,502)	1:A:63:GLU:HG2	1:A:60:ALA:HB3	8	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	7	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	7	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	7	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	8	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	8	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	8	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	15	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	15	0.48
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	15	0.48
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	1	0.48
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	18	0.48
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	23	0.48
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	7	0.47
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	15	0.47
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	15	0.47
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	15	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,827)	1:A:53:PHE:HB3	1:A:48:GLU:HB3	4	0.46
(1,702)	1:A:86:LEU:HD12	1:A:40:LEU:HB3	15	0.46
(1,702)	1:A:86:LEU:HD11	1:A:40:LEU:HB3	15	0.46
(1,702)	1:A:86:LEU:HD13	1:A:40:LEU:HB3	15	0.46
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	9	0.46
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	9	0.46
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	9	0.46
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	12	0.46
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	16	0.46
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	2	0.46
(1,1506)	1:A:91:CYS:H	1:A:91:CYS:HB3	25	0.46
(1,1111)	1:A:89:ASN:HB3	1:A:91:CYS:HB3	25	0.46
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	13	0.45
(1,632)	1:A:65:VAL:HG12	1:A:28:SER:HB3	15	0.45
(1,632)	1:A:65:VAL:HG11	1:A:28:SER:HB3	15	0.45
(1,632)	1:A:65:VAL:HG13	1:A:28:SER:HB3	15	0.45
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	12	0.45
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	12	0.45
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	12	0.45
(1,386)	1:A:38:ARG:HB3	1:A:38:ARG:HE	10	0.45
(1,1992)	1:A:82:ASN:HD21	1:A:97:SER:HB2	3	0.45
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	10	0.45
(1,1660)	1:A:103:MET:H	1:A:103:MET:HB3	5	0.45
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	9	0.45
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	9	0.45
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	9	0.45
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	15	0.44
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	6	0.44
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	25	0.44
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	19	0.44
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	19	0.44
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	19	0.44
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD12	18	0.44
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD11	18	0.44
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD13	18	0.44
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	16	0.44
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	16	0.44
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	16	0.44
(1,251)	1:A:61:ALA:HB2	1:A:62:ASN:HB2	13	0.44
(1,251)	1:A:61:ALA:HB1	1:A:62:ASN:HB2	13	0.44
(1,251)	1:A:61:ALA:HB3	1:A:62:ASN:HB2	13	0.44
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1506)	1:A:91:CYS:H	1:A:91:CYS:HB3	11	0.44
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	25	0.44
(1,1255)	1:A:60:ALA:HB2	1:A:63:GLU:HB3	10	0.44
(1,1255)	1:A:60:ALA:HB1	1:A:63:GLU:HB3	10	0.44
(1,1255)	1:A:60:ALA:HB3	1:A:63:GLU:HB3	10	0.44
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	8	0.44
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	8	0.44
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	8	0.44
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	3	0.43
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	14	0.43
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	24	0.43
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	24	0.43
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	24	0.43
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	1	0.43
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	1	0.43
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	1	0.43
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	1	0.43
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	1	0.43
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	1	0.43
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	13	0.42
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	12	0.42
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	13	0.42
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	19	0.42
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	24	0.42
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	20	0.42
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	15	0.42
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	16	0.42
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	24	0.42
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	6	0.42
(1,1701)	1:A:22:HIS:H	1:A:21:HIS:HB2	20	0.42
(1,1506)	1:A:91:CYS:H	1:A:91:CYS:HB3	3	0.42
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	8	0.42
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	6	0.42
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	6	0.42
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	6	0.42
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	12	0.42
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	16	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	1	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	2	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	4	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	7	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	9	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	10	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	17	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	20	0.41
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	25	0.41
(1,1962)	1:A:69:CYS:H	1:A:55:GLU:HB2	6	0.41
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	11	0.41
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	25	0.41
(1,1075)	1:A:77:HIS:HB3	1:A:80:ASN:HD22	22	0.41
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	9	0.4
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	18	0.4
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	16	0.4
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	6	0.4
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	18	0.4
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	10	0.4
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	4	0.4
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	7	0.4
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	10	0.4
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	22	0.4
(1,1329)	1:A:57:LEU:HD22	1:A:68:GLY:H	4	0.4
(1,1329)	1:A:57:LEU:HD21	1:A:68:GLY:H	4	0.4
(1,1329)	1:A:57:LEU:HD23	1:A:68:GLY:H	4	0.4
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	11	0.4
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	11	0.4
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	11	0.4
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	10	0.39
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	9	0.39
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	19	0.39
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	2	0.39
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	2	0.39
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	2	0.39
(1,631)	1:A:65:VAL:HG12	1:A:30:ASP:HB3	2	0.39
(1,631)	1:A:65:VAL:HG11	1:A:30:ASP:HB3	2	0.39
(1,631)	1:A:65:VAL:HG13	1:A:30:ASP:HB3	2	0.39
(1,407)	1:A:86:LEU:HD22	1:A:38:ARG:HD2	11	0.39
(1,407)	1:A:86:LEU:HD21	1:A:38:ARG:HD2	11	0.39
(1,407)	1:A:86:LEU:HD23	1:A:38:ARG:HD2	11	0.39
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	2	0.39
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	2	0.39
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	2	0.39
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	7	0.39
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	7	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	7	0.39
(1,345)	1:A:13:GLN:HB2	1:A:13:GLN:HG2	23	0.39
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	19	0.39
(1,1997)	1:A:23:TRP:HE1	1:A:102:PHE:HB3	8	0.39
(1,1761)	1:A:48:GLU:H	1:A:48:GLU:HG3	11	0.39
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	21	0.39
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	5	0.39
(1,1514)	1:A:92:GLY:H	1:A:91:CYS:HB3	25	0.39
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	5	0.38
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	5	0.38
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	5	0.38
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	16	0.38
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	16	0.38
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	16	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	1	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	1	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	1	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	4	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	4	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	4	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	8	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	8	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	8	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	10	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	10	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	10	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	11	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	11	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	11	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	19	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	19	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	19	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	20	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	20	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	20	0.38
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	24	0.38
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	24	0.38
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	24	0.38
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	2	0.38
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	19	0.38
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	2	0.38
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	14	0.38
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	14	0.38
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	14	0.38
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	14	0.38
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	14	0.38
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	14	0.38
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	19	0.37
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	19	0.37
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	19	0.37
(1,930)	1:A:99:MET:HE2	1:A:82:ASN:HD22	9	0.37
(1,930)	1:A:99:MET:HE1	1:A:82:ASN:HD22	9	0.37
(1,930)	1:A:99:MET:HE3	1:A:82:ASN:HD22	9	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	3	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	3	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	3	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	9	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	9	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	9	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	12	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	12	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	12	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	13	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	13	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	13	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	14	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	14	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	14	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	16	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	16	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	16	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	17	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	17	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	17	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	18	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	18	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	18	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	22	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	22	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	22	0.37
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	23	0.37
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	23	0.37
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	23	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	11	0.37
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	21	0.37
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	2	0.37
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	5	0.37
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	6	0.37
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	23	0.37
(1,1557)	1:A:100:ALA:H	1:A:99:MET:HG2	17	0.37
(1,1159)	1:A:14:LEU:HD22	1:A:27:PHE:HB2	21	0.37
(1,1159)	1:A:14:LEU:HD21	1:A:27:PHE:HB2	21	0.37
(1,1159)	1:A:14:LEU:HD23	1:A:27:PHE:HB2	21	0.37
(1,1065)	1:A:46:LEU:HG	1:A:48:GLU:HG3	4	0.37
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	6	0.36
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	6	0.36
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	6	0.36
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	20	0.36
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	20	0.36
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	20	0.36
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	21	0.36
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	21	0.36
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	21	0.36
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	6	0.36
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	6	0.36
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	6	0.36
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	21	0.36
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	21	0.36
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	21	0.36
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	21	0.36
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	24	0.36
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	19	0.36
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	24	0.36
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	10	0.36
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	12	0.36
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	20	0.36
(1,1661)	1:A:104:ASP:H	1:A:104:ASP:HB3	1	0.36
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	19	0.36
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	1	0.36
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	20	0.36
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG22	7	0.35
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG21	7	0.35
(1,967)	1:A:63:GLU:HB2	1:A:65:VAL:HG23	7	0.35
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	2	0.35
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	2	0.35
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	23	0.35
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	23	0.35
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	23	0.35
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	15	0.35
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	15	0.35
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	15	0.35
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	25	0.35
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	25	0.35
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	25	0.35
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	13	0.35
(1,1761)	1:A:48:GLU:H	1:A:48:GLU:HG3	12	0.35
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	19	0.35
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	5	0.34
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	5	0.34
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	5	0.34
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	12	0.34
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	12	0.34
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	12	0.34
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	13	0.34
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	13	0.34
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	13	0.34
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	13	0.34
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	16	0.34
(1,827)	1:A:53:PHE:HB3	1:A:48:GLU:HB3	13	0.34
(1,528)	1:A:40:LEU:HD12	1:A:38:ARG:HG3	17	0.34
(1,528)	1:A:40:LEU:HD11	1:A:38:ARG:HG3	17	0.34
(1,528)	1:A:40:LEU:HD13	1:A:38:ARG:HG3	17	0.34
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB2	20	0.34
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB1	20	0.34
(1,500)	1:A:63:GLU:HB3	1:A:61:ALA:HB3	20	0.34
(1,378)	1:A:52:ILE:HG22	1:A:52:ILE:HG13	5	0.34
(1,378)	1:A:52:ILE:HG21	1:A:52:ILE:HG13	5	0.34
(1,378)	1:A:52:ILE:HG23	1:A:52:ILE:HG13	5	0.34
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	6	0.34
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	12	0.34
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	17	0.34
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	14	0.34
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	17	0.34
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	20	0.34
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	10	0.34
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	10	0.34
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	10	0.34
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	10	0.34
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	10	0.34
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	7	0.33
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	7	0.33
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	7	0.33
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	10	0.33
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	10	0.33
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	10	0.33
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	16	0.33
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	16	0.33
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	16	0.33
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	18	0.33
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	18	0.33
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	18	0.33
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	21	0.33
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	18	0.33
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	7	0.33
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	7	0.33
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	7	0.33
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	7	0.33
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	7	0.33
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	7	0.33
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	21	0.33
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	11	0.33
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	18	0.33
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	20	0.33
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	23	0.33
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	16	0.33
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	14	0.33
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	15	0.33
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	19	0.33
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	5	0.33
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	5	0.33
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	5	0.33
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	13	0.33
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	13	0.33
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	13	0.33
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	1	0.32
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	1	0.32
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	4	0.32
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	4	0.32
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	4	0.32
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	14	0.32
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	14	0.32
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	14	0.32
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	24	0.32
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	24	0.32
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	24	0.32
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	5	0.32
(1,692)	1:A:99:MET:HA	1:A:99:MET:HG2	17	0.32
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	2	0.32
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	9	0.32
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	13	0.32
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	14	0.32
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	7	0.32
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	24	0.32
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	8	0.32
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	15	0.32
(1,1742)	1:A:44:SER:H	1:A:44:SER:HB3	16	0.32
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	14	0.32
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	6	0.32
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	10	0.32
(1,1596)	1:A:80:ASN:H	1:A:80:ASN:HB3	15	0.32
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	6	0.32
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	6	0.32
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	6	0.32
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	8	0.32
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	8	0.32
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	8	0.32
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	15	0.31
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	15	0.31
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	15	0.31
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	25	0.31
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	25	0.31
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	25	0.31
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	20	0.31
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	20	0.31
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	20	0.31
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	12	0.31
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	12	0.31
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:A:58:GLU:HB2	1:A:58:GLU:HG2	10	0.31
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	16	0.31
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	1	0.31
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	8	0.31
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	9	0.31
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	18	0.31
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	22	0.31
(1,1659)	1:A:103:MET:H	1:A:103:MET:HG2	19	0.31
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	11	0.31
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	13	0.31
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	13	0.31
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	13	0.31
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	2	0.31
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	2	0.31
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	2	0.31
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	9	0.3
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	9	0.3
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	9	0.3
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	22	0.3
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	10	0.3
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD12	15	0.3
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD11	15	0.3
(1,534)	1:A:41:PHE:H	1:A:40:LEU:HD13	15	0.3
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	4	0.3
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	25	0.3
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	7	0.3
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	11	0.3
(1,1661)	1:A:104:ASP:H	1:A:104:ASP:HB3	21	0.3
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	3	0.3
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	8	0.3
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	19	0.3
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	23	0.3
(1,1514)	1:A:92:GLY:H	1:A:91:CYS:HB3	11	0.3
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	8	0.29
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	8	0.29
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	8	0.29
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	11	0.29
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	11	0.29
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	11	0.29
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	24	0.29
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	12	0.29
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	12	0.29
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	14	0.29
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	14	0.29
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	14	0.29
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	25	0.29
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	1	0.29
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	24	0.29
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	25	0.29
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD12	11	0.29
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD11	11	0.29
(1,147)	1:A:38:ARG:HD2	1:A:40:LEU:HD13	11	0.29
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	15	0.29
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	15	0.29
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	15	0.29
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	19	0.29
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	19	0.29
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	19	0.29
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	9	0.29
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	9	0.29
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	9	0.29
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	1	0.28
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	19	0.28
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	22	0.28
(1,692)	1:A:99:MET:HA	1:A:99:MET:HG2	19	0.28
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	13	0.28
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	13	0.28
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	13	0.28
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	7	0.28
(1,227)	1:A:48:GLU:HG2	1:A:53:PHE:HA	11	0.28
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	9	0.28
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	9	0.28
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	9	0.28
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	25	0.28
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	4	0.28
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	13	0.28
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	16	0.28
(1,1465)	1:A:80:ASN:HD22	1:A:77:HIS:HA	14	0.28
(1,1376)	1:A:77:HIS:HE1	1:A:106:PRO:HG3	25	0.28
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	1	0.28
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	1	0.28
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	1	0.28
(1,1074)	1:A:81:GLY:HA2	1:A:42:ASN:HD22	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	3	0.27
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	3	0.27
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	3	0.27
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	9	0.27
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	20	0.27
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	12	0.27
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	21	0.27
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	25	0.27
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	3	0.27
(1,1981)	1:A:29:VAL:H	1:A:66:ARG:HD2	18	0.27
(1,1747)	1:A:48:GLU:H	1:A:48:GLU:HB2	4	0.27
(1,1661)	1:A:104:ASP:H	1:A:104:ASP:HB3	10	0.27
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	7	0.27
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	14	0.27
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	14	0.27
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	14	0.27
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	8	0.26
(1,808)	1:A:42:ASN:HA	1:A:82:ASN:HB2	22	0.26
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	10	0.26
(1,692)	1:A:99:MET:HA	1:A:99:MET:HG2	10	0.26
(1,692)	1:A:99:MET:HA	1:A:99:MET:HG2	23	0.26
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	14	0.26
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	14	0.26
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	14	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	10	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	10	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	10	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	18	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	18	0.26
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	18	0.26
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	3	0.26
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	6	0.26
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	22	0.26
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	15	0.26
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	3	0.26
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	9	0.26
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	12	0.26
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	8	0.26
(1,1661)	1:A:104:ASP:H	1:A:104:ASP:HB3	17	0.26
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	17	0.26
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	18	0.26
(1,1484)	1:A:42:ASN:H	1:A:82:ASN:HB2	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	18	0.26
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	18	0.26
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	18	0.26
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	12	0.25
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	12	0.25
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	12	0.25
(1,976)	1:A:6:VAL:HG22	1:A:8:PHE:HD1	12	0.25
(1,976)	1:A:6:VAL:HG21	1:A:8:PHE:HD1	12	0.25
(1,976)	1:A:6:VAL:HG23	1:A:8:PHE:HD1	12	0.25
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	21	0.25
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	21	0.25
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	21	0.25
(1,632)	1:A:65:VAL:HG12	1:A:28:SER:HB3	13	0.25
(1,632)	1:A:65:VAL:HG11	1:A:28:SER:HB3	13	0.25
(1,632)	1:A:65:VAL:HG13	1:A:28:SER:HB3	13	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	9	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	9	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	9	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	16	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	16	0.25
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	16	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	2	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	8	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	9	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	10	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	13	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	16	0.25
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	24	0.25
(1,1962)	1:A:69:CYS:H	1:A:55:GLU:HB2	15	0.25
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	3	0.25
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	11	0.25
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	23	0.25
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	3	0.25
(1,1568)	1:A:74:GLN:H	1:A:74:GLN:HG3	20	0.25
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	25	0.25
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	25	0.25
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	25	0.25
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	5	0.24
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	7	0.24
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	11	0.24
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	1	0.24
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	1	0.24
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	4	0.24
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	14	0.24
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	20	0.24
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	23	0.24
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	15	0.24
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	13	0.24
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	13	0.24
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	13	0.24
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	6	0.23
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	6	0.23
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	6	0.23
(1,976)	1:A:6:VAL:HG22	1:A:8:PHE:HD1	6	0.23
(1,976)	1:A:6:VAL:HG21	1:A:8:PHE:HD1	6	0.23
(1,976)	1:A:6:VAL:HG23	1:A:8:PHE:HD1	6	0.23
(1,963)	1:A:6:VAL:HG22	1:A:7:SER:H	17	0.23
(1,963)	1:A:6:VAL:HG21	1:A:7:SER:H	17	0.23
(1,963)	1:A:6:VAL:HG23	1:A:7:SER:H	17	0.23
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	2	0.23
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	7	0.23
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	17	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	6	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	6	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	6	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	14	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	14	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	14	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	21	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	21	0.23
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	21	0.23
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	11	0.23
(1,37)	1:A:98:ILE:HG13	1:A:98:ILE:HA	18	0.23
(1,1854)	1:A:8:PHE:H	1:A:32:GLN:HB2	8	0.23
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	15	0.23
(1,1747)	1:A:48:GLU:H	1:A:48:GLU:HB2	16	0.23
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	21	0.23
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	8	0.23
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	12	0.23
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	22	0.23
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	13	0.23
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	13	0.23
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	13	0.23
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	13	0.23
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	13	0.23
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	10	0.22
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	3	0.22
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	3	0.22
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	3	0.22
(1,1948)	1:A:102:PHE:H	1:A:80:ASN:HD21	4	0.22
(1,1896)	1:A:102:PHE:H	1:A:102:PHE:HD1	13	0.22
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	6	0.22
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	10	0.22
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	16	0.22
(1,1712)	1:A:28:SER:H	1:A:27:PHE:HB3	13	0.22
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	17	0.22
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	2	0.22
(1,1610)	1:A:82:ASN:H	1:A:42:ASN:HD22	4	0.22
(1,1182)	1:A:57:LEU:HD22	1:A:67:HIS:HB2	14	0.22
(1,1182)	1:A:57:LEU:HD21	1:A:67:HIS:HB2	14	0.22
(1,1182)	1:A:57:LEU:HD23	1:A:67:HIS:HB2	14	0.22
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG21	6	0.22
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG22	6	0.22
(1,1011)	1:A:32:GLN:HG2	1:A:64:THR:HG23	6	0.22
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	19	0.21
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	19	0.21
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	19	0.21
(1,976)	1:A:6:VAL:HG22	1:A:8:PHE:HD1	19	0.21
(1,976)	1:A:6:VAL:HG21	1:A:8:PHE:HD1	19	0.21
(1,976)	1:A:6:VAL:HG23	1:A:8:PHE:HD1	19	0.21
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	2	0.21
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	11	0.21
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	3	0.21
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	4	0.21
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	7	0.21
(1,698)	1:A:103:MET:HB3	1:A:103:MET:HG2	11	0.21
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	4	0.21
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	4	0.21
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	4	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	5	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	5	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	5	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	6	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	6	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	7	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	7	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	7	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	8	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	8	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	8	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	9	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	9	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	9	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	10	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	10	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	10	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	13	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	13	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	13	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	14	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	14	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	14	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	16	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	16	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	16	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	17	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	17	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	17	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	21	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	21	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	21	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	22	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	22	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	22	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	23	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	23	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	23	0.21
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	25	0.21
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	25	0.21
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	25	0.21
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG12	10	0.21
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG11	10	0.21
(1,202)	1:A:38:ARG:HD2	1:A:45:VAL:HG13	10	0.21
(1,1872)	1:A:74:GLN:H	1:A:73:ASN:HB3	17	0.21
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	20	0.21
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	6	0.21
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	8	0.21
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	24	0.21
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	14	0.21
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	21	0.21
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	11	0.2
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	15	0.2
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	17	0.2
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	24	0.2
(1,698)	1:A:103:MET:HB3	1:A:103:MET:HG2	6	0.2
(1,698)	1:A:103:MET:HB3	1:A:103:MET:HG2	17	0.2
(1,623)	1:A:63:GLU:HB3	1:A:63:GLU:HG2	10	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	1	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	1	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	1	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	2	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	2	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	2	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	4	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	4	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	4	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	11	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	11	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	11	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	12	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	12	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	12	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	18	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	18	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	18	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	19	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	19	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	19	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	20	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	20	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	20	0.2
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	24	0.2
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	24	0.2
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	24	0.2
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.2
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	17	0.2
(1,1872)	1:A:74:GLN:H	1:A:73:ASN:HB3	7	0.2
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	11	0.2
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	2	0.2
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	3	0.2
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	9	0.2
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	11	0.2
(1,1616)	1:A:85:LEU:H	1:A:85:LEU:HB2	9	0.2
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	12	0.19
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	6	0.19
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	18	0.19
(1,623)	1:A:63:GLU:HB3	1:A:63:GLU:HG2	3	0.19
(1,419)	1:A:85:LEU:HD12	1:A:85:LEU:HB3	15	0.19
(1,419)	1:A:85:LEU:HD11	1:A:85:LEU:HB3	15	0.19
(1,419)	1:A:85:LEU:HD13	1:A:85:LEU:HB3	15	0.19
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	20	0.19
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	7	0.19
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	5	0.19
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	5	0.19
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	5	0.19
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	2	0.18
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	2	0.18
(1,976)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	2	0.18
(1,976)	1:A:6:VAL:HG22	1:A:8:PHE:HD1	2	0.18
(1,976)	1:A:6:VAL:HG21	1:A:8:PHE:HD1	2	0.18
(1,976)	1:A:6:VAL:HG23	1:A:8:PHE:HD1	2	0.18
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	12	0.18
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	25	0.18
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	20	0.18
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	11	0.18
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	11	0.18
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	11	0.18
(1,623)	1:A:63:GLU:HB3	1:A:63:GLU:HG2	15	0.18
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG22	10	0.18
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG21	10	0.18
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG23	10	0.18
(1,208)	1:A:45:VAL:H	1:A:45:VAL:HG22	16	0.18
(1,208)	1:A:45:VAL:H	1:A:45:VAL:HG21	16	0.18
(1,208)	1:A:45:VAL:H	1:A:45:VAL:HG23	16	0.18
(1,1999)	1:A:102:PHE:H	1:A:103:MET:H	17	0.18
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	15	0.18
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	15	0.18
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	15	0.18
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	2	0.18
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	4	0.18
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	13	0.18
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	14	0.18
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	19	0.18
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG12	11	0.18
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG11	11	0.18
(1,1143)	1:A:8:PHE:HD1	1:A:6:VAL:HG13	11	0.18
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG12	11	0.18
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG11	11	0.18
(1,1143)	1:A:8:PHE:HD2	1:A:6:VAL:HG13	11	0.18
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	15	0.18
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	15	0.18
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	15	0.18
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	20	0.17
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	23	0.17
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	14	0.17
(1,947)	1:A:106:PRO:HB2	1:A:106:PRO:HA	22	0.17
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	23	0.17
(1,623)	1:A:63:GLU:HB3	1:A:63:GLU:HG2	12	0.17
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG22	15	0.17
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG21	15	0.17
(1,392)	1:A:79:ASN:HD21	1:A:78:VAL:HG23	15	0.17
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	1	0.17
(1,1800)	1:A:63:GLU:H	1:A:63:GLU:HB3	18	0.17
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	21	0.17
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	21	0.17
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	21	0.17
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	3	0.17
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	14	0.17
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	17	0.17
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	9	0.17
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	9	0.17
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	9	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	9	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	9	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	9	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	9	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	9	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	20	0.17
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	20	0.17
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	20	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	20	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	20	0.17
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	20	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	20	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	20	0.17
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	20	0.17
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	21	0.17
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	21	0.17
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	21	0.17
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	25	0.17
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	25	0.17
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	25	0.17
(1,997)	1:A:77:HIS:HD2	1:A:78:VAL:HA	9	0.16
(1,997)	1:A:77:HIS:HD2	1:A:78:VAL:HA	10	0.16
(1,997)	1:A:77:HIS:HD2	1:A:78:VAL:HA	12	0.16
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	14	0.16
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	9	0.16
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG22	3	0.16
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG21	3	0.16
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG23	3	0.16
(1,2049)	1:A:102:PHE:H	1:A:102:PHE:HD1	20	0.16
(1,2049)	1:A:102:PHE:H	1:A:102:PHE:HD2	20	0.16
(1,2049)	1:A:102:PHE:H	1:A:102:PHE:HE1	20	0.16
(1,2049)	1:A:102:PHE:H	1:A:102:PHE:HE2	20	0.16
(1,2049)	1:A:102:PHE:H	1:A:102:PHE:HZ	20	0.16
(1,2049)	1:A:102:PHE:H	1:A:103:MET:H	20	0.16
(1,1514)	1:A:92:GLY:H	1:A:91:CYS:HB3	8	0.16
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	10	0.16
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	10	0.16
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	10	0.16
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	10	0.16
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	10	0.16
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	10	0.16
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	10	0.16
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	10	0.16
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	10	0.16
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	19	0.16
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	19	0.16
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	5	0.15
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	25	0.15
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	15	0.15
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	22	0.15
(1,792)	1:A:35:PRO:HG3	1:A:31:GLY:HA2	12	0.15
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	9	0.15
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	9	0.15
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	9	0.15
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	22	0.15
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	22	0.15
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	22	0.15
(1,1785)	1:A:13:GLN:H	1:A:11:SER:HB2	8	0.15
(1,1568)	1:A:74:GLN:H	1:A:74:GLN:HG3	1	0.15
(1,1557)	1:A:100:ALA:H	1:A:99:MET:HG2	10	0.15
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	7	0.15
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	7	0.15
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	7	0.15
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	24	0.15
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	24	0.15
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	24	0.15
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	1	0.15
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	1	0.15
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	1	0.15
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	5	0.15
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	5	0.15
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	5	0.15
(1,1124)	1:A:72:LEU:HD12	1:A:83:TYR:HD1	23	0.15
(1,1124)	1:A:72:LEU:HD11	1:A:83:TYR:HD1	23	0.15
(1,1124)	1:A:72:LEU:HD13	1:A:83:TYR:HD1	23	0.15
(1,1124)	1:A:72:LEU:HD12	1:A:83:TYR:HD2	23	0.15
(1,1124)	1:A:72:LEU:HD11	1:A:83:TYR:HD2	23	0.15
(1,1124)	1:A:72:LEU:HD13	1:A:83:TYR:HD2	23	0.15
(1,997)	1:A:77:HIS:HD2	1:A:78:VAL:HA	16	0.14
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	21	0.14
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	16	0.14
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	20	0.14
(1,342)	1:A:30:ASP:HB3	1:A:65:VAL:HG22	4	0.14
(1,342)	1:A:30:ASP:HB3	1:A:65:VAL:HG21	4	0.14
(1,342)	1:A:30:ASP:HB3	1:A:65:VAL:HG23	4	0.14
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	9	0.14
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	9	0.14
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	19	0.14
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	19	0.14
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	19	0.14
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG22	16	0.14
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG21	16	0.14
(1,205)	1:A:38:ARG:HD2	1:A:45:VAL:HG23	16	0.14
(1,1451)	1:A:79:ASN:HD21	1:A:79:ASN:HA	14	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	11	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	11	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	11	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	11	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	11	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	11	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	11	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	11	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	11	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	25	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	25	0.14
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	25	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	25	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	25	0.14
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	25	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	25	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	25	0.14
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	25	0.14
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	7	0.14
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	7	0.14
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	7	0.14
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	17	0.13
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	13	0.13
(1,791)	1:A:35:PRO:HG2	1:A:31:GLY:HA2	25	0.13
(1,788)	1:A:34:ALA:HB2	1:A:32:GLN:HE21	24	0.13
(1,788)	1:A:34:ALA:HB1	1:A:32:GLN:HE21	24	0.13
(1,788)	1:A:34:ALA:HB3	1:A:32:GLN:HE21	24	0.13
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG12	24	0.13
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG11	24	0.13
(1,651)	1:A:6:VAL:H	1:A:6:VAL:HG13	24	0.13
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG22	23	0.13
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG21	23	0.13
(1,569)	1:A:20:MET:HG2	1:A:18:VAL:HG23	23	0.13
(1,531)	1:A:40:LEU:HD12	1:A:40:LEU:HB2	18	0.13
(1,531)	1:A:40:LEU:HD11	1:A:40:LEU:HB2	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:A:40:LEU:HD13	1:A:40:LEU:HB2	18	0.13
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	2	0.13
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	2	0.13
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	2	0.13
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	15	0.13
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	15	0.13
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	15	0.13
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	17	0.13
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	17	0.13
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	17	0.13
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	21	0.13
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	21	0.13
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	21	0.13
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	25	0.13
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	25	0.13
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	25	0.13
(1,1999)	1:A:102:PHE:H	1:A:103:MET:H	4	0.13
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	6	0.13
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	6	0.13
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	6	0.13
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	8	0.13
(1,1669)	1:A:105:ASN:H	1:A:105:ASN:HB2	20	0.13
(1,164)	1:A:66:ARG:HB2	1:A:66:ARG:HD2	25	0.13
(1,1451)	1:A:79:ASN:HD21	1:A:79:ASN:HA	21	0.13
(1,1285)	1:A:83:TYR:HE1	1:A:100:ALA:HB2	24	0.13
(1,1285)	1:A:83:TYR:HE1	1:A:100:ALA:HB1	24	0.13
(1,1285)	1:A:83:TYR:HE1	1:A:100:ALA:HB3	24	0.13
(1,1285)	1:A:83:TYR:HE2	1:A:100:ALA:HB2	24	0.13
(1,1285)	1:A:83:TYR:HE2	1:A:100:ALA:HB1	24	0.13
(1,1285)	1:A:83:TYR:HE2	1:A:100:ALA:HB3	24	0.13
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	10	0.13
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	10	0.13
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	10	0.13
(1,125)	1:A:10:ALA:HB2	1:A:31:GLY:HA2	11	0.13
(1,125)	1:A:10:ALA:HB1	1:A:31:GLY:HA2	11	0.13
(1,125)	1:A:10:ALA:HB3	1:A:31:GLY:HA2	11	0.13
(1,1212)	1:A:29:VAL:HG22	1:A:66:ARG:HD2	3	0.13
(1,1212)	1:A:29:VAL:HG21	1:A:66:ARG:HD2	3	0.13
(1,1212)	1:A:29:VAL:HG23	1:A:66:ARG:HD2	3	0.13
(1,1210)	1:A:29:VAL:HG22	1:A:66:ARG:HE	21	0.13
(1,1210)	1:A:29:VAL:HG21	1:A:66:ARG:HE	21	0.13
(1,1210)	1:A:29:VAL:HG23	1:A:66:ARG:HE	21	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	14	0.12
(1,958)	1:A:106:PRO:HD2	1:A:105:ASN:HA	15	0.12
(1,941)	1:A:106:PRO:HB2	1:A:107:PHE:HB3	12	0.12
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	23	0.12
(1,531)	1:A:40:LEU:HD12	1:A:40:LEU:HB2	15	0.12
(1,531)	1:A:40:LEU:HD11	1:A:40:LEU:HB2	15	0.12
(1,531)	1:A:40:LEU:HD13	1:A:40:LEU:HB2	15	0.12
(1,525)	1:A:45:VAL:HG22	1:A:47:ASN:HA	1	0.12
(1,525)	1:A:45:VAL:HG21	1:A:47:ASN:HA	1	0.12
(1,525)	1:A:45:VAL:HG23	1:A:47:ASN:HA	1	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	11	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	11	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	11	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	11	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	11	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	11	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	11	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	11	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	11	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	20	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	20	0.12
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	20	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	20	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	20	0.12
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	20	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	20	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	20	0.12
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	20	0.12
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	25	0.12
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	25	0.12
(1,377)	1:A:52:ILE:HG22	1:A:72:LEU:HG	25	0.12
(1,315)	1:A:86:LEU:HD12	1:A:93:GLN:HE21	9	0.12
(1,315)	1:A:86:LEU:HD11	1:A:93:GLN:HE21	9	0.12
(1,315)	1:A:86:LEU:HD13	1:A:93:GLN:HE21	9	0.12
(1,305)	1:A:58:GLU:H	1:A:58:GLU:HG2	15	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	1	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	1	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	1	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	3	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	3	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	3	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	5	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	5	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	7	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	7	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	7	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	10	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	10	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	10	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	12	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	12	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	12	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	13	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	13	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	13	0.12
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	20	0.12
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	20	0.12
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	20	0.12
(1,1805)	1:A:64:THR:H	1:A:63:GLU:HB2	23	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	8	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	8	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	8	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD22	18	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD21	18	0.12
(1,180)	1:A:27:PHE:HB3	1:A:14:LEU:HD23	18	0.12
(1,1799)	1:A:63:GLU:H	1:A:63:GLU:HG2	18	0.12
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	9	0.12
(1,1670)	1:A:6:VAL:H	1:A:7:SER:HB2	10	0.12
(1,157)	1:A:66:ARG:HB2	1:A:66:ARG:HE	23	0.12
(1,1289)	1:A:57:LEU:HD12	1:A:58:GLU:HB2	12	0.12
(1,1289)	1:A:57:LEU:HD11	1:A:58:GLU:HB2	12	0.12
(1,1289)	1:A:57:LEU:HD13	1:A:58:GLU:HB2	12	0.12
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	7	0.12
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	7	0.12
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	7	0.12
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	7	0.12
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	7	0.12
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	7	0.12
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	7	0.12
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	7	0.12
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	7	0.12
(1,1141)	1:A:98:ILE:HD12	1:A:83:TYR:HB2	17	0.12
(1,1141)	1:A:98:ILE:HD11	1:A:83:TYR:HB2	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1141)	1:A:98:ILE:HD13	1:A:83:TYR:HB2	17	0.12
(1,891)	1:A:83:TYR:HA	1:A:82:ASN:HB2	25	0.11
(1,619)	1:A:37:LEU:HD12	1:A:56:PHE:HE1	3	0.11
(1,619)	1:A:37:LEU:HD11	1:A:56:PHE:HE1	3	0.11
(1,619)	1:A:37:LEU:HD13	1:A:56:PHE:HE1	3	0.11
(1,619)	1:A:37:LEU:HD12	1:A:56:PHE:HE2	3	0.11
(1,619)	1:A:37:LEU:HD11	1:A:56:PHE:HE2	3	0.11
(1,619)	1:A:37:LEU:HD13	1:A:56:PHE:HE2	3	0.11
(1,525)	1:A:45:VAL:HG22	1:A:47:ASN:HA	4	0.11
(1,525)	1:A:45:VAL:HG21	1:A:47:ASN:HA	4	0.11
(1,525)	1:A:45:VAL:HG23	1:A:47:ASN:HA	4	0.11
(1,525)	1:A:45:VAL:HG22	1:A:47:ASN:HA	8	0.11
(1,525)	1:A:45:VAL:HG21	1:A:47:ASN:HA	8	0.11
(1,525)	1:A:45:VAL:HG23	1:A:47:ASN:HA	8	0.11
(1,522)	1:A:45:VAL:HG12	1:A:39:TRP:H	16	0.11
(1,522)	1:A:45:VAL:HG11	1:A:39:TRP:H	16	0.11
(1,522)	1:A:45:VAL:HG13	1:A:39:TRP:H	16	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD22	2	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD21	2	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD23	2	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD22	17	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD21	17	0.11
(1,430)	1:A:85:LEU:HB2	1:A:85:LEU:HD23	17	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	5	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	5	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	5	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	5	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	5	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	5	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	5	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	5	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	5	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	6	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	6	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	6	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	6	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	6	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	6	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	6	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	6	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	6	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	12	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	12	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	12	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	12	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	12	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	12	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	12	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	12	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	13	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	13	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	13	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	13	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	13	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	13	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	13	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	13	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	13	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	15	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	15	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	15	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	15	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	15	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	15	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	15	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	15	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	15	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	19	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	19	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	19	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	19	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	19	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	19	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	19	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	19	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	19	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD12	24	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD11	24	0.11
(1,420)	1:A:85:LEU:HD12	1:A:14:LEU:HD13	24	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD12	24	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD11	24	0.11
(1,420)	1:A:85:LEU:HD11	1:A:14:LEU:HD13	24	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD12	24	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD11	24	0.11
(1,420)	1:A:85:LEU:HD13	1:A:14:LEU:HD13	24	0.11
(1,407)	1:A:86:LEU:HD22	1:A:38:ARG:HD2	7	0.11
(1,407)	1:A:86:LEU:HD21	1:A:38:ARG:HD2	7	0.11
(1,407)	1:A:86:LEU:HD23	1:A:38:ARG:HD2	7	0.11
(1,265)	1:A:75:PRO:HA	1:A:72:LEU:HB2	2	0.11
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	4	0.11
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	4	0.11
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	4	0.11
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	11	0.11
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	11	0.11
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	11	0.11
(1,206)	1:A:45:VAL:HG12	1:A:44:SER:HA	14	0.11
(1,206)	1:A:45:VAL:HG11	1:A:44:SER:HA	14	0.11
(1,206)	1:A:45:VAL:HG13	1:A:44:SER:HA	14	0.11
(1,1896)	1:A:102:PHE:H	1:A:102:PHE:HD1	1	0.11
(1,1451)	1:A:79:ASN:HD21	1:A:79:ASN:HA	18	0.11
(1,1451)	1:A:79:ASN:HD21	1:A:79:ASN:HA	25	0.11
(1,14)	1:A:57:LEU:HD22	1:A:68:GLY:HA3	4	0.11
(1,14)	1:A:57:LEU:HD21	1:A:68:GLY:HA3	4	0.11
(1,14)	1:A:57:LEU:HD23	1:A:68:GLY:HA3	4	0.11
(1,1331)	1:A:37:LEU:HD22	1:A:29:VAL:HB	11	0.11
(1,1331)	1:A:37:LEU:HD21	1:A:29:VAL:HB	11	0.11
(1,1331)	1:A:37:LEU:HD23	1:A:29:VAL:HB	11	0.11
(1,1276)	1:A:99:MET:HE2	1:A:82:ASN:HA	10	0.11
(1,1276)	1:A:99:MET:HE1	1:A:82:ASN:HA	10	0.11
(1,1276)	1:A:99:MET:HE3	1:A:82:ASN:HA	10	0.11
(1,1258)	1:A:10:ALA:HB2	1:A:12:VAL:HG11	4	0.11
(1,1258)	1:A:10:ALA:HB1	1:A:12:VAL:HG11	4	0.11
(1,1258)	1:A:10:ALA:HB3	1:A:12:VAL:HG11	4	0.11
(1,1258)	1:A:10:ALA:HB1	1:A:12:VAL:HG12	4	0.11
(1,1258)	1:A:10:ALA:HB3	1:A:12:VAL:HG12	4	0.11
(1,1258)	1:A:10:ALA:HB2	1:A:12:VAL:HG12	4	0.11
(1,1258)	1:A:10:ALA:HB1	1:A:12:VAL:HG13	4	0.11
(1,1258)	1:A:10:ALA:HB3	1:A:12:VAL:HG13	4	0.11
(1,1258)	1:A:10:ALA:HB2	1:A:12:VAL:HG13	4	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	2	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	2	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	2	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	2	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	2	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	2	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	2	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	2	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	4	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	4	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	4	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	4	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	4	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	4	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	4	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	4	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	4	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	6	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	6	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	6	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	6	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	6	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	6	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	6	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	6	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	6	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB2	17	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB1	17	0.11
(1,1247)	1:A:12:VAL:HG12	1:A:94:ALA:HB3	17	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB2	17	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB1	17	0.11
(1,1247)	1:A:12:VAL:HG11	1:A:94:ALA:HB3	17	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB2	17	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB1	17	0.11
(1,1247)	1:A:12:VAL:HG13	1:A:94:ALA:HB3	17	0.11
(1,1240)	1:A:37:LEU:HD22	1:A:66:ARG:HE	16	0.11
(1,1240)	1:A:37:LEU:HD21	1:A:66:ARG:HE	16	0.11
(1,1240)	1:A:37:LEU:HD23	1:A:66:ARG:HE	16	0.11
(1,1178)	1:A:53:PHE:HD1	1:A:55:GLU:HB3	12	0.11
(1,1178)	1:A:53:PHE:HD2	1:A:55:GLU:HB3	12	0.11
(1,1159)	1:A:14:LEU:HD22	1:A:27:PHE:HB2	10	0.11
(1,1159)	1:A:14:LEU:HD21	1:A:27:PHE:HB2	10	0.11
(1,1159)	1:A:14:LEU:HD23	1:A:27:PHE:HB2	10	0.11
(1,1078)	1:A:78:VAL:HG12	1:A:77:HIS:HD2	10	0.11
(1,1078)	1:A:78:VAL:HG11	1:A:77:HIS:HD2	10	0.11
(1,1078)	1:A:78:VAL:HG13	1:A:77:HIS:HD2	10	0.11
(1,1078)	1:A:78:VAL:HG12	1:A:77:HIS:HD2	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1078)	1:A:78:VAL:HG11	1:A:77:HIS:HD2	11	0.11
(1,1078)	1:A:78:VAL:HG13	1:A:77:HIS:HD2	11	0.11

10 Dihedral-angle violation analysis

No dihedral-angle restraints found