



Full wwPDB NMR Structure Validation Report ⓘ

Feb 4, 2026 – 07:28 PM JST

PDB ID : 9X72 / pdb_00009x72
BMRB ID : 36798
Title : closed-form Hsp90a T36E N-terminal domain
Authors : Wan, C.J.
Deposited on : 2025-10-16

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.47

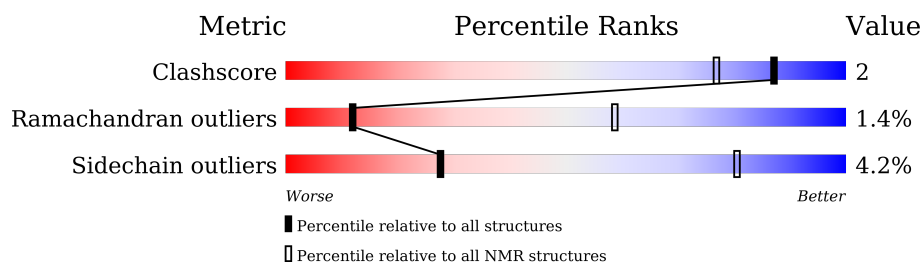
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 15%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	237	 73% . 12% 13%

2 Ensemble composition and analysis

This entry contains 10 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:16-A:107, A:137-A:222 (178)	1.92	2

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

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

The models can be grouped into 2 clusters and 1 single-model cluster was found.

Cluster number	Models
1	1, 2, 4, 7, 9, 10
2	3, 6, 8
Single-model clusters	5

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3260 atoms, of which 1632 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Heat shock protein HSP 90-alpha.

Mol	Chain	Residues	Atoms						Trace
1	A	207	Total	C	H	N	O	S	0
			3260	1034	1632	268	321	5	

There is a discrepancy between the modelled and reference sequences:

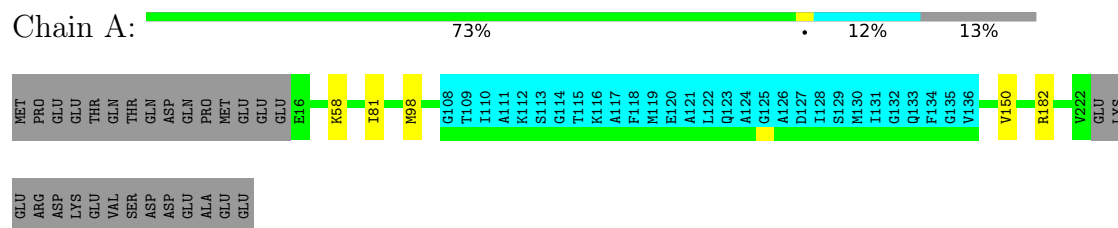
Chain	Residue	Modelled	Actual	Comment	Reference
A	36	GLU	THR	engineered mutation	UNP P07900

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: Heat shock protein HSP 90-alpha

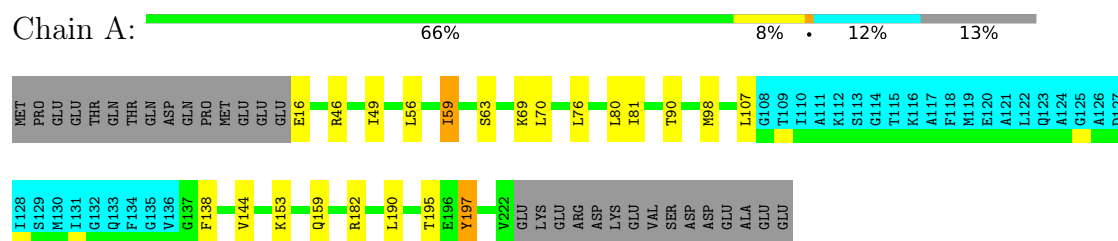


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

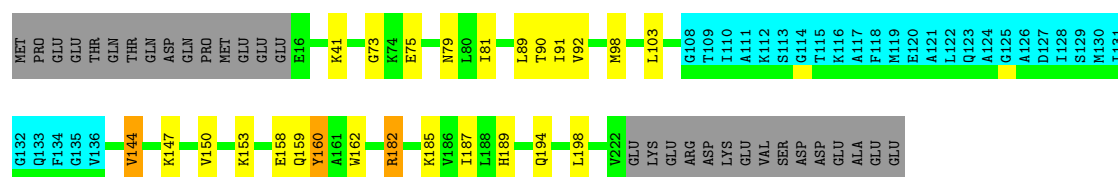
- Molecule 1: Heat shock protein HSP 90-alpha



4.2.2 Score per residue for model 2 (medoid)

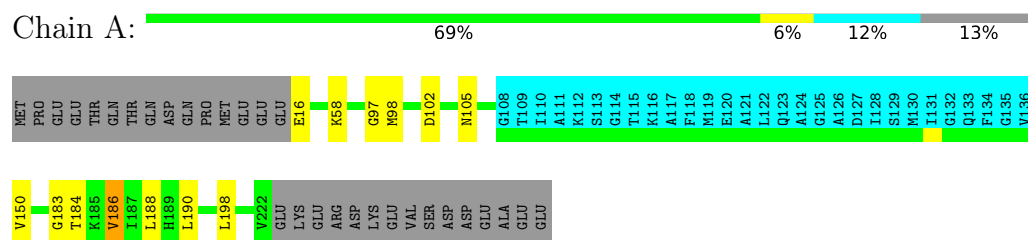
- Molecule 1: Heat shock protein HSP 90-alpha





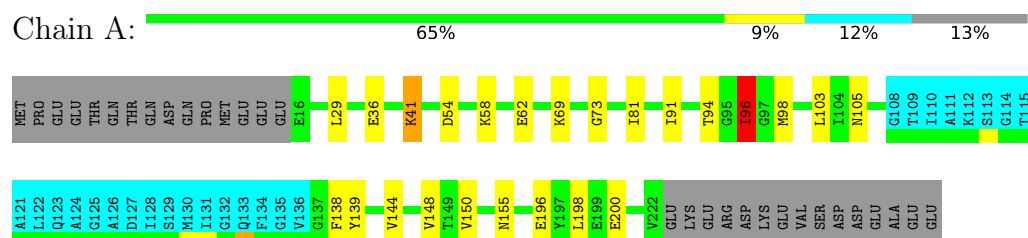
4.2.3 Score per residue for model 3

- Molecule 1: Heat shock protein HSP 90-alpha



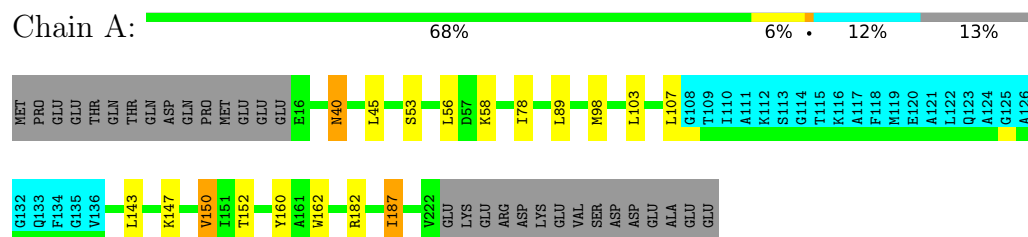
4.2.4 Score per residue for model 4

- Molecule 1: Heat shock protein HSP 90-alpha



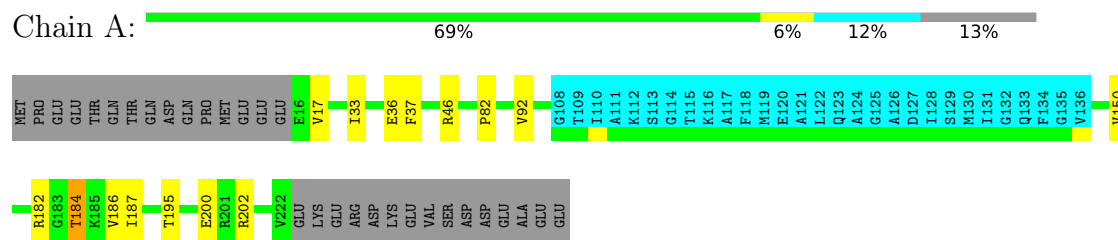
4.2.5 Score per residue for model 5

- Molecule 1: Heat shock protein HSP 90-alpha



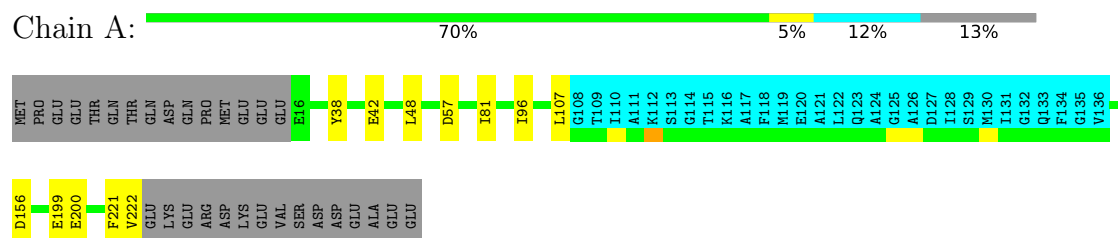
4.2.6 Score per residue for model 6

- Molecule 1: Heat shock protein HSP 90-alpha



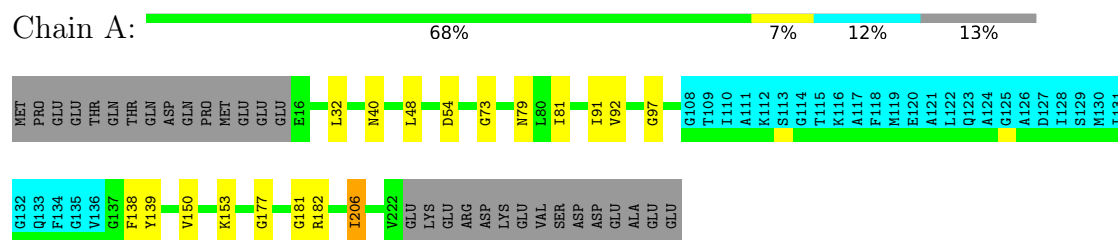
4.2.7 Score per residue for model 7

- Molecule 1: Heat shock protein HSP 90-alpha



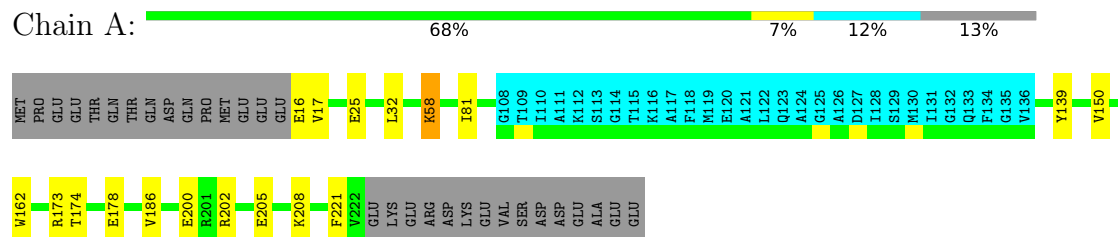
4.2.8 Score per residue for model 8

- Molecule 1: Heat shock protein HSP 90-alpha



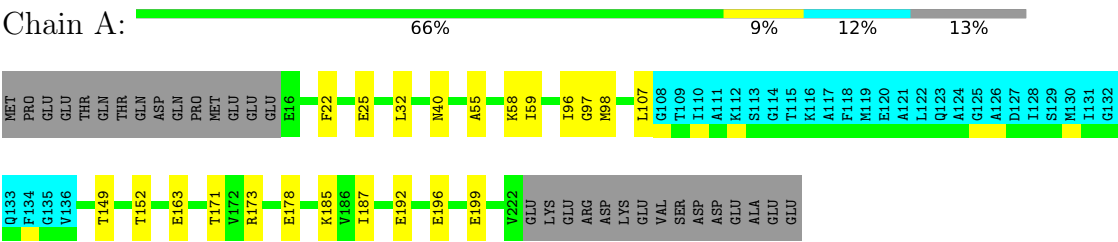
4.2.9 Score per residue for model 9

- Molecule 1: Heat shock protein HSP 90-alpha



4.2.10 Score per residue for model 10

- Molecule 1: Heat shock protein HSP 90-alpha



5 Refinement protocol and experimental data overview

The models were refined using the following method: *DGSA-distance geometry simulated annealing*.

Of the 200 calculated structures, 10 were deposited, based on the following criterion: *back calculated data agree with experimental NOESY spectrum*.

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

Software name	Classification	Version
CYANA	refinement	
X-PLOR NIH	structure calculation	

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	440
Number of shifts mapped to atoms	440
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	15%

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	1.24±0.03	1±1/1451 (0.1± 0.1%)	0.93±0.02	0±0/1959 (0.0± 0.0%)
All	All	1.24	14/14510 (0.1%)	0.93	1/19590 (0.0%)

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	81	ILE	CA-CB	7.22	1.59	1.54	8	2
1	A	187	ILE	CA-CB	5.70	1.60	1.53	5	3
1	A	150	VAL	CA-CB	5.56	1.61	1.54	5	2
1	A	59	ILE	CA-CB	5.53	1.60	1.54	1	1
1	A	49	ILE	CA-CB	5.45	1.61	1.54	1	1
1	A	206	ILE	CA-CB	5.32	1.61	1.54	8	1
1	A	186	VAL	CA-CB	5.21	1.59	1.53	6	2
1	A	91	ILE	CA-CB	5.07	1.59	1.53	4	1
1	A	148	VAL	CA-CB	5.01	1.60	1.53	4	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	183	GLY	N-CA-C	5.05	117.81	111.09	3	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1427	1427	1422	6±3
All	All	14270	14270	14220	55

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:58:LYS:HE3	1:A:98:MET:SD	0.68	2.28	3	1
1:A:96:ILE:HD12	1:A:98:MET:SD	0.67	2.29	4	1
1:A:79:ASN:HB2	1:A:92:VAL:HG13	0.60	1.73	2	2
1:A:16:GLU:N	1:A:174:THR:HG1	0.57	1.96	9	1
1:A:185:LYS:HE3	1:A:187:ILE:HD11	0.56	1.77	10	1
1:A:53:SER:HA	1:A:56:LEU:HB3	0.55	1.78	5	1
1:A:58:LYS:NZ	1:A:98:MET:SD	0.54	2.81	5	1
1:A:48:LEU:HD11	1:A:91:ILE:HG13	0.54	1.80	8	1
1:A:144:VAL:HG22	1:A:194:GLN:HG2	0.54	1.78	2	1
1:A:41:LYS:HB2	1:A:144:VAL:HG23	0.53	1.80	2	1
1:A:75:GLU:HB2	1:A:182:ARG:HH22	0.52	1.65	2	1
1:A:55:ALA:HA	1:A:58:LYS:HE2	0.52	1.82	10	1
1:A:200:GLU:HG2	1:A:222:VAL:HG11	0.51	1.82	7	1
1:A:22:PHE:HB3	1:A:25:GLU:HB3	0.51	1.83	10	1
1:A:163:GLU:HB2	1:A:171:THR:HB	0.50	1.84	10	1
1:A:153:LYS:HG3	1:A:182:ARG:HA	0.50	1.83	1	1
1:A:59:ILE:HG23	1:A:69:LYS:HD3	0.49	1.84	1	1
1:A:33:ILE:HD12	1:A:37:PHE:HB3	0.49	1.82	6	1
1:A:102:ASP:HA	1:A:105:ASN:ND2	0.49	2.22	3	1
1:A:98:MET:N	1:A:98:MET:SD	0.49	2.85	2	1
1:A:98:MET:SD	1:A:107:LEU:HD23	0.49	2.48	1	1
1:A:41:LYS:HB2	1:A:144:VAL:HG12	0.48	1.86	4	1
1:A:145:ALA:HA	1:A:190:LEU:HA	0.47	1.85	3	1
1:A:40:ASN:HA	1:A:143:LEU:HD21	0.47	1.84	5	1
1:A:147:LYS:HB3	1:A:189:HIS:HB3	0.47	1.87	2	1
1:A:69:LYS:HA	1:A:155:ASN:HD22	0.47	1.68	4	1
1:A:196:GLU:HA	1:A:199:GLU:HG3	0.46	1.87	10	1
1:A:152:THR:HB	1:A:160:TYR:CE2	0.45	2.47	5	1
1:A:205:GLU:HA	1:A:208:LYS:HE2	0.45	1.88	9	1
1:A:153:LYS:HG2	1:A:159:GLN:HB3	0.44	1.89	2	1
1:A:98:MET:HG2	1:A:152:THR:HG21	0.44	1.89	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:160:TYR:CE1	1:A:162:TRP:HB2	0.44	2.48	2	1
1:A:190:LEU:HD11	1:A:198:LEU:HG	0.43	1.90	3	1
1:A:54:ASP:O	1:A:58:LYS:HG2	0.43	2.13	4	1
1:A:182:ARG:HD3	1:A:182:ARG:N	0.43	2.28	2	1
1:A:59:ILE:HG12	1:A:96:ILE:HG23	0.43	1.91	10	1
1:A:91:ILE:O	1:A:185:LYS:HA	0.43	2.14	2	1
1:A:82:PRO:HG2	1:A:200:GLU:HG3	0.42	1.90	6	1
1:A:92:VAL:HA	1:A:184:THR:O	0.42	2.14	6	1
1:A:160:TYR:HE1	1:A:162:TRP:HB2	0.42	1.75	5	1
1:A:56:LEU:HD11	1:A:76:LEU:HG	0.42	1.91	1	1
1:A:81:ILE:HG23	1:A:90:THR:HB	0.42	1.91	2	2
1:A:142:TYR:HA	1:A:145:ALA:HB3	0.41	1.91	3	1
1:A:81:ILE:HG12	1:A:221:PHE:HB2	0.41	1.91	9	1
1:A:63:SER:HB3	1:A:69:LYS:HG2	0.41	1.93	1	1
1:A:103:LEU:HD11	1:A:160:TYR:CZ	0.41	2.50	2	1
1:A:97:GLY:HA2	1:A:184:THR:OG1	0.41	2.16	3	1
1:A:149:THR:OG1	1:A:187:ILE:HB	0.41	2.16	10	1
1:A:144:VAL:HG13	1:A:197:TYR:CE2	0.41	2.51	1	1
1:A:17:VAL:HG22	1:A:173:ARG:HG3	0.41	1.92	9	1
1:A:202:ARG:HH21	1:A:205:GLU:HG2	0.41	1.75	9	1
1:A:96:ILE:H	1:A:96:ILE:HD12	0.40	1.76	7	1
1:A:81:ILE:HA	1:A:221:PHE:O	0.40	2.16	7	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	176/237 (74%)	161±2 (92±1%)	12±3 (7±2%)	2±2 (1±1%)	12	59
All	All	1760/2370 (74%)	1614 (92%)	122 (7%)	24 (1%)	12	59

All 15 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	138	PHE	3
1	A	73	GLY	3
1	A	139	TYR	3
1	A	107	LEU	3
1	A	97	GLY	2
1	A	195	THR	1
1	A	96	ILE	1
1	A	105	ASN	1
1	A	40	ASN	1
1	A	17	VAL	1
1	A	36	GLU	1
1	A	38	TYR	1
1	A	156	ASP	1
1	A	177	GLY	1
1	A	181	GLY	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	159/207 (77%)	152±2 (96±1%)	7±2 (4±1%)	27	80
All	All	1590/2070 (77%)	1524 (96%)	66 (4%)	27	80

All 47 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	150	VAL	6
1	A	182	ARG	4
1	A	32	LEU	3
1	A	16	GLU	2
1	A	46	ARG	2
1	A	89	LEU	2
1	A	198	LEU	2
1	A	186	VAL	2
1	A	103	LEU	2
1	A	200	GLU	2
1	A	40	ASN	2

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Mol	Chain	Res	Type	Models (Total)
1	A	178	GLU	2
1	A	70	LEU	1
1	A	80	LEU	1
1	A	159	GLN	1
1	A	190	LEU	1
1	A	197	TYR	1
1	A	144	VAL	1
1	A	158	GLU	1
1	A	160	TYR	1
1	A	188	LEU	1
1	A	29	LEU	1
1	A	36	GLU	1
1	A	41	LYS	1
1	A	62	GLU	1
1	A	94	THR	1
1	A	96	ILE	1
1	A	196	GLU	1
1	A	45	LEU	1
1	A	78	ILE	1
1	A	147	LYS	1
1	A	187	ILE	1
1	A	184	THR	1
1	A	195	THR	1
1	A	202	ARG	1
1	A	42	GLU	1
1	A	48	LEU	1
1	A	57	ASP	1
1	A	199	GLU	1
1	A	54	ASP	1
1	A	153	LYS	1
1	A	206	ILE	1
1	A	25	GLU	1
1	A	58	LYS	1
1	A	162	TRP	1
1	A	173	ARG	1
1	A	192	GLU	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 15% for the well-defined parts and 16% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: *starch_output*

7.1.1 Bookkeeping

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

Total number of shifts	440
Number of shifts mapped to atoms	440
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	10

7.1.2 Chemical shift referencing

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 15%, i.e. 376 atoms were assigned a chemical shift out of a possible 2470. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/892 (0%)	0/362 (0%)	0/356 (0%)	0/174 (0%)
Sidechain	376/1391 (27%)	282/902 (31%)	94/441 (21%)	0/48 (0%)
Aromatic	0/187 (0%)	0/90 (0%)	0/88 (0%)	0/9 (0%)
Overall	376/2470 (15%)	282/1354 (21%)	94/885 (11%)	0/231 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 16%, i.e. 440 atoms were assigned a chemical shift out of a possible 2823. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/1042 (0%)	0/425 (0%)	0/414 (0%)	0/203 (0%)
Sidechain	440/1574 (28%)	330/1024 (32%)	110/498 (22%)	0/52 (0%)
Aromatic	0/207 (0%)	0/100 (0%)	0/98 (0%)	0/9 (0%)
Overall	440/2823 (16%)	330/1549 (21%)	110/1010 (11%)	0/264 (0%)

7.1.4 Statistically unusual chemical shifts [i](#)

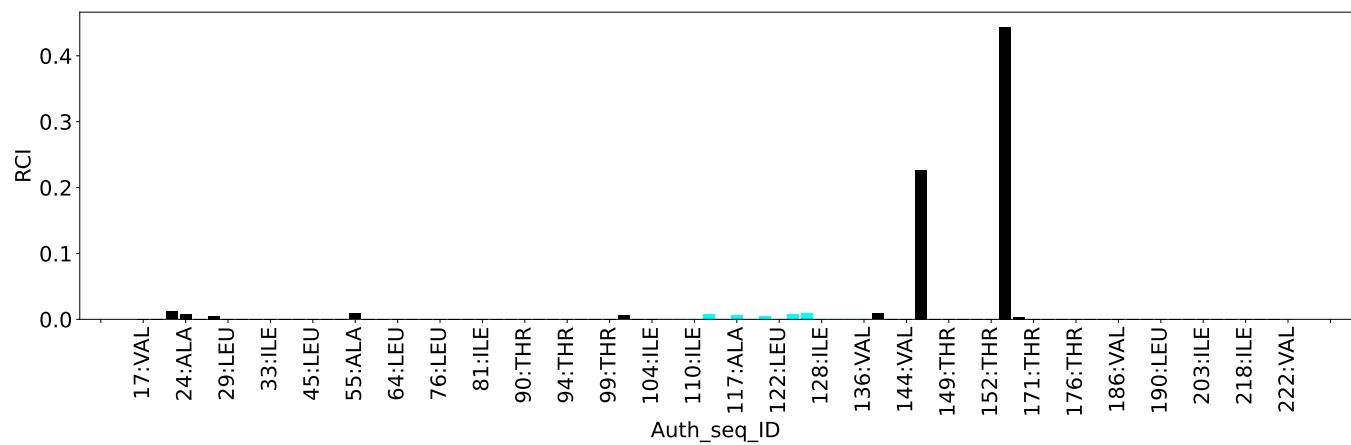
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	107	LEU	HD11	-0.96	-0.61 – 2.12	-6.3
1	A	107	LEU	HD12	-0.96	-0.61 – 2.12	-6.3
1	A	107	LEU	HD13	-0.96	-0.61 – 2.12	-6.3
1	A	144	VAL	CG2	12.69	13.71 – 28.88	-5.7
1	A	144	VAL	HG21	-0.71	-0.58 – 2.19	-5.5
1	A	144	VAL	HG22	-0.71	-0.58 – 2.19	-5.5
1	A	144	VAL	HG23	-0.71	-0.58 – 2.19	-5.5
1	A	107	LEU	HD21	-0.73	-0.65 – 2.13	-5.3
1	A	107	LEU	HD22	-0.73	-0.65 – 2.13	-5.3
1	A	107	LEU	HD23	-0.73	-0.65 – 2.13	-5.3

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	1830
Intra-residue ($ i-j =0$)	283
Sequential ($ i-j =1$)	440
Medium range ($ i-j >1$ and $ i-j <5$)	551
Long range ($ i-j \geq 5$)	556
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	315
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue ¹	2.3

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)	50.2	0.2
0.2-0.5 (Medium)	6.6	0.29
>0.5 (Large)	None	None

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	20.2	4.96
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

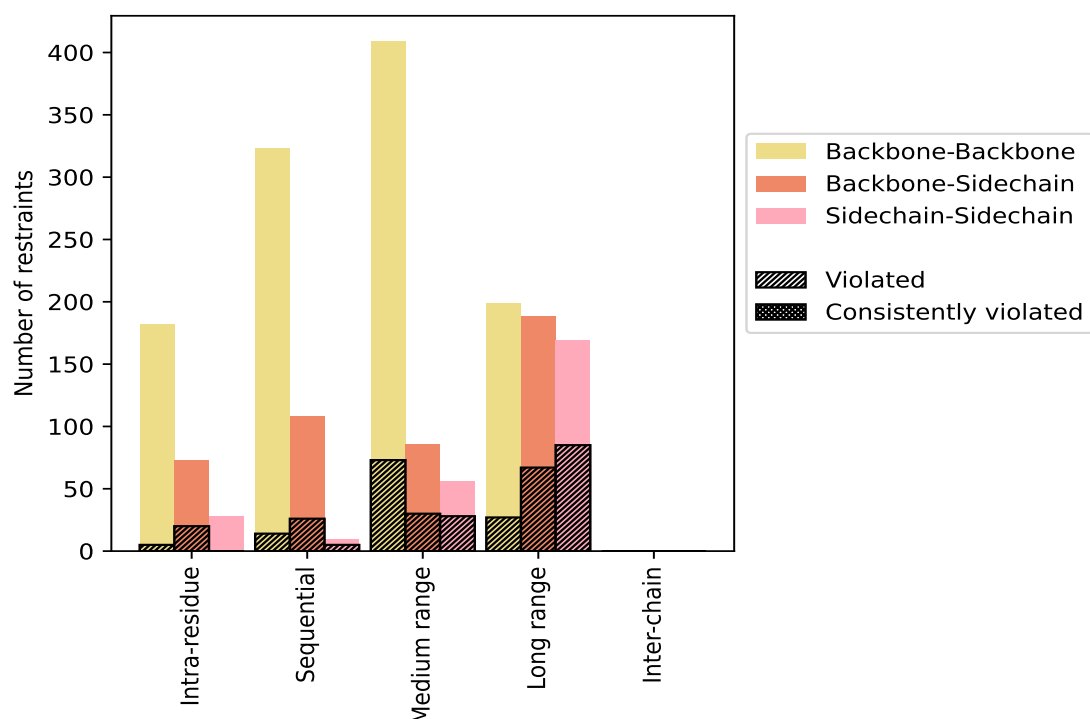
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	283	15.5	25	8.8	1.4	0	0.0	0.0
Backbone-Backbone	182	9.9	5	2.7	0.3	0	0.0	0.0
Backbone-Sidechain	73	4.0	20	27.4	1.1	0	0.0	0.0
Sidechain-Sidechain	28	1.5	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	440	24.0	45	10.2	2.5	0	0.0	0.0
Backbone-Backbone	323	17.7	14	4.3	0.8	0	0.0	0.0
Backbone-Sidechain	108	5.9	26	24.1	1.4	0	0.0	0.0
Sidechain-Sidechain	9	0.5	5	55.6	0.3	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	551	30.1	131	23.8	7.2	0	0.0	0.0
Backbone-Backbone	409	22.3	73	17.8	4.0	0	0.0	0.0
Backbone-Sidechain	86	4.7	30	34.9	1.6	0	0.0	0.0
Sidechain-Sidechain	56	3.1	28	50.0	1.5	0	0.0	0.0
Long range (i-j ≥5)	556	30.4	179	32.2	9.8	0	0.0	0.0
Backbone-Backbone	199	10.9	27	13.6	1.5	0	0.0	0.0
Backbone-Sidechain	188	10.3	67	35.6	3.7	0	0.0	0.0
Sidechain-Sidechain	169	9.2	85	50.3	4.6	0	0.0	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	1830	100.0	380	20.8	20.8	0	0.0	0.0
Backbone-Backbone	1113	60.8	119	10.7	6.5	0	0.0	0.0
Backbone-Sidechain	455	24.9	143	31.4	7.8	0	0.0	0.0
Sidechain-Sidechain	262	14.3	118	45.0	6.4	0	0.0	0.0

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

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



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

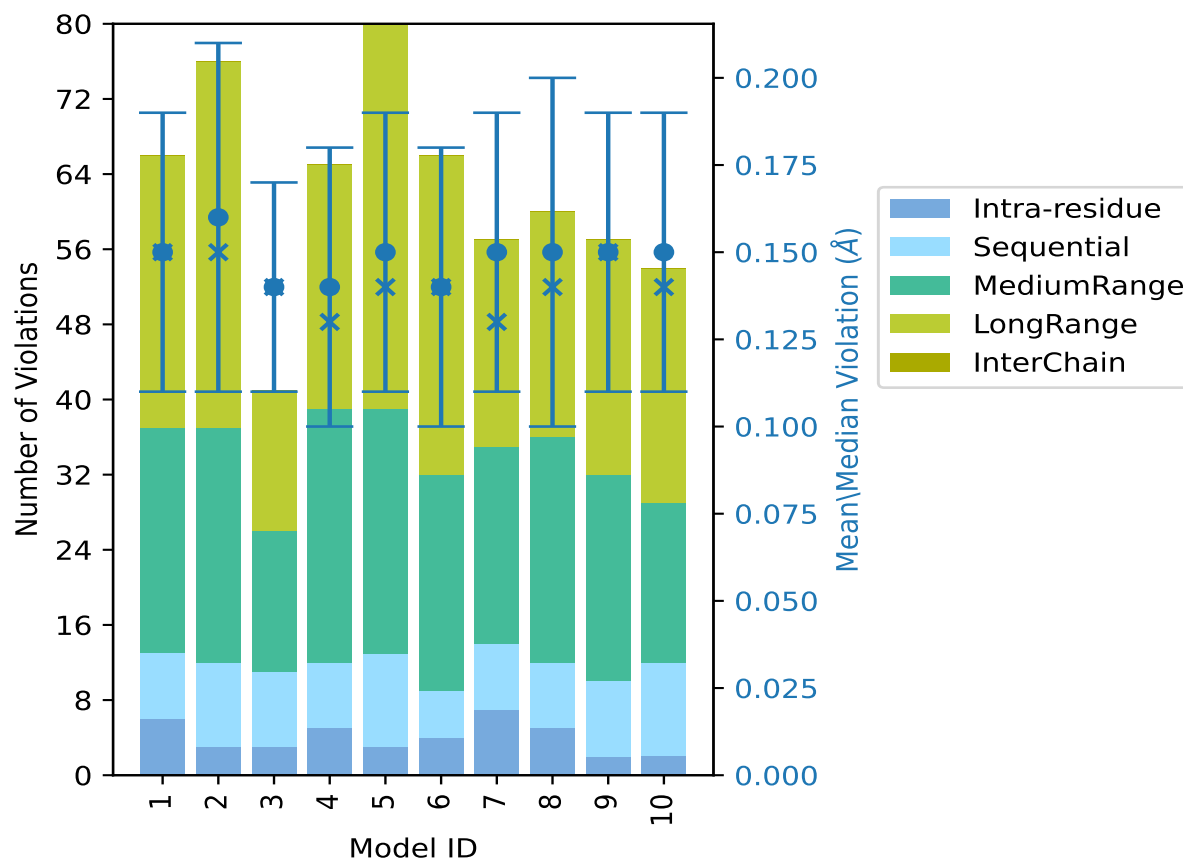
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	6	7	24	29	0	66	0.15	0.25	0.04	0.15
2	3	9	25	39	0	76	0.16	0.29	0.05	0.15
3	3	8	15	15	0	41	0.14	0.23	0.03	0.14
4	5	7	27	26	0	65	0.14	0.24	0.04	0.13
5	3	10	26	41	0	80	0.15	0.27	0.04	0.14
6	4	5	23	34	0	66	0.14	0.25	0.04	0.14
7	7	7	21	22	0	57	0.15	0.28	0.04	0.13
8	5	7	24	24	0	60	0.15	0.27	0.05	0.14
9	2	8	22	25	0	57	0.15	0.28	0.04	0.15
10	2	10	17	25	0	54	0.15	0.29	0.04	0.14

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, 1450(IR:258, SQ:395, MR:420, LR:377, 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	%
15	28	75	107	0	225	1	10.0
8	9	33	50	0	100	2	20.0
1	3	13	17	0	34	3	30.0

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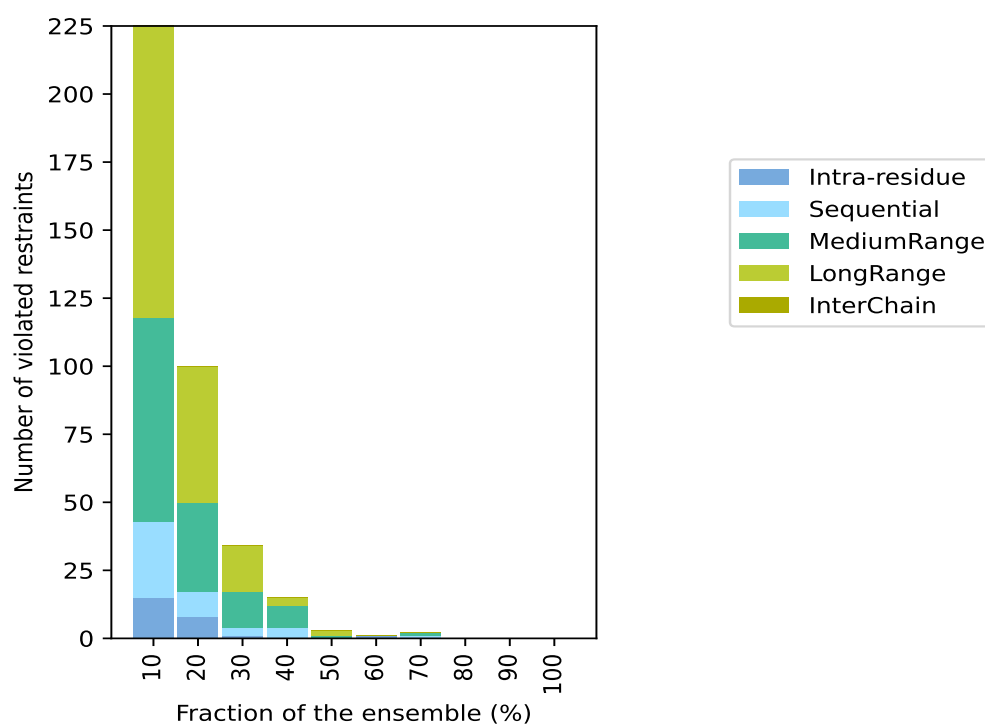
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	4	8	3	0	15	4	40.0
0	0	1	2	0	3	5	50.0
1	0	0	0	0	1	6	60.0
0	1	1	0	0	2	7	70.0
0	0	0	0	0	0	8	80.0
0	0	0	0	0	0	9	90.0
0	0	0	0	0	0	10	100.0

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 ⓘ

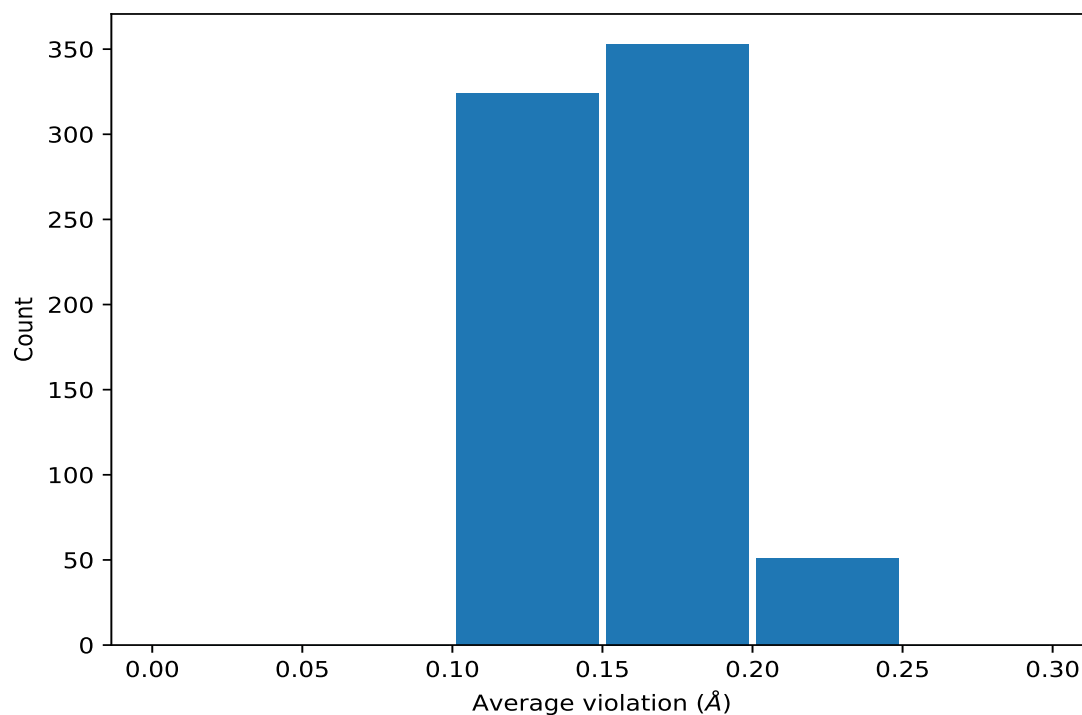


9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

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)
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	7	0.15	0.02	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	7	0.13	0.02	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	7	0.13	0.02	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	7	0.13	0.02	0.13
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	6	0.19	0.03	0.18
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	6	0.19	0.03	0.18
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	6	0.19	0.03	0.18
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	5	0.18	0.04	0.18
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	5	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	5	0.18	0.04	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	5	0.17	0.05	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	5	0.17	0.05	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	5	0.17	0.05	0.18
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	5	0.14	0.01	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	5	0.14	0.01	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD21	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD22	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD23	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD21	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD22	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD23	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD21	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD22	4	0.18	0.05	0.18
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD23	4	0.18	0.05	0.18
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB1	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB2	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB3	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB1	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB2	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB3	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB1	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB2	4	0.18	0.04	0.16
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB3	4	0.18	0.04	0.16
(1,261)	1:104:A:ILE:H	1:106:A:ASN:H	4	0.16	0.06	0.14
(1,279)	1:139:A:TYR:H	1:141:A:ALA:H	4	0.16	0.04	0.16
(1,1539)	1:214:A:ILE:H	1:211:A:SER:HA	4	0.16	0.02	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	4	0.15	0.01	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	4	0.15	0.01	0.15
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD11	4	0.15	0.04	0.15
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD12	4	0.15	0.04	0.15
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD13	4	0.15	0.04	0.15
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG11	4	0.14	0.03	0.14
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG12	4	0.14	0.03	0.14
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG13	4	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB1	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB2	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB3	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB1	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB2	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB3	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB1	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB2	4	0.13	0.02	0.12
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB3	4	0.13	0.02	0.12
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG21	4	0.13	0.01	0.14
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG22	4	0.13	0.01	0.14
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG23	4	0.13	0.01	0.14
(1,1628)	1:146:A:GLU:H	1:190:A:LEU:HA	4	0.13	0.03	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG21	4	0.12	0.02	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG22	4	0.12	0.02	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG23	4	0.12	0.02	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA2	4	0.12	0.01	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA3	4	0.12	0.01	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB1	4	0.12	0.01	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB2	4	0.12	0.01	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB3	4	0.12	0.01	0.12
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA2	4	0.12	0.02	0.11
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA3	4	0.12	0.02	0.11
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE1	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE2	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE3	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE1	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE2	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE3	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE1	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE2	3	0.22	0.03	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE3	3	0.22	0.03	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD21	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD22	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD23	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD21	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD22	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD23	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD21	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD22	3	0.21	0.04	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD23	3	0.21	0.04	0.23
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD21	3	0.2	0.07	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD22	3	0.2	0.07	0.23
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD23	3	0.2	0.07	0.23
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB1	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB2	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB3	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB1	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB2	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB3	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB1	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB2	3	0.19	0.07	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB3	3	0.19	0.07	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD11	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD12	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD13	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD11	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD12	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD13	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD11	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD12	3	0.19	0.03	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD13	3	0.19	0.03	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG11	3	0.18	0.01	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG12	3	0.18	0.01	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG13	3	0.18	0.01	0.17
(1,1484)	1:35:A:ASN:H	1:32:A:LEU:HA	3	0.17	0.07	0.15
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG21	3	0.17	0.03	0.18
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG22	3	0.17	0.03	0.18
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG23	3	0.17	0.03	0.18
(1,1802)	1:133:A:GLN:H	1:130:A:MET:HA	3	0.17	0.03	0.18
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG21	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG22	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG23	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG21	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG22	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG23	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG21	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG22	3	0.16	0.04	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG23	3	0.16	0.04	0.16
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	3	0.16	0.03	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	3	0.16	0.03	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD21	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD22	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD23	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD21	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD22	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD23	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD21	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD22	3	0.16	0.03	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD23	3	0.16	0.03	0.17
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD21	3	0.16	0.06	0.13
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD22	3	0.16	0.06	0.13
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD23	3	0.16	0.06	0.13
(1,324)	1:62:A:GLU:H	1:65:A:THR:H	3	0.16	0.05	0.15
(1,1710)	1:187:A:ILE:H	1:148:A:VAL:HA	3	0.16	0.05	0.13
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD21	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD22	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD23	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD21	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD22	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD23	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD21	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD22	3	0.15	0.03	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD23	3	0.15	0.03	0.15
(1,1637)	1:149:A:THR:H	1:188:A:LEU:HA	3	0.15	0.02	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD11	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD12	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD13	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD11	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD12	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD13	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD11	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD12	3	0.15	0.04	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD13	3	0.15	0.04	0.15
(1,251)	1:70:A:LEU:H	1:72:A:SER:H	3	0.15	0.03	0.13
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	3	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	3	0.14	0.01	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	3	0.14	0.01	0.14
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD11	3	0.14	0.02	0.15
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD12	3	0.14	0.02	0.15
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD13	3	0.14	0.02	0.15
(1,1781)	1:125:A:GLY:H	1:123:A:GLN:HA	3	0.14	0.02	0.15
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG11	3	0.14	0.02	0.13
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG12	3	0.14	0.02	0.13
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG13	3	0.14	0.02	0.13
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG21	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG22	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG23	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG21	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG22	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG23	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG21	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG22	3	0.14	0.04	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG23	3	0.14	0.04	0.12
(1,1724)	1:191:A:LYS:H	1:145:A:ALA:HA	3	0.14	0.01	0.15
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD11	3	0.14	0.01	0.14
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD12	3	0.14	0.01	0.14
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD13	3	0.14	0.01	0.14
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG21	3	0.14	0.02	0.13
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG22	3	0.14	0.02	0.13
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG23	3	0.14	0.02	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG21	3	0.14	0.02	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG22	3	0.14	0.02	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG23	3	0.14	0.02	0.13
(1,1799)	1:125:A:GLY:H	1:122:A:LEU:HA	3	0.13	0.01	0.14
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD11	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD12	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD13	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD11	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD12	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD13	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD11	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD12	3	0.13	0.01	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD13	3	0.13	0.01	0.13
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG21	3	0.12	0.02	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG22	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG23	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG21	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG22	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG23	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG21	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG22	3	0.12	0.02	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG23	3	0.12	0.02	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG11	3	0.12	0.02	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG12	3	0.12	0.02	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG13	3	0.12	0.02	0.11
(1,1811)	1:125:A:GLY:H	1:121:A:ALA:HA	3	0.11	0.01	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG21	3	0.11	0.01	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG22	3	0.11	0.01	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG23	3	0.11	0.01	0.11
(1,1442)	1:107:A:LEU:H	1:105:A:ASN:HA	2	0.22	0.04	0.22
(1,438)	1:210:A:HIS:H	1:214:A:ILE:H	2	0.22	0.04	0.22
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG21	2	0.21	0.04	0.21
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG22	2	0.21	0.04	0.21
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG23	2	0.21	0.04	0.21
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD11	2	0.2	0.06	0.2
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD12	2	0.2	0.06	0.2
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD13	2	0.2	0.06	0.2
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG21	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG22	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG23	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG21	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG22	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG23	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG21	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG22	2	0.2	0.01	0.2
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG23	2	0.2	0.01	0.2
(1,131)	1:95:A:GLY:H	1:96:A:ILE:H	2	0.2	0.01	0.2
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD11	2	0.2	0.08	0.2
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD12	2	0.2	0.08	0.2
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD13	2	0.2	0.08	0.2
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD21	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD22	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD23	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD21	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD22	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD23	2	0.2	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD21	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD22	2	0.2	0.04	0.2
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD23	2	0.2	0.04	0.2
(1,1517)	1:106:A:ASN:H	1:103:A:LEU:HA	2	0.19	0.02	0.19
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG21	2	0.18	0.02	0.18
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG22	2	0.18	0.02	0.18
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG23	2	0.18	0.02	0.18
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA2	2	0.18	0.04	0.18
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA3	2	0.18	0.04	0.18
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG21	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG22	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG23	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG21	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG22	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG23	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG21	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG22	2	0.18	0.07	0.18
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG23	2	0.18	0.07	0.18
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG21	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG22	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG23	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG21	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG22	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG23	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG21	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG22	2	0.18	0.02	0.18
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG23	2	0.18	0.02	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD11	2	0.18	0.0	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD12	2	0.18	0.0	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD13	2	0.18	0.0	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD11	2	0.18	0.0	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD12	2	0.18	0.0	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD13	2	0.18	0.0	0.18
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD11	2	0.18	0.04	0.18
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD12	2	0.18	0.04	0.18
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD13	2	0.18	0.04	0.18
(1,1526)	1:197:A:TYR:H	1:194:A:GLN:HA	2	0.18	0.04	0.18
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD21	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD22	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD23	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD21	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD22	2	0.17	0.02	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD23	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD21	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD22	2	0.17	0.02	0.17
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD23	2	0.17	0.02	0.17
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD11	2	0.17	0.02	0.17
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD12	2	0.17	0.02	0.17
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD13	2	0.17	0.02	0.17
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD21	2	0.17	0.01	0.17
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD22	2	0.17	0.01	0.17
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD23	2	0.17	0.01	0.17
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	2	0.16	0.01	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	2	0.16	0.01	0.16
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD11	2	0.16	0.04	0.16
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD12	2	0.16	0.04	0.16
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD13	2	0.16	0.04	0.16
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE1	2	0.16	0.06	0.16
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE2	2	0.16	0.06	0.16
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE3	2	0.16	0.06	0.16
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG21	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG22	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG23	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG21	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG22	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG23	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG21	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG22	2	0.16	0.02	0.16
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG23	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD21	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD22	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD23	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD21	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD22	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD23	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD21	2	0.16	0.02	0.16
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD22	2	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD23	2	0.16	0.02	0.16
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD21	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD22	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD23	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD21	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD22	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD23	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD21	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD22	2	0.16	0.05	0.16
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD23	2	0.16	0.05	0.16
(1,365)	1:211:A:SER:H	1:214:A:ILE:H	2	0.16	0.01	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD11	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD12	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD13	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD11	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD12	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD13	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD11	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD12	2	0.16	0.0	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD13	2	0.16	0.0	0.16
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	2	0.16	0.04	0.16
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	2	0.16	0.04	0.16
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD21	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD22	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD23	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD21	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD22	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD23	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD21	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD22	2	0.16	0.03	0.16
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD23	2	0.16	0.03	0.16
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG21	2	0.16	0.03	0.16
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG22	2	0.16	0.03	0.16
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG23	2	0.16	0.03	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE1	2	0.16	0.0	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,949)	1:169:A:SER:H	1:30:A:MET:HE2	2	0.16	0.0	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE3	2	0.16	0.0	0.16
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG11	2	0.16	0.05	0.16
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG12	2	0.16	0.05	0.16
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG13	2	0.16	0.05	0.16
(1,1399)	1:41:A:LYS:H	1:39:A:SER:HA	2	0.16	0.02	0.16
(1,328)	1:69:A:LYS:H	1:72:A:SER:H	2	0.16	0.04	0.16
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD11	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD12	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD13	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD11	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD12	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD13	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD11	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD12	2	0.16	0.05	0.16
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD13	2	0.16	0.05	0.16
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG21	2	0.16	0.02	0.16
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG22	2	0.16	0.02	0.16
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG23	2	0.16	0.02	0.16
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD11	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD12	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD13	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD11	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD12	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD13	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD11	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD12	2	0.15	0.05	0.15
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD13	2	0.15	0.05	0.15
(1,277)	1:136:A:VAL:H	1:138:A:PHE:H	2	0.15	0.05	0.15
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD21	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD22	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD23	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD21	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD22	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD23	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD21	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD22	2	0.15	0.02	0.15
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD23	2	0.15	0.02	0.15
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG21	2	0.15	0.02	0.15
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG22	2	0.15	0.02	0.15
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG23	2	0.15	0.02	0.15
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD11	2	0.15	0.01	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD12	2	0.15	0.01	0.15
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD13	2	0.15	0.01	0.15
(1,263)	1:114:A:GLY:H	1:116:A:LYS:H	2	0.15	0.0	0.15
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	2	0.15	0.04	0.15
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	2	0.15	0.04	0.15
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD11	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD12	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD13	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD11	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD12	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD13	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD11	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD12	2	0.15	0.03	0.15
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD13	2	0.15	0.03	0.15
(1,1513)	1:102:A:ASP:H	1:99:A:THR:HA	2	0.15	0.03	0.15
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD21	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD22	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD23	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD21	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD22	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD23	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD21	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD22	2	0.15	0.0	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD23	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB1	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB2	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB3	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB1	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB2	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB3	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB1	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB2	2	0.15	0.0	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB3	2	0.15	0.0	0.15
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	2	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	2	0.15	0.02	0.15
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	2	0.15	0.02	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	2	0.15	0.0	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	2	0.15	0.0	0.15
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB1	2	0.15	0.02	0.15
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB2	2	0.15	0.02	0.15
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB3	2	0.15	0.02	0.15
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD11	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD12	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD13	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD11	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD12	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD13	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD11	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD12	2	0.14	0.03	0.14
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD13	2	0.14	0.03	0.14
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG11	2	0.14	0.03	0.14
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG12	2	0.14	0.03	0.14
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG13	2	0.14	0.03	0.14
(1,1598)	1:22:A:PHE:H	1:169:A:SER:HA	2	0.14	0.03	0.14
(1,196)	1:194:A:GLN:H	1:195:A:THR:H	2	0.14	0.02	0.14
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	2	0.14	0.01	0.14
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	2	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	2	0.14	0.03	0.14
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	2	0.14	0.03	0.14
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD11	2	0.14	0.01	0.14
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD12	2	0.14	0.01	0.14
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD13	2	0.14	0.01	0.14
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG21	2	0.14	0.03	0.14
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG22	2	0.14	0.03	0.14
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG23	2	0.14	0.03	0.14
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD11	2	0.14	0.01	0.14
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD12	2	0.14	0.01	0.14
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD13	2	0.14	0.01	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD11	2	0.14	0.0	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD12	2	0.14	0.0	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD13	2	0.14	0.0	0.14
(1,1319)	1:139:A:TYR:H	1:138:A:PHE:HA	2	0.14	0.03	0.14
(1,1427)	1:72:A:SER:H	1:70:A:LEU:HA	2	0.14	0.03	0.14
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG21	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG22	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG23	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG21	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG22	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG23	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG21	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG22	2	0.14	0.04	0.14
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG23	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD21	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD22	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD23	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD21	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD22	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD23	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD21	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD22	2	0.14	0.04	0.14
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD23	2	0.14	0.04	0.14
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	2	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	2	0.14	0.02	0.14
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD21	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD22	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD23	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD21	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD22	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD23	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD21	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD22	2	0.14	0.02	0.14
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD23	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD11	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD12	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD13	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD11	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD12	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD13	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD11	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD12	2	0.14	0.02	0.14
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD13	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG11	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG12	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG13	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG11	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG12	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG13	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG11	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG12	2	0.14	0.02	0.14
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG13	2	0.14	0.02	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD11	2	0.14	0.01	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD12	2	0.14	0.01	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD13	2	0.14	0.01	0.14
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG21	2	0.14	0.02	0.14
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG22	2	0.14	0.02	0.14
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG23	2	0.14	0.02	0.14
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG21	2	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG22	2	0.14	0.02	0.14
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG23	2	0.14	0.02	0.14
(1,1565)	1:64:A:LEU:H	1:60:A:ARG:HA	2	0.14	0.01	0.14
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD11	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD12	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD13	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD11	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD12	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD13	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD11	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD12	2	0.13	0.01	0.13
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD13	2	0.13	0.01	0.13
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD11	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD12	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD13	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD11	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD12	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD13	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD11	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD12	2	0.13	0.02	0.13
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD13	2	0.13	0.02	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA2	2	0.13	0.0	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA3	2	0.13	0.0	0.13
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE1	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE2	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE3	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE1	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE2	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE3	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE1	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE2	2	0.12	0.02	0.12
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE3	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD11	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD12	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD13	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD11	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD12	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD13	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD11	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD12	2	0.12	0.02	0.12
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD13	2	0.12	0.02	0.12
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD11	2	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD12	2	0.12	0.02	0.12
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD13	2	0.12	0.02	0.12
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE1	2	0.12	0.02	0.12
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE2	2	0.12	0.02	0.12
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE3	2	0.12	0.02	0.12
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB1	2	0.12	0.02	0.12
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB2	2	0.12	0.02	0.12
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB3	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG21	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG22	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG23	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG21	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG22	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG23	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG21	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG22	2	0.12	0.02	0.12
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG23	2	0.12	0.02	0.12
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB1	2	0.12	0.02	0.12
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB2	2	0.12	0.02	0.12
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB3	2	0.12	0.02	0.12
(1,138)	1:105:A:ASN:H	1:106:A:ASN:H	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	2	0.12	0.01	0.12
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	2	0.12	0.01	0.12
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	2	0.12	0.02	0.12
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	2	0.12	0.02	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD11	2	0.12	0.0	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD12	2	0.12	0.0	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD13	2	0.12	0.0	0.12

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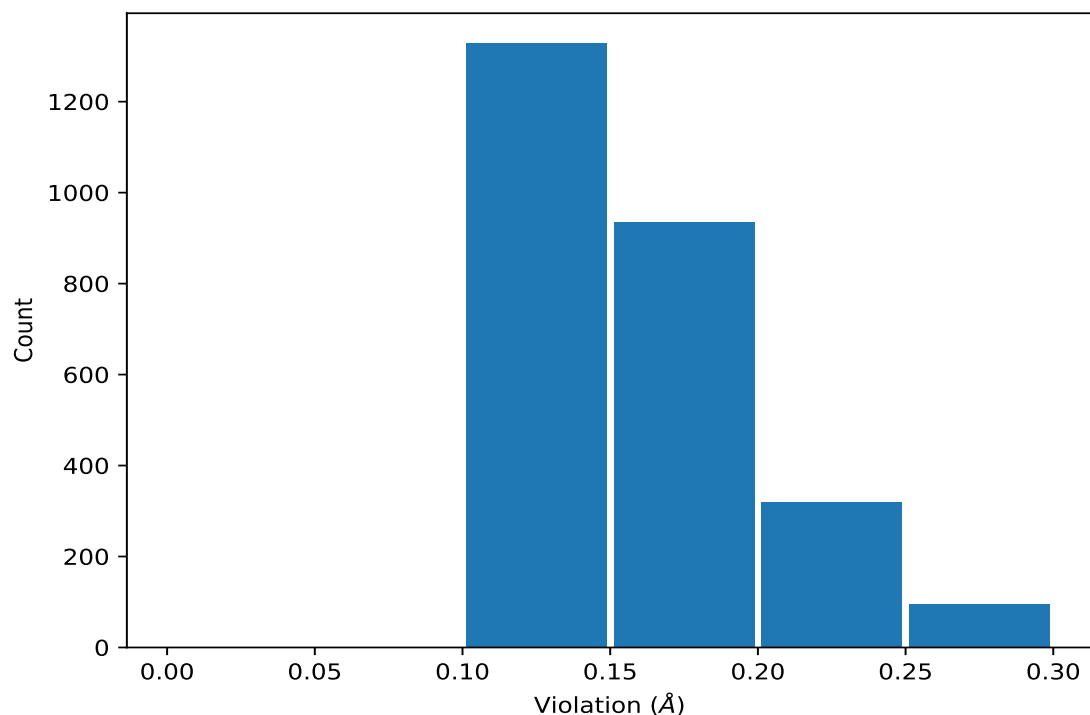
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD11	2	0.12	0.0	0.12
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD12	2	0.12	0.0	0.12
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD13	2	0.12	0.0	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD11	2	0.12	0.0	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD12	2	0.12	0.0	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD13	2	0.12	0.0	0.12
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD11	2	0.12	0.0	0.12
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD12	2	0.12	0.0	0.12
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD13	2	0.12	0.0	0.12
(1,1474)	1:213:A:PHE:H	1:211:A:SER:HA	2	0.12	0.0	0.12
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD11	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD12	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD13	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD11	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD12	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD13	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD11	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD12	2	0.11	0.0	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD13	2	0.11	0.0	0.11
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD11	2	0.11	0.01	0.11
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD12	2	0.11	0.01	0.11
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD13	2	0.11	0.01	0.11
(1,1509)	1:71:A:ASP:H	1:68:A:SER:HA	2	0.11	0.0	0.11
(1,1566)	1:65:A:THR:H	1:61:A:TYR:HA	2	0.11	0.0	0.11
(1,1673)	1:164:A:SER:H	1:170:A:PHE:HA	2	0.11	0.01	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB1	2	0.11	0.0	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB2	2	0.11	0.0	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB3	2	0.11	0.0	0.11
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA2	2	0.11	0.0	0.11
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA3	2	0.11	0.0	0.11
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB1	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB2	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB3	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB1	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB2	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB3	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB1	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB2	2	0.1	0.0	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB3	2	0.1	0.0	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA2	2	0.1	0.0	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA3	2	0.1	0.0	0.1

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)
(1,1522)	1:145:A:ALA:H	1:142:A:TYR:HA	2	0.29
(1,1)	1:126:A:ALA:HB1	1:64:A:LEU:HD11	10	0.29
(1,1)	1:126:A:ALA:HB1	1:64:A:LEU:HD12	10	0.29
(1,1)	1:126:A:ALA:HB1	1:64:A:LEU:HD13	10	0.29
(1,1)	1:126:A:ALA:HB2	1:64:A:LEU:HD11	10	0.29
(1,1)	1:126:A:ALA:HB2	1:64:A:LEU:HD12	10	0.29
(1,1)	1:126:A:ALA:HB2	1:64:A:LEU:HD13	10	0.29
(1,1)	1:126:A:ALA:HB3	1:64:A:LEU:HD11	10	0.29
(1,1)	1:126:A:ALA:HB3	1:64:A:LEU:HD12	10	0.29
(1,1)	1:126:A:ALA:HB3	1:64:A:LEU:HD13	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1025)	1:199:A:GLU:H	1:198:A:LEU:HD11	9	0.28
(1,1025)	1:199:A:GLU:H	1:198:A:LEU:HD12	9	0.28
(1,1025)	1:199:A:GLU:H	1:198:A:LEU:HD13	9	0.28
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD11	2	0.28
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD12	2	0.28
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD13	2	0.28
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB1	7	0.28
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB2	7	0.28
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB3	7	0.28
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB1	7	0.28
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB2	7	0.28
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB3	7	0.28
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB1	7	0.28
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB2	7	0.28
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB3	7	0.28
(1,1484)	1:35:A:ASN:H	1:32:A:LEU:HA	8	0.27
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD11	5	0.27
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD12	5	0.27
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD13	5	0.27
(1,887)	1:134:A:PHE:H	1:136:A:VAL:HG21	8	0.27
(1,887)	1:134:A:PHE:H	1:136:A:VAL:HG22	8	0.27
(1,887)	1:134:A:PHE:H	1:136:A:VAL:HG23	8	0.27
(1,1442)	1:107:A:LEU:H	1:105:A:ASN:HA	9	0.26
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD21	2	0.26
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD22	2	0.26
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD23	2	0.26
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG21	2	0.25
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG22	2	0.25
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG23	2	0.25
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB1	6	0.25
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB2	6	0.25
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB3	6	0.25
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB1	6	0.25
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB2	6	0.25
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB3	6	0.25
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB1	6	0.25
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB2	6	0.25
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB3	6	0.25
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE1	1	0.25
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE2	1	0.25
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE3	1	0.25
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE1	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE2	1	0.25
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE3	1	0.25
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE1	1	0.25
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE2	1	0.25
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE3	1	0.25
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG21	6	0.25
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG22	6	0.25
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG23	6	0.25
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG21	6	0.25
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG22	6	0.25
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG23	6	0.25
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG21	6	0.25
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG22	6	0.25
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG23	6	0.25
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD21	2	0.25
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD22	2	0.25
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD23	2	0.25
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD21	2	0.25
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD22	2	0.25
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD23	2	0.25
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD21	2	0.25
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD22	2	0.25
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD23	2	0.25
(1,490)	1:45:A:LEU:HD21	1:91:A:ILE:HD11	5	0.25
(1,490)	1:45:A:LEU:HD21	1:91:A:ILE:HD12	5	0.25
(1,490)	1:45:A:LEU:HD21	1:91:A:ILE:HD13	5	0.25
(1,490)	1:45:A:LEU:HD22	1:91:A:ILE:HD11	5	0.25
(1,490)	1:45:A:LEU:HD22	1:91:A:ILE:HD12	5	0.25
(1,490)	1:45:A:LEU:HD22	1:91:A:ILE:HD13	5	0.25
(1,490)	1:45:A:LEU:HD23	1:91:A:ILE:HD11	5	0.25
(1,490)	1:45:A:LEU:HD23	1:91:A:ILE:HD12	5	0.25
(1,490)	1:45:A:LEU:HD23	1:91:A:ILE:HD13	5	0.25
(1,438)	1:210:A:HIS:H	1:214:A:ILE:H	5	0.25
(1,261)	1:104:A:ILE:H	1:106:A:ASN:H	8	0.25
(1,45)	1:48:A:LEU:HD21	1:144:A:VAL:HG11	2	0.25
(1,45)	1:48:A:LEU:HD21	1:144:A:VAL:HG12	2	0.25
(1,45)	1:48:A:LEU:HD21	1:144:A:VAL:HG13	2	0.25
(1,45)	1:48:A:LEU:HD22	1:144:A:VAL:HG11	2	0.25
(1,45)	1:48:A:LEU:HD22	1:144:A:VAL:HG12	2	0.25
(1,45)	1:48:A:LEU:HD22	1:144:A:VAL:HG13	2	0.25
(1,45)	1:48:A:LEU:HD23	1:144:A:VAL:HG11	2	0.25
(1,45)	1:48:A:LEU:HD23	1:144:A:VAL:HG12	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,45)	1:48:A:LEU:HD23	1:144:A:VAL:HG13	2	0.25
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	1	0.24
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	1	0.24
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	1	0.24
(1,892)	1:139:A:TYR:H	1:136:A:VAL:HG21	2	0.24
(1,892)	1:139:A:TYR:H	1:136:A:VAL:HG22	2	0.24
(1,892)	1:139:A:TYR:H	1:136:A:VAL:HG23	2	0.24
(1,762)	1:61:A:TYR:H	1:64:A:LEU:HD11	2	0.24
(1,762)	1:61:A:TYR:H	1:64:A:LEU:HD12	2	0.24
(1,762)	1:61:A:TYR:H	1:64:A:LEU:HD13	2	0.24
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD21	4	0.24
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD22	4	0.24
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD23	4	0.24
(1,654)	1:96:A:ILE:H	1:96:A:ILE:HD11	7	0.24
(1,654)	1:96:A:ILE:H	1:96:A:ILE:HD12	7	0.24
(1,654)	1:96:A:ILE:H	1:96:A:ILE:HD13	7	0.24
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	5	0.24
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	5	0.24
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	5	0.24
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	5	0.24
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	5	0.24
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	5	0.24
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	5	0.24
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	5	0.24
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	5	0.24
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD21	6	0.24
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD22	6	0.24
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD23	6	0.24
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD21	6	0.24
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD22	6	0.24
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD23	6	0.24
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD21	6	0.24
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD22	6	0.24
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD23	6	0.24
(1,34)	1:89:A:LEU:HD11	1:190:A:LEU:HD11	1	0.24
(1,34)	1:89:A:LEU:HD11	1:190:A:LEU:HD12	1	0.24
(1,34)	1:89:A:LEU:HD11	1:190:A:LEU:HD13	1	0.24
(1,34)	1:89:A:LEU:HD12	1:190:A:LEU:HD11	1	0.24
(1,34)	1:89:A:LEU:HD12	1:190:A:LEU:HD12	1	0.24
(1,34)	1:89:A:LEU:HD12	1:190:A:LEU:HD13	1	0.24
(1,34)	1:89:A:LEU:HD13	1:190:A:LEU:HD11	1	0.24
(1,34)	1:89:A:LEU:HD13	1:190:A:LEU:HD12	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:89:A:LEU:HD13	1:190:A:LEU:HD13	1	0.24
(1,1710)	1:187:A:ILE:H	1:148:A:VAL:HA	3	0.23
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA2	5	0.23
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA3	5	0.23
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE1	10	0.23
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE2	10	0.23
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE3	10	0.23
(1,933)	1:161:A:ALA:H	1:172:A:VAL:HG11	2	0.23
(1,933)	1:161:A:ALA:H	1:172:A:VAL:HG12	2	0.23
(1,933)	1:161:A:ALA:H	1:172:A:VAL:HG13	2	0.23
(1,790)	1:78:A:ILE:H	1:56:A:LEU:HD11	8	0.23
(1,790)	1:78:A:ILE:H	1:56:A:LEU:HD12	8	0.23
(1,790)	1:78:A:ILE:H	1:56:A:LEU:HD13	8	0.23
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD21	10	0.23
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD22	10	0.23
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD23	10	0.23
(1,753)	1:58:A:LYS:H	1:96:A:ILE:HD11	6	0.23
(1,753)	1:58:A:LYS:H	1:96:A:ILE:HD12	6	0.23
(1,753)	1:58:A:LYS:H	1:96:A:ILE:HD13	6	0.23
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE1	4	0.23
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE2	4	0.23
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE3	4	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE1	4	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE2	4	0.23
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE3	4	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE1	4	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE2	4	0.23
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE3	4	0.23
(1,552)	1:98:A:MET:HE1	1:150:A:VAL:HG11	10	0.23
(1,552)	1:98:A:MET:HE1	1:150:A:VAL:HG12	10	0.23
(1,552)	1:98:A:MET:HE1	1:150:A:VAL:HG13	10	0.23
(1,552)	1:98:A:MET:HE2	1:150:A:VAL:HG11	10	0.23
(1,552)	1:98:A:MET:HE2	1:150:A:VAL:HG12	10	0.23
(1,552)	1:98:A:MET:HE2	1:150:A:VAL:HG13	10	0.23
(1,552)	1:98:A:MET:HE3	1:150:A:VAL:HG11	10	0.23
(1,552)	1:98:A:MET:HE3	1:150:A:VAL:HG12	10	0.23
(1,552)	1:98:A:MET:HE3	1:150:A:VAL:HG13	10	0.23
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD21	4	0.23
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD22	4	0.23
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD23	4	0.23
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD21	4	0.23
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD22	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD23	4	0.23
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD21	4	0.23
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD22	4	0.23
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD23	4	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD21	8	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD22	8	0.23
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD23	8	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD21	8	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD22	8	0.23
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD23	8	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD21	8	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD22	8	0.23
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD23	8	0.23
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD11	2	0.23
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD12	2	0.23
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD13	2	0.23
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD11	2	0.23
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD12	2	0.23
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD13	2	0.23
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD11	2	0.23
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD12	2	0.23
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD13	2	0.23
(1,47)	1:190:A:LEU:HD11	1:145:A:ALA:HB1	1	0.23
(1,47)	1:190:A:LEU:HD11	1:145:A:ALA:HB2	1	0.23
(1,47)	1:190:A:LEU:HD11	1:145:A:ALA:HB3	1	0.23
(1,47)	1:190:A:LEU:HD12	1:145:A:ALA:HB1	1	0.23
(1,47)	1:190:A:LEU:HD12	1:145:A:ALA:HB2	1	0.23
(1,47)	1:190:A:LEU:HD12	1:145:A:ALA:HB3	1	0.23
(1,47)	1:190:A:LEU:HD13	1:145:A:ALA:HB1	1	0.23
(1,47)	1:190:A:LEU:HD13	1:145:A:ALA:HB2	1	0.23
(1,47)	1:190:A:LEU:HD13	1:145:A:ALA:HB3	1	0.23
(1,1526)	1:197:A:TYR:H	1:194:A:GLN:HA	3	0.22
(1,1067)	1:221:A:PHE:H	1:203:A:ILE:HD11	10	0.22
(1,1067)	1:221:A:PHE:H	1:203:A:ILE:HD12	10	0.22
(1,1067)	1:221:A:PHE:H	1:203:A:ILE:HD13	10	0.22
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD11	8	0.22
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD12	8	0.22
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD13	8	0.22
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	2	0.22
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	2	0.22
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	2	0.22
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	7	0.22
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	7	0.22
(1,567)	1:103:A:LEU:HD21	1:152:A:THR:HG21	6	0.22
(1,567)	1:103:A:LEU:HD21	1:152:A:THR:HG22	6	0.22
(1,567)	1:103:A:LEU:HD21	1:152:A:THR:HG23	6	0.22
(1,567)	1:103:A:LEU:HD22	1:152:A:THR:HG21	6	0.22
(1,567)	1:103:A:LEU:HD22	1:152:A:THR:HG22	6	0.22
(1,567)	1:103:A:LEU:HD22	1:152:A:THR:HG23	6	0.22
(1,567)	1:103:A:LEU:HD23	1:152:A:THR:HG21	6	0.22
(1,567)	1:103:A:LEU:HD23	1:152:A:THR:HG22	6	0.22
(1,567)	1:103:A:LEU:HD23	1:152:A:THR:HG23	6	0.22
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD21	4	0.22
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD22	4	0.22
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD23	4	0.22
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD21	4	0.22
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD22	4	0.22
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD23	4	0.22
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD21	4	0.22
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD22	4	0.22
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD23	4	0.22
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG21	5	0.22
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG22	5	0.22
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG23	5	0.22
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG21	5	0.22
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG22	5	0.22
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG23	5	0.22
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG21	5	0.22
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG22	5	0.22
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG23	5	0.22
(1,324)	1:62:A:GLU:H	1:65:A:THR:H	3	0.22
(1,1792)	1:117:A:ALA:H	1:114:A:GLY:HA2	2	0.21
(1,1792)	1:117:A:ALA:H	1:114:A:GLY:HA3	2	0.21
(1,1599)	1:77:A:HIS:H	1:93:A:ASP:HA	2	0.21
(1,1517)	1:106:A:ASN:H	1:103:A:LEU:HA	8	0.21
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG11	1	0.21
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG12	1	0.21
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG13	1	0.21
(1,921)	1:151:A:ILE:H	1:103:A:LEU:HD11	7	0.21
(1,921)	1:151:A:ILE:H	1:103:A:LEU:HD12	7	0.21
(1,921)	1:151:A:ILE:H	1:103:A:LEU:HD13	7	0.21
(1,845)	1:94:A:THR:H	1:56:A:LEU:HD11	1	0.21
(1,845)	1:94:A:THR:H	1:56:A:LEU:HD12	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,845)	1:94:A:THR:H	1:56:A:LEU:HD13	1	0.21
(1,825)	1:89:A:LEU:H	1:188:A:LEU:HD21	4	0.21
(1,825)	1:89:A:LEU:H	1:188:A:LEU:HD22	4	0.21
(1,825)	1:89:A:LEU:H	1:188:A:LEU:HD23	4	0.21
(1,821)	1:87:A:ARG:H	1:198:A:LEU:HD11	5	0.21
(1,821)	1:87:A:ARG:H	1:198:A:LEU:HD12	5	0.21
(1,821)	1:87:A:ARG:H	1:198:A:LEU:HD13	5	0.21
(1,811)	1:83:A:ASN:H	1:198:A:LEU:HD11	6	0.21
(1,811)	1:83:A:ASN:H	1:198:A:LEU:HD12	6	0.21
(1,811)	1:83:A:ASN:H	1:198:A:LEU:HD13	6	0.21
(1,584)	1:141:A:ALA:HB1	1:148:A:VAL:HG21	2	0.21
(1,584)	1:141:A:ALA:HB1	1:148:A:VAL:HG22	2	0.21
(1,584)	1:141:A:ALA:HB1	1:148:A:VAL:HG23	2	0.21
(1,584)	1:141:A:ALA:HB2	1:148:A:VAL:HG21	2	0.21
(1,584)	1:141:A:ALA:HB2	1:148:A:VAL:HG22	2	0.21
(1,584)	1:141:A:ALA:HB2	1:148:A:VAL:HG23	2	0.21
(1,584)	1:141:A:ALA:HB3	1:148:A:VAL:HG21	2	0.21
(1,584)	1:141:A:ALA:HB3	1:148:A:VAL:HG22	2	0.21
(1,584)	1:141:A:ALA:HB3	1:148:A:VAL:HG23	2	0.21
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	8	0.21
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	8	0.21
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	8	0.21
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	8	0.21
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	8	0.21
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	8	0.21
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	8	0.21
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	8	0.21
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	8	0.21
(1,326)	1:66:A:ASP:H	1:69:A:LYS:H	5	0.21
(1,305)	1:210:A:HIS:H	1:212:A:GLN:H	5	0.21
(1,131)	1:95:A:GLY:H	1:96:A:ILE:H	8	0.21
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG21	1	0.21
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG22	1	0.21
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG23	1	0.21
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG21	1	0.21
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG22	1	0.21
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG23	1	0.21
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG21	1	0.21
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG22	1	0.21
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG23	1	0.21
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD21	5	0.21
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD22	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD23	5	0.21
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD21	5	0.21
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD22	5	0.21
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD23	5	0.21
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD21	5	0.21
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD22	5	0.21
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD23	5	0.21
(1,27)	1:45:A:LEU:HD21	1:48:A:LEU:HD11	10	0.21
(1,27)	1:45:A:LEU:HD21	1:48:A:LEU:HD12	10	0.21
(1,27)	1:45:A:LEU:HD21	1:48:A:LEU:HD13	10	0.21
(1,27)	1:45:A:LEU:HD22	1:48:A:LEU:HD11	10	0.21
(1,27)	1:45:A:LEU:HD22	1:48:A:LEU:HD12	10	0.21
(1,27)	1:45:A:LEU:HD22	1:48:A:LEU:HD13	10	0.21
(1,27)	1:45:A:LEU:HD23	1:48:A:LEU:HD11	10	0.21
(1,27)	1:45:A:LEU:HD23	1:48:A:LEU:HD12	10	0.21
(1,27)	1:45:A:LEU:HD23	1:48:A:LEU:HD13	10	0.21
(1,1802)	1:133:A:GLN:H	1:130:A:MET:HA	4	0.2
(1,1699)	1:184:A:THR:H	1:94:A:THR:HA	8	0.2
(1,1697)	1:184:A:THR:H	1:92:A:VAL:HA	8	0.2
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG21	10	0.2
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG22	10	0.2
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG23	10	0.2
(1,930)	1:160:A:TYR:H	1:103:A:LEU:HD21	4	0.2
(1,930)	1:160:A:TYR:H	1:103:A:LEU:HD22	4	0.2
(1,930)	1:160:A:TYR:H	1:103:A:LEU:HD23	4	0.2
(1,894)	1:142:A:TYR:H	1:33:A:ILE:HD11	5	0.2
(1,894)	1:142:A:TYR:H	1:33:A:ILE:HD12	5	0.2
(1,894)	1:142:A:TYR:H	1:33:A:ILE:HD13	5	0.2
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG21	9	0.2
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG22	9	0.2
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG23	9	0.2
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD11	1	0.2
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD12	1	0.2
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD13	1	0.2
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	5	0.2
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	5	0.2
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	5	0.2
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	2	0.2
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	2	0.2
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	2	0.2
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	2	0.2
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	2	0.2
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	2	0.2
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	2	0.2
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	2	0.2
(1,554)	1:98:A:MET:HE1	1:152:A:THR:HG21	4	0.2
(1,554)	1:98:A:MET:HE1	1:152:A:THR:HG22	4	0.2
(1,554)	1:98:A:MET:HE1	1:152:A:THR:HG23	4	0.2
(1,554)	1:98:A:MET:HE2	1:152:A:THR:HG21	4	0.2
(1,554)	1:98:A:MET:HE2	1:152:A:THR:HG22	4	0.2
(1,554)	1:98:A:MET:HE2	1:152:A:THR:HG23	4	0.2
(1,554)	1:98:A:MET:HE3	1:152:A:THR:HG21	4	0.2
(1,554)	1:98:A:MET:HE3	1:152:A:THR:HG22	4	0.2
(1,554)	1:98:A:MET:HE3	1:152:A:THR:HG23	4	0.2
(1,513)	1:56:A:LEU:HD21	1:76:A:LEU:HD11	2	0.2
(1,513)	1:56:A:LEU:HD21	1:76:A:LEU:HD12	2	0.2
(1,513)	1:56:A:LEU:HD21	1:76:A:LEU:HD13	2	0.2
(1,513)	1:56:A:LEU:HD22	1:76:A:LEU:HD11	2	0.2
(1,513)	1:56:A:LEU:HD22	1:76:A:LEU:HD12	2	0.2
(1,513)	1:56:A:LEU:HD22	1:76:A:LEU:HD13	2	0.2
(1,513)	1:56:A:LEU:HD23	1:76:A:LEU:HD11	2	0.2
(1,513)	1:56:A:LEU:HD23	1:76:A:LEU:HD12	2	0.2
(1,513)	1:56:A:LEU:HD23	1:76:A:LEU:HD13	2	0.2
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	5	0.2
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	5	0.2
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	5	0.2
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	5	0.2
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	5	0.2
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	5	0.2
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	5	0.2
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	5	0.2
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	5	0.2
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD11	10	0.2
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD12	10	0.2
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD13	10	0.2
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD11	10	0.2
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD12	10	0.2
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD13	10	0.2
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD11	10	0.2
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD12	10	0.2
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD13	10	0.2
(1,476)	1:30:A:MET:HE1	1:166:A:ALA:HB1	9	0.2
(1,476)	1:30:A:MET:HE1	1:166:A:ALA:HB2	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,476)	1:30:A:MET:HE1	1:166:A:ALA:HB3	9	0.2
(1,476)	1:30:A:MET:HE2	1:166:A:ALA:HB1	9	0.2
(1,476)	1:30:A:MET:HE2	1:166:A:ALA:HB2	9	0.2
(1,476)	1:30:A:MET:HE2	1:166:A:ALA:HB3	9	0.2
(1,476)	1:30:A:MET:HE3	1:166:A:ALA:HB1	9	0.2
(1,476)	1:30:A:MET:HE3	1:166:A:ALA:HB2	9	0.2
(1,476)	1:30:A:MET:HE3	1:166:A:ALA:HB3	9	0.2
(1,279)	1:139:A:TYR:H	1:141:A:ALA:H	4	0.2
(1,277)	1:136:A:VAL:H	1:138:A:PHE:H	5	0.2
(1,60)	1:141:A:ALA:HB1	1:145:A:ALA:HB1	8	0.2
(1,60)	1:141:A:ALA:HB1	1:145:A:ALA:HB2	8	0.2
(1,60)	1:141:A:ALA:HB1	1:145:A:ALA:HB3	8	0.2
(1,60)	1:141:A:ALA:HB2	1:145:A:ALA:HB1	8	0.2
(1,60)	1:141:A:ALA:HB2	1:145:A:ALA:HB2	8	0.2
(1,60)	1:141:A:ALA:HB2	1:145:A:ALA:HB3	8	0.2
(1,60)	1:141:A:ALA:HB3	1:145:A:ALA:HB1	8	0.2
(1,60)	1:141:A:ALA:HB3	1:145:A:ALA:HB2	8	0.2
(1,60)	1:141:A:ALA:HB3	1:145:A:ALA:HB3	8	0.2
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD11	9	0.2
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD12	9	0.2
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD13	9	0.2
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD11	9	0.2
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD12	9	0.2
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD13	9	0.2
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD11	9	0.2
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD12	9	0.2
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD13	9	0.2
(1,1539)	1:214:A:ILE:H	1:211:A:SER:HA	1	0.19
(1,1035)	1:203:A:ILE:H	1:206:A:ILE:HD11	10	0.19
(1,1035)	1:203:A:ILE:H	1:206:A:ILE:HD12	10	0.19
(1,1035)	1:203:A:ILE:H	1:206:A:ILE:HD13	10	0.19
(1,1032)	1:201:A:ARG:H	1:220:A:LEU:HD21	10	0.19
(1,1032)	1:201:A:ARG:H	1:220:A:LEU:HD22	10	0.19
(1,1032)	1:201:A:ARG:H	1:220:A:LEU:HD23	10	0.19
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	7	0.19
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	7	0.19
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	7	0.19
(1,929)	1:159:A:GLN:H	1:174:A:THR:HG21	1	0.19
(1,929)	1:159:A:GLN:H	1:174:A:THR:HG22	1	0.19
(1,929)	1:159:A:GLN:H	1:174:A:THR:HG23	1	0.19
(1,877)	1:126:A:ALA:H	1:130:A:MET:HE1	4	0.19
(1,877)	1:126:A:ALA:H	1:130:A:MET:HE2	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,877)	1:126:A:ALA:H	1:130:A:MET:HE3	4	0.19
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG21	5	0.19
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG22	5	0.19
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG23	5	0.19
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG11	2	0.19
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG12	2	0.19
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG13	2	0.19
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD11	7	0.19
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD12	7	0.19
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD13	7	0.19
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD11	1	0.19
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD12	1	0.19
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD13	1	0.19
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	7	0.19
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	7	0.19
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	7	0.19
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	7	0.19
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	7	0.19
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	7	0.19
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	7	0.19
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	7	0.19
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	7	0.19
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD21	9	0.19
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD22	9	0.19
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD23	9	0.19
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD21	9	0.19
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD22	9	0.19
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD23	9	0.19
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD21	9	0.19
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD22	9	0.19
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD23	9	0.19
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD21	8	0.19
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD22	8	0.19
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD23	8	0.19
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD21	8	0.19
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD22	8	0.19
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD23	8	0.19
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD21	8	0.19
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD22	8	0.19
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD23	8	0.19
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG21	1	0.19
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG22	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG23	1	0.19
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG21	1	0.19
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG22	1	0.19
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG23	1	0.19
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG21	1	0.19
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG22	1	0.19
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG23	1	0.19
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD21	6	0.19
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD22	6	0.19
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD23	6	0.19
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD21	6	0.19
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD22	6	0.19
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD23	6	0.19
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD21	6	0.19
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD22	6	0.19
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD23	6	0.19
(1,545)	1:92:A:VAL:HG21	1:94:A:THR:HG21	1	0.19
(1,545)	1:92:A:VAL:HG21	1:94:A:THR:HG22	1	0.19
(1,545)	1:92:A:VAL:HG21	1:94:A:THR:HG23	1	0.19
(1,545)	1:92:A:VAL:HG22	1:94:A:THR:HG21	1	0.19
(1,545)	1:92:A:VAL:HG22	1:94:A:THR:HG22	1	0.19
(1,545)	1:92:A:VAL:HG22	1:94:A:THR:HG23	1	0.19
(1,545)	1:92:A:VAL:HG23	1:94:A:THR:HG21	1	0.19
(1,545)	1:92:A:VAL:HG23	1:94:A:THR:HG22	1	0.19
(1,545)	1:92:A:VAL:HG23	1:94:A:THR:HG23	1	0.19
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD21	7	0.19
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD22	7	0.19
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD23	7	0.19
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD21	7	0.19
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD22	7	0.19
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD23	7	0.19
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD21	7	0.19
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD22	7	0.19
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD23	7	0.19
(1,523)	1:80:A:LEU:HD11	1:207:A:VAL:HG11	2	0.19
(1,523)	1:80:A:LEU:HD11	1:207:A:VAL:HG12	2	0.19
(1,523)	1:80:A:LEU:HD11	1:207:A:VAL:HG13	2	0.19
(1,523)	1:80:A:LEU:HD12	1:207:A:VAL:HG11	2	0.19
(1,523)	1:80:A:LEU:HD12	1:207:A:VAL:HG12	2	0.19
(1,523)	1:80:A:LEU:HD12	1:207:A:VAL:HG13	2	0.19
(1,523)	1:80:A:LEU:HD13	1:207:A:VAL:HG11	2	0.19
(1,523)	1:80:A:LEU:HD13	1:207:A:VAL:HG12	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,523)	1:80:A:LEU:HD13	1:207:A:VAL:HG13	2	0.19
(1,328)	1:69:A:LYS:H	1:72:A:SER:H	7	0.19
(1,279)	1:139:A:TYR:H	1:141:A:ALA:H	5	0.19
(1,251)	1:70:A:LEU:H	1:72:A:SER:H	1	0.19
(1,214)	1:212:A:GLN:H	1:213:A:PHE:H	1	0.19
(1,131)	1:95:A:GLY:H	1:96:A:ILE:H	4	0.19
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD11	3	0.19
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD12	3	0.19
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD13	3	0.19
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD11	3	0.19
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD12	3	0.19
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD13	3	0.19
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD11	3	0.19
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD12	3	0.19
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD13	3	0.19
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG21	9	0.19
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG22	9	0.19
(1,38)	1:80:A:LEU:HD21	1:207:A:VAL:HG23	9	0.19
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG21	9	0.19
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG22	9	0.19
(1,38)	1:80:A:LEU:HD22	1:207:A:VAL:HG23	9	0.19
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG21	9	0.19
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG22	9	0.19
(1,38)	1:80:A:LEU:HD23	1:207:A:VAL:HG23	9	0.19
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG21	7	0.19
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG22	7	0.19
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG23	7	0.19
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG21	7	0.19
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG22	7	0.19
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG23	7	0.19
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG21	7	0.19
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG22	7	0.19
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG23	7	0.19
(1,1803)	1:134:A:PHE:H	1:131:A:ILE:HA	7	0.18
(1,1802)	1:133:A:GLN:H	1:130:A:MET:HA	5	0.18
(1,1788)	1:134:A:PHE:H	1:132:A:GLY:HA2	8	0.18
(1,1788)	1:134:A:PHE:H	1:132:A:GLY:HA3	8	0.18
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	3	0.18
(1,1694)	1:183:A:GLY:H	1:152:A:THR:HA	1	0.18
(1,1628)	1:146:A:GLU:H	1:190:A:LEU:HA	1	0.18
(1,1598)	1:22:A:PHE:H	1:169:A:SER:HA	6	0.18
(1,1572)	1:105:A:ASN:H	1:101:A:ALA:HA	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1570)	1:103:A:LEU:H	1:99:A:THR:HA	9	0.18
(1,1513)	1:102:A:ASP:H	1:99:A:THR:HA	9	0.18
(1,1490)	1:49:A:ILE:H	1:46:A:ARG:HA	9	0.18
(1,1457)	1:195:A:THR:H	1:193:A:ASP:HA	10	0.18
(1,1003)	1:190:A:LEU:H	1:198:A:LEU:HD21	2	0.18
(1,1003)	1:190:A:LEU:H	1:198:A:LEU:HD22	2	0.18
(1,1003)	1:190:A:LEU:H	1:198:A:LEU:HD23	2	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	2	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	2	0.18
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	2	0.18
(1,946)	1:163:A:GLU:H	1:172:A:VAL:HG11	2	0.18
(1,946)	1:163:A:GLU:H	1:172:A:VAL:HG12	2	0.18
(1,946)	1:163:A:GLU:H	1:172:A:VAL:HG13	2	0.18
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG11	4	0.18
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG12	4	0.18
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG13	4	0.18
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG21	10	0.18
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG22	10	0.18
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG23	10	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD11	10	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD12	10	0.18
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD13	10	0.18
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD11	9	0.18
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD12	9	0.18
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD13	9	0.18
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG11	4	0.18
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG12	4	0.18
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG13	4	0.18
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD21	8	0.18
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD22	8	0.18
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD23	8	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD11	7	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD12	7	0.18
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD13	7	0.18
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG21	1	0.18
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG22	1	0.18
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG23	1	0.18
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD11	5	0.18
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD12	5	0.18
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD13	5	0.18
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD11	5	0.18
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD12	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD13	5	0.18
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD11	5	0.18
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD12	5	0.18
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD13	5	0.18
(1,592)	1:148:A:VAL:HG11	1:188:A:LEU:HD11	4	0.18
(1,592)	1:148:A:VAL:HG11	1:188:A:LEU:HD12	4	0.18
(1,592)	1:148:A:VAL:HG11	1:188:A:LEU:HD13	4	0.18
(1,592)	1:148:A:VAL:HG12	1:188:A:LEU:HD11	4	0.18
(1,592)	1:148:A:VAL:HG12	1:188:A:LEU:HD12	4	0.18
(1,592)	1:148:A:VAL:HG12	1:188:A:LEU:HD13	4	0.18
(1,592)	1:148:A:VAL:HG13	1:188:A:LEU:HD11	4	0.18
(1,592)	1:148:A:VAL:HG13	1:188:A:LEU:HD12	4	0.18
(1,592)	1:148:A:VAL:HG13	1:188:A:LEU:HD13	4	0.18
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE1	2	0.18
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE2	2	0.18
(1,582)	1:126:A:ALA:HB1	1:130:A:MET:HE3	2	0.18
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE1	2	0.18
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE2	2	0.18
(1,582)	1:126:A:ALA:HB2	1:130:A:MET:HE3	2	0.18
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE1	2	0.18
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE2	2	0.18
(1,582)	1:126:A:ALA:HB3	1:130:A:MET:HE3	2	0.18
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD11	9	0.18
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD12	9	0.18
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD13	9	0.18
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD11	9	0.18
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD12	9	0.18
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD13	9	0.18
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD11	9	0.18
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD12	9	0.18
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD13	9	0.18
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD21	2	0.18
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD22	2	0.18
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD23	2	0.18
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD21	2	0.18
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD22	2	0.18
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD23	2	0.18
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD21	2	0.18
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD22	2	0.18
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD23	2	0.18
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	2	0.18
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	2	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	2	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	2	0.18
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	2	0.18
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	2	0.18
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	2	0.18
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	2	0.18
(1,479)	1:43:A:ILE:HD11	1:143:A:LEU:HD11	8	0.18
(1,479)	1:43:A:ILE:HD11	1:143:A:LEU:HD12	8	0.18
(1,479)	1:43:A:ILE:HD11	1:143:A:LEU:HD13	8	0.18
(1,479)	1:43:A:ILE:HD12	1:143:A:LEU:HD11	8	0.18
(1,479)	1:43:A:ILE:HD12	1:143:A:LEU:HD12	8	0.18
(1,479)	1:43:A:ILE:HD12	1:143:A:LEU:HD13	8	0.18
(1,479)	1:43:A:ILE:HD13	1:143:A:LEU:HD11	8	0.18
(1,479)	1:43:A:ILE:HD13	1:143:A:LEU:HD12	8	0.18
(1,479)	1:43:A:ILE:HD13	1:143:A:LEU:HD13	8	0.18
(1,438)	1:210:A:HIS:H	1:214:A:ILE:H	1	0.18
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG21	2	0.18
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG22	2	0.18
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG23	2	0.18
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG21	2	0.18
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG22	2	0.18
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG23	2	0.18
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG21	2	0.18
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG22	2	0.18
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG23	2	0.18
(1,1637)	1:149:A:THR:H	1:188:A:LEU:HA	4	0.17
(1,1582)	1:211:A:SER:H	1:207:A:VAL:HA	5	0.17
(1,1517)	1:106:A:ASN:H	1:103:A:LEU:HA	6	0.17
(1,1459)	1:197:A:TYR:H	1:195:A:THR:HA	9	0.17
(1,1442)	1:107:A:LEU:H	1:105:A:ASN:HA	2	0.17
(1,1427)	1:72:A:SER:H	1:70:A:LEU:HA	8	0.17
(1,1399)	1:41:A:LYS:H	1:39:A:SER:HA	6	0.17
(1,1319)	1:139:A:TYR:H	1:138:A:PHE:HA	5	0.17
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD11	10	0.17
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD12	10	0.17
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD13	10	0.17
(1,1012)	1:196:A:GLU:H	1:190:A:LEU:HD11	1	0.17
(1,1012)	1:196:A:GLU:H	1:190:A:LEU:HD12	1	0.17
(1,1012)	1:196:A:GLU:H	1:190:A:LEU:HD13	1	0.17
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG21	8	0.17
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG22	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:189:A:HIS:H	1:88:A:THR:HG23	8	0.17
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG21	9	0.17
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG22	9	0.17
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG23	9	0.17
(1,958)	1:173:A:ARG:H	1:172:A:VAL:HG11	2	0.17
(1,958)	1:173:A:ARG:H	1:172:A:VAL:HG12	2	0.17
(1,958)	1:173:A:ARG:H	1:172:A:VAL:HG13	2	0.17
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG21	2	0.17
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG22	2	0.17
(1,954)	1:172:A:VAL:H	1:171:A:THR:HG23	2	0.17
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG21	3	0.17
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG22	3	0.17
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG23	3	0.17
(1,926)	1:151:A:ILE:H	1:187:A:ILE:HD11	5	0.17
(1,926)	1:151:A:ILE:H	1:187:A:ILE:HD12	5	0.17
(1,926)	1:151:A:ILE:H	1:187:A:ILE:HD13	5	0.17
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG11	9	0.17
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG12	9	0.17
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG13	9	0.17
(1,757)	1:60:A:ARG:H	1:70:A:LEU:HD21	1	0.17
(1,757)	1:60:A:ARG:H	1:70:A:LEU:HD22	1	0.17
(1,757)	1:60:A:ARG:H	1:70:A:LEU:HD23	1	0.17
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD11	3	0.17
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD12	3	0.17
(1,742)	1:49:A:ILE:H	1:91:A:ILE:HD13	3	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG11	1	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG12	1	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG13	1	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG11	6	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG12	6	0.17
(1,726)	1:42:A:GLU:H	1:144:A:VAL:HG13	6	0.17
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	7	0.17
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	7	0.17
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	7	0.17
(1,647)	1:80:A:LEU:H	1:80:A:LEU:HD21	1	0.17
(1,647)	1:80:A:LEU:H	1:80:A:LEU:HD22	1	0.17
(1,647)	1:80:A:LEU:H	1:80:A:LEU:HD23	1	0.17
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD11	9	0.17
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD12	9	0.17
(1,646)	1:80:A:LEU:H	1:80:A:LEU:HD13	9	0.17
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	6	0.17
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	6	0.17
(1,594)	1:149:A:THR:HG21	1:187:A:ILE:HD11	9	0.17
(1,594)	1:149:A:THR:HG21	1:187:A:ILE:HD12	9	0.17
(1,594)	1:149:A:THR:HG21	1:187:A:ILE:HD13	9	0.17
(1,594)	1:149:A:THR:HG22	1:187:A:ILE:HD11	9	0.17
(1,594)	1:149:A:THR:HG22	1:187:A:ILE:HD12	9	0.17
(1,594)	1:149:A:THR:HG22	1:187:A:ILE:HD13	9	0.17
(1,594)	1:149:A:THR:HG23	1:187:A:ILE:HD11	9	0.17
(1,594)	1:149:A:THR:HG23	1:187:A:ILE:HD12	9	0.17
(1,594)	1:149:A:THR:HG23	1:187:A:ILE:HD13	9	0.17
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB1	8	0.17
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB2	8	0.17
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB3	8	0.17
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB1	8	0.17
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB2	8	0.17
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB3	8	0.17
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB1	8	0.17
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB2	8	0.17
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB3	8	0.17
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	3	0.17
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	3	0.17
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	3	0.17
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	3	0.17
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	3	0.17
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	3	0.17
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	3	0.17
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	3	0.17
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	3	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD21	5	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD22	5	0.17
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD23	5	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD21	5	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD22	5	0.17
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD23	5	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD21	5	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD22	5	0.17
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD23	5	0.17
(1,569)	1:103:A:LEU:HD21	1:172:A:VAL:HG21	7	0.17
(1,569)	1:103:A:LEU:HD21	1:172:A:VAL:HG22	7	0.17
(1,569)	1:103:A:LEU:HD21	1:172:A:VAL:HG23	7	0.17
(1,569)	1:103:A:LEU:HD22	1:172:A:VAL:HG21	7	0.17
(1,569)	1:103:A:LEU:HD22	1:172:A:VAL:HG22	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:103:A:LEU:HD22	1:172:A:VAL:HG23	7	0.17
(1,569)	1:103:A:LEU:HD23	1:172:A:VAL:HG21	7	0.17
(1,569)	1:103:A:LEU:HD23	1:172:A:VAL:HG22	7	0.17
(1,569)	1:103:A:LEU:HD23	1:172:A:VAL:HG23	7	0.17
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	5	0.17
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	5	0.17
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	5	0.17
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	5	0.17
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	5	0.17
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	5	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	5	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	5	0.17
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	5	0.17
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB1	10	0.17
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB2	10	0.17
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB3	10	0.17
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB1	10	0.17
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB2	10	0.17
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB3	10	0.17
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB1	10	0.17
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB2	10	0.17
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB3	10	0.17
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD21	5	0.17
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD22	5	0.17
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD23	5	0.17
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD21	5	0.17
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD22	5	0.17
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD23	5	0.17
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD21	5	0.17
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD22	5	0.17
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD23	5	0.17
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	5	0.17
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	5	0.17
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	5	0.17
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	5	0.17
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	5	0.17
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	5	0.17
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	5	0.17
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	5	0.17
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	5	0.17
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	5	0.17
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	5	0.17
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	5	0.17
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	5	0.17
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	5	0.17
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	5	0.17
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	5	0.17
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	5	0.17
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	1	0.17
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	1	0.17
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	1	0.17
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	1	0.17
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	1	0.17
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	1	0.17
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	1	0.17
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	1	0.17
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	1	0.17
(1,383)	1:77:A:HIS:H	1:95:A:GLY:H	8	0.17
(1,365)	1:211:A:SER:H	1:214:A:ILE:H	9	0.17
(1,354)	1:196:A:GLU:H	1:199:A:GLU:H	1	0.17
(1,73)	1:110:A:ILE:HD11	1:109:A:THR:HG21	8	0.17
(1,73)	1:110:A:ILE:HD11	1:109:A:THR:HG22	8	0.17
(1,73)	1:110:A:ILE:HD11	1:109:A:THR:HG23	8	0.17
(1,73)	1:110:A:ILE:HD12	1:109:A:THR:HG21	8	0.17
(1,73)	1:110:A:ILE:HD12	1:109:A:THR:HG22	8	0.17
(1,73)	1:110:A:ILE:HD12	1:109:A:THR:HG23	8	0.17
(1,73)	1:110:A:ILE:HD13	1:109:A:THR:HG21	8	0.17
(1,73)	1:110:A:ILE:HD13	1:109:A:THR:HG22	8	0.17
(1,73)	1:110:A:ILE:HD13	1:109:A:THR:HG23	8	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD11	5	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD12	5	0.17
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD13	5	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD11	5	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD12	5	0.17
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD13	5	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD11	5	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD12	5	0.17
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD13	5	0.17
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB1	8	0.17
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB2	8	0.17
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB3	8	0.17
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB1	8	0.17
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB2	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB3	8	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB1	8	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB2	8	0.17
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB3	8	0.17
(1,42)	1:190:A:LEU:HD21	1:198:A:LEU:HD21	6	0.17
(1,42)	1:190:A:LEU:HD21	1:198:A:LEU:HD22	6	0.17
(1,42)	1:190:A:LEU:HD21	1:198:A:LEU:HD23	6	0.17
(1,42)	1:190:A:LEU:HD22	1:198:A:LEU:HD21	6	0.17
(1,42)	1:190:A:LEU:HD22	1:198:A:LEU:HD22	6	0.17
(1,42)	1:190:A:LEU:HD22	1:198:A:LEU:HD23	6	0.17
(1,42)	1:190:A:LEU:HD23	1:198:A:LEU:HD21	6	0.17
(1,42)	1:190:A:LEU:HD23	1:198:A:LEU:HD22	6	0.17
(1,42)	1:190:A:LEU:HD23	1:198:A:LEU:HD23	6	0.17
(1,41)	1:190:A:LEU:HD21	1:203:A:ILE:HD11	9	0.17
(1,41)	1:190:A:LEU:HD21	1:203:A:ILE:HD12	9	0.17
(1,41)	1:190:A:LEU:HD21	1:203:A:ILE:HD13	9	0.17
(1,41)	1:190:A:LEU:HD22	1:203:A:ILE:HD11	9	0.17
(1,41)	1:190:A:LEU:HD22	1:203:A:ILE:HD12	9	0.17
(1,41)	1:190:A:LEU:HD22	1:203:A:ILE:HD13	9	0.17
(1,41)	1:190:A:LEU:HD23	1:203:A:ILE:HD11	9	0.17
(1,41)	1:190:A:LEU:HD23	1:203:A:ILE:HD12	9	0.17
(1,41)	1:190:A:LEU:HD23	1:203:A:ILE:HD13	9	0.17
(1,15)	1:139:A:TYR:H	1:131:A:ILE:HD11	4	0.17
(1,15)	1:139:A:TYR:H	1:131:A:ILE:HD12	4	0.17
(1,15)	1:139:A:TYR:H	1:131:A:ILE:HD13	4	0.17
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD21	5	0.17
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD22	5	0.17
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD23	5	0.17
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD21	5	0.17
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD22	5	0.17
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD23	5	0.17
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD21	5	0.17
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD22	5	0.17
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD23	5	0.17
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG21	4	0.17
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG22	4	0.17
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG23	4	0.17
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG21	4	0.17
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG22	4	0.17
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG23	4	0.17
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG21	4	0.17
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG22	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG23	4	0.17
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	3	0.16
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	3	0.16
(1,1786)	1:132:A:GLY:H	1:130:A:MET:HA	7	0.16
(1,1781)	1:125:A:GLY:H	1:123:A:GLN:HA	7	0.16
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	2	0.16
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	7	0.16
(1,1702)	1:185:A:LYS:H	1:150:A:VAL:HA	10	0.16
(1,1631)	1:147:A:LYS:H	1:190:A:LEU:HA	3	0.16
(1,1519)	1:139:A:TYR:H	1:136:A:VAL:HA	1	0.16
(1,1400)	1:43:A:ILE:H	1:41:A:LYS:HA	5	0.16
(1,1076)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	3	0.16
(1,1076)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	3	0.16
(1,1076)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	3	0.16
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD11	7	0.16
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD12	7	0.16
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD13	7	0.16
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG21	5	0.16
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG22	5	0.16
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG23	5	0.16
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG21	10	0.16
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG22	10	0.16
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG23	10	0.16
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB1	3	0.16
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB2	3	0.16
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB3	3	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE1	8	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE2	8	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE3	8	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE1	9	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE2	9	0.16
(1,949)	1:169:A:SER:H	1:30:A:MET:HE3	9	0.16
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG21	2	0.16
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG22	2	0.16
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG23	2	0.16
(1,916)	1:149:A:THR:H	1:150:A:VAL:HG11	10	0.16
(1,916)	1:149:A:THR:H	1:150:A:VAL:HG12	10	0.16
(1,916)	1:149:A:THR:H	1:150:A:VAL:HG13	10	0.16
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG21	10	0.16
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG22	10	0.16
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG23	10	0.16
(1,817)	1:86:A:ASP:H	1:88:A:THR:HG21	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,817)	1:86:A:ASP:H	1:88:A:THR:HG22	2	0.16
(1,817)	1:86:A:ASP:H	1:88:A:THR:HG23	2	0.16
(1,731)	1:44:A:PHE:H	1:143:A:LEU:HD21	6	0.16
(1,731)	1:44:A:PHE:H	1:143:A:LEU:HD22	6	0.16
(1,731)	1:44:A:PHE:H	1:143:A:LEU:HD23	6	0.16
(1,701)	1:20:A:PHE:H	1:171:A:THR:HG21	9	0.16
(1,701)	1:20:A:PHE:H	1:171:A:THR:HG22	9	0.16
(1,701)	1:20:A:PHE:H	1:171:A:THR:HG23	9	0.16
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD21	10	0.16
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD22	10	0.16
(1,659)	1:107:A:LEU:H	1:107:A:LEU:HD23	10	0.16
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	8	0.16
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	8	0.16
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	8	0.16
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG11	1	0.16
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG12	1	0.16
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG13	1	0.16
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG11	1	0.16
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG12	1	0.16
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG13	1	0.16
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG11	1	0.16
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG12	1	0.16
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG13	1	0.16
(1,609)	1:190:A:LEU:HD11	1:195:A:THR:HG21	10	0.16
(1,609)	1:190:A:LEU:HD11	1:195:A:THR:HG22	10	0.16
(1,609)	1:190:A:LEU:HD11	1:195:A:THR:HG23	10	0.16
(1,609)	1:190:A:LEU:HD12	1:195:A:THR:HG21	10	0.16
(1,609)	1:190:A:LEU:HD12	1:195:A:THR:HG22	10	0.16
(1,609)	1:190:A:LEU:HD12	1:195:A:THR:HG23	10	0.16
(1,609)	1:190:A:LEU:HD13	1:195:A:THR:HG21	10	0.16
(1,609)	1:190:A:LEU:HD13	1:195:A:THR:HG22	10	0.16
(1,609)	1:190:A:LEU:HD13	1:195:A:THR:HG23	10	0.16
(1,600)	1:151:A:ILE:HD11	1:161:A:ALA:HB1	7	0.16
(1,600)	1:151:A:ILE:HD11	1:161:A:ALA:HB2	7	0.16
(1,600)	1:151:A:ILE:HD11	1:161:A:ALA:HB3	7	0.16
(1,600)	1:151:A:ILE:HD12	1:161:A:ALA:HB1	7	0.16
(1,600)	1:151:A:ILE:HD12	1:161:A:ALA:HB2	7	0.16
(1,600)	1:151:A:ILE:HD12	1:161:A:ALA:HB3	7	0.16
(1,600)	1:151:A:ILE:HD13	1:161:A:ALA:HB1	7	0.16
(1,600)	1:151:A:ILE:HD13	1:161:A:ALA:HB2	7	0.16
(1,600)	1:151:A:ILE:HD13	1:161:A:ALA:HB3	7	0.16
(1,595)	1:150:A:VAL:HG11	1:152:A:THR:HG21	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:150:A:VAL:HG11	1:152:A:THR:HG22	8	0.16
(1,595)	1:150:A:VAL:HG11	1:152:A:THR:HG23	8	0.16
(1,595)	1:150:A:VAL:HG12	1:152:A:THR:HG21	8	0.16
(1,595)	1:150:A:VAL:HG12	1:152:A:THR:HG22	8	0.16
(1,595)	1:150:A:VAL:HG12	1:152:A:THR:HG23	8	0.16
(1,595)	1:150:A:VAL:HG13	1:152:A:THR:HG21	8	0.16
(1,595)	1:150:A:VAL:HG13	1:152:A:THR:HG22	8	0.16
(1,595)	1:150:A:VAL:HG13	1:152:A:THR:HG23	8	0.16
(1,578)	1:121:A:ALA:HB1	1:130:A:MET:HE1	4	0.16
(1,578)	1:121:A:ALA:HB1	1:130:A:MET:HE2	4	0.16
(1,578)	1:121:A:ALA:HB1	1:130:A:MET:HE3	4	0.16
(1,578)	1:121:A:ALA:HB2	1:130:A:MET:HE1	4	0.16
(1,578)	1:121:A:ALA:HB2	1:130:A:MET:HE2	4	0.16
(1,578)	1:121:A:ALA:HB2	1:130:A:MET:HE3	4	0.16
(1,578)	1:121:A:ALA:HB3	1:130:A:MET:HE1	4	0.16
(1,578)	1:121:A:ALA:HB3	1:130:A:MET:HE2	4	0.16
(1,578)	1:121:A:ALA:HB3	1:130:A:MET:HE3	4	0.16
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG21	2	0.16
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG22	2	0.16
(1,553)	1:98:A:MET:HE1	1:150:A:VAL:HG23	2	0.16
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG21	2	0.16
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG22	2	0.16
(1,553)	1:98:A:MET:HE2	1:150:A:VAL:HG23	2	0.16
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG21	2	0.16
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG22	2	0.16
(1,553)	1:98:A:MET:HE3	1:150:A:VAL:HG23	2	0.16
(1,550)	1:98:A:MET:HE1	1:107:A:LEU:HD11	10	0.16
(1,550)	1:98:A:MET:HE1	1:107:A:LEU:HD12	10	0.16
(1,550)	1:98:A:MET:HE1	1:107:A:LEU:HD13	10	0.16
(1,550)	1:98:A:MET:HE2	1:107:A:LEU:HD11	10	0.16
(1,550)	1:98:A:MET:HE2	1:107:A:LEU:HD12	10	0.16
(1,550)	1:98:A:MET:HE2	1:107:A:LEU:HD13	10	0.16
(1,550)	1:98:A:MET:HE3	1:107:A:LEU:HD11	10	0.16
(1,550)	1:98:A:MET:HE3	1:107:A:LEU:HD12	10	0.16
(1,550)	1:98:A:MET:HE3	1:107:A:LEU:HD13	10	0.16
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	8	0.16
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	8	0.16
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	8	0.16
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	8	0.16
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	8	0.16
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	8	0.16
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	8	0.16
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	8	0.16
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	7	0.16
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	7	0.16
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	7	0.16
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	7	0.16
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	7	0.16
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	7	0.16
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	7	0.16
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	7	0.16
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	7	0.16
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	4	0.16
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	4	0.16
(1,532)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	4	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	4	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	4	0.16
(1,532)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	4	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	4	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	4	0.16
(1,532)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	4	0.16
(1,518)	1:64:A:LEU:HD11	1:65:A:THR:HG21	10	0.16
(1,518)	1:64:A:LEU:HD11	1:65:A:THR:HG22	10	0.16
(1,518)	1:64:A:LEU:HD11	1:65:A:THR:HG23	10	0.16
(1,518)	1:64:A:LEU:HD12	1:65:A:THR:HG21	10	0.16
(1,518)	1:64:A:LEU:HD12	1:65:A:THR:HG22	10	0.16
(1,518)	1:64:A:LEU:HD12	1:65:A:THR:HG23	10	0.16
(1,518)	1:64:A:LEU:HD13	1:65:A:THR:HG21	10	0.16
(1,518)	1:64:A:LEU:HD13	1:65:A:THR:HG22	10	0.16
(1,518)	1:64:A:LEU:HD13	1:65:A:THR:HG23	10	0.16
(1,495)	1:48:A:LEU:HD11	1:186:A:VAL:HG11	6	0.16
(1,495)	1:48:A:LEU:HD11	1:186:A:VAL:HG12	6	0.16
(1,495)	1:48:A:LEU:HD11	1:186:A:VAL:HG13	6	0.16
(1,495)	1:48:A:LEU:HD12	1:186:A:VAL:HG11	6	0.16
(1,495)	1:48:A:LEU:HD12	1:186:A:VAL:HG12	6	0.16
(1,495)	1:48:A:LEU:HD12	1:186:A:VAL:HG13	6	0.16
(1,495)	1:48:A:LEU:HD13	1:186:A:VAL:HG11	6	0.16
(1,495)	1:48:A:LEU:HD13	1:186:A:VAL:HG12	6	0.16
(1,495)	1:48:A:LEU:HD13	1:186:A:VAL:HG13	6	0.16
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD21	7	0.16
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD22	7	0.16
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD23	7	0.16
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD21	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD22	7	0.16
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD23	7	0.16
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD21	7	0.16
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD22	7	0.16
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD23	7	0.16
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD21	1	0.16
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD22	1	0.16
(1,488)	1:45:A:LEU:HD21	1:80:A:LEU:HD23	1	0.16
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD21	1	0.16
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD22	1	0.16
(1,488)	1:45:A:LEU:HD22	1:80:A:LEU:HD23	1	0.16
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD21	1	0.16
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD22	1	0.16
(1,488)	1:45:A:LEU:HD23	1:80:A:LEU:HD23	1	0.16
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD21	1	0.16
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD22	1	0.16
(1,486)	1:45:A:LEU:HD21	1:48:A:LEU:HD23	1	0.16
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD21	1	0.16
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD22	1	0.16
(1,486)	1:45:A:LEU:HD22	1:48:A:LEU:HD23	1	0.16
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD21	1	0.16
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD22	1	0.16
(1,486)	1:45:A:LEU:HD23	1:48:A:LEU:HD23	1	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD11	1	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD12	1	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD13	1	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD11	1	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD12	1	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD13	1	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD11	1	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD12	1	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD13	1	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD11	6	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD12	6	0.16
(1,483)	1:45:A:LEU:HD11	1:91:A:ILE:HD13	6	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD11	6	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD12	6	0.16
(1,483)	1:45:A:LEU:HD12	1:91:A:ILE:HD13	6	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD11	6	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD12	6	0.16
(1,483)	1:45:A:LEU:HD13	1:91:A:ILE:HD13	6	0.16
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG21	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG22	1	0.16
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG23	1	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG21	1	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG22	1	0.16
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG23	1	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG21	1	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG22	1	0.16
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG23	1	0.16
(1,278)	1:137:A:GLY:H	1:139:A:TYR:H	3	0.16
(1,261)	1:104:A:ILE:H	1:106:A:ASN:H	6	0.16
(1,196)	1:194:A:GLN:H	1:195:A:THR:H	9	0.16
(1,68)	1:131:A:ILE:HD11	1:122:A:LEU:HD21	7	0.16
(1,68)	1:131:A:ILE:HD11	1:122:A:LEU:HD22	7	0.16
(1,68)	1:131:A:ILE:HD11	1:122:A:LEU:HD23	7	0.16
(1,68)	1:131:A:ILE:HD12	1:122:A:LEU:HD21	7	0.16
(1,68)	1:131:A:ILE:HD12	1:122:A:LEU:HD22	7	0.16
(1,68)	1:131:A:ILE:HD12	1:122:A:LEU:HD23	7	0.16
(1,68)	1:131:A:ILE:HD13	1:122:A:LEU:HD21	7	0.16
(1,68)	1:131:A:ILE:HD13	1:122:A:LEU:HD22	7	0.16
(1,68)	1:131:A:ILE:HD13	1:122:A:LEU:HD23	7	0.16
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD11	3	0.16
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD12	3	0.16
(1,64)	1:206:A:ILE:HD11	1:203:A:ILE:HD13	3	0.16
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD11	3	0.16
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD12	3	0.16
(1,64)	1:206:A:ILE:HD12	1:203:A:ILE:HD13	3	0.16
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD11	3	0.16
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD12	3	0.16
(1,64)	1:206:A:ILE:HD13	1:203:A:ILE:HD13	3	0.16
(1,1798)	1:124:A:ALA:H	1:121:A:ALA:HA	6	0.15
(1,1781)	1:125:A:GLY:H	1:123:A:GLN:HA	2	0.15
(1,1724)	1:191:A:LYS:H	1:145:A:ALA:HA	1	0.15
(1,1724)	1:191:A:LYS:H	1:145:A:ALA:HA	6	0.15
(1,1637)	1:149:A:THR:H	1:188:A:LEU:HA	2	0.15
(1,1539)	1:214:A:ILE:H	1:211:A:SER:HA	9	0.15
(1,1518)	1:107:A:LEU:H	1:104:A:ILE:HA	6	0.15
(1,1484)	1:35:A:ASN:H	1:32:A:LEU:HA	1	0.15
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA2	3	0.15
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA3	3	0.15
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA2	1	0.15
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA3	1	0.15
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD11	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD12	6	0.15
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD13	6	0.15
(1,1022)	1:198:A:LEU:H	1:195:A:THR:HG21	6	0.15
(1,1022)	1:198:A:LEU:H	1:195:A:THR:HG22	6	0.15
(1,1022)	1:198:A:LEU:H	1:195:A:THR:HG23	6	0.15
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD11	6	0.15
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD12	6	0.15
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD13	6	0.15
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB1	2	0.15
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB2	2	0.15
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB3	2	0.15
(1,964)	1:182:A:ARG:H	1:180:A:MET:HE1	9	0.15
(1,964)	1:182:A:ARG:H	1:180:A:MET:HE2	9	0.15
(1,964)	1:182:A:ARG:H	1:180:A:MET:HE3	9	0.15
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG11	9	0.15
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG12	9	0.15
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG13	9	0.15
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD11	6	0.15
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD12	6	0.15
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD13	6	0.15
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG21	2	0.15
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG22	2	0.15
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG23	2	0.15
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG21	9	0.15
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG22	9	0.15
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG23	9	0.15
(1,812)	1:83:A:ASN:H	1:198:A:LEU:HD21	6	0.15
(1,812)	1:83:A:ASN:H	1:198:A:LEU:HD22	6	0.15
(1,812)	1:83:A:ASN:H	1:198:A:LEU:HD23	6	0.15
(1,788)	1:77:A:HIS:H	1:76:A:LEU:HD11	5	0.15
(1,788)	1:77:A:HIS:H	1:76:A:LEU:HD12	5	0.15
(1,788)	1:77:A:HIS:H	1:76:A:LEU:HD13	5	0.15
(1,768)	1:63:A:SER:H	1:59:A:ILE:HD11	9	0.15
(1,768)	1:63:A:SER:H	1:59:A:ILE:HD12	9	0.15
(1,768)	1:63:A:SER:H	1:59:A:ILE:HD13	9	0.15
(1,740)	1:49:A:ILE:H	1:48:A:LEU:HD11	5	0.15
(1,740)	1:49:A:ILE:H	1:48:A:LEU:HD12	5	0.15
(1,740)	1:49:A:ILE:H	1:48:A:LEU:HD13	5	0.15
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	5	0.15
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	5	0.15
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	5	0.15
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD11	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD12	1	0.15
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD13	1	0.15
(1,658)	1:107:A:LEU:H	1:107:A:LEU:HD11	4	0.15
(1,658)	1:107:A:LEU:H	1:107:A:LEU:HD12	4	0.15
(1,658)	1:107:A:LEU:H	1:107:A:LEU:HD13	4	0.15
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD11	6	0.15
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD12	6	0.15
(1,643)	1:76:A:LEU:H	1:76:A:LEU:HD13	6	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	5	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	5	0.15
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	5	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	5	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	5	0.15
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	5	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	5	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	5	0.15
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	5	0.15
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD21	10	0.15
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD22	10	0.15
(1,589)	1:144:A:VAL:HG11	1:190:A:LEU:HD23	10	0.15
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD21	10	0.15
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD22	10	0.15
(1,589)	1:144:A:VAL:HG12	1:190:A:LEU:HD23	10	0.15
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD21	10	0.15
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD22	10	0.15
(1,589)	1:144:A:VAL:HG13	1:190:A:LEU:HD23	10	0.15
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE1	9	0.15
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE2	9	0.15
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE3	9	0.15
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE1	9	0.15
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE2	9	0.15
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE3	9	0.15
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE1	9	0.15
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE2	9	0.15
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE3	9	0.15
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	6	0.15
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	6	0.15
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	6	0.15
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	6	0.15
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	6	0.15
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	6	0.15
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	6	0.15
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	6	0.15
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD21	5	0.15
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD22	5	0.15
(1,536)	1:89:A:LEU:HD21	1:190:A:LEU:HD23	5	0.15
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD21	5	0.15
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD22	5	0.15
(1,536)	1:89:A:LEU:HD22	1:190:A:LEU:HD23	5	0.15
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD21	5	0.15
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD22	5	0.15
(1,536)	1:89:A:LEU:HD23	1:190:A:LEU:HD23	5	0.15
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD21	4	0.15
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD22	4	0.15
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD23	4	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD21	4	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD22	4	0.15
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD23	4	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD21	4	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD22	4	0.15
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD23	4	0.15
(1,531)	1:81:A:ILE:HD11	1:92:A:VAL:HG11	6	0.15
(1,531)	1:81:A:ILE:HD11	1:92:A:VAL:HG12	6	0.15
(1,531)	1:81:A:ILE:HD11	1:92:A:VAL:HG13	6	0.15
(1,531)	1:81:A:ILE:HD12	1:92:A:VAL:HG11	6	0.15
(1,531)	1:81:A:ILE:HD12	1:92:A:VAL:HG12	6	0.15
(1,531)	1:81:A:ILE:HD12	1:92:A:VAL:HG13	6	0.15
(1,531)	1:81:A:ILE:HD13	1:92:A:VAL:HG11	6	0.15
(1,531)	1:81:A:ILE:HD13	1:92:A:VAL:HG12	6	0.15
(1,531)	1:81:A:ILE:HD13	1:92:A:VAL:HG13	6	0.15
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD11	2	0.15
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD12	2	0.15
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD13	2	0.15
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD11	2	0.15
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD12	2	0.15
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD13	2	0.15
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD11	2	0.15
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD12	2	0.15
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD13	2	0.15
(1,521)	1:78:A:ILE:HD11	1:214:A:ILE:HD11	3	0.15
(1,521)	1:78:A:ILE:HD11	1:214:A:ILE:HD12	3	0.15
(1,521)	1:78:A:ILE:HD11	1:214:A:ILE:HD13	3	0.15
(1,521)	1:78:A:ILE:HD12	1:214:A:ILE:HD11	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,521)	1:78:A:ILE:HD12	1:214:A:ILE:HD12	3	0.15
(1,521)	1:78:A:ILE:HD12	1:214:A:ILE:HD13	3	0.15
(1,521)	1:78:A:ILE:HD13	1:214:A:ILE:HD11	3	0.15
(1,521)	1:78:A:ILE:HD13	1:214:A:ILE:HD12	3	0.15
(1,521)	1:78:A:ILE:HD13	1:214:A:ILE:HD13	3	0.15
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD11	2	0.15
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD12	2	0.15
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD13	2	0.15
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD11	2	0.15
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD12	2	0.15
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD13	2	0.15
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD11	2	0.15
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD12	2	0.15
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD13	2	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	3	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	3	0.15
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	3	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	3	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	3	0.15
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	3	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	3	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	3	0.15
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	3	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB1	2	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB2	2	0.15
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB3	2	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB1	2	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB2	2	0.15
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB3	2	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB1	2	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB2	2	0.15
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB3	2	0.15
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	5	0.15
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	5	0.15
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	5	0.15
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	5	0.15
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	5	0.15
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	5	0.15
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	5	0.15
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	5	0.15
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	5	0.15
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD21	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD22	4	0.15
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD23	4	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD21	4	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD22	4	0.15
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD23	4	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD21	4	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD22	4	0.15
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD23	4	0.15
(1,365)	1:211:A:SER:H	1:214:A:ILE:H	2	0.15
(1,324)	1:62:A:GLU:H	1:65:A:THR:H	8	0.15
(1,263)	1:114:A:GLY:H	1:116:A:LYS:H	4	0.15
(1,263)	1:114:A:GLY:H	1:116:A:LYS:H	7	0.15
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG21	5	0.15
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG22	5	0.15
(1,53)	1:180:A:MET:HE1	1:152:A:THR:HG23	5	0.15
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG21	5	0.15
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG22	5	0.15
(1,53)	1:180:A:MET:HE2	1:152:A:THR:HG23	5	0.15
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG21	5	0.15
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG22	5	0.15
(1,53)	1:180:A:MET:HE3	1:152:A:THR:HG23	5	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD11	10	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD12	10	0.15
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD13	10	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD11	10	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD12	10	0.15
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD13	10	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD11	10	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD12	10	0.15
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD13	10	0.15
(1,9)	1:89:A:LEU:HD21	1:198:A:LEU:HD11	9	0.15
(1,9)	1:89:A:LEU:HD21	1:198:A:LEU:HD12	9	0.15
(1,9)	1:89:A:LEU:HD21	1:198:A:LEU:HD13	9	0.15
(1,9)	1:89:A:LEU:HD22	1:198:A:LEU:HD11	9	0.15
(1,9)	1:89:A:LEU:HD22	1:198:A:LEU:HD12	9	0.15
(1,9)	1:89:A:LEU:HD22	1:198:A:LEU:HD13	9	0.15
(1,9)	1:89:A:LEU:HD23	1:198:A:LEU:HD11	9	0.15
(1,9)	1:89:A:LEU:HD23	1:198:A:LEU:HD12	9	0.15
(1,9)	1:89:A:LEU:HD23	1:198:A:LEU:HD13	9	0.15
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	2	0.14
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	2	0.14
(1,1799)	1:125:A:GLY:H	1:122:A:LEU:HA	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1799)	1:125:A:GLY:H	1:122:A:LEU:HA	8	0.14
(1,1689)	1:173:A:ARG:H	1:162:A:TRP:HA	4	0.14
(1,1653)	1:153:A:LYS:H	1:184:A:THR:HA	2	0.14
(1,1565)	1:64:A:LEU:H	1:60:A:ARG:HA	2	0.14
(1,1539)	1:214:A:ILE:H	1:211:A:SER:HA	5	0.14
(1,1539)	1:214:A:ILE:H	1:211:A:SER:HA	8	0.14
(1,1491)	1:50:A:SER:H	1:47:A:GLU:HA	10	0.14
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA2	8	0.14
(1,1445)	1:139:A:TYR:H	1:137:A:GLY:HA3	8	0.14
(1,1399)	1:41:A:LYS:H	1:39:A:SER:HA	2	0.14
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD11	9	0.14
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD12	9	0.14
(1,1066)	1:221:A:PHE:H	1:81:A:ILE:HD13	9	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD11	4	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD12	4	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD13	4	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD11	6	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD12	6	0.14
(1,1063)	1:218:A:ILE:H	1:78:A:ILE:HD13	6	0.14
(1,1039)	1:204:A:LYS:H	1:206:A:ILE:HD11	10	0.14
(1,1039)	1:204:A:LYS:H	1:206:A:ILE:HD12	10	0.14
(1,1039)	1:204:A:LYS:H	1:206:A:ILE:HD13	10	0.14
(1,1011)	1:194:A:GLN:H	1:195:A:THR:HG21	6	0.14
(1,1011)	1:194:A:GLN:H	1:195:A:THR:HG22	6	0.14
(1,1011)	1:194:A:GLN:H	1:195:A:THR:HG23	6	0.14
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD11	10	0.14
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD12	10	0.14
(1,1010)	1:194:A:GLN:H	1:190:A:LEU:HD13	10	0.14
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG11	3	0.14
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG12	3	0.14
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG13	3	0.14
(1,976)	1:186:A:VAL:H	1:92:A:VAL:HG11	3	0.14
(1,976)	1:186:A:VAL:H	1:92:A:VAL:HG12	3	0.14
(1,976)	1:186:A:VAL:H	1:92:A:VAL:HG13	3	0.14
(1,971)	1:185:A:LYS:H	1:180:A:MET:HE1	9	0.14
(1,971)	1:185:A:LYS:H	1:180:A:MET:HE2	9	0.14
(1,971)	1:185:A:LYS:H	1:180:A:MET:HE3	9	0.14
(1,932)	1:161:A:ALA:H	1:103:A:LEU:HD21	5	0.14
(1,932)	1:161:A:ALA:H	1:103:A:LEU:HD22	5	0.14
(1,932)	1:161:A:ALA:H	1:103:A:LEU:HD23	5	0.14
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE1	5	0.14
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE2	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE3	5	0.14
(1,920)	1:150:A:VAL:H	1:151:A:ILE:HD11	1	0.14
(1,920)	1:150:A:VAL:H	1:151:A:ILE:HD12	1	0.14
(1,920)	1:150:A:VAL:H	1:151:A:ILE:HD13	1	0.14
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD11	3	0.14
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD12	3	0.14
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD13	3	0.14
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG21	10	0.14
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG22	10	0.14
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG23	10	0.14
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD11	7	0.14
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD12	7	0.14
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD13	7	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD11	1	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD12	1	0.14
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD13	1	0.14
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB1	4	0.14
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB2	4	0.14
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB3	4	0.14
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	9	0.14
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	9	0.14
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	9	0.14
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB1	10	0.14
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB2	10	0.14
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB3	10	0.14
(1,698)	1:18:A:GLU:H	1:172:A:VAL:HG11	9	0.14
(1,698)	1:18:A:GLU:H	1:172:A:VAL:HG12	9	0.14
(1,698)	1:18:A:GLU:H	1:172:A:VAL:HG13	9	0.14
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD11	3	0.14
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD12	3	0.14
(1,638)	1:59:A:ILE:H	1:59:A:ILE:HD13	3	0.14
(1,628)	1:32:A:LEU:H	1:32:A:LEU:HD11	7	0.14
(1,628)	1:32:A:LEU:H	1:32:A:LEU:HD12	7	0.14
(1,628)	1:32:A:LEU:H	1:32:A:LEU:HD13	7	0.14
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD11	8	0.14
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD12	8	0.14
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD13	8	0.14
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD11	8	0.14
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD12	8	0.14
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD13	8	0.14
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD11	8	0.14
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD12	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD13	8	0.14
(1,602)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	10	0.14
(1,602)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	10	0.14
(1,602)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	10	0.14
(1,602)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	10	0.14
(1,602)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	10	0.14
(1,602)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	10	0.14
(1,602)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	10	0.14
(1,602)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	10	0.14
(1,602)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	10	0.14
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	10	0.14
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	10	0.14
(1,596)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	10	0.14
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	10	0.14
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	10	0.14
(1,596)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	10	0.14
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	10	0.14
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	10	0.14
(1,596)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	10	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB1	2	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB2	2	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB3	2	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB1	2	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB2	2	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB3	2	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB1	2	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB2	2	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB3	2	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB1	9	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB2	9	0.14
(1,593)	1:149:A:THR:HG21	1:161:A:ALA:HB3	9	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB1	9	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB2	9	0.14
(1,593)	1:149:A:THR:HG22	1:161:A:ALA:HB3	9	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB1	9	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB2	9	0.14
(1,593)	1:149:A:THR:HG23	1:161:A:ALA:HB3	9	0.14
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB1	4	0.14
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB2	4	0.14
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB3	4	0.14
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB1	4	0.14
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB2	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB3	4	0.14
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB1	4	0.14
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB2	4	0.14
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB3	4	0.14
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	2	0.14
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	2	0.14
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	2	0.14
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	2	0.14
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	2	0.14
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	2	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	2	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	2	0.14
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	2	0.14
(1,525)	1:80:A:LEU:HD11	1:218:A:ILE:HD11	5	0.14
(1,525)	1:80:A:LEU:HD11	1:218:A:ILE:HD12	5	0.14
(1,525)	1:80:A:LEU:HD11	1:218:A:ILE:HD13	5	0.14
(1,525)	1:80:A:LEU:HD12	1:218:A:ILE:HD11	5	0.14
(1,525)	1:80:A:LEU:HD12	1:218:A:ILE:HD12	5	0.14
(1,525)	1:80:A:LEU:HD12	1:218:A:ILE:HD13	5	0.14
(1,525)	1:80:A:LEU:HD13	1:218:A:ILE:HD11	5	0.14
(1,525)	1:80:A:LEU:HD13	1:218:A:ILE:HD12	5	0.14
(1,525)	1:80:A:LEU:HD13	1:218:A:ILE:HD13	5	0.14
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	6	0.14
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	6	0.14
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	6	0.14
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	6	0.14
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	6	0.14
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	6	0.14
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	6	0.14
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	6	0.14
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	6	0.14
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD11	7	0.14
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD12	7	0.14
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD13	7	0.14
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD11	7	0.14
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD12	7	0.14
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD13	7	0.14
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD11	7	0.14
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD12	7	0.14
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD13	7	0.14
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB1	10	0.14
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB2	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:34:A:ILE:HD11	1:166:A:ALA:HB3	10	0.14
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB1	10	0.14
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB2	10	0.14
(1,478)	1:34:A:ILE:HD12	1:166:A:ALA:HB3	10	0.14
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB1	10	0.14
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB2	10	0.14
(1,478)	1:34:A:ILE:HD13	1:166:A:ALA:HB3	10	0.14
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD11	6	0.14
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD12	6	0.14
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD13	6	0.14
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD11	6	0.14
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD12	6	0.14
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD13	6	0.14
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD11	6	0.14
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD12	6	0.14
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD13	6	0.14
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD21	6	0.14
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD22	6	0.14
(1,471)	1:29:A:LEU:HD11	1:32:A:LEU:HD23	6	0.14
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD21	6	0.14
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD22	6	0.14
(1,471)	1:29:A:LEU:HD12	1:32:A:LEU:HD23	6	0.14
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD21	6	0.14
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD22	6	0.14
(1,471)	1:29:A:LEU:HD13	1:32:A:LEU:HD23	6	0.14
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG21	1	0.14
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG22	1	0.14
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG23	1	0.14
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG21	1	0.14
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG22	1	0.14
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG23	1	0.14
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG21	1	0.14
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG22	1	0.14
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG23	1	0.14
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG21	10	0.14
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG22	10	0.14
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG23	10	0.14
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG21	10	0.14
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG22	10	0.14
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG23	10	0.14
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG21	10	0.14
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG22	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG23	10	0.14
(1,4)	1:130:A:MET:HE1	1:64:A:LEU:HD11	2	0.14
(1,4)	1:130:A:MET:HE1	1:64:A:LEU:HD12	2	0.14
(1,4)	1:130:A:MET:HE1	1:64:A:LEU:HD13	2	0.14
(1,4)	1:130:A:MET:HE2	1:64:A:LEU:HD11	2	0.14
(1,4)	1:130:A:MET:HE2	1:64:A:LEU:HD12	2	0.14
(1,4)	1:130:A:MET:HE2	1:64:A:LEU:HD13	2	0.14
(1,4)	1:130:A:MET:HE3	1:64:A:LEU:HD11	2	0.14
(1,4)	1:130:A:MET:HE3	1:64:A:LEU:HD12	2	0.14
(1,4)	1:130:A:MET:HE3	1:64:A:LEU:HD13	2	0.14
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	1	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	1	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	4	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	4	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA2	6	0.13
(1,1813)	1:136:A:VAL:H	1:132:A:GLY:HA3	6	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA2	2	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA3	2	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA2	4	0.13
(1,1804)	1:135:A:GLY:H	1:132:A:GLY:HA3	4	0.13
(1,1802)	1:133:A:GLN:H	1:130:A:MET:HA	10	0.13
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	1	0.13
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	4	0.13
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	5	0.13
(1,1761)	1:125:A:GLY:H	1:124:A:ALA:HA	8	0.13
(1,1710)	1:187:A:ILE:H	1:148:A:VAL:HA	2	0.13
(1,1663)	1:162:A:TRP:H	1:150:A:VAL:HA	7	0.13
(1,1637)	1:149:A:THR:H	1:188:A:LEU:HA	5	0.13
(1,1565)	1:64:A:LEU:H	1:60:A:ARG:HA	8	0.13
(1,1526)	1:197:A:TYR:H	1:194:A:GLN:HA	5	0.13
(1,1506)	1:65:A:THR:H	1:62:A:GLU:HA	2	0.13
(1,1476)	1:216:A:TYR:H	1:214:A:ILE:HA	5	0.13
(1,1444)	1:138:A:PHE:H	1:136:A:VAL:HA	8	0.13
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD11	7	0.13
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD12	7	0.13
(1,1060)	1:216:A:TYR:H	1:78:A:ILE:HD13	7	0.13
(1,1056)	1:213:A:PHE:H	1:214:A:ILE:HD11	6	0.13
(1,1056)	1:213:A:PHE:H	1:214:A:ILE:HD12	6	0.13
(1,1056)	1:213:A:PHE:H	1:214:A:ILE:HD13	6	0.13
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD11	9	0.13
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD12	9	0.13
(1,1031)	1:201:A:ARG:H	1:203:A:ILE:HD13	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG21	6	0.13
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG22	6	0.13
(1,979)	1:186:A:VAL:H	1:184:A:THR:HG23	6	0.13
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	4	0.13
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	4	0.13
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	4	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG21	9	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG22	9	0.13
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG23	9	0.13
(1,951)	1:170:A:PHE:H	1:19:A:THR:HG21	7	0.13
(1,951)	1:170:A:PHE:H	1:19:A:THR:HG22	7	0.13
(1,951)	1:170:A:PHE:H	1:19:A:THR:HG23	7	0.13
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB1	1	0.13
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB2	1	0.13
(1,950)	1:169:A:SER:H	1:166:A:ALA:HB3	1	0.13
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG11	8	0.13
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG12	8	0.13
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG13	8	0.13
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG21	9	0.13
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG22	9	0.13
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG23	9	0.13
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG21	1	0.13
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG22	1	0.13
(1,889)	1:137:A:GLY:H	1:136:A:VAL:HG23	1	0.13
(1,886)	1:134:A:PHE:H	1:136:A:VAL:HG11	5	0.13
(1,886)	1:134:A:PHE:H	1:136:A:VAL:HG12	5	0.13
(1,886)	1:134:A:PHE:H	1:136:A:VAL:HG13	5	0.13
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG11	2	0.13
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG12	2	0.13
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG13	2	0.13
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG21	1	0.13
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG22	1	0.13
(1,844)	1:93:A:ASP:H	1:184:A:THR:HG23	1	0.13
(1,842)	1:93:A:ASP:H	1:94:A:THR:HG21	7	0.13
(1,842)	1:93:A:ASP:H	1:94:A:THR:HG22	7	0.13
(1,842)	1:93:A:ASP:H	1:94:A:THR:HG23	7	0.13
(1,841)	1:93:A:ASP:H	1:92:A:VAL:HG21	6	0.13
(1,841)	1:93:A:ASP:H	1:92:A:VAL:HG22	6	0.13
(1,841)	1:93:A:ASP:H	1:92:A:VAL:HG23	6	0.13
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG21	4	0.13
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG22	4	0.13
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG23	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:91:A:ILE:H	1:188:A:LEU:HD11	9	0.13
(1,835)	1:91:A:ILE:H	1:188:A:LEU:HD12	9	0.13
(1,835)	1:91:A:ILE:H	1:188:A:LEU:HD13	9	0.13
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG21	4	0.13
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG22	4	0.13
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG23	4	0.13
(1,818)	1:86:A:ASP:H	1:198:A:LEU:HD11	7	0.13
(1,818)	1:86:A:ASP:H	1:198:A:LEU:HD12	7	0.13
(1,818)	1:86:A:ASP:H	1:198:A:LEU:HD13	7	0.13
(1,799)	1:80:A:LEU:H	1:219:A:THR:HG21	1	0.13
(1,799)	1:80:A:LEU:H	1:219:A:THR:HG22	1	0.13
(1,799)	1:80:A:LEU:H	1:219:A:THR:HG23	1	0.13
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD11	8	0.13
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD12	8	0.13
(1,794)	1:79:A:ASN:H	1:81:A:ILE:HD13	8	0.13
(1,770)	1:63:A:SER:H	1:70:A:LEU:HD21	2	0.13
(1,770)	1:63:A:SER:H	1:70:A:LEU:HD22	2	0.13
(1,770)	1:63:A:SER:H	1:70:A:LEU:HD23	2	0.13
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD11	10	0.13
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD12	10	0.13
(1,763)	1:61:A:TYR:H	1:76:A:LEU:HD13	10	0.13
(1,725)	1:42:A:GLU:H	1:143:A:LEU:HD11	5	0.13
(1,725)	1:42:A:GLU:H	1:143:A:LEU:HD12	5	0.13
(1,725)	1:42:A:GLU:H	1:143:A:LEU:HD13	5	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	2	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	2	0.13
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	2	0.13
(1,686)	1:203:A:ILE:H	1:203:A:ILE:HD11	8	0.13
(1,686)	1:203:A:ILE:H	1:203:A:ILE:HD12	8	0.13
(1,686)	1:203:A:ILE:H	1:203:A:ILE:HD13	8	0.13
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD11	8	0.13
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD12	8	0.13
(1,663)	1:131:A:ILE:H	1:131:A:ILE:HD13	8	0.13
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD21	6	0.13
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD22	6	0.13
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD23	6	0.13
(1,651)	1:91:A:ILE:H	1:91:A:ILE:HD11	6	0.13
(1,651)	1:91:A:ILE:H	1:91:A:ILE:HD12	6	0.13
(1,651)	1:91:A:ILE:H	1:91:A:ILE:HD13	6	0.13
(1,634)	1:48:A:LEU:H	1:48:A:LEU:HD21	10	0.13
(1,634)	1:48:A:LEU:H	1:48:A:LEU:HD22	10	0.13
(1,634)	1:48:A:LEU:H	1:48:A:LEU:HD23	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG21	9	0.13
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG22	9	0.13
(1,624)	1:17:A:VAL:H	1:17:A:VAL:HG23	9	0.13
(1,597)	1:150:A:VAL:HG21	1:152:A:THR:HG21	4	0.13
(1,597)	1:150:A:VAL:HG21	1:152:A:THR:HG22	4	0.13
(1,597)	1:150:A:VAL:HG21	1:152:A:THR:HG23	4	0.13
(1,597)	1:150:A:VAL:HG22	1:152:A:THR:HG21	4	0.13
(1,597)	1:150:A:VAL:HG22	1:152:A:THR:HG22	4	0.13
(1,597)	1:150:A:VAL:HG22	1:152:A:THR:HG23	4	0.13
(1,597)	1:150:A:VAL:HG23	1:152:A:THR:HG21	4	0.13
(1,597)	1:150:A:VAL:HG23	1:152:A:THR:HG22	4	0.13
(1,597)	1:150:A:VAL:HG23	1:152:A:THR:HG23	4	0.13
(1,587)	1:144:A:VAL:HG11	1:188:A:LEU:HD11	1	0.13
(1,587)	1:144:A:VAL:HG11	1:188:A:LEU:HD12	1	0.13
(1,587)	1:144:A:VAL:HG11	1:188:A:LEU:HD13	1	0.13
(1,587)	1:144:A:VAL:HG12	1:188:A:LEU:HD11	1	0.13
(1,587)	1:144:A:VAL:HG12	1:188:A:LEU:HD12	1	0.13
(1,587)	1:144:A:VAL:HG12	1:188:A:LEU:HD13	1	0.13
(1,587)	1:144:A:VAL:HG13	1:188:A:LEU:HD11	1	0.13
(1,587)	1:144:A:VAL:HG13	1:188:A:LEU:HD12	1	0.13
(1,587)	1:144:A:VAL:HG13	1:188:A:LEU:HD13	1	0.13
(1,579)	1:122:A:LEU:HD11	1:126:A:ALA:HB1	7	0.13
(1,579)	1:122:A:LEU:HD11	1:126:A:ALA:HB2	7	0.13
(1,579)	1:122:A:LEU:HD11	1:126:A:ALA:HB3	7	0.13
(1,579)	1:122:A:LEU:HD12	1:126:A:ALA:HB1	7	0.13
(1,579)	1:122:A:LEU:HD12	1:126:A:ALA:HB2	7	0.13
(1,579)	1:122:A:LEU:HD12	1:126:A:ALA:HB3	7	0.13
(1,579)	1:122:A:LEU:HD13	1:126:A:ALA:HB1	7	0.13
(1,579)	1:122:A:LEU:HD13	1:126:A:ALA:HB2	7	0.13
(1,579)	1:122:A:LEU:HD13	1:126:A:ALA:HB3	7	0.13
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	5	0.13
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	5	0.13
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	5	0.13
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	5	0.13
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	5	0.13
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	5	0.13
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	5	0.13
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	5	0.13
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	5	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD21	5	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD22	5	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD23	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD21	5	0.13
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD22	5	0.13
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD23	5	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD21	5	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD22	5	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD23	5	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD21	7	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD22	7	0.13
(1,559)	1:103:A:LEU:HD11	1:107:A:LEU:HD23	7	0.13
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD21	7	0.13
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD22	7	0.13
(1,559)	1:103:A:LEU:HD12	1:107:A:LEU:HD23	7	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD21	7	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD22	7	0.13
(1,559)	1:103:A:LEU:HD13	1:107:A:LEU:HD23	7	0.13
(1,557)	1:103:A:LEU:HD11	1:104:A:ILE:HD11	7	0.13
(1,557)	1:103:A:LEU:HD11	1:104:A:ILE:HD12	7	0.13
(1,557)	1:103:A:LEU:HD11	1:104:A:ILE:HD13	7	0.13
(1,557)	1:103:A:LEU:HD12	1:104:A:ILE:HD11	7	0.13
(1,557)	1:103:A:LEU:HD12	1:104:A:ILE:HD12	7	0.13
(1,557)	1:103:A:LEU:HD12	1:104:A:ILE:HD13	7	0.13
(1,557)	1:103:A:LEU:HD13	1:104:A:ILE:HD11	7	0.13
(1,557)	1:103:A:LEU:HD13	1:104:A:ILE:HD12	7	0.13
(1,557)	1:103:A:LEU:HD13	1:104:A:ILE:HD13	7	0.13
(1,555)	1:98:A:MET:HE1	1:184:A:THR:HG21	4	0.13
(1,555)	1:98:A:MET:HE1	1:184:A:THR:HG22	4	0.13
(1,555)	1:98:A:MET:HE1	1:184:A:THR:HG23	4	0.13
(1,555)	1:98:A:MET:HE2	1:184:A:THR:HG21	4	0.13
(1,555)	1:98:A:MET:HE2	1:184:A:THR:HG22	4	0.13
(1,555)	1:98:A:MET:HE2	1:184:A:THR:HG23	4	0.13
(1,555)	1:98:A:MET:HE3	1:184:A:THR:HG21	4	0.13
(1,555)	1:98:A:MET:HE3	1:184:A:THR:HG22	4	0.13
(1,555)	1:98:A:MET:HE3	1:184:A:THR:HG23	4	0.13
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD21	10	0.13
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD22	10	0.13
(1,551)	1:98:A:MET:HE1	1:107:A:LEU:HD23	10	0.13
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD21	10	0.13
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD22	10	0.13
(1,551)	1:98:A:MET:HE2	1:107:A:LEU:HD23	10	0.13
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD21	10	0.13
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD22	10	0.13
(1,551)	1:98:A:MET:HE3	1:107:A:LEU:HD23	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD21	9	0.13
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD22	9	0.13
(1,549)	1:98:A:MET:HE1	1:103:A:LEU:HD23	9	0.13
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD21	9	0.13
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD22	9	0.13
(1,549)	1:98:A:MET:HE2	1:103:A:LEU:HD23	9	0.13
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD21	9	0.13
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD22	9	0.13
(1,549)	1:98:A:MET:HE3	1:103:A:LEU:HD23	9	0.13
(1,544)	1:92:A:VAL:HG11	1:180:A:MET:HE1	5	0.13
(1,544)	1:92:A:VAL:HG11	1:180:A:MET:HE2	5	0.13
(1,544)	1:92:A:VAL:HG11	1:180:A:MET:HE3	5	0.13
(1,544)	1:92:A:VAL:HG12	1:180:A:MET:HE1	5	0.13
(1,544)	1:92:A:VAL:HG12	1:180:A:MET:HE2	5	0.13
(1,544)	1:92:A:VAL:HG12	1:180:A:MET:HE3	5	0.13
(1,544)	1:92:A:VAL:HG13	1:180:A:MET:HE1	5	0.13
(1,544)	1:92:A:VAL:HG13	1:180:A:MET:HE2	5	0.13
(1,544)	1:92:A:VAL:HG13	1:180:A:MET:HE3	5	0.13
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	4	0.13
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	4	0.13
(1,543)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	4	0.13
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	4	0.13
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	4	0.13
(1,543)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	4	0.13
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	4	0.13
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	4	0.13
(1,543)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	4	0.13
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	2	0.13
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	2	0.13
(1,537)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	2	0.13
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	2	0.13
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	2	0.13
(1,537)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	2	0.13
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	2	0.13
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	2	0.13
(1,537)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	2	0.13
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	10	0.13
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	10	0.13
(1,535)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	10	0.13
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	10	0.13
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	10	0.13
(1,535)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	10	0.13
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	10	0.13
(1,535)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	10	0.13
(1,529)	1:80:A:LEU:HD21	1:218:A:ILE:HD11	1	0.13
(1,529)	1:80:A:LEU:HD21	1:218:A:ILE:HD12	1	0.13
(1,529)	1:80:A:LEU:HD21	1:218:A:ILE:HD13	1	0.13
(1,529)	1:80:A:LEU:HD22	1:218:A:ILE:HD11	1	0.13
(1,529)	1:80:A:LEU:HD22	1:218:A:ILE:HD12	1	0.13
(1,529)	1:80:A:LEU:HD22	1:218:A:ILE:HD13	1	0.13
(1,529)	1:80:A:LEU:HD23	1:218:A:ILE:HD11	1	0.13
(1,529)	1:80:A:LEU:HD23	1:218:A:ILE:HD12	1	0.13
(1,529)	1:80:A:LEU:HD23	1:218:A:ILE:HD13	1	0.13
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	6	0.13
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	6	0.13
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	6	0.13
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	6	0.13
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	6	0.13
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	6	0.13
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	6	0.13
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	6	0.13
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	6	0.13
(1,519)	1:70:A:LEU:HD11	1:76:A:LEU:HD11	2	0.13
(1,519)	1:70:A:LEU:HD11	1:76:A:LEU:HD12	2	0.13
(1,519)	1:70:A:LEU:HD11	1:76:A:LEU:HD13	2	0.13
(1,519)	1:70:A:LEU:HD12	1:76:A:LEU:HD11	2	0.13
(1,519)	1:70:A:LEU:HD12	1:76:A:LEU:HD12	2	0.13
(1,519)	1:70:A:LEU:HD12	1:76:A:LEU:HD13	2	0.13
(1,519)	1:70:A:LEU:HD13	1:76:A:LEU:HD11	2	0.13
(1,519)	1:70:A:LEU:HD13	1:76:A:LEU:HD12	2	0.13
(1,519)	1:70:A:LEU:HD13	1:76:A:LEU:HD13	2	0.13
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	8	0.13
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	8	0.13
(1,507)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	8	0.13
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	8	0.13
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	8	0.13
(1,507)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	8	0.13
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	8	0.13
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	8	0.13
(1,507)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	8	0.13
(1,498)	1:48:A:LEU:HD21	1:141:A:ALA:HB1	2	0.13
(1,498)	1:48:A:LEU:HD21	1:141:A:ALA:HB2	2	0.13
(1,498)	1:48:A:LEU:HD21	1:141:A:ALA:HB3	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,498)	1:48:A:LEU:HD22	1:141:A:ALA:HB1	2	0.13
(1,498)	1:48:A:LEU:HD22	1:141:A:ALA:HB2	2	0.13
(1,498)	1:48:A:LEU:HD22	1:141:A:ALA:HB3	2	0.13
(1,498)	1:48:A:LEU:HD23	1:141:A:ALA:HB1	2	0.13
(1,498)	1:48:A:LEU:HD23	1:141:A:ALA:HB2	2	0.13
(1,498)	1:48:A:LEU:HD23	1:141:A:ALA:HB3	2	0.13
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD11	5	0.13
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD12	5	0.13
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD13	5	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD11	5	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD12	5	0.13
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD13	5	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD11	5	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD12	5	0.13
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD13	5	0.13
(1,470)	1:29:A:LEU:HD11	1:32:A:LEU:HD11	6	0.13
(1,470)	1:29:A:LEU:HD11	1:32:A:LEU:HD12	6	0.13
(1,470)	1:29:A:LEU:HD11	1:32:A:LEU:HD13	6	0.13
(1,470)	1:29:A:LEU:HD12	1:32:A:LEU:HD11	6	0.13
(1,470)	1:29:A:LEU:HD12	1:32:A:LEU:HD12	6	0.13
(1,470)	1:29:A:LEU:HD12	1:32:A:LEU:HD13	6	0.13
(1,470)	1:29:A:LEU:HD13	1:32:A:LEU:HD11	6	0.13
(1,470)	1:29:A:LEU:HD13	1:32:A:LEU:HD12	6	0.13
(1,470)	1:29:A:LEU:HD13	1:32:A:LEU:HD13	6	0.13
(1,469)	1:26:A:ILE:HD11	1:29:A:LEU:HD11	5	0.13
(1,469)	1:26:A:ILE:HD11	1:29:A:LEU:HD12	5	0.13
(1,469)	1:26:A:ILE:HD11	1:29:A:LEU:HD13	5	0.13
(1,469)	1:26:A:ILE:HD12	1:29:A:LEU:HD11	5	0.13
(1,469)	1:26:A:ILE:HD12	1:29:A:LEU:HD12	5	0.13
(1,469)	1:26:A:ILE:HD12	1:29:A:LEU:HD13	5	0.13
(1,469)	1:26:A:ILE:HD13	1:29:A:LEU:HD11	5	0.13
(1,469)	1:26:A:ILE:HD13	1:29:A:LEU:HD12	5	0.13
(1,469)	1:26:A:ILE:HD13	1:29:A:LEU:HD13	5	0.13
(1,348)	1:138:A:PHE:H	1:141:A:ALA:H	5	0.13
(1,251)	1:70:A:LEU:H	1:72:A:SER:H	7	0.13
(1,138)	1:105:A:ASN:H	1:106:A:ASN:H	7	0.13
(1,110)	1:69:A:LYS:H	1:70:A:LEU:H	5	0.13
(1,59)	1:121:A:ALA:HB1	1:117:A:ALA:HB1	2	0.13
(1,59)	1:121:A:ALA:HB1	1:117:A:ALA:HB2	2	0.13
(1,59)	1:121:A:ALA:HB1	1:117:A:ALA:HB3	2	0.13
(1,59)	1:121:A:ALA:HB2	1:117:A:ALA:HB1	2	0.13
(1,59)	1:121:A:ALA:HB2	1:117:A:ALA:HB2	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:121:A:ALA:HB2	1:117:A:ALA:HB3	2	0.13
(1,59)	1:121:A:ALA:HB3	1:117:A:ALA:HB1	2	0.13
(1,59)	1:121:A:ALA:HB3	1:117:A:ALA:HB2	2	0.13
(1,59)	1:121:A:ALA:HB3	1:117:A:ALA:HB3	2	0.13
(1,8)	1:64:A:LEU:HD21	1:124:A:ALA:HB1	5	0.13
(1,8)	1:64:A:LEU:HD21	1:124:A:ALA:HB2	5	0.13
(1,8)	1:64:A:LEU:HD21	1:124:A:ALA:HB3	5	0.13
(1,8)	1:64:A:LEU:HD22	1:124:A:ALA:HB1	5	0.13
(1,8)	1:64:A:LEU:HD22	1:124:A:ALA:HB2	5	0.13
(1,8)	1:64:A:LEU:HD22	1:124:A:ALA:HB3	5	0.13
(1,8)	1:64:A:LEU:HD23	1:124:A:ALA:HB1	5	0.13
(1,8)	1:64:A:LEU:HD23	1:124:A:ALA:HB2	5	0.13
(1,8)	1:64:A:LEU:HD23	1:124:A:ALA:HB3	5	0.13
(1,1811)	1:125:A:GLY:H	1:121:A:ALA:HA	2	0.12
(1,1801)	1:131:A:ILE:H	1:128:A:ILE:HA	7	0.12
(1,1785)	1:131:A:ILE:H	1:129:A:SER:HA	1	0.12
(1,1781)	1:125:A:GLY:H	1:123:A:GLN:HA	1	0.12
(1,1762)	1:126:A:ALA:H	1:125:A:GLY:HA2	6	0.12
(1,1762)	1:126:A:ALA:H	1:125:A:GLY:HA3	6	0.12
(1,1731)	1:114:A:GLY:H	1:114:A:GLY:HA2	2	0.12
(1,1731)	1:114:A:GLY:H	1:114:A:GLY:HA3	2	0.12
(1,1724)	1:191:A:LYS:H	1:145:A:ALA:HA	8	0.12
(1,1693)	1:183:A:GLY:H	1:94:A:THR:HA	5	0.12
(1,1692)	1:175:A:ASP:H	1:160:A:TYR:HA	5	0.12
(1,1674)	1:169:A:SER:H	1:21:A:ALA:HA	6	0.12
(1,1673)	1:164:A:SER:H	1:170:A:PHE:HA	3	0.12
(1,1628)	1:146:A:GLU:H	1:190:A:LEU:HA	3	0.12
(1,1628)	1:146:A:GLU:H	1:190:A:LEU:HA	6	0.12
(1,1627)	1:94:A:THR:H	1:78:A:ILE:HA	2	0.12
(1,1611)	1:81:A:ILE:H	1:91:A:ILE:HA	6	0.12
(1,1574)	1:145:A:ALA:H	1:141:A:ALA:HA	1	0.12
(1,1573)	1:107:A:LEU:H	1:103:A:LEU:HA	4	0.12
(1,1513)	1:102:A:ASP:H	1:99:A:THR:HA	4	0.12
(1,1474)	1:213:A:PHE:H	1:211:A:SER:HA	2	0.12
(1,1461)	1:199:A:GLU:H	1:197:A:TYR:HA	10	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA2	2	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA3	2	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA2	9	0.12
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA3	9	0.12
(1,1078)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	8	0.12
(1,1078)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	8	0.12
(1,1078)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD11	10	0.12
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD12	10	0.12
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD13	10	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD11	9	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD12	9	0.12
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD13	9	0.12
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG21	4	0.12
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG22	4	0.12
(1,953)	1:172:A:VAL:H	1:17:A:VAL:HG23	4	0.12
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG21	4	0.12
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG22	4	0.12
(1,906)	1:145:A:ALA:H	1:144:A:VAL:HG23	4	0.12
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG21	3	0.12
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG22	3	0.12
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG23	3	0.12
(1,899)	1:142:A:TYR:H	1:148:A:VAL:HG11	1	0.12
(1,899)	1:142:A:TYR:H	1:148:A:VAL:HG12	1	0.12
(1,899)	1:142:A:TYR:H	1:148:A:VAL:HG13	1	0.12
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG11	7	0.12
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG12	7	0.12
(1,885)	1:133:A:GLN:H	1:136:A:VAL:HG13	7	0.12
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD11	1	0.12
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD12	1	0.12
(1,882)	1:128:A:ILE:H	1:122:A:LEU:HD13	1	0.12
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD11	7	0.12
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD12	7	0.12
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD13	7	0.12
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD11	4	0.12
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD12	4	0.12
(1,846)	1:95:A:GLY:H	1:56:A:LEU:HD13	4	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG21	1	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG22	1	0.12
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG23	1	0.12
(1,760)	1:60:A:ARG:H	1:96:A:ILE:HD11	9	0.12
(1,760)	1:60:A:ARG:H	1:96:A:ILE:HD12	9	0.12
(1,760)	1:60:A:ARG:H	1:96:A:ILE:HD13	9	0.12
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD11	4	0.12
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD12	4	0.12
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD13	4	0.12
(1,718)	1:33:A:ILE:H	1:32:A:LEU:HD21	1	0.12
(1,718)	1:33:A:ILE:H	1:32:A:LEU:HD22	1	0.12
(1,718)	1:33:A:ILE:H	1:32:A:LEU:HD23	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,716)	1:33:A:ILE:H	1:29:A:LEU:HD11	8	0.12
(1,716)	1:33:A:ILE:H	1:29:A:LEU:HD12	8	0.12
(1,716)	1:33:A:ILE:H	1:29:A:LEU:HD13	8	0.12
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	3	0.12
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	3	0.12
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	3	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB1	5	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB2	5	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB3	5	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB1	9	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB2	9	0.12
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB3	9	0.12
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD11	5	0.12
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD12	5	0.12
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD13	5	0.12
(1,618)	1:214:A:ILE:HD11	1:218:A:ILE:HD11	7	0.12
(1,618)	1:214:A:ILE:HD11	1:218:A:ILE:HD12	7	0.12
(1,618)	1:214:A:ILE:HD11	1:218:A:ILE:HD13	7	0.12
(1,618)	1:214:A:ILE:HD12	1:218:A:ILE:HD11	7	0.12
(1,618)	1:214:A:ILE:HD12	1:218:A:ILE:HD12	7	0.12
(1,618)	1:214:A:ILE:HD12	1:218:A:ILE:HD13	7	0.12
(1,618)	1:214:A:ILE:HD13	1:218:A:ILE:HD11	7	0.12
(1,618)	1:214:A:ILE:HD13	1:218:A:ILE:HD12	7	0.12
(1,618)	1:214:A:ILE:HD13	1:218:A:ILE:HD13	7	0.12
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD11	7	0.12
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD12	7	0.12
(1,616)	1:207:A:VAL:HG11	1:218:A:ILE:HD13	7	0.12
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD11	7	0.12
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD12	7	0.12
(1,616)	1:207:A:VAL:HG12	1:218:A:ILE:HD13	7	0.12
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD11	7	0.12
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD12	7	0.12
(1,616)	1:207:A:VAL:HG13	1:218:A:ILE:HD13	7	0.12
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD21	6	0.12
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD22	6	0.12
(1,588)	1:144:A:VAL:HG11	1:188:A:LEU:HD23	6	0.12
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD21	6	0.12
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD22	6	0.12
(1,588)	1:144:A:VAL:HG12	1:188:A:LEU:HD23	6	0.12
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD21	6	0.12
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD22	6	0.12
(1,588)	1:144:A:VAL:HG13	1:188:A:LEU:HD23	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:103:A:LEU:HD21	1:150:A:VAL:HG11	7	0.12
(1,565)	1:103:A:LEU:HD21	1:150:A:VAL:HG12	7	0.12
(1,565)	1:103:A:LEU:HD21	1:150:A:VAL:HG13	7	0.12
(1,565)	1:103:A:LEU:HD22	1:150:A:VAL:HG11	7	0.12
(1,565)	1:103:A:LEU:HD22	1:150:A:VAL:HG12	7	0.12
(1,565)	1:103:A:LEU:HD22	1:150:A:VAL:HG13	7	0.12
(1,565)	1:103:A:LEU:HD23	1:150:A:VAL:HG11	7	0.12
(1,565)	1:103:A:LEU:HD23	1:150:A:VAL:HG12	7	0.12
(1,565)	1:103:A:LEU:HD23	1:150:A:VAL:HG13	7	0.12
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	6	0.12
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	6	0.12
(1,563)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	6	0.12
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	6	0.12
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	6	0.12
(1,563)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	6	0.12
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	6	0.12
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	6	0.12
(1,563)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	6	0.12
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD21	10	0.12
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD22	10	0.12
(1,533)	1:89:A:LEU:HD11	1:198:A:LEU:HD23	10	0.12
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD21	10	0.12
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD22	10	0.12
(1,533)	1:89:A:LEU:HD12	1:198:A:LEU:HD23	10	0.12
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD21	10	0.12
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD22	10	0.12
(1,533)	1:89:A:LEU:HD13	1:198:A:LEU:HD23	10	0.12
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD11	5	0.12
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD12	5	0.12
(1,508)	1:49:A:ILE:HD11	1:214:A:ILE:HD13	5	0.12
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD11	5	0.12
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD12	5	0.12
(1,508)	1:49:A:ILE:HD12	1:214:A:ILE:HD13	5	0.12
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD11	5	0.12
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD12	5	0.12
(1,508)	1:49:A:ILE:HD13	1:214:A:ILE:HD13	5	0.12
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	6	0.12
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	6	0.12
(1,505)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	6	0.12
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	6	0.12
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	6	0.12
(1,505)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	6	0.12
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	6	0.12
(1,505)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	6	0.12
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD11	1	0.12
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD12	1	0.12
(1,474)	1:30:A:MET:HE1	1:33:A:ILE:HD13	1	0.12
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD11	1	0.12
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD12	1	0.12
(1,474)	1:30:A:MET:HE2	1:33:A:ILE:HD13	1	0.12
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD11	1	0.12
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD12	1	0.12
(1,474)	1:30:A:MET:HE3	1:33:A:ILE:HD13	1	0.12
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	4	0.12
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	4	0.12
(1,472)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	4	0.12
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	4	0.12
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	4	0.12
(1,472)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	4	0.12
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	4	0.12
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	4	0.12
(1,472)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	4	0.12
(1,433)	1:198:A:LEU:H	1:203:A:ILE:H	5	0.12
(1,396)	1:83:A:ASN:H	1:87:A:ARG:H	6	0.12
(1,328)	1:69:A:LYS:H	1:72:A:SER:H	2	0.12
(1,279)	1:139:A:TYR:H	1:141:A:ALA:H	8	0.12
(1,269)	1:123:A:GLN:H	1:125:A:GLY:H	4	0.12
(1,261)	1:104:A:ILE:H	1:106:A:ASN:H	5	0.12
(1,251)	1:70:A:LEU:H	1:72:A:SER:H	6	0.12
(1,196)	1:194:A:GLN:H	1:195:A:THR:H	3	0.12
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG21	9	0.12
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG22	9	0.12
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG23	9	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG21	9	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG22	9	0.12
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG23	9	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG21	9	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG22	9	0.12
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG23	9	0.12
(1,16)	1:186:A:VAL:HG11	1:107:A:LEU:HD21	7	0.12
(1,16)	1:186:A:VAL:HG11	1:107:A:LEU:HD22	7	0.12
(1,16)	1:186:A:VAL:HG11	1:107:A:LEU:HD23	7	0.12
(1,16)	1:186:A:VAL:HG12	1:107:A:LEU:HD21	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:186:A:VAL:HG12	1:107:A:LEU:HD22	7	0.12
(1,16)	1:186:A:VAL:HG12	1:107:A:LEU:HD23	7	0.12
(1,16)	1:186:A:VAL:HG13	1:107:A:LEU:HD21	7	0.12
(1,16)	1:186:A:VAL:HG13	1:107:A:LEU:HD22	7	0.12
(1,16)	1:186:A:VAL:HG13	1:107:A:LEU:HD23	7	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD11	2	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD12	2	0.12
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD13	2	0.12
(1,1811)	1:125:A:GLY:H	1:121:A:ALA:HA	9	0.11
(1,1799)	1:125:A:GLY:H	1:122:A:LEU:HA	3	0.11
(1,1782)	1:126:A:ALA:H	1:124:A:ALA:HA	4	0.11
(1,1748)	1:132:A:GLY:H	1:132:A:GLY:HA2	7	0.11
(1,1748)	1:132:A:GLY:H	1:132:A:GLY:HA3	7	0.11
(1,1710)	1:187:A:ILE:H	1:148:A:VAL:HA	6	0.11
(1,1659)	1:161:A:ALA:H	1:172:A:VAL:HA	1	0.11
(1,1654)	1:160:A:TYR:H	1:151:A:ILE:HA	2	0.11
(1,1628)	1:146:A:GLU:H	1:190:A:LEU:HA	7	0.11
(1,1598)	1:22:A:PHE:H	1:169:A:SER:HA	7	0.11
(1,1587)	1:98:A:MET:H	1:153:A:LYS:H	5	0.11
(1,1566)	1:65:A:THR:H	1:61:A:TYR:HA	4	0.11
(1,1566)	1:65:A:THR:H	1:61:A:TYR:HA	7	0.11
(1,1562)	1:61:A:TYR:H	1:57:A:ASP:HA	6	0.11
(1,1510)	1:72:A:SER:H	1:69:A:LYS:HA	1	0.11
(1,1509)	1:71:A:ASP:H	1:68:A:SER:HA	4	0.11
(1,1509)	1:71:A:ASP:H	1:68:A:SER:HA	5	0.11
(1,1479)	1:30:A:MET:H	1:27:A:ALA:HA	10	0.11
(1,1474)	1:213:A:PHE:H	1:211:A:SER:HA	5	0.11
(1,1455)	1:193:A:ASP:H	1:191:A:LYS:HA	6	0.11
(1,1427)	1:72:A:SER:H	1:70:A:LEU:HA	7	0.11
(1,1402)	1:45:A:LEU:H	1:43:A:ILE:HA	7	0.11
(1,1319)	1:139:A:TYR:H	1:138:A:PHE:HA	10	0.11
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA2	5	0.11
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA3	5	0.11
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA2	7	0.11
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA3	7	0.11
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA2	8	0.11
(1,1305)	1:96:A:ILE:H	1:95:A:GLY:HA3	8	0.11
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA2	8	0.11
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA3	8	0.11
(1,1075)	1:123:A:GLN:HE21	1:119:A:MET:HE1	2	0.11
(1,1075)	1:123:A:GLN:HE21	1:119:A:MET:HE2	2	0.11
(1,1075)	1:123:A:GLN:HE21	1:119:A:MET:HE3	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD11	3	0.11
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD12	3	0.11
(1,1074)	1:222:A:VAL:H	1:220:A:LEU:HD13	3	0.11
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD11	4	0.11
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD12	4	0.11
(1,1062)	1:216:A:TYR:H	1:218:A:ILE:HD13	4	0.11
(1,1028)	1:200:A:GLU:H	1:203:A:ILE:HD11	4	0.11
(1,1028)	1:200:A:GLU:H	1:203:A:ILE:HD12	4	0.11
(1,1028)	1:200:A:GLU:H	1:203:A:ILE:HD13	4	0.11
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD11	3	0.11
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD12	3	0.11
(1,1021)	1:198:A:LEU:H	1:190:A:LEU:HD13	3	0.11
(1,1019)	1:197:A:TYR:H	1:198:A:LEU:HD11	5	0.11
(1,1019)	1:197:A:TYR:H	1:198:A:LEU:HD12	5	0.11
(1,1019)	1:197:A:TYR:H	1:198:A:LEU:HD13	5	0.11
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG11	2	0.11
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG12	2	0.11
(1,1004)	1:191:A:LYS:H	1:144:A:VAL:HG13	2	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG11	8	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG12	8	0.11
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG13	8	0.11
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG21	3	0.11
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG22	3	0.11
(1,978)	1:186:A:VAL:H	1:150:A:VAL:HG23	3	0.11
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG21	7	0.11
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG22	7	0.11
(1,973)	1:185:A:LYS:H	1:186:A:VAL:HG23	7	0.11
(1,966)	1:185:A:LYS:H	1:92:A:VAL:HG11	3	0.11
(1,966)	1:185:A:LYS:H	1:92:A:VAL:HG12	3	0.11
(1,966)	1:185:A:LYS:H	1:92:A:VAL:HG13	3	0.11
(1,962)	1:175:A:ASP:H	1:176:A:THR:HG21	2	0.11
(1,962)	1:175:A:ASP:H	1:176:A:THR:HG22	2	0.11
(1,962)	1:175:A:ASP:H	1:176:A:THR:HG23	2	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB1	10	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB2	10	0.11
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB3	10	0.11
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG21	8	0.11
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG22	8	0.11
(1,952)	1:170:A:PHE:H	1:171:A:THR:HG23	8	0.11
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG21	5	0.11
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG22	5	0.11
(1,943)	1:163:A:GLU:H	1:149:A:THR:HG23	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,931)	1:160:A:TYR:H	1:152:A:THR:HG21	6	0.11
(1,931)	1:160:A:TYR:H	1:152:A:THR:HG22	6	0.11
(1,931)	1:160:A:TYR:H	1:152:A:THR:HG23	6	0.11
(1,925)	1:151:A:ILE:H	1:184:A:THR:HG21	2	0.11
(1,925)	1:151:A:ILE:H	1:184:A:THR:HG22	2	0.11
(1,925)	1:151:A:ILE:H	1:184:A:THR:HG23	2	0.11
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE1	8	0.11
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE2	8	0.11
(1,924)	1:151:A:ILE:H	1:180:A:MET:HE3	8	0.11
(1,922)	1:151:A:ILE:H	1:149:A:THR:HG21	6	0.11
(1,922)	1:151:A:ILE:H	1:149:A:THR:HG22	6	0.11
(1,922)	1:151:A:ILE:H	1:149:A:THR:HG23	6	0.11
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG11	3	0.11
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG12	3	0.11
(1,918)	1:150:A:VAL:H	1:148:A:VAL:HG13	3	0.11
(1,917)	1:149:A:THR:H	1:186:A:VAL:HG11	5	0.11
(1,917)	1:149:A:THR:H	1:186:A:VAL:HG12	5	0.11
(1,917)	1:149:A:THR:H	1:186:A:VAL:HG13	5	0.11
(1,904)	1:144:A:VAL:H	1:188:A:LEU:HD21	9	0.11
(1,904)	1:144:A:VAL:H	1:188:A:LEU:HD22	9	0.11
(1,904)	1:144:A:VAL:H	1:188:A:LEU:HD23	9	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG21	8	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG22	8	0.11
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG23	8	0.11
(1,900)	1:142:A:TYR:H	1:188:A:LEU:HD21	4	0.11
(1,900)	1:142:A:TYR:H	1:188:A:LEU:HD22	4	0.11
(1,900)	1:142:A:TYR:H	1:188:A:LEU:HD23	4	0.11
(1,862)	1:119:A:MET:H	1:115:A:THR:HG21	4	0.11
(1,862)	1:119:A:MET:H	1:115:A:THR:HG22	4	0.11
(1,862)	1:119:A:MET:H	1:115:A:THR:HG23	4	0.11
(1,854)	1:104:A:ILE:H	1:103:A:LEU:HD21	5	0.11
(1,854)	1:104:A:ILE:H	1:103:A:LEU:HD22	5	0.11
(1,854)	1:104:A:ILE:H	1:103:A:LEU:HD23	5	0.11
(1,852)	1:104:A:ILE:H	1:101:A:ALA:HB1	3	0.11
(1,852)	1:104:A:ILE:H	1:101:A:ALA:HB2	3	0.11
(1,852)	1:104:A:ILE:H	1:101:A:ALA:HB3	3	0.11
(1,827)	1:89:A:LEU:H	1:190:A:LEU:HD21	1	0.11
(1,827)	1:89:A:LEU:H	1:190:A:LEU:HD22	1	0.11
(1,827)	1:89:A:LEU:H	1:190:A:LEU:HD23	1	0.11
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG21	2	0.11
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG22	2	0.11
(1,820)	1:87:A:ARG:H	1:88:A:THR:HG23	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD11	5	0.11
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD12	5	0.11
(1,800)	1:80:A:LEU:H	1:220:A:LEU:HD13	5	0.11
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	4	0.11
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	4	0.11
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	4	0.11
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB1	2	0.11
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB2	2	0.11
(1,708)	1:28:A:GLN:H	1:27:A:ALA:HB3	2	0.11
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG11	6	0.11
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG12	6	0.11
(1,702)	1:20:A:PHE:H	1:172:A:VAL:HG13	6	0.11
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD21	1	0.11
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD22	1	0.11
(1,656)	1:103:A:LEU:H	1:103:A:LEU:HD23	1	0.11
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD11	7	0.11
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD12	7	0.11
(1,625)	1:26:A:ILE:H	1:26:A:ILE:HD13	7	0.11
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG11	10	0.11
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG12	10	0.11
(1,621)	1:220:A:LEU:HD21	1:222:A:VAL:HG13	10	0.11
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG11	10	0.11
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG12	10	0.11
(1,621)	1:220:A:LEU:HD22	1:222:A:VAL:HG13	10	0.11
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG11	10	0.11
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG12	10	0.11
(1,621)	1:220:A:LEU:HD23	1:222:A:VAL:HG13	10	0.11
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD11	1	0.11
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD12	1	0.11
(1,612)	1:195:A:THR:HG21	1:198:A:LEU:HD13	1	0.11
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD11	1	0.11
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD12	1	0.11
(1,612)	1:195:A:THR:HG22	1:198:A:LEU:HD13	1	0.11
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD11	1	0.11
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD12	1	0.11
(1,612)	1:195:A:THR:HG23	1:198:A:LEU:HD13	1	0.11
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	6	0.11
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	6	0.11
(1,610)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	6	0.11
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	6	0.11
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	6	0.11
(1,610)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	6	0.11
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	6	0.11
(1,610)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	6	0.11
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	2	0.11
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	2	0.11
(1,590)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	2	0.11
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	2	0.11
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	2	0.11
(1,590)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	2	0.11
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	2	0.11
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	2	0.11
(1,590)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	2	0.11
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG21	8	0.11
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG22	8	0.11
(1,564)	1:103:A:LEU:HD11	1:172:A:VAL:HG23	8	0.11
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG21	8	0.11
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG22	8	0.11
(1,564)	1:103:A:LEU:HD12	1:172:A:VAL:HG23	8	0.11
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG21	8	0.11
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG22	8	0.11
(1,564)	1:103:A:LEU:HD13	1:172:A:VAL:HG23	8	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB1	7	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB2	7	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB3	7	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB1	7	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB2	7	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB3	7	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB1	7	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB2	7	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB3	7	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB1	9	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB2	9	0.11
(1,556)	1:99:A:THR:HG21	1:101:A:ALA:HB3	9	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB1	9	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB2	9	0.11
(1,556)	1:99:A:THR:HG22	1:101:A:ALA:HB3	9	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB1	9	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB2	9	0.11
(1,556)	1:99:A:THR:HG23	1:101:A:ALA:HB3	9	0.11
(1,540)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	4	0.11
(1,540)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	4	0.11
(1,540)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,540)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	4	0.11
(1,540)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	4	0.11
(1,540)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	4	0.11
(1,540)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	4	0.11
(1,540)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	4	0.11
(1,540)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	4	0.11
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD11	4	0.11
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD12	4	0.11
(1,539)	1:90:A:THR:HG21	1:187:A:ILE:HD13	4	0.11
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD11	4	0.11
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD12	4	0.11
(1,539)	1:90:A:THR:HG22	1:187:A:ILE:HD13	4	0.11
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD11	4	0.11
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD12	4	0.11
(1,539)	1:90:A:THR:HG23	1:187:A:ILE:HD13	4	0.11
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD11	5	0.11
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD12	5	0.11
(1,527)	1:80:A:LEU:HD21	1:91:A:ILE:HD13	5	0.11
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD11	5	0.11
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD12	5	0.11
(1,527)	1:80:A:LEU:HD22	1:91:A:ILE:HD13	5	0.11
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD11	5	0.11
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD12	5	0.11
(1,527)	1:80:A:LEU:HD23	1:91:A:ILE:HD13	5	0.11
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	7	0.11
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	7	0.11
(1,522)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	7	0.11
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	7	0.11
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	7	0.11
(1,522)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	7	0.11
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	7	0.11
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	7	0.11
(1,522)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	7	0.11
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	6	0.11
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	6	0.11
(1,497)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	6	0.11
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	6	0.11
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	6	0.11
(1,497)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	6	0.11
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	6	0.11
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	6	0.11
(1,497)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD11	6	0.11
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD12	6	0.11
(1,493)	1:48:A:LEU:HD11	1:91:A:ILE:HD13	6	0.11
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD11	6	0.11
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD12	6	0.11
(1,493)	1:48:A:LEU:HD12	1:91:A:ILE:HD13	6	0.11
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD11	6	0.11
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD12	6	0.11
(1,493)	1:48:A:LEU:HD13	1:91:A:ILE:HD13	6	0.11
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD21	9	0.11
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD22	9	0.11
(1,489)	1:45:A:LEU:HD21	1:89:A:LEU:HD23	9	0.11
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD21	9	0.11
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD22	9	0.11
(1,489)	1:45:A:LEU:HD22	1:89:A:LEU:HD23	9	0.11
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD21	9	0.11
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD22	9	0.11
(1,489)	1:45:A:LEU:HD23	1:89:A:LEU:HD23	9	0.11
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD11	4	0.11
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD12	4	0.11
(1,484)	1:45:A:LEU:HD11	1:188:A:LEU:HD13	4	0.11
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD11	4	0.11
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD12	4	0.11
(1,484)	1:45:A:LEU:HD12	1:188:A:LEU:HD13	4	0.11
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD11	4	0.11
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD12	4	0.11
(1,484)	1:45:A:LEU:HD13	1:188:A:LEU:HD13	4	0.11
(1,482)	1:45:A:LEU:HD11	1:89:A:LEU:HD21	5	0.11
(1,482)	1:45:A:LEU:HD11	1:89:A:LEU:HD22	5	0.11
(1,482)	1:45:A:LEU:HD11	1:89:A:LEU:HD23	5	0.11
(1,482)	1:45:A:LEU:HD12	1:89:A:LEU:HD21	5	0.11
(1,482)	1:45:A:LEU:HD12	1:89:A:LEU:HD22	5	0.11
(1,482)	1:45:A:LEU:HD12	1:89:A:LEU:HD23	5	0.11
(1,482)	1:45:A:LEU:HD13	1:89:A:LEU:HD21	5	0.11
(1,482)	1:45:A:LEU:HD13	1:89:A:LEU:HD22	5	0.11
(1,482)	1:45:A:LEU:HD13	1:89:A:LEU:HD23	5	0.11
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG21	9	0.11
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG22	9	0.11
(1,468)	1:19:A:THR:HG21	1:171:A:THR:HG23	9	0.11
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG21	9	0.11
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG22	9	0.11
(1,468)	1:19:A:THR:HG22	1:171:A:THR:HG23	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG21	9	0.11
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG22	9	0.11
(1,468)	1:19:A:THR:HG23	1:171:A:THR:HG23	9	0.11
(1,406)	1:95:A:GLY:H	1:184:A:THR:H	8	0.11
(1,279)	1:139:A:TYR:H	1:141:A:ALA:H	3	0.11
(1,261)	1:104:A:ILE:H	1:106:A:ASN:H	7	0.11
(1,228)	1:41:A:LYS:H	1:43:A:ILE:H	7	0.11
(1,155)	1:138:A:PHE:H	1:139:A:TYR:H	10	0.11
(1,147)	1:125:A:GLY:H	1:126:A:ALA:H	4	0.11
(1,138)	1:105:A:ASN:H	1:106:A:ASN:H	3	0.11
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG21	8	0.11
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG22	8	0.11
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG23	8	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG21	8	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG22	8	0.11
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG23	8	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG21	8	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG22	8	0.11
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG23	8	0.11
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB1	5	0.11
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB2	5	0.11
(1,57)	1:27:A:ALA:HB1	1:24:A:ALA:HB3	5	0.11
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB1	5	0.11
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB2	5	0.11
(1,57)	1:27:A:ALA:HB2	1:24:A:ALA:HB3	5	0.11
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB1	5	0.11
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB2	5	0.11
(1,57)	1:27:A:ALA:HB3	1:24:A:ALA:HB3	5	0.11
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD21	9	0.11
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD22	9	0.11
(1,35)	1:89:A:LEU:HD11	1:80:A:LEU:HD23	9	0.11
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD21	9	0.11
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD22	9	0.11
(1,35)	1:89:A:LEU:HD12	1:80:A:LEU:HD23	9	0.11
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD21	9	0.11
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD22	9	0.11
(1,35)	1:89:A:LEU:HD13	1:80:A:LEU:HD23	9	0.11
(1,28)	1:29:A:LEU:HD21	1:32:A:LEU:HD11	4	0.11
(1,28)	1:29:A:LEU:HD21	1:32:A:LEU:HD12	4	0.11
(1,28)	1:29:A:LEU:HD21	1:32:A:LEU:HD13	4	0.11
(1,28)	1:29:A:LEU:HD22	1:32:A:LEU:HD11	4	0.11
(1,28)	1:29:A:LEU:HD22	1:32:A:LEU:HD12	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:29:A:LEU:HD22	1:32:A:LEU:HD13	4	0.11
(1,28)	1:29:A:LEU:HD23	1:32:A:LEU:HD11	4	0.11
(1,28)	1:29:A:LEU:HD23	1:32:A:LEU:HD12	4	0.11
(1,28)	1:29:A:LEU:HD23	1:32:A:LEU:HD13	4	0.11
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG21	10	0.11
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG22	10	0.11
(1,22)	1:184:A:THR:HG21	1:152:A:THR:HG23	10	0.11
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG21	10	0.11
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG22	10	0.11
(1,22)	1:184:A:THR:HG22	1:152:A:THR:HG23	10	0.11
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG21	10	0.11
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG22	10	0.11
(1,22)	1:184:A:THR:HG23	1:152:A:THR:HG23	10	0.11
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD11	8	0.11
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD12	8	0.11
(1,14)	1:139:A:TYR:H	1:33:A:ILE:HD13	8	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD11	5	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD12	5	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD13	5	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD11	5	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD12	5	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD13	5	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD11	5	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD12	5	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD13	5	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD11	6	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD12	6	0.11
(1,11)	1:33:A:ILE:HD11	1:143:A:LEU:HD13	6	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD11	6	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD12	6	0.11
(1,11)	1:33:A:ILE:HD12	1:143:A:LEU:HD13	6	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD11	6	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD12	6	0.11
(1,11)	1:33:A:ILE:HD13	1:143:A:LEU:HD13	6	0.11
(1,1812)	1:126:A:ALA:H	1:122:A:LEU:HA	6	0.1
(1,1811)	1:125:A:GLY:H	1:121:A:ALA:HA	8	0.1
(1,1810)	1:124:A:ALA:H	1:120:A:GLU:HA	9	0.1
(1,1751)	1:135:A:GLY:H	1:135:A:GLY:HA2	3	0.1
(1,1751)	1:135:A:GLY:H	1:135:A:GLY:HA3	3	0.1
(1,1717)	1:189:A:HIS:H	1:88:A:THR:HA	8	0.1
(1,1673)	1:164:A:SER:H	1:170:A:PHE:HA	8	0.1
(1,1558)	1:57:A:ASP:H	1:53:A:SER:HA	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1542)	1:31:A:SER:H	1:27:A:ALA:HA	8	0.1
(1,1492)	1:51:A:ASN:H	1:48:A:LEU:HA	1	0.1
(1,1484)	1:35:A:ASN:H	1:32:A:LEU:HA	10	0.1
(1,1473)	1:212:A:GLN:H	1:210:A:HIS:HA	1	0.1
(1,1383)	1:214:A:ILE:H	1:213:A:PHE:HA	1	0.1
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA2	6	0.1
(1,1307)	1:98:A:MET:H	1:97:A:GLY:HA3	6	0.1
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA2	3	0.1
(1,1163)	1:137:A:GLY:H	1:137:A:GLY:HA3	3	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA2	1	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA3	1	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA2	4	0.1
(1,1152)	1:97:A:GLY:H	1:97:A:GLY:HA3	4	0.1
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE1	3	0.1
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE2	3	0.1
(1,1080)	1:133:A:GLN:HE22	1:130:A:MET:HE3	3	0.1
(1,1048)	1:208:A:LYS:H	1:207:A:VAL:HG11	4	0.1
(1,1048)	1:208:A:LYS:H	1:207:A:VAL:HG12	4	0.1
(1,1048)	1:208:A:LYS:H	1:207:A:VAL:HG13	4	0.1
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB1	4	0.1
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB2	4	0.1
(1,1001)	1:190:A:LEU:H	1:145:A:ALA:HB3	4	0.1
(1,993)	1:188:A:LEU:H	1:190:A:LEU:HD21	1	0.1
(1,993)	1:188:A:LEU:H	1:190:A:LEU:HD22	1	0.1
(1,993)	1:188:A:LEU:H	1:190:A:LEU:HD23	1	0.1
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG11	1	0.1
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG12	1	0.1
(1,992)	1:188:A:LEU:H	1:186:A:VAL:HG13	1	0.1
(1,969)	1:185:A:LYS:H	1:150:A:VAL:HG11	10	0.1
(1,969)	1:185:A:LYS:H	1:150:A:VAL:HG12	10	0.1
(1,969)	1:185:A:LYS:H	1:150:A:VAL:HG13	10	0.1
(1,968)	1:185:A:LYS:H	1:98:A:MET:HE1	5	0.1
(1,968)	1:185:A:LYS:H	1:98:A:MET:HE2	5	0.1
(1,968)	1:185:A:LYS:H	1:98:A:MET:HE3	5	0.1
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB1	8	0.1
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB2	8	0.1
(1,960)	1:175:A:ASP:H	1:161:A:ALA:HB3	8	0.1
(1,959)	1:173:A:ARG:H	1:172:A:VAL:HG21	2	0.1
(1,959)	1:173:A:ARG:H	1:172:A:VAL:HG22	2	0.1
(1,959)	1:173:A:ARG:H	1:172:A:VAL:HG23	2	0.1
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG21	10	0.1
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG22	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,902)	1:143:A:LEU:H	1:144:A:VAL:HG23	10	0.1
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD11	9	0.1
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD12	9	0.1
(1,856)	1:105:A:ASN:H	1:104:A:ILE:HD13	9	0.1
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG21	10	0.1
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG22	10	0.1
(1,839)	1:92:A:VAL:H	1:90:A:THR:HG23	10	0.1
(1,804)	1:81:A:ILE:H	1:90:A:THR:HG21	9	0.1
(1,804)	1:81:A:ILE:H	1:90:A:THR:HG22	9	0.1
(1,804)	1:81:A:ILE:H	1:90:A:THR:HG23	9	0.1
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD21	5	0.1
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD22	5	0.1
(1,787)	1:77:A:HIS:H	1:56:A:LEU:HD23	5	0.1
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB1	2	0.1
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB2	2	0.1
(1,749)	1:56:A:LEU:H	1:55:A:ALA:HB3	2	0.1
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD11	10	0.1
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD12	10	0.1
(1,722)	1:35:A:ASN:H	1:32:A:LEU:HD13	10	0.1
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB1	6	0.1
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB2	6	0.1
(1,709)	1:29:A:LEU:H	1:27:A:ALA:HB3	6	0.1
(1,689)	1:207:A:VAL:H	1:207:A:VAL:HG21	5	0.1
(1,689)	1:207:A:VAL:H	1:207:A:VAL:HG22	5	0.1
(1,689)	1:207:A:VAL:H	1:207:A:VAL:HG23	5	0.1
(1,660)	1:122:A:LEU:H	1:122:A:LEU:HD11	4	0.1
(1,660)	1:122:A:LEU:H	1:122:A:LEU:HD12	4	0.1
(1,660)	1:122:A:LEU:H	1:122:A:LEU:HD13	4	0.1
(1,655)	1:103:A:LEU:H	1:103:A:LEU:HD11	7	0.1
(1,655)	1:103:A:LEU:H	1:103:A:LEU:HD12	7	0.1
(1,655)	1:103:A:LEU:H	1:103:A:LEU:HD13	7	0.1
(1,644)	1:76:A:LEU:H	1:76:A:LEU:HD21	4	0.1
(1,644)	1:76:A:LEU:H	1:76:A:LEU:HD22	4	0.1
(1,644)	1:76:A:LEU:H	1:76:A:LEU:HD23	4	0.1
(1,639)	1:64:A:LEU:H	1:64:A:LEU:HD11	2	0.1
(1,639)	1:64:A:LEU:H	1:64:A:LEU:HD12	2	0.1
(1,639)	1:64:A:LEU:H	1:64:A:LEU:HD13	2	0.1
(1,613)	1:195:A:THR:HG21	1:198:A:LEU:HD21	6	0.1
(1,613)	1:195:A:THR:HG21	1:198:A:LEU:HD22	6	0.1
(1,613)	1:195:A:THR:HG21	1:198:A:LEU:HD23	6	0.1
(1,613)	1:195:A:THR:HG22	1:198:A:LEU:HD21	6	0.1
(1,613)	1:195:A:THR:HG22	1:198:A:LEU:HD22	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:195:A:THR:HG22	1:198:A:LEU:HD23	6	0.1
(1,613)	1:195:A:THR:HG23	1:198:A:LEU:HD21	6	0.1
(1,613)	1:195:A:THR:HG23	1:198:A:LEU:HD22	6	0.1
(1,613)	1:195:A:THR:HG23	1:198:A:LEU:HD23	6	0.1
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	4	0.1
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	4	0.1
(1,577)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	4	0.1
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	4	0.1
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	4	0.1
(1,577)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	4	0.1
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	4	0.1
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	4	0.1
(1,577)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	4	0.1
(1,548)	1:98:A:MET:HE1	1:103:A:LEU:HD11	1	0.1
(1,548)	1:98:A:MET:HE1	1:103:A:LEU:HD12	1	0.1
(1,548)	1:98:A:MET:HE1	1:103:A:LEU:HD13	1	0.1
(1,548)	1:98:A:MET:HE2	1:103:A:LEU:HD11	1	0.1
(1,548)	1:98:A:MET:HE2	1:103:A:LEU:HD12	1	0.1
(1,548)	1:98:A:MET:HE2	1:103:A:LEU:HD13	1	0.1
(1,548)	1:98:A:MET:HE3	1:103:A:LEU:HD11	1	0.1
(1,548)	1:98:A:MET:HE3	1:103:A:LEU:HD12	1	0.1
(1,548)	1:98:A:MET:HE3	1:103:A:LEU:HD13	1	0.1
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE1	8	0.1
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE2	8	0.1
(1,547)	1:94:A:THR:HG21	1:180:A:MET:HE3	8	0.1
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE1	8	0.1
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE2	8	0.1
(1,547)	1:94:A:THR:HG22	1:180:A:MET:HE3	8	0.1
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE1	8	0.1
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE2	8	0.1
(1,547)	1:94:A:THR:HG23	1:180:A:MET:HE3	8	0.1
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG21	10	0.1
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG22	10	0.1
(1,467)	1:17:A:VAL:HG11	1:171:A:THR:HG23	10	0.1
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG21	10	0.1
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG22	10	0.1
(1,467)	1:17:A:VAL:HG12	1:171:A:THR:HG23	10	0.1
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG21	10	0.1
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG22	10	0.1
(1,467)	1:17:A:VAL:HG13	1:171:A:THR:HG23	10	0.1
(1,324)	1:62:A:GLU:H	1:65:A:THR:H	9	0.1
(1,277)	1:136:A:VAL:H	1:138:A:PHE:H	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:133:A:GLN:H	1:135:A:GLY:H	6	0.1
(1,182)	1:176:A:THR:H	1:177:A:GLY:H	3	0.1
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG21	4	0.1
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG22	4	0.1
(1,75)	1:214:A:ILE:HD11	1:207:A:VAL:HG23	4	0.1
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG21	4	0.1
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG22	4	0.1
(1,75)	1:214:A:ILE:HD12	1:207:A:VAL:HG23	4	0.1
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG21	4	0.1
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG22	4	0.1
(1,75)	1:214:A:ILE:HD13	1:207:A:VAL:HG23	4	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB1	2	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB2	2	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB3	2	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB1	2	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB2	2	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB3	2	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB1	2	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB2	2	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB3	2	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB1	5	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB2	5	0.1
(1,66)	1:104:A:ILE:HD11	1:101:A:ALA:HB3	5	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB1	5	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB2	5	0.1
(1,66)	1:104:A:ILE:HD12	1:101:A:ALA:HB3	5	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB1	5	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB2	5	0.1
(1,66)	1:104:A:ILE:HD13	1:101:A:ALA:HB3	5	0.1
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD11	5	0.1
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD12	5	0.1
(1,46)	1:48:A:LEU:HD21	1:45:A:LEU:HD13	5	0.1
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD11	5	0.1
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD12	5	0.1
(1,46)	1:48:A:LEU:HD22	1:45:A:LEU:HD13	5	0.1
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD11	5	0.1
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD12	5	0.1
(1,46)	1:48:A:LEU:HD23	1:45:A:LEU:HD13	5	0.1
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD11	9	0.1
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD12	9	0.1
(1,43)	1:220:A:LEU:HD11	1:89:A:LEU:HD13	9	0.1
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD11	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD12	9	0.1
(1,43)	1:220:A:LEU:HD12	1:89:A:LEU:HD13	9	0.1
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD11	9	0.1
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD12	9	0.1
(1,43)	1:220:A:LEU:HD13	1:89:A:LEU:HD13	9	0.1
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD21	3	0.1
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD22	3	0.1
(1,5)	1:130:A:MET:HE1	1:64:A:LEU:HD23	3	0.1
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD21	3	0.1
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD22	3	0.1
(1,5)	1:130:A:MET:HE2	1:64:A:LEU:HD23	3	0.1
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD21	3	0.1
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD22	3	0.1
(1,5)	1:130:A:MET:HE3	1:64:A:LEU:HD23	3	0.1
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG21	8	0.1
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG22	8	0.1
(1,3)	1:130:A:MET:HE1	1:65:A:THR:HG23	8	0.1
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG21	8	0.1
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG22	8	0.1
(1,3)	1:130:A:MET:HE2	1:65:A:THR:HG23	8	0.1
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG21	8	0.1
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG22	8	0.1
(1,3)	1:130:A:MET:HE3	1:65:A:THR:HG23	8	0.1

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

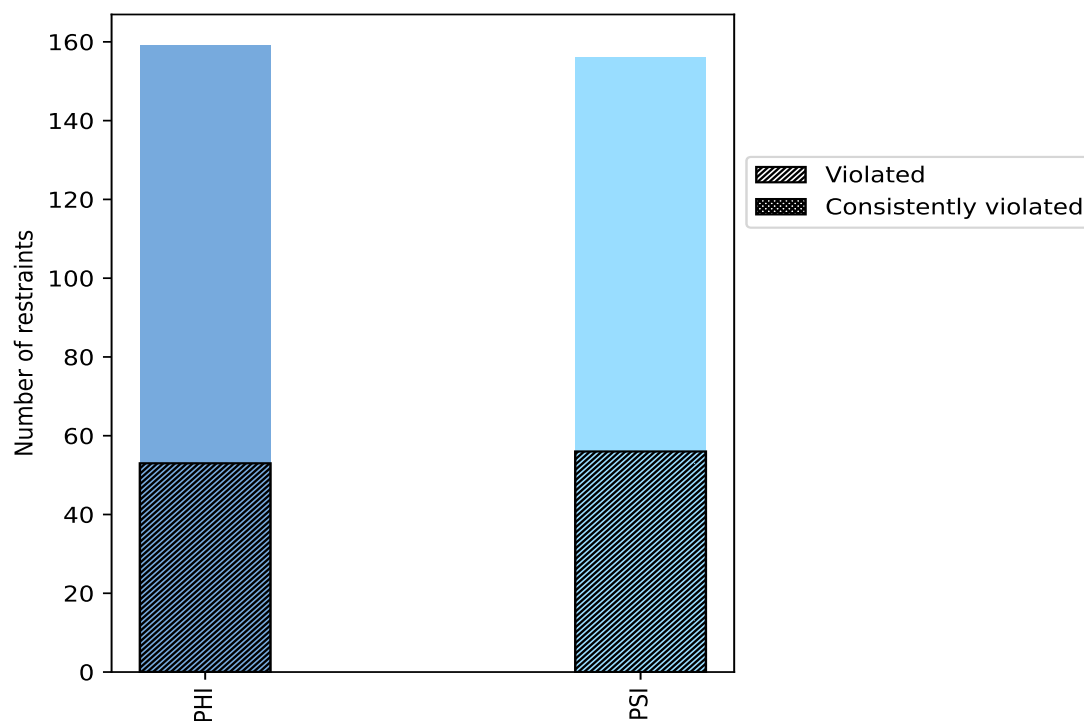
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	159	50.5	53	33.3	16.8	0	0.0	0.0
PSI	156	49.5	56	35.9	17.8	0	0.0	0.0
Total	315	100.0	109	34.6	34.6	0	0.0	0.0

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

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



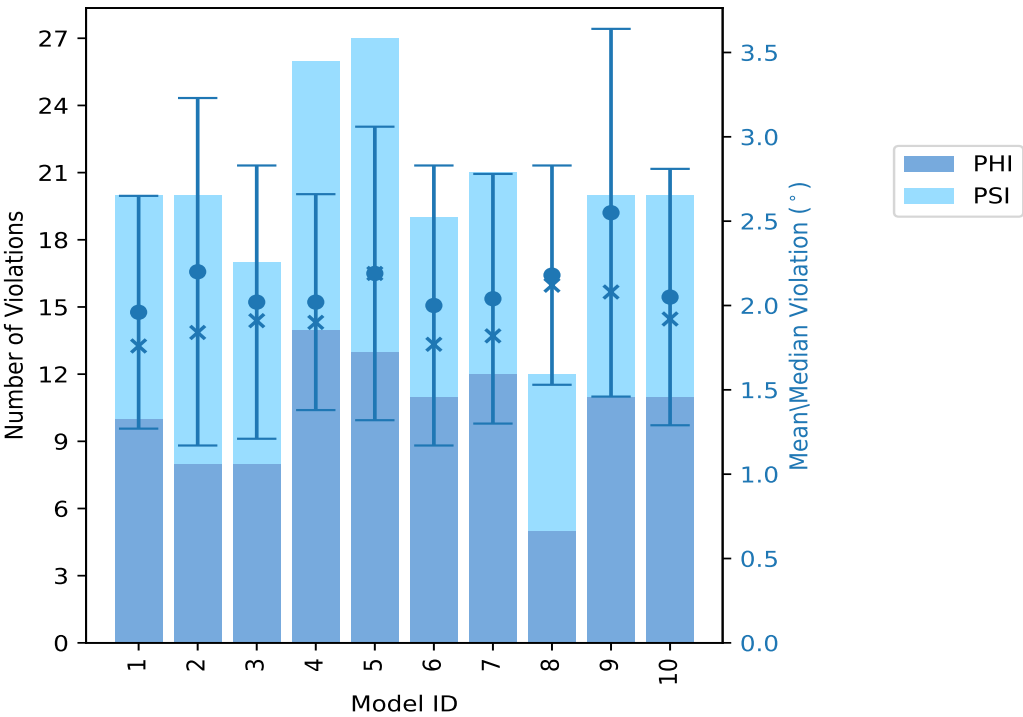
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	10	10	20	1.96	3.32	0.69	1.76
2	8	12	20	2.2	4.16	1.03	1.84
3	8	9	17	2.02	4.32	0.81	1.91
4	14	12	26	2.02	3.44	0.64	1.9
5	13	14	27	2.19	4.28	0.87	2.19
6	11	8	19	2.0	3.65	0.83	1.77
7	12	9	21	2.04	3.74	0.74	1.82
8	5	7	12	2.18	3.71	0.65	2.12
9	11	9	20	2.55	4.96	1.09	2.08
10	11	9	20	2.05	3.67	0.76	1.92

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

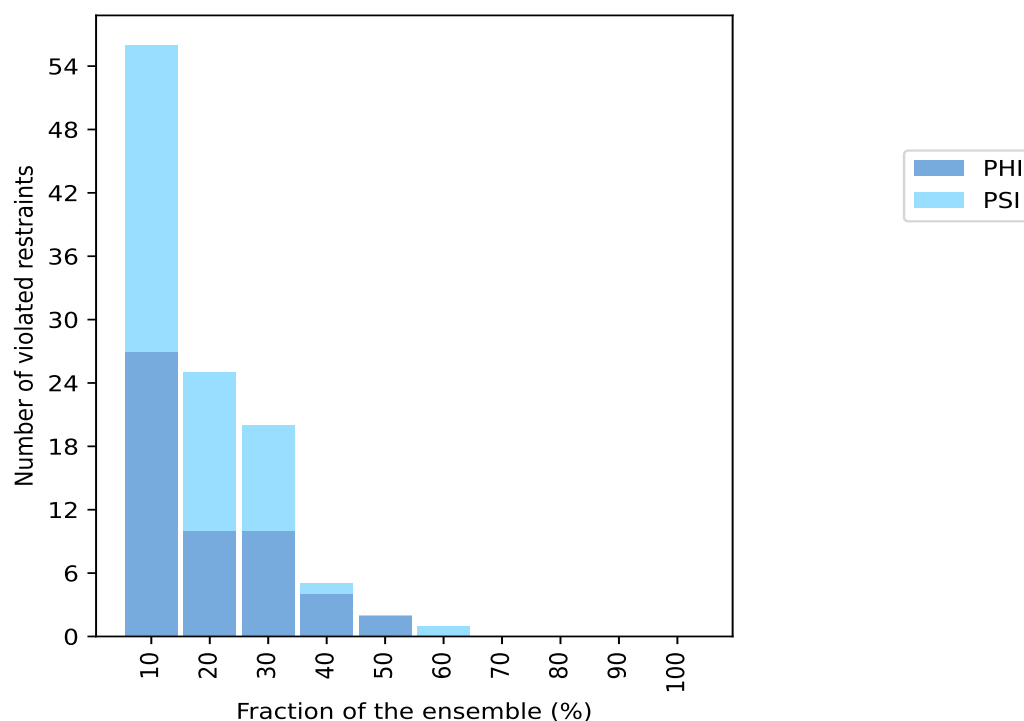
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
27	29	56	1	10.0
10	15	25	2	20.0
10	10	20	3	30.0
4	1	5	4	40.0
2	0	2	5	50.0
0	1	1	6	60.0
0	0	0	7	70.0
0	0	0	8	80.0
0	0	0	9	90.0
0	0	0	10	100.0

¹ Number of models with violations

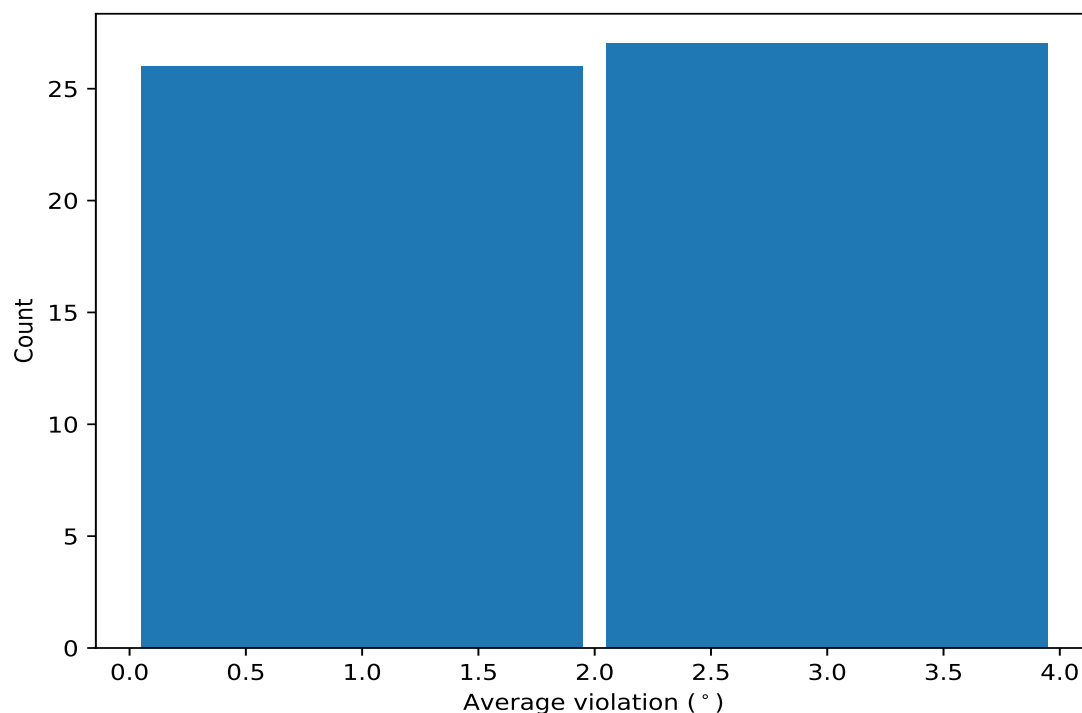
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	6	2.92	0.89	2.82
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	5	2.81	1.16	2.31
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	5	1.69	0.27	1.58
(1,201)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	4	2.36	0.57	2.4
(1,116)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	4	2.17	0.87	2.08
(1,88)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	4	2.04	0.77	1.86
(1,240)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	4	1.51	0.37	1.48
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	4	1.44	0.37	1.34
(1,249)	1:175:A:ASP:C	1:176:A:THR:N	1:176:A:THR:CA	1:176:A:THR:C	3	3.35	0.6	3.67
(1,256)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	3	2.91	1.29	3.44
(1,179)	1:133:A:GLN:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	3	2.85	0.49	2.62
(1,213)	1:156:A:ASP:C	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	3	2.84	0.57	2.57
(1,255)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	3	2.68	0.68	2.73

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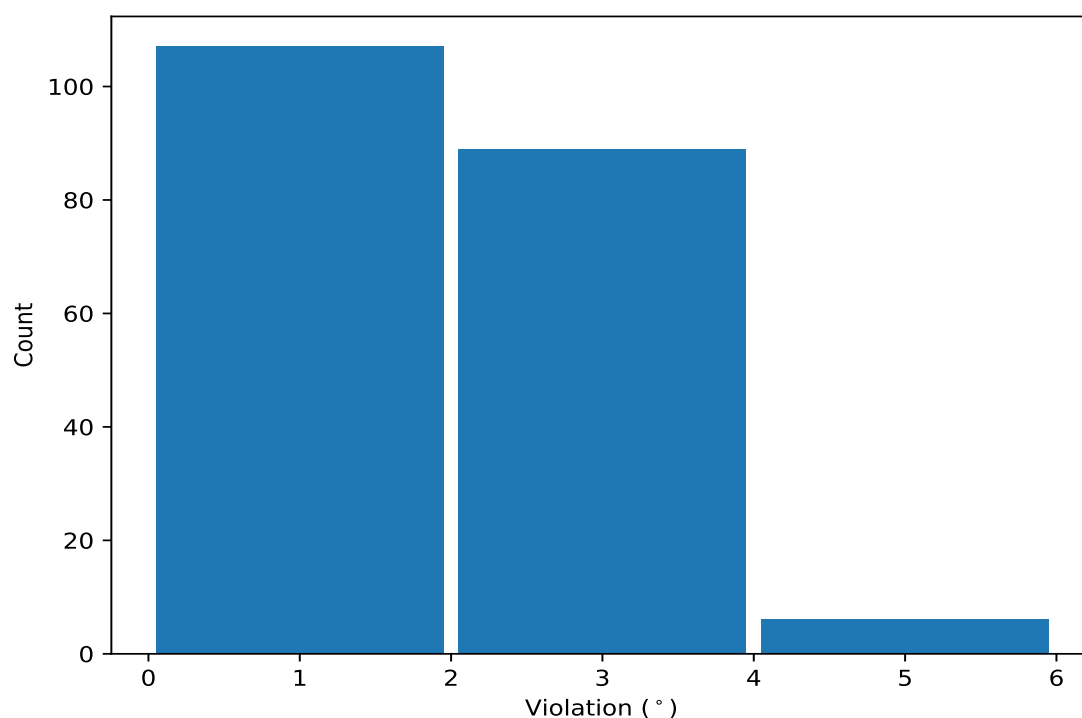
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,280)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	3	2.51	0.43	2.54
(1,251)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	3	2.45	0.86	2.47
(1,146)	1:110:A:ILE:C	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	3	2.24	0.82	1.75
(1,219)	1:159:A:GLN:C	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	3	2.21	0.09	2.22
(1,180)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	3	2.13	0.67	1.66
(1,260)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	3	1.98	0.35	2.03
(1,245)	1:173:A:ARG:C	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	3	1.95	0.33	1.76
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	3	1.9	0.03	1.92
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	3	1.9	0.53	2.09
(1,113)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	3	1.89	0.83	1.64
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	3	1.86	0.46	1.76
(1,268)	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	1:190:A:LEU:N	3	1.86	0.96	1.33
(1,302)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:GLY:N	3	1.84	0.37	2.09
(1,87)	1:72:A:SER:N	1:72:A:SER:CA	1:72:A:SER:C	1:73:A:GLY:N	3	1.7	0.6	1.39
(1,269)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	3	1.34	0.34	1.15
(1,29)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	2	3.43	1.24	3.43
(1,263)	1:186:A:VAL:C	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	2	3.42	0.02	3.42
(1,230)	1:166:A:ALA:N	1:166:A:ALA:CA	1:166:A:ALA:C	1:167:A:GLY:N	2	3.04	0.07	3.04
(1,193)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	2	2.62	0.48	2.62
(1,198)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:THR:N	2	2.62	0.22	2.62
(1,28)	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	1:36:A:GLU:N	2	2.47	1.18	2.47
(1,304)	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	1:216:A:TYR:N	2	2.32	0.65	2.32
(1,121)	1:92:A:VAL:N	1:92:A:VAL:CA	1:92:A:VAL:C	1:93:A:ASP:N	2	2.22	0.49	2.22
(1,209)	1:153:A:LYS:C	1:154:A:HIS:N	1:154:A:HIS:CA	1:154:A:HIS:C	2	2.09	0.64	2.09
(1,83)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	2	2.06	0.01	2.06
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	2	2.03	0.14	2.03
(1,177)	1:132:A:GLY:C	1:133:A:GLN:N	1:133:A:GLN:CA	1:133:A:GLN:C	2	2.02	0.56	2.02
(1,145)	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	1:107:A:LEU:N	2	1.93	0.11	1.93
(1,123)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:THR:N	2	1.92	0.34	1.92
(1,234)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	2	1.89	0.38	1.89
(1,135)	1:101:A:ALA:N	1:101:A:ALA:CA	1:101:A:ALA:C	1:102:A:ASP:N	2	1.87	0.38	1.87
(1,267)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	2	1.86	0.1	1.86
(1,235)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	2	1.85	0.1	1.85
(1,3)	1:18:A:GLU:C	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	2	1.68	0.1	1.68
(1,310)	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	1:220:A:LEU:N	2	1.64	0.28	1.64
(1,31)	1:39:A:SER:N	1:39:A:SER:CA	1:39:A:SER:C	1:40:A:ASN:N	2	1.5	0.33	1.5
(1,93)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	2	1.48	0.46	1.48
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	2	1.38	0.06	1.38
(1,95)	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	1:78:A:ILE:N	2	1.38	0.04	1.38
(1,34)	1:41:A:LYS:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	2	1.32	0.02	1.32

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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



10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	9	4.96
(1,29)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	9	4.67
(1,306)	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	1:217:A:PRO:N	3	4.32
(1,248)	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	1:176:A:THR:N	5	4.28
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	2	4.16
(1,256)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	2	4.16
(1,204)	1:151:A:ILE:N	1:151:A:ILE:CA	1:151:A:ILE:C	1:152:A:THR:N	5	3.99
(1,249)	1:175:A:ASP:C	1:176:A:THR:N	1:176:A:THR:CA	1:176:A:THR:C	9	3.86
(1,119)	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	1:92:A:VAL:N	2	3.78
(1,315)	1:221:A:PHE:C	1:222:A:VAL:N	1:222:A:VAL:CA	1:222:A:VAL:C	7	3.74
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	8	3.71
(1,249)	1:175:A:ASP:C	1:176:A:THR:N	1:176:A:THR:CA	1:176:A:THR:C	10	3.67
(1,28)	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	1:36:A:GLU:N	6	3.65
(1,213)	1:156:A:ASP:C	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	6	3.63
(1,27)	1:34:A:ILE:C	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	9	3.6
(1,179)	1:133:A:GLN:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	10	3.53
(1,255)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	9	3.49
(1,251)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	2	3.49
(1,116)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	5	3.49
(1,270)	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	1:191:A:LYS:N	7	3.48
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	6	3.48

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,263)	1:186:A:VAL:C	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	4	3.44
(1,256)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	9	3.44
(1,146)	1:110:A:ILE:C	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	4	3.4
(1,263)	1:186:A:VAL:C	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	3	3.39
(1,8)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:PHE:N	1	3.32
(1,88)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	5	3.25
(1,268)	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	1:190:A:LEU:N	9	3.2
(1,230)	1:166:A:ALA:N	1:166:A:ALA:CA	1:166:A:ALA:C	1:167:A:GLY:N	7	3.11
(1,193)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	10	3.11
(1,180)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	2	3.08
(1,201)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	2	3.05
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1	3.03
(1,280)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	5	3.01
(1,113)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	8	3.01
(1,304)	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	1:216:A:TYR:N	10	2.97
(1,230)	1:166:A:ALA:N	1:166:A:ALA:CA	1:166:A:ALA:C	1:167:A:GLY:N	1	2.97
(1,80)	1:68:A:SER:C	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	7	2.85
(1,198)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:THR:N	4	2.83
(1,183)	1:135:A:GLY:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	5	2.83
(1,255)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	2	2.73
(1,209)	1:153:A:LYS:C	1:154:A:HIS:N	1:154:A:HIS:CA	1:154:A:HIS:C	6	2.73
(1,201)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	1	2.73
(1,121)	1:92:A:VAL:N	1:92:A:VAL:CA	1:92:A:VAL:C	1:93:A:ASP:N	4	2.71
(1,127)	1:96:A:ILE:N	1:96:A:ILE:CA	1:96:A:ILE:C	1:97:A:GLY:N	4	2.7
(1,301)	1:213:A:PHE:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1	2.67
(1,194)	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1:147:A:LYS:N	7	2.63
(1,237)	1:169:A:SER:C	1:170:A:PHE:N	1:170:A:PHE:CA	1:170:A:PHE:C	3	2.62
(1,179)	1:133:A:GLN:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	9	2.62
(1,177)	1:132:A:GLY:C	1:133:A:GLN:N	1:133:A:GLN:CA	1:133:A:GLN:C	5	2.58
(1,213)	1:156:A:ASP:C	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	8	2.57
(1,280)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	4	2.54
(1,266)	1:188:A:LEU:N	1:188:A:LEU:CA	1:188:A:LEU:C	1:189:A:HIS:N	3	2.53
(1,87)	1:72:A:SER:N	1:72:A:SER:CA	1:72:A:SER:C	1:73:A:GLY:N	10	2.53
(1,249)	1:175:A:ASP:C	1:176:A:THR:N	1:176:A:THR:CA	1:176:A:THR:C	4	2.51
(1,314)	1:221:A:PHE:N	1:221:A:PHE:CA	1:221:A:PHE:C	1:222:A:VAL:N	6	2.5
(1,33)	1:41:A:LYS:N	1:41:A:LYS:CA	1:41:A:LYS:C	1:42:A:GLU:N	5	2.48
(1,251)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	1	2.47
(1,191)	1:144:A:VAL:C	1:145:A:ALA:N	1:145:A:ALA:CA	1:145:A:ALA:C	5	2.47
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	5	2.47
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	8	2.44
(1,245)	1:173:A:ARG:C	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	7	2.41
(1,179)	1:133:A:GLN:C	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1	2.41
(1,198)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:THR:N	5	2.4
(1,260)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	10	2.38
(1,233)	1:167:A:GLY:C	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	4	2.35
(1,219)	1:159:A:GLN:C	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	7	2.32
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	5	2.31
(1,213)	1:156:A:ASP:C	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	4	2.31
(1,234)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	10	2.27
(1,123)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:THR:N	3	2.26
(1,135)	1:101:A:ALA:N	1:101:A:ALA:CA	1:101:A:ALA:C	1:102:A:ASP:N	9	2.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,116)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	8	2.24
(1,219)	1:159:A:GLN:C	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	5	2.22
(1,257)	1:183:A:GLY:C	1:184:A:THR:N	1:184:A:THR:CA	1:184:A:THR:C	6	2.2
(1,29)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	5	2.19
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	5	2.17
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	4	2.15
(1,193)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	8	2.14
(1,302)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:GLY:N	9	2.11
(1,88)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	4	2.1
(1,302)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:GLY:N	8	2.09
(1,219)	1:159:A:GLN:C	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	10	2.09
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	4	2.09
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	6	2.07
(1,83)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	7	2.07
(1,62)	1:56:A:LEU:C	1:57:A:ASP:N	1:57:A:ASP:CA	1:57:A:ASP:C	6	2.07
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	5	2.06
(1,201)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	9	2.06
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	7	2.05
(1,83)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	6	2.05
(1,145)	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	1:107:A:LEU:N	10	2.04
(1,260)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	3	2.03
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	5	2.03
(1,240)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	2	2.0
(1,280)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	7	1.97
(1,267)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	10	1.97
(1,262)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	1	1.97
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	1	1.97
(1,246)	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	1:175:A:ASP:N	3	1.97
(1,235)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	3	1.95
(1,93)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	9	1.95
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	2	1.93
(1,310)	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	1:220:A:LEU:N	9	1.92
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	4	1.92
(1,116)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	3	1.91
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	4	1.89
(1,242)	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	1:173:A:ARG:N	2	1.88
(1,92)	1:74:A:LYS:C	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	10	1.86
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	8	1.86
(1,255)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	3	1.83
(1,303)	1:214:A:ILE:C	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	7	1.82
(1,269)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	8	1.82
(1,145)	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	1:107:A:LEU:N	4	1.82
(1,31)	1:39:A:SER:N	1:39:A:SER:CA	1:39:A:SER:C	1:40:A:ASN:N	9	1.82
(1,30)	1:38:A:TYR:C	1:39:A:SER:N	1:39:A:SER:CA	1:39:A:SER:C	2	1.79
(1,3)	1:18:A:GLU:C	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	9	1.78
(1,144)	1:105:A:ASN:C	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	6	1.77
(1,267)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	9	1.76
(1,245)	1:173:A:ARG:C	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	1	1.76
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	1	1.76
(1,235)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	4	1.75
(1,146)	1:110:A:ILE:C	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	7	1.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,121)	1:92:A:VAL:N	1:92:A:VAL:CA	1:92:A:VAL:C	1:93:A:ASP:N	10	1.73
(1,240)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	4	1.72
(1,82)	1:69:A:LYS:C	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1	1.7
(1,99)	1:79:A:ASN:N	1:79:A:ASN:CA	1:79:A:ASN:C	1:80:A:LEU:N	4	1.69
(1,304)	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	1:216:A:TYR:N	9	1.67
(1,275)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	7	1.67
(1,245)	1:173:A:ARG:C	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	2	1.67
(1,225)	1:162:A:TRP:C	1:163:A:GLU:N	1:163:A:GLU:CA	1:163:A:GLU:C	6	1.66
(1,180)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	7	1.66
(1,202)	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	1:151:A:ILE:N	10	1.65
(1,180)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	3	1.65
(1,113)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	7	1.64
(1,147)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	4	1.62
(1,88)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	3	1.62
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	4	1.58
(1,201)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	8	1.58
(1,123)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:THR:N	1	1.58
(1,184)	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	1:137:A:GLY:N	5	1.57
(1,146)	1:110:A:ILE:C	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	2	1.57
(1,3)	1:18:A:GLU:C	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	4	1.57
(1,117)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	5	1.54
(1,260)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	5	1.53
(1,85)	1:71:A:ASP:N	1:71:A:ASP:CA	1:71:A:ASP:C	1:72:A:SER:N	1	1.53
(1,234)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	3	1.51
(1,135)	1:101:A:ALA:N	1:101:A:ALA:CA	1:101:A:ALA:C	1:102:A:ASP:N	2	1.49
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	9	1.47
(1,177)	1:132:A:GLY:C	1:133:A:GLN:N	1:133:A:GLN:CA	1:133:A:GLN:C	6	1.47
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	6	1.47
(1,209)	1:153:A:LYS:C	1:154:A:HIS:N	1:154:A:HIS:CA	1:154:A:HIS:C	5	1.46
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	10	1.45
(1,222)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	1	1.44
(1,95)	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	1:78:A:ILE:N	6	1.43
(1,57)	1:54:A:ASP:N	1:54:A:ASP:CA	1:54:A:ASP:C	1:55:A:ALA:N	8	1.4
(1,224)	1:162:A:TRP:N	1:162:A:TRP:CA	1:162:A:TRP:C	1:163:A:GLU:N	5	1.39
(1,87)	1:72:A:SER:N	1:72:A:SER:CA	1:72:A:SER:C	1:73:A:GLY:N	7	1.39
(1,81)	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	1:70:A:LEU:N	2	1.39
(1,251)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	7	1.38
(1,107)	1:83:A:ASN:N	1:83:A:ASN:CA	1:83:A:ASN:C	1:84:A:LYS:N	7	1.38
(1,247)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	10	1.37
(1,67)	1:60:A:ARG:N	1:60:A:ARG:CA	1:60:A:ARG:C	1:61:A:TYR:N	6	1.37
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	8	1.36
(1,310)	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	1:220:A:LEU:N	4	1.35
(1,95)	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	1:78:A:ILE:N	2	1.34
(1,34)	1:41:A:LYS:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	9	1.34
(1,268)	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	1:190:A:LEU:N	1	1.33
(1,11)	1:23:A:GLN:C	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	10	1.33
(1,124)	1:93:A:ASP:C	1:94:A:THR:N	1:94:A:THR:CA	1:94:A:THR:C	3	1.32
(1,118)	1:90:A:THR:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	4	1.32
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	6	1.32
(1,302)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:GLY:N	2	1.31
(1,34)	1:41:A:LYS:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	10	1.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,28)	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	1:36:A:GLU:N	10	1.29
(1,264)	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	1:188:A:LEU:N	3	1.28
(1,90)	1:73:A:GLY:C	1:74:A:LYS:N	1:74:A:LYS:CA	1:74:A:LYS:C	1	1.27
(1,240)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	10	1.24
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	7	1.21
(1,207)	1:152:A:THR:C	1:153:A:LYS:N	1:153:A:LYS:CA	1:153:A:LYS:C	4	1.19
(1,88)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	2	1.19
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	5	1.18
(1,87)	1:72:A:SER:N	1:72:A:SER:CA	1:72:A:SER:C	1:73:A:GLY:N	3	1.17
(1,31)	1:39:A:SER:N	1:39:A:SER:CA	1:39:A:SER:C	1:40:A:ASN:N	1	1.17
(1,305)	1:215:A:GLY:C	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	5	1.16
(1,269)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	10	1.15
(1,256)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	7	1.14
(1,106)	1:82:A:PRO:C	1:83:A:ASN:N	1:83:A:ASN:CA	1:83:A:ASN:C	7	1.13
(1,265)	1:187:A:ILE:C	1:188:A:LEU:N	1:188:A:LEU:CA	1:188:A:LEU:C	9	1.09
(1,240)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	1	1.08
(1,116)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	2	1.06
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	3	1.06
(1,273)	1:191:A:LYS:C	1:192:A:GLU:N	1:192:A:GLU:CA	1:192:A:GLU:C	1	1.05
(1,269)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	4	1.04
(1,268)	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	1:190:A:LEU:N	6	1.04
(1,238)	1:170:A:PHE:N	1:170:A:PHE:CA	1:170:A:PHE:C	1:171:A:THR:N	6	1.04
(1,32)	1:40:A:ASN:C	1:41:A:LYS:N	1:41:A:LYS:CA	1:41:A:LYS:C	5	1.04
(1,143)	1:105:A:ASN:N	1:105:A:ASN:CA	1:105:A:ASN:C	1:106:A:ASN:N	4	1.03
(1,309)	1:218:A:ILE:C	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	6	1.02
(1,93)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	2	1.02
(1,214)	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	1:158:A:GLU:N	5	1.01
(1,113)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	5	1.01