



Full wwPDB NMR Structure Validation Report ⓘ

Feb 4, 2026 – 07:15 PM JST

PDB ID : 9X73 / pdb_00009x73
BMRB ID : 36799
Title : Hsp90a T115E N-terminal domain
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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

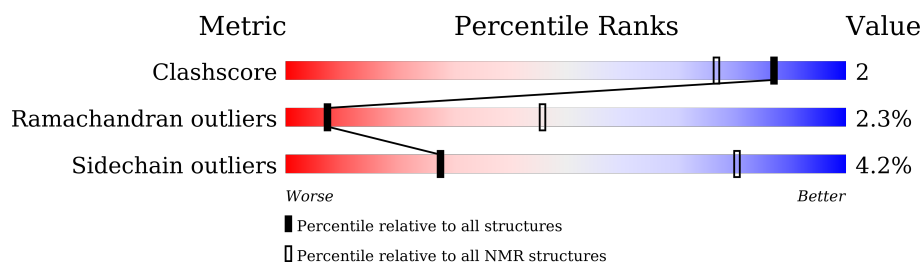
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 43%.

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	 82% . . 13%

2 Ensemble composition and analysis

This entry contains 10 models. Model 10 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:109, A:117-A:222 (200)	2.04	10

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

Cluster number	Models
1	2, 6, 7, 10
2	1, 3, 4, 5
3	8, 9

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:

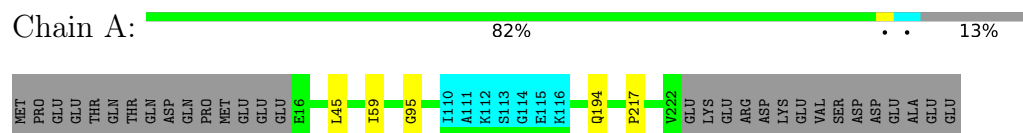
Chain	Residue	Modelled	Actual	Comment	Reference
A	115	GLU	THR	engineered mutation	UNP P07900

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

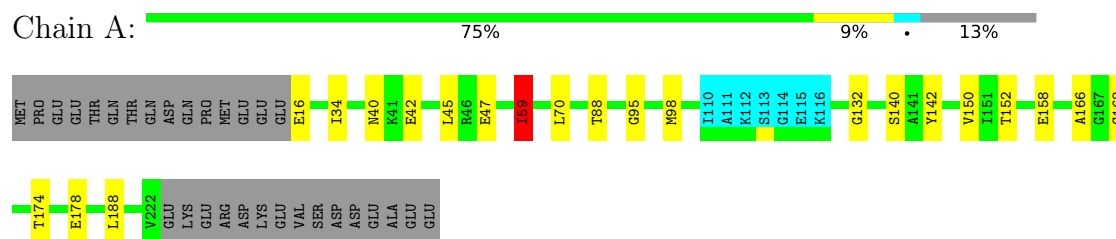


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

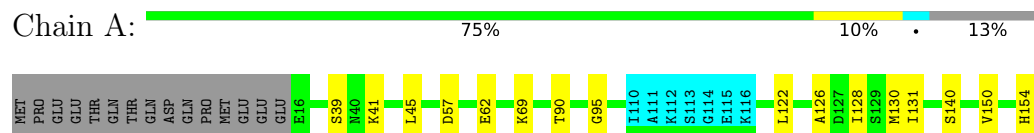
4.2.1 Score per residue for model 1

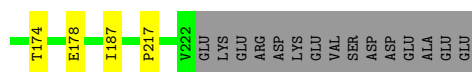
- Molecule 1: Heat shock protein HSP 90-alpha



4.2.2 Score per residue for model 2

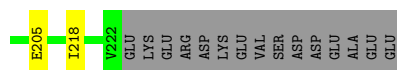
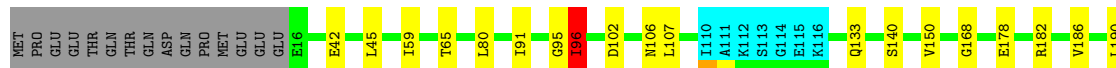
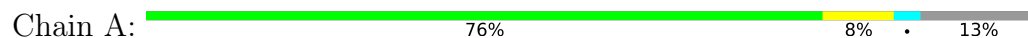
- Molecule 1: Heat shock protein HSP 90-alpha





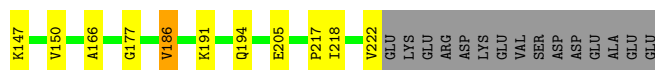
4.2.3 Score per residue for model 3

- Molecule 1: Heat shock protein HSP 90-alpha



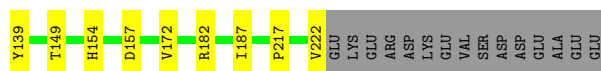
4.2.4 Score per residue for model 4

- Molecule 1: Heat shock protein HSP 90-alpha



4.2.5 Score per residue for model 5

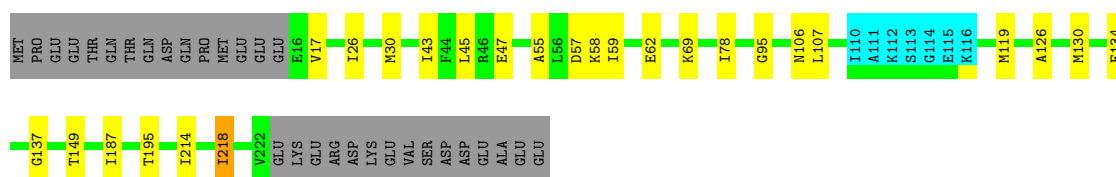
- Molecule 1: Heat shock protein HSP 90-alpha



4.2.6 Score per residue for model 6

- Molecule 1: Heat shock protein HSP 90-alpha

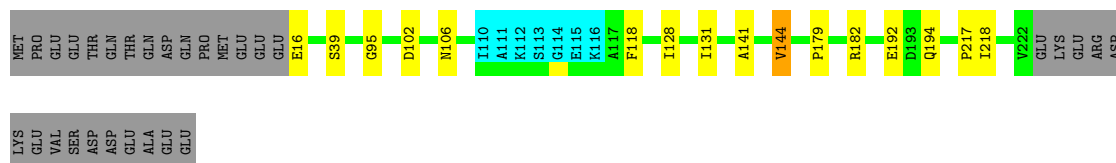




4.2.7 Score per residue for model 7

- Molecule 1: Heat shock protein HSP 90-alpha

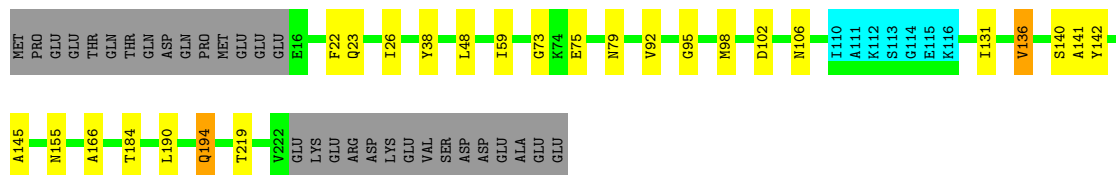
Chain A: 78% 6% 13%



4.2.8 Score per residue for model 8

- Molecule 1: Heat shock protein HSP 90-alpha

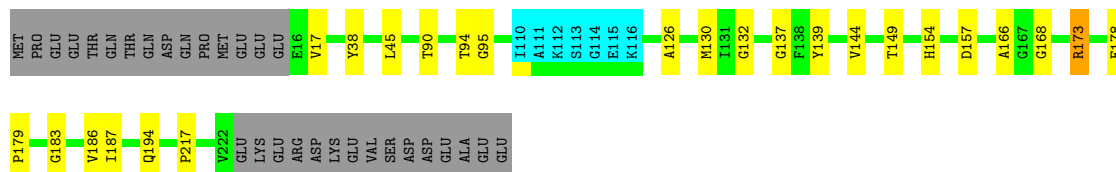
Chain A: 73% 10% 13%



4.2.9 Score per residue for model 9

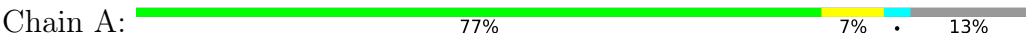
- Molecule 1: Heat shock protein HSP 90-alpha

Chain A: 74% 10% 13%



4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: Heat shock protein HSP 90-alpha



MET	PRO	GLU	GLU	THR	GLN	THR	GLN	ASP	GLN	PRO	MET	GLU	GLU	E16	S39	E47	L56	I59	L76	T88	T94	I110	A111	K112	S113	G114	E115	K116	L122	L143	V144	K153	E158	Q159	M180	H189	Q194	P217	V222	GLU	LYS		
GLU	ARG	ASP	LYS	GLU	VAL	SER	ASP	ASP	GLU	ALA	GLU	GLU																															

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	1197
Number of shifts mapped to atoms	1197
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	43%

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	1.25±0.02	1±1/1604 (0.1± 0.1%)	0.96±0.01	0±0/2165 (0.0± 0.0%)
All	All	1.25	11/16040 (0.1%)	0.96	0/21650 (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	218	ILE	CA-CB	5.97	1.60	1.53	3	3
1	A	17	VAL	CA-CB	5.50	1.59	1.53	6	1
1	A	150	VAL	CA-CB	5.43	1.60	1.53	1	2
1	A	59	ILE	CA-CB	5.36	1.60	1.54	1	2
1	A	96	ILE	CA-CB	5.27	1.60	1.54	3	1
1	A	92	VAL	CA-CB	5.22	1.59	1.53	8	1
1	A	140	SER	CA-C	5.04	1.55	1.52	8	1

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1578	1576	1571	6±1
All	All	15780	15760	15710	60

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:131:ILE:HG23	1:A:136:VAL:HA	0.64	1.69	8	1
1:A:58:LYS:HG3	1:A:98:MET:SD	0.63	2.32	4	1
1:A:126:ALA:HB1	1:A:130:MET:HG3	0.61	1.73	9	2
1:A:62:GLU:HG3	1:A:69:LYS:HE3	0.59	1.73	5	1
1:A:102:ASP:HA	1:A:106:ASN:HB2	0.59	1.74	3	2
1:A:154:HIS:HB3	1:A:157:ASP:HB3	0.59	1.74	9	1
1:A:17:VAL:HA	1:A:173:ARG:HB3	0.56	1.76	9	1
1:A:141:ALA:HB1	1:A:144:VAL:HG22	0.55	1.78	7	1
1:A:150:VAL:HG12	1:A:186:VAL:HG13	0.55	1.78	3	1
1:A:126:ALA:HB1	1:A:130:MET:SD	0.55	2.42	6	2
1:A:190:LEU:HD13	1:A:194:GLN:NE2	0.54	2.18	8	1
1:A:47:GLU:HB3	1:A:137:GLY:HA3	0.51	1.83	6	1
1:A:55:ALA:HA	1:A:58:LYS:HG2	0.51	1.83	6	1
1:A:144:VAL:HA	1:A:194:GLN:HG3	0.50	1.83	4	3
1:A:132:GLY:HA2	1:A:137:GLY:HA3	0.50	1.83	9	1
1:A:56:LEU:HD22	1:A:76:LEU:HD23	0.50	1.84	10	1
1:A:98:MET:HB2	1:A:152:THR:HG21	0.49	1.84	1	1
1:A:62:GLU:HB3	1:A:69:LYS:HG2	0.49	1.83	2	2
1:A:94:THR:O	1:A:183:GLY:HA2	0.49	2.07	9	1
1:A:149:THR:HG23	1:A:187:ILE:HB	0.48	1.85	6	3
1:A:91:ILE:HB	1:A:186:VAL:HG13	0.48	1.86	4	1
1:A:90:THR:HG22	1:A:187:ILE:HG22	0.48	1.86	2	1
1:A:80:LEU:HG	1:A:91:ILE:HG22	0.47	1.86	3	1
1:A:96:ILE:HG13	1:A:182:ARG:HB3	0.47	1.85	3	1
1:A:154:HIS:HB3	1:A:157:ASP:HB2	0.46	1.87	5	1
1:A:23:GLN:HB2	1:A:26:ILE:HG22	0.46	1.86	8	1
1:A:54:ASP:O	1:A:58:LYS:HG2	0.46	2.11	4	1
1:A:59:ILE:HD11	1:A:76:LEU:HD21	0.45	1.87	5	1
1:A:153:LYS:HE2	1:A:180:MET:HB3	0.45	1.88	10	1
1:A:145:ALA:HA	1:A:190:LEU:HA	0.45	1.89	8	1
1:A:34:ILE:HD12	1:A:142:TYR:HB3	0.44	1.90	1	1
1:A:98:MET:SD	1:A:184:THR:HG21	0.44	2.53	8	1
1:A:59:ILE:HG12	1:A:70:LEU:HD11	0.43	1.90	1	1
1:A:78:ILE:HD11	1:A:218:ILE:HG12	0.42	1.91	6	1
1:A:59:ILE:HD13	1:A:70:LEU:HD21	0.42	1.91	5	1
1:A:158:GLU:HG2	1:A:159:GLN:NE2	0.42	2.28	10	1
1:A:146:GLU:HG3	1:A:147:LYS:HG2	0.42	1.91	4	1
1:A:16:GLU:N	1:A:174:THR:HG1	0.42	2.12	1	1
1:A:52:SER:O	1:A:56:LEU:HG	0.42	2.15	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:90:THR:HA	1:A:186:VAL:O	0.42	2.15	9	1
1:A:69:LYS:HA	1:A:155:ASN:HD22	0.42	1.74	2	1
1:A:44:PHE:O	1:A:48:LEU:HB2	0.41	2.15	4	1
1:A:160:TYR:CE2	1:A:174:THR:HG22	0.41	2.50	2	1
1:A:144:VAL:HB	1:A:194:GLN:HG2	0.41	1.91	7	1
1:A:88:THR:HG22	1:A:189:HIS:HA	0.41	1.93	10	1
1:A:102:ASP:HA	1:A:106:ASN:HB3	0.41	1.92	7	1
1:A:128:ILE:O	1:A:131:ILE:HG13	0.40	2.16	2	1
1:A:47:GLU:HG2	1:A:132:GLY:HA2	0.40	1.94	1	1
1:A:26:ILE:O	1:A:30:MET:HG2	0.40	2.16	6	1
1:A:118:PHE:HZ	1:A:128:ILE:HA	0.40	1.75	7	1
1:A:78:ILE:HG23	1:A:218:ILE:HG22	0.40	1.94	4	1
1:A:33:ILE:HD11	1:A:128:ILE:HG23	0.40	1.92	5	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	198/237 (84%)	178±3 (90±1%)	15±2 (8±1%)	5±2 (2±1%)	7	46
All	All	1980/2370 (84%)	1782 (90%)	152 (8%)	46 (2%)	7	46

All 21 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	95	GLY	7
1	A	217	PRO	6
1	A	166	ALA	5
1	A	39	SER	4
1	A	168	GLY	3
1	A	140	SER	2
1	A	178	GLU	2
1	A	94	THR	2
1	A	179	PRO	2

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Mol	Chain	Res	Type	Models (Total)
1	A	38	TYR	2
1	A	40	ASN	1
1	A	107	LEU	1
1	A	133	GLN	1
1	A	177	GLY	1
1	A	108	GLY	1
1	A	139	TYR	1
1	A	182	ARG	1
1	A	195	THR	1
1	A	73	GLY	1
1	A	75	GLU	1
1	A	141	ALA	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	173/207 (84%)	166±2 (96±1%)	7±2 (4±1%)	27	80
All	All	1730/2070 (84%)	1658 (96%)	72 (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	45	LEU	7
1	A	59	ILE	5
1	A	122	LEU	3
1	A	96	ILE	3
1	A	42	GLU	2
1	A	140	SER	2
1	A	178	GLU	2
1	A	57	ASP	2
1	A	205	GLU	2
1	A	22	PHE	2
1	A	107	LEU	2
1	A	134	PHE	2
1	A	222	VAL	2

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Mol	Chain	Res	Type	Models (Total)
1	A	79	ASN	2
1	A	16	GLU	2
1	A	88	THR	1
1	A	158	GLU	1
1	A	188	LEU	1
1	A	41	LYS	1
1	A	150	VAL	1
1	A	154	HIS	1
1	A	65	THR	1
1	A	190	LEU	1
1	A	25	GLU	1
1	A	186	VAL	1
1	A	191	LYS	1
1	A	37	PHE	1
1	A	56	LEU	1
1	A	172	VAL	1
1	A	43	ILE	1
1	A	106	ASN	1
1	A	214	ILE	1
1	A	131	ILE	1
1	A	144	VAL	1
1	A	182	ARG	1
1	A	192	GLU	1
1	A	48	LEU	1
1	A	136	VAL	1
1	A	142	TYR	1
1	A	155	ASN	1
1	A	194	GLN	1
1	A	219	THR	1
1	A	139	TYR	1
1	A	173	ARG	1
1	A	47	GLU	1
1	A	143	LEU	1
1	A	159	GLN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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 43% for the well-defined parts and 42% 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	1197
Number of shifts mapped to atoms	1197
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	11

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	185	2.06 ± 0.20	Should be checked
$^{13}\text{C}_\beta$	162	3.06 ± 0.09	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	174	0.76 ± 0.23	Should be applied

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 43%, i.e. 1182 atoms were assigned a chemical shift out of a possible 2734. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	528/1006 (52%)	173/410 (42%)	182/400 (46%)	173/196 (88%)
Sidechain	582/1521 (38%)	327/990 (33%)	255/481 (53%)	0/50 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	72/207 (35%)	42/100 (42%)	30/98 (31%)	0/9 (0%)
Overall	1182/2734 (43%)	542/1500 (36%)	467/979 (48%)	173/255 (68%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 42%, i.e. 1197 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	533/1042 (51%)	174/425 (41%)	185/414 (45%)	174/203 (86%)
Sidechain	592/1574 (38%)	333/1024 (33%)	259/498 (52%)	0/52 (0%)
Aromatic	72/207 (35%)	42/100 (42%)	30/98 (31%)	0/9 (0%)
Overall	1197/2823 (42%)	549/1549 (35%)	474/1010 (47%)	174/264 (66%)

7.1.4 Statistically unusual chemical shifts ⓘ

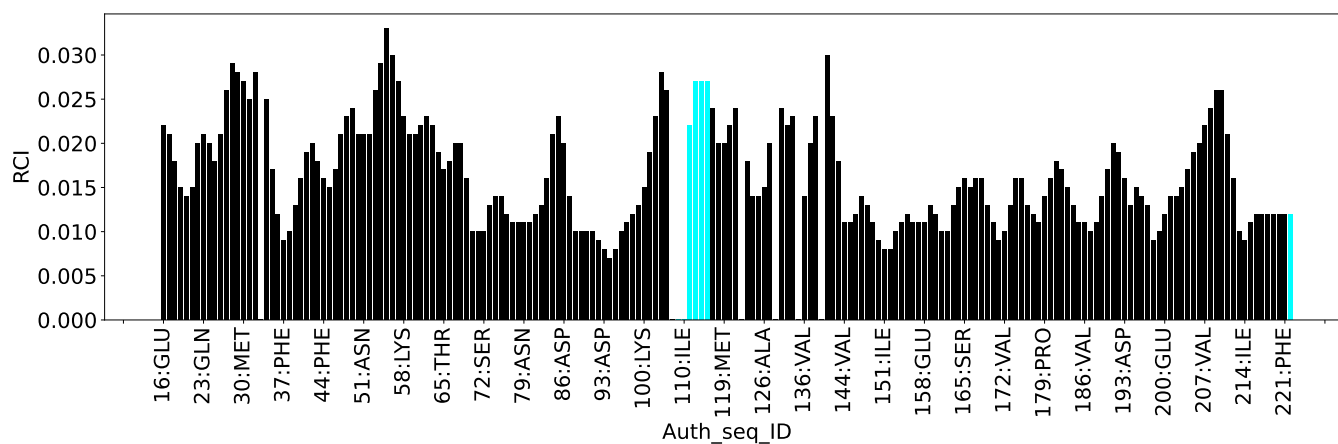
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	144	VAL	CG1	12.75	14.71 – 28.29	-6.4
1	A	37	PHE	CB	27.52	29.72 – 50.07	-6.1
1	A	107	LEU	HD11	-0.90	-0.61 – 2.12	-6.1
1	A	107	LEU	HD12	-0.90	-0.61 – 2.12	-6.1
1	A	107	LEU	HD13	-0.90	-0.61 – 2.12	-6.1
1	A	144	VAL	HG11	-0.70	-0.48 – 2.12	-5.9
1	A	144	VAL	HG12	-0.70	-0.48 – 2.12	-5.9
1	A	144	VAL	HG13	-0.70	-0.48 – 2.12	-5.9
1	A	107	LEU	HD21	-0.67	-0.65 – 2.13	-5.1
1	A	107	LEU	HD22	-0.67	-0.65 – 2.13	-5.1
1	A	107	LEU	HD23	-0.67	-0.65 – 2.13	-5.1

7.1.5 Random Coil Index (RCI) plots ⓘ

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	1666
Intra-residue ($ i-j =0$)	246
Sequential ($ i-j =1$)	405
Medium range ($ i-j >1$ and $ i-j <5$)	436
Long range ($ i-j \geq 5$)	579
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	329
Number of unmapped restraints	0
Number of restraints per residue	8.4
Number of long range restraints per residue ¹	2.4

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)	44.0	0.2
0.2-0.5 (Medium)	6.5	0.33
>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)	10.5	4.8
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

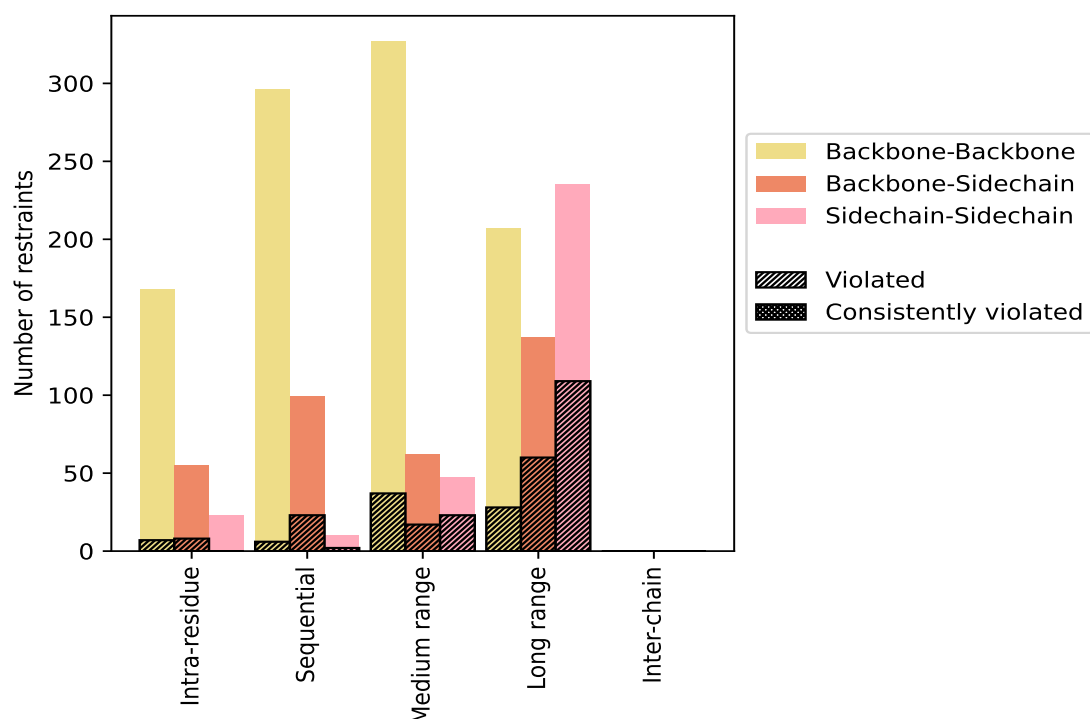
9.1 Summary of distance violations ⓘ

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)	246	14.8	15	6.1	0.9	0	0.0	0.0
Backbone-Backbone	168	10.1	7	4.2	0.4	0	0.0	0.0
Backbone-Sidechain	55	3.3	8	14.5	0.5	0	0.0	0.0
Sidechain-Sidechain	23	1.4	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	405	24.3	31	7.7	1.9	0	0.0	0.0
Backbone-Backbone	296	17.8	6	2.0	0.4	0	0.0	0.0
Backbone-Sidechain	99	5.9	23	23.2	1.4	0	0.0	0.0
Sidechain-Sidechain	10	0.6	2	20.0	0.1	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	436	26.2	77	17.7	4.6	0	0.0	0.0
Backbone-Backbone	327	19.6	37	11.3	2.2	0	0.0	0.0
Backbone-Sidechain	62	3.7	17	27.4	1.0	0	0.0	0.0
Sidechain-Sidechain	47	2.8	23	48.9	1.4	0	0.0	0.0
Long range (i-j ≥5)	579	34.8	197	34.0	11.8	0	0.0	0.0
Backbone-Backbone	207	12.4	28	13.5	1.7	0	0.0	0.0
Backbone-Sidechain	137	8.2	60	43.8	3.6	0	0.0	0.0
Sidechain-Sidechain	235	14.1	109	46.4	6.5	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	1666	100.0	320	19.2	19.2	0	0.0	0.0
Backbone-Backbone	998	59.9	78	7.8	4.7	0	0.0	0.0
Backbone-Sidechain	353	21.2	108	30.6	6.5	0	0.0	0.0
Sidechain-Sidechain	315	18.9	134	42.5	8.0	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

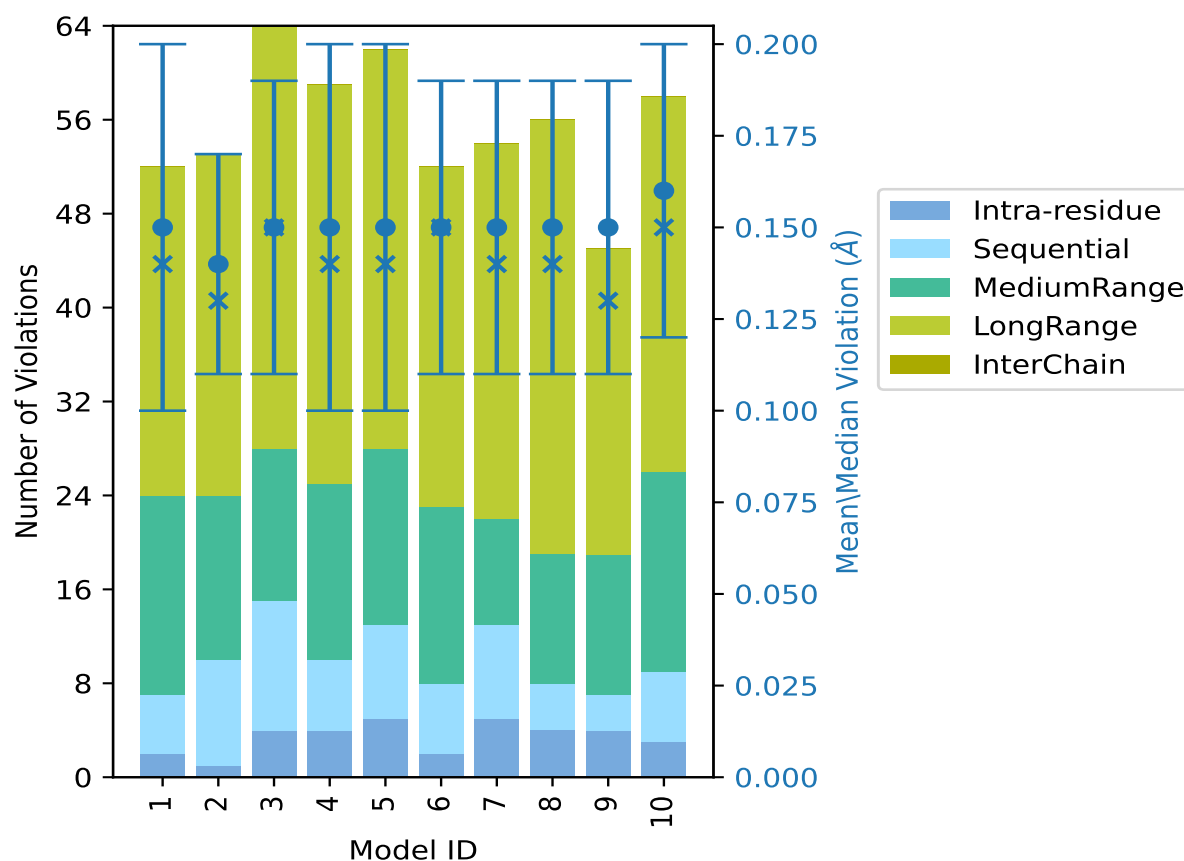
9.2 Distance violation statistics for each model [i](#)

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	2	5	17	28	0	52	0.15	0.28	0.05	0.14
2	1	9	14	29	0	53	0.14	0.27	0.03	0.13
3	4	11	13	36	0	64	0.15	0.29	0.04	0.15
4	4	6	15	34	0	59	0.15	0.3	0.05	0.14
5	5	8	15	34	0	62	0.15	0.33	0.05	0.14
6	2	6	15	29	0	52	0.15	0.26	0.04	0.15
7	5	8	9	32	0	54	0.15	0.25	0.04	0.14
8	4	4	11	37	0	56	0.15	0.26	0.04	0.14
9	4	3	12	26	0	45	0.15	0.26	0.04	0.13
10	3	6	17	32	0	58	0.16	0.27	0.04	0.15

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, 1346(IR:231, SQ:374, MR:359, LR:382, 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	%
8	14	40	121	0	183	1	10.0
4	10	22	48	0	84	2	20.0
1	3	8	16	0	28	3	30.0

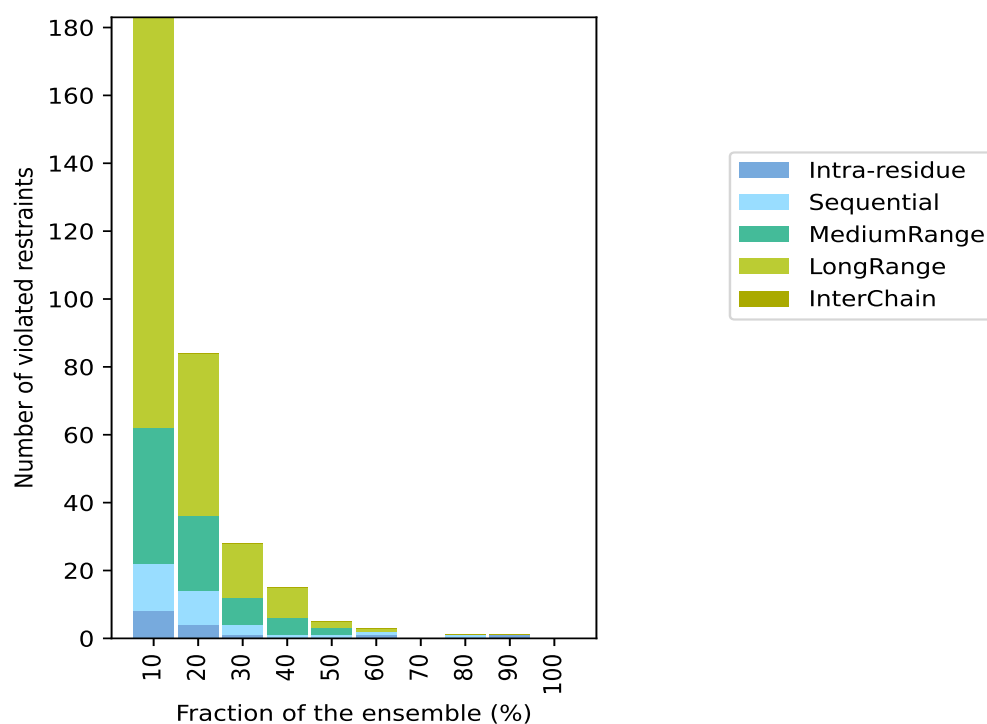
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	1	5	9	0	15	4	40.0
0	1	2	2	0	5	5	50.0
1	1	0	1	0	3	6	60.0
0	0	0	0	0	0	7	70.0
0	1	0	0	0	1	8	80.0
1	0	0	0	0	1	9	90.0
0	0	0	0	0	0	10	100.0

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 ⓘ

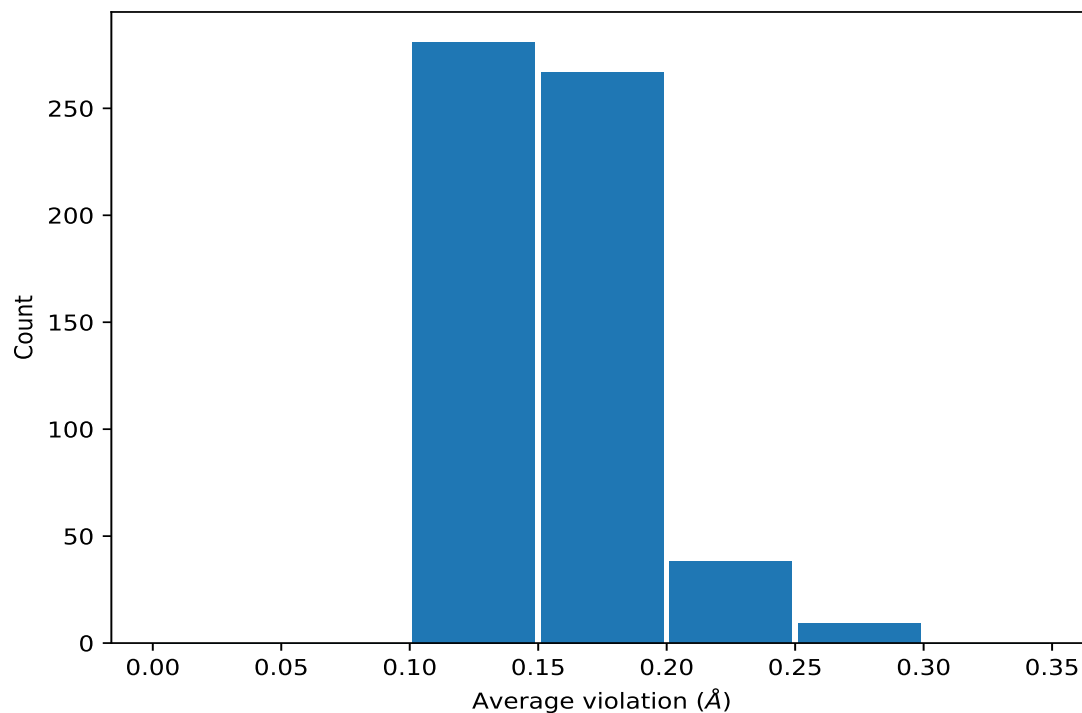


9.4 Most violated distance restraints in the ensemble ⓘ

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)
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	9	0.11	0.0	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	9	0.11	0.0	0.11
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	8	0.2	0.04	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	8	0.2	0.04	0.2
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	6	0.15	0.02	0.15
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	6	0.15	0.02	0.15
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	6	0.15	0.02	0.15
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	6	0.15	0.03	0.16
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	6	0.15	0.03	0.16
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	6	0.15	0.03	0.16
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	6	0.15	0.02	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	6	0.15	0.02	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	6	0.15	0.02	0.14
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	5	0.18	0.02	0.18
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	5	0.17	0.05	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	5	0.17	0.05	0.17
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	5	0.16	0.05	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	5	0.16	0.05	0.18
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	5	0.16	0.03	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	5	0.16	0.03	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	5	0.16	0.03	0.16
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	5	0.15	0.04	0.14
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	4	0.2	0.04	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	4	0.2	0.04	0.18
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD21	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD22	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD23	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD21	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD22	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD23	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD21	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD22	4	0.18	0.03	0.18
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD23	4	0.18	0.03	0.18
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB1	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB2	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB3	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB1	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB2	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB3	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB1	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB2	4	0.16	0.03	0.16
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB3	4	0.16	0.03	0.16
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD11	4	0.16	0.04	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD12	4	0.16	0.04	0.17
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD13	4	0.16	0.04	0.17
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG21	4	0.16	0.05	0.14
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG22	4	0.16	0.05	0.14
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG23	4	0.16	0.05	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB1	4	0.15	0.03	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB2	4	0.15	0.03	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB3	4	0.15	0.03	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG21	4	0.15	0.04	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG22	4	0.15	0.04	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG23	4	0.15	0.04	0.14
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	4	0.14	0.02	0.15
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	4	0.14	0.02	0.15
(1,91)	1:172:A:VAL:HG21	1:170:A:PHE:HE1	4	0.14	0.02	0.14
(1,91)	1:172:A:VAL:HG22	1:170:A:PHE:HE1	4	0.14	0.02	0.14
(1,91)	1:172:A:VAL:HG23	1:170:A:PHE:HE1	4	0.14	0.02	0.14
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG21	4	0.13	0.02	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG22	4	0.13	0.02	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG23	4	0.13	0.02	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	4	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	4	0.13	0.03	0.12
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	4	0.13	0.03	0.12
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	4	0.13	0.03	0.12
(1,1479)	1:211:A:SER:H	1:207:A:VAL:HA	4	0.13	0.03	0.12
(1,205)	1:213:A:PHE:HD1	1:214:A:ILE:H	4	0.13	0.01	0.12
(1,205)	1:213:A:PHE:HD2	1:214:A:ILE:H	4	0.13	0.01	0.12
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG21	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG22	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG23	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG21	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG22	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG23	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG21	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG22	3	0.22	0.01	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG23	3	0.22	0.01	0.23
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD1	3	0.19	0.08	0.14
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD2	3	0.19	0.08	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD1	3	0.19	0.08	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD2	3	0.19	0.08	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD1	3	0.19	0.08	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD2	3	0.19	0.08	0.14
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE1	3	0.19	0.03	0.21
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE2	3	0.19	0.03	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE1	3	0.19	0.03	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE2	3	0.19	0.03	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE1	3	0.19	0.03	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE2	3	0.19	0.03	0.21
(1,863)	1:155:A:ASN:H	1:157:A:ASP:H	3	0.18	0.03	0.17
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD11	3	0.18	0.03	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD12	3	0.18	0.03	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD13	3	0.18	0.03	0.16
(1,181)	1:216:A:TYR:HE1	1:54:A:ASP:H	3	0.18	0.03	0.19
(1,181)	1:216:A:TYR:HE2	1:54:A:ASP:H	3	0.18	0.03	0.19
(1,772)	1:181:A:GLY:H	1:182:A:ARG:H	3	0.18	0.03	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD21	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD22	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD23	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD21	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD22	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD23	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD21	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD22	3	0.17	0.02	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD23	3	0.17	0.02	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD11	3	0.17	0.04	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD12	3	0.17	0.04	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD13	3	0.17	0.04	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD11	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD12	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD13	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD11	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD12	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD13	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD11	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD12	3	0.17	0.01	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD13	3	0.17	0.01	0.17
(1,1110)	1:166:A:ALA:H	1:166:A:ALA:HA	3	0.16	0.04	0.18
(1,1543)	1:152:A:THR:H	1:159:A:GLN:HA	3	0.16	0.06	0.14
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG21	3	0.16	0.08	0.11
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG22	3	0.16	0.08	0.11
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG23	3	0.16	0.08	0.11
(1,1624)	1:98:A:MET:H	1:153:A:LYS:HA	3	0.16	0.01	0.16
(1,1618)	1:190:A:LEU:H	1:88:A:THR:HA	3	0.15	0.02	0.16
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD1	3	0.15	0.02	0.14
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD2	3	0.15	0.02	0.14
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD1	3	0.15	0.02	0.14
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD2	3	0.15	0.02	0.14
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD1	3	0.15	0.02	0.14
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD2	3	0.15	0.02	0.14
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	3	0.15	0.05	0.13
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	3	0.15	0.05	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	3	0.15	0.05	0.13
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD21	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD22	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD23	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD21	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD22	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD23	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD21	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD22	3	0.15	0.03	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD23	3	0.15	0.03	0.16
(1,1607)	1:187:A:ILE:H	1:148:A:VAL:HA	3	0.15	0.03	0.13
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG21	3	0.14	0.01	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG22	3	0.14	0.01	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG23	3	0.14	0.01	0.15
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	3	0.13	0.02	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	3	0.13	0.02	0.13
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG11	3	0.13	0.02	0.14
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG12	3	0.13	0.02	0.14
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG13	3	0.13	0.02	0.14
(1,849)	1:97:A:GLY:H	1:95:A:GLY:H	3	0.13	0.01	0.13
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD11	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD12	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD13	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD11	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD12	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD13	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD11	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD12	3	0.13	0.03	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD13	3	0.13	0.03	0.12
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD11	3	0.13	0.02	0.14
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD12	3	0.13	0.02	0.14
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD13	3	0.13	0.02	0.14
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD21	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD22	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD23	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)
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD21	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD22	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD23	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD21	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD22	3	0.12	0.02	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD23	3	0.12	0.02	0.11
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG21	3	0.12	0.02	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG22	3	0.12	0.02	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG23	3	0.12	0.02	0.1
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG11	3	0.11	0.01	0.11
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG12	3	0.11	0.01	0.11
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG13	3	0.11	0.01	0.11
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	2	0.26	0.01	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	2	0.26	0.01	0.26
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG21	2	0.23	0.02	0.23
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG22	2	0.23	0.02	0.23
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG23	2	0.23	0.02	0.23
(1,1237)	1:142:A:TYR:H	1:141:A:ALA:HA	2	0.23	0.06	0.23
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	2	0.22	0.04	0.22
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	2	0.22	0.04	0.22
(1,1584)	1:173:A:ARG:H	1:160:A:TYR:HA	2	0.2	0.08	0.2
(1,49)	1:119:A:MET:HE1	1:118:A:PHE:HE2	2	0.2	0.04	0.2
(1,49)	1:119:A:MET:HE2	1:118:A:PHE:HE2	2	0.2	0.04	0.2
(1,49)	1:119:A:MET:HE3	1:118:A:PHE:HE2	2	0.2	0.04	0.2
(1,1647)	1:119:A:MET:H	1:117:A:ALA:HA	2	0.2	0.04	0.2
(1,24)	1:76:A:LEU:HD11	1:216:A:TYR:HD1	2	0.19	0.06	0.19
(1,24)	1:76:A:LEU:HD12	1:216:A:TYR:HD1	2	0.19	0.06	0.19
(1,24)	1:76:A:LEU:HD13	1:216:A:TYR:HD1	2	0.19	0.06	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE1	2	0.19	0.03	0.19
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE2	2	0.19	0.03	0.19
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE1	2	0.19	0.03	0.19
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE2	2	0.19	0.03	0.19
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE1	2	0.19	0.03	0.19
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE2	2	0.19	0.03	0.19
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD11	2	0.19	0.02	0.19
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD12	2	0.19	0.02	0.19
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD13	2	0.19	0.02	0.19
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD11	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD12	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD13	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD11	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD12	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD13	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD11	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD12	2	0.19	0.06	0.19
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD13	2	0.19	0.06	0.19
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD11	2	0.18	0.02	0.18
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD12	2	0.18	0.02	0.18
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD13	2	0.18	0.02	0.18
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD21	2	0.18	0.05	0.18
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD22	2	0.18	0.05	0.18
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD23	2	0.18	0.05	0.18
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG21	2	0.18	0.04	0.18
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG22	2	0.18	0.04	0.18
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG23	2	0.18	0.04	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG21	2	0.18	0.01	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG22	2	0.18	0.01	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG23	2	0.18	0.01	0.18
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD11	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD12	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD13	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD11	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD12	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD13	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD11	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD12	2	0.18	0.08	0.18
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD13	2	0.18	0.08	0.18
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE1	2	0.18	0.06	0.18
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE2	2	0.18	0.06	0.18
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE3	2	0.18	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG11	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG12	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG13	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG11	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG12	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG13	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG11	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG12	2	0.18	0.01	0.18
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG13	2	0.18	0.01	0.18
(1,853)	1:117:A:ALA:H	1:119:A:MET:H	2	0.18	0.02	0.18
(1,958)	1:81:A:ILE:H	1:92:A:VAL:H	2	0.18	0.05	0.18
(1,1662)	1:117:A:ALA:H	1:119:A:MET:H	2	0.18	0.02	0.18
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB1	2	0.18	0.06	0.18
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB2	2	0.18	0.06	0.18
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB3	2	0.18	0.06	0.18
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	2	0.17	0.0	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	2	0.17	0.0	0.17
(1,44)	1:107:A:LEU:HD21	1:162:A:TRP:HZ2	2	0.17	0.01	0.17
(1,44)	1:107:A:LEU:HD22	1:162:A:TRP:HZ2	2	0.17	0.01	0.17
(1,44)	1:107:A:LEU:HD23	1:162:A:TRP:HZ2	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE1	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE2	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE3	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE1	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE2	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE3	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE1	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE2	2	0.17	0.01	0.17
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE3	2	0.17	0.01	0.17
(1,1342)	1:72:A:SER:H	1:70:A:LEU:HA	2	0.17	0.04	0.17
(1,1343)	1:73:A:GLY:H	1:71:A:ASP:HA	2	0.16	0.02	0.16
(1,5)	1:32:A:LEU:HD11	1:118:A:PHE:HD2	2	0.16	0.03	0.16
(1,5)	1:32:A:LEU:HD12	1:118:A:PHE:HD2	2	0.16	0.03	0.16
(1,5)	1:32:A:LEU:HD13	1:118:A:PHE:HD2	2	0.16	0.03	0.16
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE1	2	0.16	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE2	2	0.16	0.04	0.16
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE1	2	0.16	0.04	0.16
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE2	2	0.16	0.04	0.16
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE1	2	0.16	0.04	0.16
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE2	2	0.16	0.04	0.16
(1,61)	1:130:A:MET:HE1	1:134:A:PHE:HD2	2	0.16	0.04	0.16
(1,61)	1:130:A:MET:HE2	1:134:A:PHE:HD2	2	0.16	0.04	0.16
(1,61)	1:130:A:MET:HE3	1:134:A:PHE:HD2	2	0.16	0.04	0.16
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD11	2	0.16	0.01	0.16
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD12	2	0.16	0.01	0.16
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD13	2	0.16	0.01	0.16
(1,89)	1:172:A:VAL:HG21	1:20:A:PHE:HE1	2	0.16	0.05	0.16
(1,89)	1:172:A:VAL:HG22	1:20:A:PHE:HE1	2	0.16	0.05	0.16
(1,89)	1:172:A:VAL:HG23	1:20:A:PHE:HE1	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD21	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD22	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD23	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD21	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD22	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD23	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD21	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD22	2	0.16	0.05	0.16
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD23	2	0.16	0.05	0.16
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD1	2	0.15	0.01	0.15
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD2	2	0.15	0.01	0.15
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD1	2	0.15	0.01	0.15
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD2	2	0.15	0.01	0.15
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD1	2	0.15	0.01	0.15
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD2	2	0.15	0.01	0.15
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG11	2	0.15	0.01	0.15
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG12	2	0.15	0.01	0.15
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG13	2	0.15	0.01	0.15
(1,1658)	1:121:A:ALA:H	1:117:A:ALA:HA	2	0.15	0.03	0.15
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	2	0.15	0.04	0.15
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	2	0.15	0.04	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE1	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE2	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE3	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE1	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE2	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE3	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE1	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE2	2	0.15	0.03	0.15
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE3	2	0.15	0.03	0.15
(1,1413)	1:65:A:THR:H	1:62:A:GLU:HA	2	0.15	0.03	0.15
(1,1589)	1:175:A:ASP:H	1:160:A:TYR:HA	2	0.15	0.0	0.15
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD21	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD22	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD23	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD21	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD22	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD23	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD21	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD22	2	0.14	0.03	0.14
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD23	2	0.14	0.03	0.14
(1,84)	1:172:A:VAL:HG11	1:20:A:PHE:HD1	2	0.14	0.03	0.14
(1,84)	1:172:A:VAL:HG12	1:20:A:PHE:HD1	2	0.14	0.03	0.14
(1,84)	1:172:A:VAL:HG13	1:20:A:PHE:HD1	2	0.14	0.03	0.14
(1,103)	1:219:A:THR:HG21	1:221:A:PHE:HE1	2	0.14	0.01	0.14
(1,103)	1:219:A:THR:HG22	1:221:A:PHE:HE1	2	0.14	0.01	0.14
(1,103)	1:219:A:THR:HG23	1:221:A:PHE:HE1	2	0.14	0.01	0.14
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD21	2	0.14	0.01	0.14
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD22	2	0.14	0.01	0.14
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD23	2	0.14	0.01	0.14
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD11	2	0.14	0.03	0.14
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD12	2	0.14	0.03	0.14
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD13	2	0.14	0.03	0.14
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD21	2	0.14	0.01	0.14
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD22	2	0.14	0.01	0.14
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD23	2	0.14	0.01	0.14
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG21	2	0.14	0.03	0.14
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG22	2	0.14	0.03	0.14
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG23	2	0.14	0.03	0.14
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG11	2	0.14	0.02	0.14
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG12	2	0.14	0.02	0.14
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG13	2	0.14	0.02	0.14
(1,818)	1:41:A:LYS:H	1:43:A:ILE:H	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)
(1,885)	1:211:A:SER:H	1:213:A:PHE:H	2	0.14	0.01	0.14
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE1	2	0.14	0.02	0.14
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE2	2	0.14	0.02	0.14
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE1	2	0.14	0.02	0.14
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE2	2	0.14	0.02	0.14
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE1	2	0.14	0.02	0.14
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE2	2	0.14	0.02	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB1	2	0.14	0.01	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB2	2	0.14	0.01	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB3	2	0.14	0.01	0.14
(1,183)	1:216:A:TYR:HD1	1:77:A:HIS:H	2	0.14	0.02	0.14
(1,183)	1:216:A:TYR:HD2	1:77:A:HIS:H	2	0.14	0.02	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	2	0.14	0.01	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	2	0.14	0.01	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD11	2	0.14	0.01	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD12	2	0.14	0.01	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD13	2	0.14	0.01	0.14
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG11	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG12	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG13	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG11	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG12	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG13	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG11	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG12	2	0.14	0.02	0.14
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG13	2	0.14	0.02	0.14
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA2	2	0.14	0.01	0.14
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA3	2	0.14	0.01	0.14
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE1	2	0.13	0.01	0.13
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE2	2	0.13	0.01	0.13
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE1	2	0.13	0.01	0.13
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE2	2	0.13	0.01	0.13
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE1	2	0.13	0.01	0.13
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE2	2	0.13	0.01	0.13
(1,191)	1:20:A:PHE:HD1	1:21:A:ALA:H	2	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,191)	1:20:A:PHE:HD2	1:21:A:ALA:H	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE1	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE2	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE3	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE1	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE2	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE3	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE1	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE2	2	0.13	0.01	0.13
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE3	2	0.13	0.01	0.13
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD11	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD12	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD13	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD11	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD12	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD13	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD11	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD12	2	0.13	0.02	0.13
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD13	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG21	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG22	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG23	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG21	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG22	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG23	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG21	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG22	2	0.13	0.02	0.13
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG23	2	0.13	0.02	0.13
(1,1395)	1:47:A:GLU:H	1:44:A:PHE:HA	2	0.13	0.02	0.13
(1,36)	1:99:A:THR:HG21	1:154:A:HIS:HE1	2	0.12	0.01	0.12
(1,36)	1:99:A:THR:HG22	1:154:A:HIS:HE1	2	0.12	0.01	0.12
(1,36)	1:99:A:THR:HG23	1:154:A:HIS:HE1	2	0.12	0.01	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG21	2	0.12	0.01	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG22	2	0.12	0.01	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG23	2	0.12	0.01	0.12
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG21	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG22	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG23	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG21	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG22	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG23	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG21	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)
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG22	2	0.12	0.02	0.12
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG23	2	0.12	0.02	0.12
(1,1502)	1:79:A:ASN:H	1:218:A:ILE:HA	2	0.12	0.02	0.12
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE1	2	0.12	0.01	0.12
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE2	2	0.12	0.01	0.12
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE1	2	0.12	0.01	0.12
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE2	2	0.12	0.01	0.12
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE1	2	0.12	0.01	0.12
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE2	2	0.12	0.01	0.12
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD11	2	0.12	0.01	0.12
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD12	2	0.12	0.01	0.12
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD13	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG21	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG22	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG23	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG21	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG22	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG23	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG21	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG22	2	0.12	0.01	0.12
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG23	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD11	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD12	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD13	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD11	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD12	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD13	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD11	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD12	2	0.12	0.01	0.12
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD13	2	0.12	0.01	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD11	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD12	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD13	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD11	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD12	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD13	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD11	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD12	2	0.12	0.0	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD13	2	0.12	0.0	0.12
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG11	2	0.12	0.02	0.12
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG12	2	0.12	0.02	0.12
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG13	2	0.12	0.02	0.12

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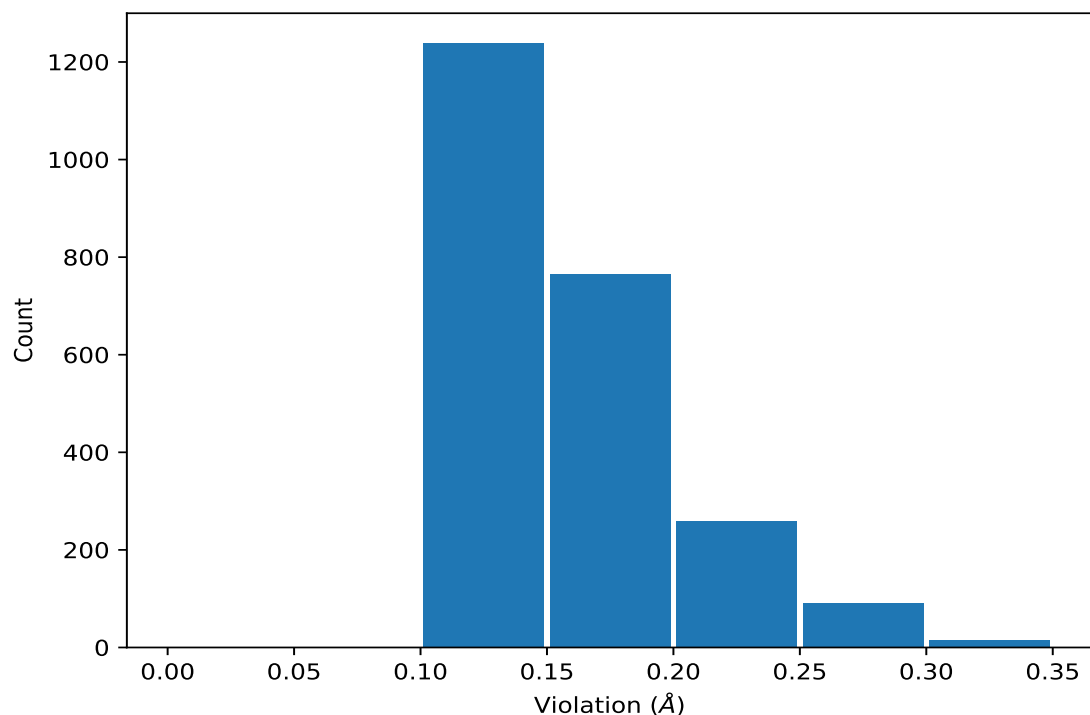
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1524)	1:94:A:THR:H	1:78:A:ILE:HA	2	0.12	0.02	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD21	2	0.12	0.0	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD22	2	0.12	0.0	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD23	2	0.12	0.0	0.12
(1,202)	1:170:A:PHE:HE1	1:22:A:PHE:H	2	0.12	0.0	0.12
(1,202)	1:170:A:PHE:HE2	1:22:A:PHE:H	2	0.12	0.0	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD11	2	0.12	0.0	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD12	2	0.12	0.0	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD13	2	0.12	0.0	0.12
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG21	2	0.12	0.0	0.12
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG22	2	0.12	0.0	0.12
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG23	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	2	0.12	0.0	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	2	0.12	0.0	0.12
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA2	2	0.12	0.0	0.12
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA3	2	0.12	0.0	0.12
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG21	2	0.11	0.0	0.11
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG22	2	0.11	0.0	0.11
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG23	2	0.11	0.0	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG21	2	0.11	0.0	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG22	2	0.11	0.0	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG23	2	0.11	0.0	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG21	2	0.11	0.0	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG22	2	0.11	0.0	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG23	2	0.11	0.0	0.11
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA2	2	0.11	0.0	0.11
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA3	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,336)	1:49:A:ILE:HD11	1:80:A:LEU:HD21	5	0.33
(1,336)	1:49:A:ILE:HD11	1:80:A:LEU:HD22	5	0.33
(1,336)	1:49:A:ILE:HD11	1:80:A:LEU:HD23	5	0.33
(1,336)	1:49:A:ILE:HD12	1:80:A:LEU:HD21	5	0.33
(1,336)	1:49:A:ILE:HD12	1:80:A:LEU:HD22	5	0.33
(1,336)	1:49:A:ILE:HD12	1:80:A:LEU:HD23	5	0.33
(1,336)	1:49:A:ILE:HD13	1:80:A:LEU:HD21	5	0.33
(1,336)	1:49:A:ILE:HD13	1:80:A:LEU:HD22	5	0.33
(1,336)	1:49:A:ILE:HD13	1:80:A:LEU:HD23	5	0.33
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD1	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD2	4	0.3
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD1	4	0.3
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD2	4	0.3
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD1	4	0.3
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD2	4	0.3
(1,1237)	1:142:A:TYR:H	1:141:A:ALA:HA	3	0.29
(1,1584)	1:173:A:ARG:H	1:160:A:TYR:HA	1	0.28
(1,559)	1:191:A:LYS:H	1:190:A:LEU:HD21	3	0.28
(1,559)	1:191:A:LYS:H	1:190:A:LEU:HD22	3	0.28
(1,559)	1:191:A:LYS:H	1:190:A:LEU:HD23	3	0.28
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG21	2	0.27
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG22	2	0.27
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG23	2	0.27
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	5	0.27
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	5	0.27
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	5	0.27
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	5	0.27
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	5	0.27
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	5	0.27
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	5	0.27
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	5	0.27
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	5	0.27
(1,25)	1:76:A:LEU:HD21	1:216:A:TYR:HE1	10	0.27
(1,25)	1:76:A:LEU:HD22	1:216:A:TYR:HE1	10	0.27
(1,25)	1:76:A:LEU:HD23	1:216:A:TYR:HE1	10	0.27
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	9	0.26
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	9	0.26
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD11	4	0.26
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD12	4	0.26
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD13	4	0.26
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD11	4	0.26
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD12	4	0.26
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD13	4	0.26
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD11	4	0.26
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD12	4	0.26
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD13	4	0.26
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	1	0.26
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	1	0.26
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	1	0.26
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	1	0.26
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	1	0.26
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	1	0.26
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	1	0.26
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	1	0.26
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB1	6	0.26
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB2	6	0.26
(1,295)	1:121:A:ALA:HB1	1:126:A:ALA:HB3	6	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB1	6	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB2	6	0.26
(1,295)	1:121:A:ALA:HB2	1:126:A:ALA:HB3	6	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB1	6	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB2	6	0.26
(1,295)	1:121:A:ALA:HB3	1:126:A:ALA:HB3	6	0.26
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	10	0.26
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	10	0.26
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	10	0.26
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	10	0.26
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	10	0.26
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	10	0.26
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	10	0.26
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	10	0.26
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	10	0.26
(1,161)	1:195:A:THR:H	1:190:A:LEU:HD11	8	0.26
(1,161)	1:195:A:THR:H	1:190:A:LEU:HD12	8	0.26
(1,161)	1:195:A:THR:H	1:190:A:LEU:HD13	8	0.26
(1,1543)	1:152:A:THR:H	1:159:A:GLN:HA	4	0.25
(1,650)	1:76:A:LEU:HD21	1:70:A:LEU:HD11	7	0.25
(1,650)	1:76:A:LEU:HD21	1:70:A:LEU:HD12	7	0.25
(1,650)	1:76:A:LEU:HD21	1:70:A:LEU:HD13	7	0.25
(1,650)	1:76:A:LEU:HD22	1:70:A:LEU:HD11	7	0.25
(1,650)	1:76:A:LEU:HD22	1:70:A:LEU:HD12	7	0.25
(1,650)	1:76:A:LEU:HD22	1:70:A:LEU:HD13	7	0.25
(1,650)	1:76:A:LEU:HD23	1:70:A:LEU:HD11	7	0.25
(1,650)	1:76:A:LEU:HD23	1:70:A:LEU:HD12	7	0.25
(1,650)	1:76:A:LEU:HD23	1:70:A:LEU:HD13	7	0.25
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD11	5	0.25
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD12	5	0.25
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD13	5	0.25
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD11	5	0.25
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD12	5	0.25
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD13	5	0.25
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD11	5	0.25
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD12	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD13	5	0.25
(1,374)	1:80:A:LEU:H	1:80:A:LEU:HD21	5	0.25
(1,374)	1:80:A:LEU:H	1:80:A:LEU:HD22	5	0.25
(1,374)	1:80:A:LEU:H	1:80:A:LEU:HD23	5	0.25
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	10	0.25
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	10	0.25
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG21	1	0.25
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG22	1	0.25
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG23	1	0.25
(1,24)	1:76:A:LEU:HD11	1:216:A:TYR:HD1	10	0.25
(1,24)	1:76:A:LEU:HD12	1:216:A:TYR:HD1	10	0.25
(1,24)	1:76:A:LEU:HD13	1:216:A:TYR:HD1	10	0.25
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD21	4	0.24
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD22	4	0.24
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD23	4	0.24
(1,353)	1:131:A:ILE:HD11	1:143:A:LEU:HD11	9	0.24
(1,353)	1:131:A:ILE:HD11	1:143:A:LEU:HD12	9	0.24
(1,353)	1:131:A:ILE:HD11	1:143:A:LEU:HD13	9	0.24
(1,353)	1:131:A:ILE:HD12	1:143:A:LEU:HD11	9	0.24
(1,353)	1:131:A:ILE:HD12	1:143:A:LEU:HD12	9	0.24
(1,353)	1:131:A:ILE:HD12	1:143:A:LEU:HD13	9	0.24
(1,353)	1:131:A:ILE:HD13	1:143:A:LEU:HD11	9	0.24
(1,353)	1:131:A:ILE:HD13	1:143:A:LEU:HD12	9	0.24
(1,353)	1:131:A:ILE:HD13	1:143:A:LEU:HD13	9	0.24
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE1	4	0.24
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE2	4	0.24
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE3	4	0.24
(1,49)	1:119:A:MET:HE1	1:118:A:PHE:HE2	8	0.24
(1,49)	1:119:A:MET:HE2	1:118:A:PHE:HE2	8	0.24
(1,49)	1:119:A:MET:HE3	1:118:A:PHE:HE2	8	0.24
(1,1647)	1:119:A:MET:H	1:117:A:ALA:HA	1	0.23
(1,958)	1:81:A:ILE:H	1:92:A:VAL:H	1	0.23
(1,863)	1:155:A:ASN:H	1:157:A:ASP:H	5	0.23
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG21	6	0.23
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG22	6	0.23
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG23	6	0.23
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG21	9	0.23
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG22	9	0.23
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG23	9	0.23
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	1	0.23
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	1	0.23
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	1	0.23
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	1	0.23
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	1	0.23
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	1	0.23
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	1	0.23
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	1	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG21	8	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG22	8	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG23	8	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG21	8	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG22	8	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG23	8	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG21	8	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG22	8	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG23	8	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG21	10	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG22	10	0.23
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG23	10	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG21	10	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG22	10	0.23
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG23	10	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG21	10	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG22	10	0.23
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG23	10	0.23
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB1	3	0.23
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB2	3	0.23
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB3	3	0.23
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	7	0.22
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	7	0.22
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	10	0.22
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	10	0.22
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	7	0.22
(1,503)	1:147:A:LYS:H	1:148:A:VAL:HG11	3	0.22
(1,503)	1:147:A:LYS:H	1:148:A:VAL:HG12	3	0.22
(1,503)	1:147:A:LYS:H	1:148:A:VAL:HG13	3	0.22
(1,380)	1:96:A:ILE:H	1:96:A:ILE:HD11	5	0.22
(1,380)	1:96:A:ILE:H	1:96:A:ILE:HD12	5	0.22
(1,380)	1:96:A:ILE:H	1:96:A:ILE:HD13	5	0.22
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	5	0.22
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	5	0.22
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	5	0.22
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	5	0.22
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	5	0.22
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	5	0.22
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	5	0.22
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	5	0.22
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG21	9	0.22
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG22	9	0.22
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG23	9	0.22
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD11	9	0.22
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD12	9	0.22
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD13	9	0.22
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE1	7	0.22
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE2	7	0.22
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE1	7	0.22
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE2	7	0.22
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE1	7	0.22
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE2	7	0.22
(1,28)	1:88:A:THR:HG21	1:189:A:HIS:HD2	4	0.22
(1,28)	1:88:A:THR:HG22	1:189:A:HIS:HD2	4	0.22
(1,28)	1:88:A:THR:HG23	1:189:A:HIS:HD2	4	0.22
(1,1342)	1:72:A:SER:H	1:70:A:LEU:HA	8	0.21
(1,1317)	1:45:A:LEU:H	1:43:A:ILE:HA	10	0.21
(1,866)	1:180:A:MET:H	1:182:A:ARG:H	9	0.21
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD11	5	0.21
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD12	5	0.21
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD13	5	0.21
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD11	6	0.21
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD12	6	0.21
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD13	6	0.21
(1,294)	1:99:A:THR:HG21	1:101:A:ALA:HB1	10	0.21
(1,294)	1:99:A:THR:HG21	1:101:A:ALA:HB2	10	0.21
(1,294)	1:99:A:THR:HG21	1:101:A:ALA:HB3	10	0.21
(1,294)	1:99:A:THR:HG22	1:101:A:ALA:HB1	10	0.21
(1,294)	1:99:A:THR:HG22	1:101:A:ALA:HB2	10	0.21
(1,294)	1:99:A:THR:HG22	1:101:A:ALA:HB3	10	0.21
(1,294)	1:99:A:THR:HG23	1:101:A:ALA:HB1	10	0.21
(1,294)	1:99:A:THR:HG23	1:101:A:ALA:HB2	10	0.21
(1,294)	1:99:A:THR:HG23	1:101:A:ALA:HB3	10	0.21
(1,289)	1:141:A:ALA:HB1	1:188:A:LEU:HD11	6	0.21
(1,289)	1:141:A:ALA:HB1	1:188:A:LEU:HD12	6	0.21
(1,289)	1:141:A:ALA:HB1	1:188:A:LEU:HD13	6	0.21
(1,289)	1:141:A:ALA:HB2	1:188:A:LEU:HD11	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:141:A:ALA:HB2	1:188:A:LEU:HD12	6	0.21
(1,289)	1:141:A:ALA:HB2	1:188:A:LEU:HD13	6	0.21
(1,289)	1:141:A:ALA:HB3	1:188:A:LEU:HD11	6	0.21
(1,289)	1:141:A:ALA:HB3	1:188:A:LEU:HD12	6	0.21
(1,289)	1:141:A:ALA:HB3	1:188:A:LEU:HD13	6	0.21
(1,277)	1:103:A:LEU:HD11	1:172:A:VAL:HG21	3	0.21
(1,277)	1:103:A:LEU:HD11	1:172:A:VAL:HG22	3	0.21
(1,277)	1:103:A:LEU:HD11	1:172:A:VAL:HG23	3	0.21
(1,277)	1:103:A:LEU:HD12	1:172:A:VAL:HG21	3	0.21
(1,277)	1:103:A:LEU:HD12	1:172:A:VAL:HG22	3	0.21
(1,277)	1:103:A:LEU:HD12	1:172:A:VAL:HG23	3	0.21
(1,277)	1:103:A:LEU:HD13	1:172:A:VAL:HG21	3	0.21
(1,277)	1:103:A:LEU:HD13	1:172:A:VAL:HG22	3	0.21
(1,277)	1:103:A:LEU:HD13	1:172:A:VAL:HG23	3	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD21	8	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD22	8	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD23	8	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD21	8	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD22	8	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD23	8	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD21	8	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD22	8	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD23	8	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD21	9	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD22	9	0.21
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD23	9	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD21	9	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD22	9	0.21
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD23	9	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD21	9	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD22	9	0.21
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD23	9	0.21
(1,196)	1:22:A:PHE:HE1	1:169:A:SER:H	4	0.21
(1,196)	1:22:A:PHE:HE2	1:169:A:SER:H	4	0.21
(1,181)	1:216:A:TYR:HE1	1:54:A:ASP:H	4	0.21
(1,181)	1:216:A:TYR:HE2	1:54:A:ASP:H	4	0.21
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD11	8	0.21
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD12	8	0.21
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD13	8	0.21
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD11	5	0.21
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD12	5	0.21
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD13	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:141:A:ALA:H	1:188:A:LEU:HD21	2	0.21
(1,160)	1:141:A:ALA:H	1:188:A:LEU:HD22	2	0.21
(1,160)	1:141:A:ALA:H	1:188:A:LEU:HD23	2	0.21
(1,128)	1:89:A:LEU:H	1:88:A:THR:HG21	3	0.21
(1,128)	1:89:A:LEU:H	1:88:A:THR:HG22	3	0.21
(1,128)	1:89:A:LEU:H	1:88:A:THR:HG23	3	0.21
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG21	7	0.21
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG22	7	0.21
(1,126)	1:86:A:ASP:H	1:88:A:THR:HG23	7	0.21
(1,90)	1:172:A:VAL:HG21	1:160:A:TYR:HE1	6	0.21
(1,90)	1:172:A:VAL:HG22	1:160:A:TYR:HE1	6	0.21
(1,90)	1:172:A:VAL:HG23	1:160:A:TYR:HE1	6	0.21
(1,89)	1:172:A:VAL:HG21	1:20:A:PHE:HE1	3	0.21
(1,89)	1:172:A:VAL:HG22	1:20:A:PHE:HE1	3	0.21
(1,89)	1:172:A:VAL:HG23	1:20:A:PHE:HE1	3	0.21
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE1	5	0.21
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE2	5	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE1	5	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE2	5	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE1	5	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE2	5	0.21
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE1	10	0.21
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE2	10	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE1	10	0.21
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE2	10	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE1	10	0.21
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE2	10	0.21
(1,1662)	1:117:A:ALA:H	1:119:A:MET:H	1	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	2	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	2	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	3	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	3	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	6	0.2
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	6	0.2
(1,1110)	1:166:A:ALA:H	1:166:A:ALA:HA	3	0.2
(1,853)	1:117:A:ALA:H	1:119:A:MET:H	1	0.2
(1,772)	1:181:A:GLY:H	1:182:A:ARG:H	7	0.2
(1,772)	1:181:A:GLY:H	1:182:A:ARG:H	10	0.2
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD21	3	0.2
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD22	3	0.2
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD23	3	0.2
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD21	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD22	3	0.2
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD23	3	0.2
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD21	3	0.2
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD22	3	0.2
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD23	3	0.2
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	8	0.2
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	8	0.2
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	8	0.2
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD21	5	0.2
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD22	5	0.2
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD23	5	0.2
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD21	5	0.2
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD22	5	0.2
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD23	5	0.2
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD21	5	0.2
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD22	5	0.2
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD23	5	0.2
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB1	4	0.2
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB2	4	0.2
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB3	4	0.2
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB1	4	0.2
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB2	4	0.2
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB3	4	0.2
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB1	4	0.2
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB2	4	0.2
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB3	4	0.2
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG21	7	0.2
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG22	7	0.2
(1,299)	1:103:A:LEU:HD11	1:152:A:THR:HG23	7	0.2
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG21	7	0.2
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG22	7	0.2
(1,299)	1:103:A:LEU:HD12	1:152:A:THR:HG23	7	0.2
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG21	7	0.2
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG22	7	0.2
(1,299)	1:103:A:LEU:HD13	1:152:A:THR:HG23	7	0.2
(1,257)	1:103:A:LEU:HD11	1:107:A:LEU:HD11	6	0.2
(1,257)	1:103:A:LEU:HD11	1:107:A:LEU:HD12	6	0.2
(1,257)	1:103:A:LEU:HD11	1:107:A:LEU:HD13	6	0.2
(1,257)	1:103:A:LEU:HD12	1:107:A:LEU:HD11	6	0.2
(1,257)	1:103:A:LEU:HD12	1:107:A:LEU:HD12	6	0.2
(1,257)	1:103:A:LEU:HD12	1:107:A:LEU:HD13	6	0.2
(1,257)	1:103:A:LEU:HD13	1:107:A:LEU:HD11	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,257)	1:103:A:LEU:HD13	1:107:A:LEU:HD12	6	0.2
(1,257)	1:103:A:LEU:HD13	1:107:A:LEU:HD13	6	0.2
(1,195)	1:22:A:PHE:HE1	1:168:A:GLY:H	8	0.2
(1,195)	1:22:A:PHE:HE2	1:168:A:GLY:H	8	0.2
(1,142)	1:44:A:PHE:H	1:144:A:VAL:HG11	1	0.2
(1,142)	1:44:A:PHE:H	1:144:A:VAL:HG12	1	0.2
(1,142)	1:44:A:PHE:H	1:144:A:VAL:HG13	1	0.2
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB1	7	0.2
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB2	7	0.2
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB3	7	0.2
(1,61)	1:130:A:MET:HE1	1:134:A:PHE:HD2	9	0.2
(1,61)	1:130:A:MET:HE2	1:134:A:PHE:HD2	9	0.2
(1,61)	1:130:A:MET:HE3	1:134:A:PHE:HD2	9	0.2
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE1	5	0.2
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE2	5	0.2
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE1	5	0.2
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE2	5	0.2
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE1	5	0.2
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE2	5	0.2
(1,1607)	1:187:A:ILE:H	1:148:A:VAL:HA	6	0.19
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	1	0.19
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	1	0.19
(1,864)	1:164:A:SER:H	1:166:A:ALA:H	1	0.19
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	2	0.19
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	10	0.19
(1,572)	1:204:A:LYS:H	1:203:A:ILE:HD11	7	0.19
(1,572)	1:204:A:LYS:H	1:203:A:ILE:HD12	7	0.19
(1,572)	1:204:A:LYS:H	1:203:A:ILE:HD13	7	0.19
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG21	2	0.19
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG22	2	0.19
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG23	2	0.19
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	3	0.19
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	3	0.19
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	3	0.19
(1,461)	1:81:A:ILE:H	1:89:A:LEU:HD11	3	0.19
(1,461)	1:81:A:ILE:H	1:89:A:LEU:HD12	3	0.19
(1,461)	1:81:A:ILE:H	1:89:A:LEU:HD13	3	0.19
(1,437)	1:61:A:TYR:H	1:76:A:LEU:HD21	9	0.19
(1,437)	1:61:A:TYR:H	1:76:A:LEU:HD22	9	0.19
(1,437)	1:61:A:TYR:H	1:76:A:LEU:HD23	9	0.19
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	8	0.19
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	8	0.19
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	8	0.19
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	8	0.19
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	8	0.19
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	8	0.19
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	8	0.19
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	8	0.19
(1,285)	1:48:A:LEU:HD21	1:141:A:ALA:HB1	8	0.19
(1,285)	1:48:A:LEU:HD21	1:141:A:ALA:HB2	8	0.19
(1,285)	1:48:A:LEU:HD21	1:141:A:ALA:HB3	8	0.19
(1,285)	1:48:A:LEU:HD22	1:141:A:ALA:HB1	8	0.19
(1,285)	1:48:A:LEU:HD22	1:141:A:ALA:HB2	8	0.19
(1,285)	1:48:A:LEU:HD22	1:141:A:ALA:HB3	8	0.19
(1,285)	1:48:A:LEU:HD23	1:141:A:ALA:HB1	8	0.19
(1,285)	1:48:A:LEU:HD23	1:141:A:ALA:HB2	8	0.19
(1,285)	1:48:A:LEU:HD23	1:141:A:ALA:HB3	8	0.19
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	1	0.19
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	1	0.19
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	1	0.19
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	1	0.19
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	1	0.19
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	1	0.19
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	1	0.19
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	1	0.19
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	1	0.19
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	3	0.19
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	3	0.19
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	3	0.19
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	3	0.19
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	3	0.19
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	3	0.19
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	3	0.19
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	3	0.19
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	3	0.19
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG11	10	0.19
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG12	10	0.19
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG13	10	0.19
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG11	10	0.19
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG12	10	0.19
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG13	10	0.19
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG11	10	0.19
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG12	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG13	10	0.19
(1,237)	1:220:A:LEU:HD21	1:207:A:VAL:HG11	5	0.19
(1,237)	1:220:A:LEU:HD21	1:207:A:VAL:HG12	5	0.19
(1,237)	1:220:A:LEU:HD21	1:207:A:VAL:HG13	5	0.19
(1,237)	1:220:A:LEU:HD22	1:207:A:VAL:HG11	5	0.19
(1,237)	1:220:A:LEU:HD22	1:207:A:VAL:HG12	5	0.19
(1,237)	1:220:A:LEU:HD22	1:207:A:VAL:HG13	5	0.19
(1,237)	1:220:A:LEU:HD23	1:207:A:VAL:HG11	5	0.19
(1,237)	1:220:A:LEU:HD23	1:207:A:VAL:HG12	5	0.19
(1,237)	1:220:A:LEU:HD23	1:207:A:VAL:HG13	5	0.19
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	7	0.19
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	7	0.19
(1,181)	1:216:A:TYR:HE1	1:54:A:ASP:H	1	0.19
(1,181)	1:216:A:TYR:HE2	1:54:A:ASP:H	1	0.19
(1,5)	1:32:A:LEU:HD11	1:118:A:PHE:HD2	5	0.19
(1,5)	1:32:A:LEU:HD12	1:118:A:PHE:HD2	5	0.19
(1,5)	1:32:A:LEU:HD13	1:118:A:PHE:HD2	5	0.19
(1,1658)	1:121:A:ALA:H	1:117:A:ALA:HA	9	0.18
(1,1618)	1:190:A:LEU:H	1:88:A:THR:HA	7	0.18
(1,1479)	1:211:A:SER:H	1:207:A:VAL:HA	6	0.18
(1,1439)	1:214:A:ILE:H	1:211:A:SER:HA	4	0.18
(1,1343)	1:73:A:GLY:H	1:71:A:ASP:HA	8	0.18
(1,1110)	1:166:A:ALA:H	1:166:A:ALA:HA	5	0.18
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	2	0.18
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	8	0.18
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	4	0.18
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	4	0.18
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	4	0.18
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	4	0.18
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	4	0.18
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	4	0.18
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	4	0.18
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	4	0.18
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	4	0.18
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD21	10	0.18
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD22	10	0.18
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD23	10	0.18
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD21	10	0.18
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD22	10	0.18
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD23	10	0.18
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD21	10	0.18
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD22	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD23	10	0.18
(1,646)	1:56:A:LEU:HD21	1:94:A:THR:HG21	4	0.18
(1,646)	1:56:A:LEU:HD21	1:94:A:THR:HG22	4	0.18
(1,646)	1:56:A:LEU:HD21	1:94:A:THR:HG23	4	0.18
(1,646)	1:56:A:LEU:HD22	1:94:A:THR:HG21	4	0.18
(1,646)	1:56:A:LEU:HD22	1:94:A:THR:HG22	4	0.18
(1,646)	1:56:A:LEU:HD22	1:94:A:THR:HG23	4	0.18
(1,646)	1:56:A:LEU:HD23	1:94:A:THR:HG21	4	0.18
(1,646)	1:56:A:LEU:HD23	1:94:A:THR:HG22	4	0.18
(1,646)	1:56:A:LEU:HD23	1:94:A:THR:HG23	4	0.18
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE1	1	0.18
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE2	1	0.18
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE3	1	0.18
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE1	1	0.18
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE2	1	0.18
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE3	1	0.18
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE1	1	0.18
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE2	1	0.18
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE3	1	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG21	7	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG22	7	0.18
(1,536)	1:185:A:LYS:H	1:92:A:VAL:HG23	7	0.18
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG21	1	0.18
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG22	1	0.18
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG23	1	0.18
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	6	0.18
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	6	0.18
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	6	0.18
(1,483)	1:96:A:ILE:H	1:55:A:ALA:HB1	6	0.18
(1,483)	1:96:A:ILE:H	1:55:A:ALA:HB2	6	0.18
(1,483)	1:96:A:ILE:H	1:55:A:ALA:HB3	6	0.18
(1,463)	1:81:A:ILE:H	1:92:A:VAL:HG11	1	0.18
(1,463)	1:81:A:ILE:H	1:92:A:VAL:HG12	1	0.18
(1,463)	1:81:A:ILE:H	1:92:A:VAL:HG13	1	0.18
(1,443)	1:71:A:ASP:H	1:70:A:LEU:HD11	4	0.18
(1,443)	1:71:A:ASP:H	1:70:A:LEU:HD12	4	0.18
(1,443)	1:71:A:ASP:H	1:70:A:LEU:HD13	4	0.18
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD11	2	0.18
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD12	2	0.18
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD13	2	0.18
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD11	2	0.18
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD12	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD13	2	0.18
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD11	2	0.18
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD12	2	0.18
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD13	2	0.18
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	3	0.18
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	3	0.18
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	3	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	3	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	3	0.18
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	3	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	3	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	3	0.18
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	3	0.18
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD21	5	0.18
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD22	5	0.18
(1,322)	1:91:A:ILE:HD11	1:188:A:LEU:HD23	5	0.18
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD21	5	0.18
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD22	5	0.18
(1,322)	1:91:A:ILE:HD12	1:188:A:LEU:HD23	5	0.18
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD21	5	0.18
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD22	5	0.18
(1,322)	1:91:A:ILE:HD13	1:188:A:LEU:HD23	5	0.18
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB1	3	0.18
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB2	3	0.18
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB3	3	0.18
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB1	3	0.18
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB2	3	0.18
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB3	3	0.18
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB1	3	0.18
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB2	3	0.18
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB3	3	0.18
(1,298)	1:150:A:VAL:HG21	1:152:A:THR:HG21	6	0.18
(1,298)	1:150:A:VAL:HG21	1:152:A:THR:HG22	6	0.18
(1,298)	1:150:A:VAL:HG21	1:152:A:THR:HG23	6	0.18
(1,298)	1:150:A:VAL:HG22	1:152:A:THR:HG21	6	0.18
(1,298)	1:150:A:VAL:HG22	1:152:A:THR:HG22	6	0.18
(1,298)	1:150:A:VAL:HG22	1:152:A:THR:HG23	6	0.18
(1,298)	1:150:A:VAL:HG23	1:152:A:THR:HG21	6	0.18
(1,298)	1:150:A:VAL:HG23	1:152:A:THR:HG22	6	0.18
(1,298)	1:150:A:VAL:HG23	1:152:A:THR:HG23	6	0.18
(1,260)	1:32:A:LEU:HD11	1:122:A:LEU:HD11	5	0.18
(1,260)	1:32:A:LEU:HD11	1:122:A:LEU:HD12	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:32:A:LEU:HD11	1:122:A:LEU:HD13	5	0.18
(1,260)	1:32:A:LEU:HD12	1:122:A:LEU:HD11	5	0.18
(1,260)	1:32:A:LEU:HD12	1:122:A:LEU:HD12	5	0.18
(1,260)	1:32:A:LEU:HD12	1:122:A:LEU:HD13	5	0.18
(1,260)	1:32:A:LEU:HD13	1:122:A:LEU:HD11	5	0.18
(1,260)	1:32:A:LEU:HD13	1:122:A:LEU:HD12	5	0.18
(1,260)	1:32:A:LEU:HD13	1:122:A:LEU:HD13	5	0.18
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	9	0.18
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	9	0.18
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	9	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	9	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	9	0.18
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	9	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	9	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	9	0.18
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	9	0.18
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD11	10	0.18
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD12	10	0.18
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD13	10	0.18
(1,159)	1:89:A:LEU:H	1:188:A:LEU:HD11	4	0.18
(1,159)	1:89:A:LEU:H	1:188:A:LEU:HD12	4	0.18
(1,159)	1:89:A:LEU:H	1:188:A:LEU:HD13	4	0.18
(1,44)	1:107:A:LEU:HD21	1:162:A:TRP:HZ2	8	0.18
(1,44)	1:107:A:LEU:HD22	1:162:A:TRP:HZ2	8	0.18
(1,44)	1:107:A:LEU:HD23	1:162:A:TRP:HZ2	8	0.18
(1,41)	1:107:A:LEU:HD11	1:139:A:TYR:HD1	7	0.18
(1,41)	1:107:A:LEU:HD11	1:139:A:TYR:HD2	7	0.18
(1,41)	1:107:A:LEU:HD12	1:139:A:TYR:HD1	7	0.18
(1,41)	1:107:A:LEU:HD12	1:139:A:TYR:HD2	7	0.18
(1,41)	1:107:A:LEU:HD13	1:139:A:TYR:HD1	7	0.18
(1,41)	1:107:A:LEU:HD13	1:139:A:TYR:HD2	7	0.18
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD1	6	0.18
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD2	6	0.18
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD1	6	0.18
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD2	6	0.18
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD1	6	0.18
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD2	6	0.18
(1,16)	1:48:A:LEU:HD11	1:138:A:PHE:HD1	9	0.18
(1,16)	1:48:A:LEU:HD12	1:138:A:PHE:HD1	9	0.18
(1,16)	1:48:A:LEU:HD13	1:138:A:PHE:HD1	9	0.18
(1,14)	1:30:A:MET:HE1	1:162:A:TRP:HZ2	7	0.18
(1,14)	1:30:A:MET:HE2	1:162:A:TRP:HZ2	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:30:A:MET:HE3	1:162:A:TRP:HZ2	7	0.18
(1,1624)	1:98:A:MET:H	1:153:A:LYS:HA	10	0.17
(1,1534)	1:149:A:THR:H	1:188:A:LEU:HA	1	0.17
(1,1423)	1:169:A:SER:H	1:166:A:ALA:HA	5	0.17
(1,1413)	1:65:A:THR:H	1:62:A:GLU:HA	1	0.17
(1,1237)	1:142:A:TYR:H	1:141:A:ALA:HA	5	0.17
(1,863)	1:155:A:ASN:H	1:157:A:ASP:H	3	0.17
(1,843)	1:72:A:SER:H	1:70:A:LEU:H	4	0.17
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	3	0.17
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	3	0.17
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	3	0.17
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	3	0.17
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	3	0.17
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	3	0.17
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	3	0.17
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	3	0.17
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	3	0.17
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE1	8	0.17
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE2	8	0.17
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE3	8	0.17
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE1	8	0.17
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE2	8	0.17
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE3	8	0.17
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE1	8	0.17
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE2	8	0.17
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE3	8	0.17
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD11	1	0.17
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD12	1	0.17
(1,565)	1:196:A:GLU:H	1:198:A:LEU:HD13	1	0.17
(1,554)	1:189:A:HIS:H	1:148:A:VAL:HG21	4	0.17
(1,554)	1:189:A:HIS:H	1:148:A:VAL:HG22	4	0.17
(1,554)	1:189:A:HIS:H	1:148:A:VAL:HG23	4	0.17
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	3	0.17
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	3	0.17
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	3	0.17
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG21	6	0.17
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG22	6	0.17
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG23	6	0.17
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	5	0.17
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	5	0.17
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	5	0.17
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	10	0.17
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	10	0.17
(1,457)	1:80:A:LEU:H	1:81:A:ILE:HD11	6	0.17
(1,457)	1:80:A:LEU:H	1:81:A:ILE:HD12	6	0.17
(1,457)	1:80:A:LEU:H	1:81:A:ILE:HD13	6	0.17
(1,423)	1:43:A:ILE:H	1:143:A:LEU:HD11	9	0.17
(1,423)	1:43:A:ILE:H	1:143:A:LEU:HD12	9	0.17
(1,423)	1:43:A:ILE:H	1:143:A:LEU:HD13	9	0.17
(1,421)	1:26:A:ILE:H	1:111:A:ALA:HB1	8	0.17
(1,421)	1:26:A:ILE:H	1:111:A:ALA:HB2	8	0.17
(1,421)	1:26:A:ILE:H	1:111:A:ALA:HB3	8	0.17
(1,398)	1:190:A:LEU:H	1:190:A:LEU:HD21	3	0.17
(1,398)	1:190:A:LEU:H	1:190:A:LEU:HD22	3	0.17
(1,398)	1:190:A:LEU:H	1:190:A:LEU:HD23	3	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	7	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	7	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	7	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	10	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	10	0.17
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	10	0.17
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD11	9	0.17
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD12	9	0.17
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD13	9	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD11	7	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD12	7	0.17
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD13	7	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD11	7	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD12	7	0.17
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD13	7	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD11	7	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD12	7	0.17
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD13	7	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	5	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	5	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	5	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	5	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	5	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	5	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	5	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	5	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	5	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG21	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG22	8	0.17
(1,338)	1:49:A:ILE:HD11	1:207:A:VAL:HG23	8	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG21	8	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG22	8	0.17
(1,338)	1:49:A:ILE:HD12	1:207:A:VAL:HG23	8	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG21	8	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG22	8	0.17
(1,338)	1:49:A:ILE:HD13	1:207:A:VAL:HG23	8	0.17
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD11	3	0.17
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD12	3	0.17
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD13	3	0.17
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD11	3	0.17
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD12	3	0.17
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD13	3	0.17
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD11	3	0.17
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD12	3	0.17
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD13	3	0.17
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD21	7	0.17
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD22	7	0.17
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD23	7	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD21	7	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD22	7	0.17
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD23	7	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD21	7	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD22	7	0.17
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD23	7	0.17
(1,283)	1:149:A:THR:HG21	1:161:A:ALA:HB1	3	0.17
(1,283)	1:149:A:THR:HG21	1:161:A:ALA:HB2	3	0.17
(1,283)	1:149:A:THR:HG21	1:161:A:ALA:HB3	3	0.17
(1,283)	1:149:A:THR:HG22	1:161:A:ALA:HB1	3	0.17
(1,283)	1:149:A:THR:HG22	1:161:A:ALA:HB2	3	0.17
(1,283)	1:149:A:THR:HG22	1:161:A:ALA:HB3	3	0.17
(1,283)	1:149:A:THR:HG23	1:161:A:ALA:HB1	3	0.17
(1,283)	1:149:A:THR:HG23	1:161:A:ALA:HB2	3	0.17
(1,283)	1:149:A:THR:HG23	1:161:A:ALA:HB3	3	0.17
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD21	2	0.17
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD22	2	0.17
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD23	2	0.17
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD21	2	0.17
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD22	2	0.17
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD23	2	0.17
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD21	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD22	2	0.17
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD23	2	0.17
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG11	3	0.17
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG12	3	0.17
(1,242)	1:80:A:LEU:HD21	1:207:A:VAL:HG13	3	0.17
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG11	3	0.17
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG12	3	0.17
(1,242)	1:80:A:LEU:HD22	1:207:A:VAL:HG13	3	0.17
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG11	3	0.17
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG12	3	0.17
(1,242)	1:80:A:LEU:HD23	1:207:A:VAL:HG13	3	0.17
(1,224)	1:48:A:LEU:HD21	1:186:A:VAL:HG21	10	0.17
(1,224)	1:48:A:LEU:HD21	1:186:A:VAL:HG22	10	0.17
(1,224)	1:48:A:LEU:HD21	1:186:A:VAL:HG23	10	0.17
(1,224)	1:48:A:LEU:HD22	1:186:A:VAL:HG21	10	0.17
(1,224)	1:48:A:LEU:HD22	1:186:A:VAL:HG22	10	0.17
(1,224)	1:48:A:LEU:HD22	1:186:A:VAL:HG23	10	0.17
(1,224)	1:48:A:LEU:HD23	1:186:A:VAL:HG21	10	0.17
(1,224)	1:48:A:LEU:HD23	1:186:A:VAL:HG22	10	0.17
(1,224)	1:48:A:LEU:HD23	1:186:A:VAL:HG23	10	0.17
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	6	0.17
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	6	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD11	2	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD12	2	0.17
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD13	2	0.17
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD11	7	0.17
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD12	7	0.17
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD13	7	0.17
(1,112)	1:31:A:SER:H	1:34:A:ILE:HD11	6	0.17
(1,112)	1:31:A:SER:H	1:34:A:ILE:HD12	6	0.17
(1,112)	1:31:A:SER:H	1:34:A:ILE:HD13	6	0.17
(1,91)	1:172:A:VAL:HG21	1:170:A:PHE:HE1	10	0.17
(1,91)	1:172:A:VAL:HG22	1:170:A:PHE:HE1	10	0.17
(1,91)	1:172:A:VAL:HG23	1:170:A:PHE:HE1	10	0.17
(1,88)	1:172:A:VAL:HG21	1:20:A:PHE:HD1	5	0.17
(1,88)	1:172:A:VAL:HG22	1:20:A:PHE:HD1	5	0.17
(1,88)	1:172:A:VAL:HG23	1:20:A:PHE:HD1	5	0.17
(1,84)	1:172:A:VAL:HG11	1:20:A:PHE:HD1	2	0.17
(1,84)	1:172:A:VAL:HG12	1:20:A:PHE:HD1	2	0.17
(1,84)	1:172:A:VAL:HG13	1:20:A:PHE:HD1	2	0.17
(1,32)	1:91:A:ILE:HD11	1:44:A:PHE:HD1	4	0.17
(1,32)	1:91:A:ILE:HD11	1:44:A:PHE:HD2	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,32)	1:91:A:ILE:HD12	1:44:A:PHE:HD1	4	0.17
(1,32)	1:91:A:ILE:HD12	1:44:A:PHE:HD2	4	0.17
(1,32)	1:91:A:ILE:HD13	1:44:A:PHE:HD1	4	0.17
(1,32)	1:91:A:ILE:HD13	1:44:A:PHE:HD2	4	0.17
(1,1662)	1:117:A:ALA:H	1:119:A:MET:H	10	0.16
(1,1647)	1:119:A:MET:H	1:117:A:ALA:HA	10	0.16
(1,1624)	1:98:A:MET:H	1:153:A:LYS:HA	4	0.16
(1,1618)	1:190:A:LEU:H	1:88:A:THR:HA	1	0.16
(1,1542)	1:151:A:ILE:H	1:186:A:VAL:HA	7	0.16
(1,1422)	1:145:A:ALA:H	1:142:A:TYR:HA	2	0.16
(1,1393)	1:45:A:LEU:H	1:42:A:GLU:HA	2	0.16
(1,1390)	1:34:A:ILE:H	1:31:A:SER:HA	2	0.16
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	10	0.16
(1,853)	1:117:A:ALA:H	1:119:A:MET:H	10	0.16
(1,818)	1:41:A:LYS:H	1:43:A:ILE:H	5	0.16
(1,666)	1:136:A:VAL:HG11	1:131:A:ILE:HD11	10	0.16
(1,666)	1:136:A:VAL:HG11	1:131:A:ILE:HD12	10	0.16
(1,666)	1:136:A:VAL:HG11	1:131:A:ILE:HD13	10	0.16
(1,666)	1:136:A:VAL:HG12	1:131:A:ILE:HD11	10	0.16
(1,666)	1:136:A:VAL:HG12	1:131:A:ILE:HD12	10	0.16
(1,666)	1:136:A:VAL:HG12	1:131:A:ILE:HD13	10	0.16
(1,666)	1:136:A:VAL:HG13	1:131:A:ILE:HD11	10	0.16
(1,666)	1:136:A:VAL:HG13	1:131:A:ILE:HD12	10	0.16
(1,666)	1:136:A:VAL:HG13	1:131:A:ILE:HD13	10	0.16
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG11	2	0.16
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG12	2	0.16
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG13	2	0.16
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG11	2	0.16
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG12	2	0.16
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG13	2	0.16
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG11	2	0.16
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG12	2	0.16
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG13	2	0.16
(1,654)	1:81:A:ILE:HD11	1:90:A:THR:HG21	5	0.16
(1,654)	1:81:A:ILE:HD11	1:90:A:THR:HG22	5	0.16
(1,654)	1:81:A:ILE:HD11	1:90:A:THR:HG23	5	0.16
(1,654)	1:81:A:ILE:HD12	1:90:A:THR:HG21	5	0.16
(1,654)	1:81:A:ILE:HD12	1:90:A:THR:HG22	5	0.16
(1,654)	1:81:A:ILE:HD12	1:90:A:THR:HG23	5	0.16
(1,654)	1:81:A:ILE:HD13	1:90:A:THR:HG21	5	0.16
(1,654)	1:81:A:ILE:HD13	1:90:A:THR:HG22	5	0.16
(1,654)	1:81:A:ILE:HD13	1:90:A:THR:HG23	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	2	0.16
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	2	0.16
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	2	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	2	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	2	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	2	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	2	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	2	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	2	0.16
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	7	0.16
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	7	0.16
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	7	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	7	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	7	0.16
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	7	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	7	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	7	0.16
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	7	0.16
(1,640)	1:48:A:LEU:HD11	1:186:A:VAL:HG21	9	0.16
(1,640)	1:48:A:LEU:HD11	1:186:A:VAL:HG22	9	0.16
(1,640)	1:48:A:LEU:HD11	1:186:A:VAL:HG23	9	0.16
(1,640)	1:48:A:LEU:HD12	1:186:A:VAL:HG21	9	0.16
(1,640)	1:48:A:LEU:HD12	1:186:A:VAL:HG22	9	0.16
(1,640)	1:48:A:LEU:HD12	1:186:A:VAL:HG23	9	0.16
(1,640)	1:48:A:LEU:HD13	1:186:A:VAL:HG21	9	0.16
(1,640)	1:48:A:LEU:HD13	1:186:A:VAL:HG22	9	0.16
(1,640)	1:48:A:LEU:HD13	1:186:A:VAL:HG23	9	0.16
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE1	2	0.16
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE2	2	0.16
(1,620)	1:34:A:ILE:HD11	1:30:A:MET:HE3	2	0.16
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE1	2	0.16
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE2	2	0.16
(1,620)	1:34:A:ILE:HD12	1:30:A:MET:HE3	2	0.16
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE1	2	0.16
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE2	2	0.16
(1,620)	1:34:A:ILE:HD13	1:30:A:MET:HE3	2	0.16
(1,579)	1:213:A:PHE:H	1:214:A:ILE:HD11	3	0.16
(1,579)	1:213:A:PHE:H	1:214:A:ILE:HD12	3	0.16
(1,579)	1:213:A:PHE:H	1:214:A:ILE:HD13	3	0.16
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG11	4	0.16
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG12	4	0.16
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG13	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:189:A:HIS:H	1:148:A:VAL:HG11	8	0.16
(1,553)	1:189:A:HIS:H	1:148:A:VAL:HG12	8	0.16
(1,553)	1:189:A:HIS:H	1:148:A:VAL:HG13	8	0.16
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG11	6	0.16
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG12	6	0.16
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG13	6	0.16
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG11	8	0.16
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG12	8	0.16
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG13	8	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	7	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	7	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	7	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	10	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	10	0.16
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	10	0.16
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	5	0.16
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	5	0.16
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	5	0.16
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	1	0.16
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	1	0.16
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	1	0.16
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG21	4	0.16
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG22	4	0.16
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG23	4	0.16
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD11	4	0.16
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD12	4	0.16
(1,447)	1:75:A:GLU:H	1:76:A:LEU:HD13	4	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	2	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	2	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	2	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	2	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	2	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	2	0.16
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	2	0.16
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	2	0.16
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	2	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	7	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	7	0.16
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	7	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	7	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	7	0.16
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	7	0.16
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	7	0.16
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	7	0.16
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	4	0.16
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	4	0.16
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	4	0.16
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	4	0.16
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	4	0.16
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	4	0.16
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	4	0.16
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	4	0.16
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	4	0.16
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD21	3	0.16
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD22	3	0.16
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD23	3	0.16
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD21	3	0.16
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD22	3	0.16
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD23	3	0.16
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD21	3	0.16
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD22	3	0.16
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD23	3	0.16
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	2	0.16
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	2	0.16
(1,251)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	2	0.16
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	2	0.16
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	2	0.16
(1,251)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	2	0.16
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	2	0.16
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	2	0.16
(1,251)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	2	0.16
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD21	6	0.16
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD22	6	0.16
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD23	6	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD21	6	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD22	6	0.16
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD23	6	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD21	6	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD22	6	0.16
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD23	6	0.16
(1,220)	1:134:A:PHE:HD1	1:131:A:ILE:H	7	0.16
(1,220)	1:134:A:PHE:HD2	1:131:A:ILE:H	7	0.16
(1,213)	1:118:A:PHE:HE1	1:127:A:ASP:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:118:A:PHE:HE2	1:127:A:ASP:H	6	0.16
(1,179)	1:197:A:TYR:HD1	1:195:A:THR:H	3	0.16
(1,179)	1:197:A:TYR:HD2	1:195:A:THR:H	3	0.16
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD11	2	0.16
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD12	2	0.16
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD13	2	0.16
(1,162)	1:89:A:LEU:H	1:190:A:LEU:HD21	3	0.16
(1,162)	1:89:A:LEU:H	1:190:A:LEU:HD22	3	0.16
(1,162)	1:89:A:LEU:H	1:190:A:LEU:HD23	3	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD11	3	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD12	3	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD13	3	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD11	7	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD12	7	0.16
(1,111)	1:35:A:ASN:H	1:32:A:LEU:HD13	7	0.16
(1,99)	1:206:A:ILE:HD11	1:44:A:PHE:HE1	2	0.16
(1,99)	1:206:A:ILE:HD11	1:44:A:PHE:HE2	2	0.16
(1,99)	1:206:A:ILE:HD12	1:44:A:PHE:HE1	2	0.16
(1,99)	1:206:A:ILE:HD12	1:44:A:PHE:HE2	2	0.16
(1,99)	1:206:A:ILE:HD13	1:44:A:PHE:HE1	2	0.16
(1,99)	1:206:A:ILE:HD13	1:44:A:PHE:HE2	2	0.16
(1,95)	1:188:A:LEU:HD11	1:44:A:PHE:HD2	4	0.16
(1,95)	1:188:A:LEU:HD12	1:44:A:PHE:HD2	4	0.16
(1,95)	1:188:A:LEU:HD13	1:44:A:PHE:HD2	4	0.16
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD1	6	0.16
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD2	6	0.16
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD1	6	0.16
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD2	6	0.16
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD1	6	0.16
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD2	6	0.16
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE1	4	0.16
(1,58)	1:126:A:ALA:HB1	1:134:A:PHE:HE2	4	0.16
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE1	4	0.16
(1,58)	1:126:A:ALA:HB2	1:134:A:PHE:HE2	4	0.16
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE1	4	0.16
(1,58)	1:126:A:ALA:HB3	1:134:A:PHE:HE2	4	0.16
(1,44)	1:107:A:LEU:HD21	1:162:A:TRP:HZ2	7	0.16
(1,44)	1:107:A:LEU:HD22	1:162:A:TRP:HZ2	7	0.16
(1,44)	1:107:A:LEU:HD23	1:162:A:TRP:HZ2	7	0.16
(1,1624)	1:98:A:MET:H	1:153:A:LYS:HA	8	0.15
(1,1589)	1:175:A:ASP:H	1:160:A:TYR:HA	5	0.15
(1,1395)	1:47:A:GLU:H	1:44:A:PHE:HA	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1368)	1:199:A:GLU:H	1:197:A:TYR:HA	10	0.15
(1,1343)	1:73:A:GLY:H	1:71:A:ASP:HA	6	0.15
(1,970)	1:91:A:ILE:H	1:188:A:LEU:H	10	0.15
(1,909)	1:65:A:THR:H	1:62:A:GLU:H	6	0.15
(1,885)	1:211:A:SER:H	1:213:A:PHE:H	10	0.15
(1,863)	1:155:A:ASN:H	1:157:A:ASP:H	8	0.15
(1,849)	1:97:A:GLY:H	1:95:A:GLY:H	1	0.15
(1,743)	1:141:A:ALA:H	1:142:A:TYR:H	3	0.15
(1,653)	1:80:A:LEU:HD21	1:91:A:ILE:HD11	9	0.15
(1,653)	1:80:A:LEU:HD21	1:91:A:ILE:HD12	9	0.15
(1,653)	1:80:A:LEU:HD21	1:91:A:ILE:HD13	9	0.15
(1,653)	1:80:A:LEU:HD22	1:91:A:ILE:HD11	9	0.15
(1,653)	1:80:A:LEU:HD22	1:91:A:ILE:HD12	9	0.15
(1,653)	1:80:A:LEU:HD22	1:91:A:ILE:HD13	9	0.15
(1,653)	1:80:A:LEU:HD23	1:91:A:ILE:HD11	9	0.15
(1,653)	1:80:A:LEU:HD23	1:91:A:ILE:HD12	9	0.15
(1,653)	1:80:A:LEU:HD23	1:91:A:ILE:HD13	9	0.15
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG21	8	0.15
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG22	8	0.15
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG23	8	0.15
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG21	8	0.15
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG22	8	0.15
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG23	8	0.15
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG21	8	0.15
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG22	8	0.15
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG23	8	0.15
(1,642)	1:56:A:LEU:HD11	1:76:A:LEU:HD11	3	0.15
(1,642)	1:56:A:LEU:HD11	1:76:A:LEU:HD12	3	0.15
(1,642)	1:56:A:LEU:HD11	1:76:A:LEU:HD13	3	0.15
(1,642)	1:56:A:LEU:HD12	1:76:A:LEU:HD11	3	0.15
(1,642)	1:56:A:LEU:HD12	1:76:A:LEU:HD12	3	0.15
(1,642)	1:56:A:LEU:HD12	1:76:A:LEU:HD13	3	0.15
(1,642)	1:56:A:LEU:HD13	1:76:A:LEU:HD11	3	0.15
(1,642)	1:56:A:LEU:HD13	1:76:A:LEU:HD12	3	0.15
(1,642)	1:56:A:LEU:HD13	1:76:A:LEU:HD13	3	0.15
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD11	1	0.15
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD12	1	0.15
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD13	1	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG21	8	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG22	8	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG23	8	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG21	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG22	9	0.15
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG23	9	0.15
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	10	0.15
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	10	0.15
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	10	0.15
(1,448)	1:77:A:HIS:H	1:56:A:LEU:HD11	9	0.15
(1,448)	1:77:A:HIS:H	1:56:A:LEU:HD12	9	0.15
(1,448)	1:77:A:HIS:H	1:56:A:LEU:HD13	9	0.15
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD21	5	0.15
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD22	5	0.15
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD23	5	0.15
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD11	10	0.15
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD12	10	0.15
(1,348)	1:80:A:LEU:HD11	1:218:A:ILE:HD13	10	0.15
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD11	10	0.15
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD12	10	0.15
(1,348)	1:80:A:LEU:HD12	1:218:A:ILE:HD13	10	0.15
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD11	10	0.15
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD12	10	0.15
(1,348)	1:80:A:LEU:HD13	1:218:A:ILE:HD13	10	0.15
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD21	4	0.15
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD22	4	0.15
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD23	4	0.15
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD21	4	0.15
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD22	4	0.15
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD23	4	0.15
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD21	4	0.15
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD22	4	0.15
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD23	4	0.15
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD11	4	0.15
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD12	4	0.15
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD13	4	0.15
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD11	4	0.15
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD12	4	0.15
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD13	4	0.15
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD11	4	0.15
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD12	4	0.15
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD13	4	0.15
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB1	1	0.15
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB2	1	0.15
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB3	1	0.15
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB1	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB2	1	0.15
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB3	1	0.15
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB1	1	0.15
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB2	1	0.15
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB3	1	0.15
(1,253)	1:148:A:VAL:HG11	1:188:A:LEU:HD11	6	0.15
(1,253)	1:148:A:VAL:HG11	1:188:A:LEU:HD12	6	0.15
(1,253)	1:148:A:VAL:HG11	1:188:A:LEU:HD13	6	0.15
(1,253)	1:148:A:VAL:HG12	1:188:A:LEU:HD11	6	0.15
(1,253)	1:148:A:VAL:HG12	1:188:A:LEU:HD12	6	0.15
(1,253)	1:148:A:VAL:HG12	1:188:A:LEU:HD13	6	0.15
(1,253)	1:148:A:VAL:HG13	1:188:A:LEU:HD11	6	0.15
(1,253)	1:148:A:VAL:HG13	1:188:A:LEU:HD12	6	0.15
(1,253)	1:148:A:VAL:HG13	1:188:A:LEU:HD13	6	0.15
(1,252)	1:89:A:LEU:HD11	1:188:A:LEU:HD11	3	0.15
(1,252)	1:89:A:LEU:HD11	1:188:A:LEU:HD12	3	0.15
(1,252)	1:89:A:LEU:HD11	1:188:A:LEU:HD13	3	0.15
(1,252)	1:89:A:LEU:HD12	1:188:A:LEU:HD11	3	0.15
(1,252)	1:89:A:LEU:HD12	1:188:A:LEU:HD12	3	0.15
(1,252)	1:89:A:LEU:HD12	1:188:A:LEU:HD13	3	0.15
(1,252)	1:89:A:LEU:HD13	1:188:A:LEU:HD11	3	0.15
(1,252)	1:89:A:LEU:HD13	1:188:A:LEU:HD12	3	0.15
(1,252)	1:89:A:LEU:HD13	1:188:A:LEU:HD13	3	0.15
(1,250)	1:190:A:LEU:HD21	1:198:A:LEU:HD21	3	0.15
(1,250)	1:190:A:LEU:HD21	1:198:A:LEU:HD22	3	0.15
(1,250)	1:190:A:LEU:HD21	1:198:A:LEU:HD23	3	0.15
(1,250)	1:190:A:LEU:HD22	1:198:A:LEU:HD21	3	0.15
(1,250)	1:190:A:LEU:HD22	1:198:A:LEU:HD22	3	0.15
(1,250)	1:190:A:LEU:HD22	1:198:A:LEU:HD23	3	0.15
(1,250)	1:190:A:LEU:HD23	1:198:A:LEU:HD21	3	0.15
(1,250)	1:190:A:LEU:HD23	1:198:A:LEU:HD22	3	0.15
(1,250)	1:190:A:LEU:HD23	1:198:A:LEU:HD23	3	0.15
(1,205)	1:213:A:PHE:HD1	1:214:A:ILE:H	4	0.15
(1,205)	1:213:A:PHE:HD2	1:214:A:ILE:H	4	0.15
(1,184)	1:77:A:HIS:HE1	1:76:A:LEU:H	10	0.15
(1,183)	1:216:A:TYR:HD1	1:77:A:HIS:H	4	0.15
(1,183)	1:216:A:TYR:HD2	1:77:A:HIS:H	4	0.15
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG21	6	0.15
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG22	6	0.15
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG23	6	0.15
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD11	5	0.15
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD12	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,123)	1:52:A:SER:H	1:78:A:ILE:HD13	5	0.15
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD21	2	0.15
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD22	2	0.15
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD23	2	0.15
(1,103)	1:219:A:THR:HG21	1:221:A:PHE:HE1	6	0.15
(1,103)	1:219:A:THR:HG22	1:221:A:PHE:HE1	6	0.15
(1,103)	1:219:A:THR:HG23	1:221:A:PHE:HE1	6	0.15
(1,98)	1:190:A:LEU:HD21	1:197:A:TYR:HD2	8	0.15
(1,98)	1:190:A:LEU:HD22	1:197:A:TYR:HD2	8	0.15
(1,98)	1:190:A:LEU:HD23	1:197:A:TYR:HD2	8	0.15
(1,72)	1:144:A:VAL:HG21	1:44:A:PHE:HE1	8	0.15
(1,72)	1:144:A:VAL:HG21	1:44:A:PHE:HE2	8	0.15
(1,72)	1:144:A:VAL:HG22	1:44:A:PHE:HE1	8	0.15
(1,72)	1:144:A:VAL:HG22	1:44:A:PHE:HE2	8	0.15
(1,72)	1:144:A:VAL:HG23	1:44:A:PHE:HE1	8	0.15
(1,72)	1:144:A:VAL:HG23	1:44:A:PHE:HE2	8	0.15
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE1	6	0.15
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE2	6	0.15
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE1	6	0.15
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE2	6	0.15
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE1	6	0.15
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE2	6	0.15
(1,49)	1:119:A:MET:HE1	1:118:A:PHE:HE2	3	0.15
(1,49)	1:119:A:MET:HE2	1:118:A:PHE:HE2	3	0.15
(1,49)	1:119:A:MET:HE3	1:118:A:PHE:HE2	3	0.15
(1,34)	1:94:A:THR:HG21	1:77:A:HIS:HE1	6	0.15
(1,34)	1:94:A:THR:HG22	1:77:A:HIS:HE1	6	0.15
(1,34)	1:94:A:THR:HG23	1:77:A:HIS:HE1	6	0.15
(1,1589)	1:175:A:ASP:H	1:160:A:TYR:HA	3	0.14
(1,1543)	1:152:A:THR:H	1:159:A:GLN:HA	8	0.14
(1,1532)	1:149:A:THR:H	1:186:A:VAL:HA	8	0.14
(1,1509)	1:83:A:ASN:H	1:84:A:LYS:HA	2	0.14
(1,1502)	1:79:A:ASN:H	1:218:A:ILE:HA	3	0.14
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA2	7	0.14
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA3	7	0.14
(1,978)	1:98:A:MET:H	1:153:A:LYS:H	1	0.14
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	3	0.14
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	4	0.14
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	4	0.14
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	4	0.14
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	4	0.14
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	4	0.14
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	4	0.14
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	4	0.14
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	4	0.14
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	5	0.14
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	5	0.14
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	5	0.14
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	5	0.14
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	5	0.14
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	5	0.14
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	5	0.14
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	5	0.14
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	5	0.14
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG11	3	0.14
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG12	3	0.14
(1,556)	1:191:A:LYS:H	1:144:A:VAL:HG13	3	0.14
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG11	6	0.14
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG12	6	0.14
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG13	6	0.14
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD11	3	0.14
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD12	3	0.14
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD13	3	0.14
(1,539)	1:185:A:LYS:H	1:184:A:THR:HG21	1	0.14
(1,539)	1:185:A:LYS:H	1:184:A:THR:HG22	1	0.14
(1,539)	1:185:A:LYS:H	1:184:A:THR:HG23	1	0.14
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG21	4	0.14
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG22	4	0.14
(1,522)	1:163:A:GLU:H	1:171:A:THR:HG23	4	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD11	8	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD12	8	0.14
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD13	8	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	7	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	7	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	7	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	8	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	8	0.14
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	8	0.14
(1,436)	1:61:A:TYR:H	1:64:A:LEU:HD11	1	0.14
(1,436)	1:61:A:TYR:H	1:64:A:LEU:HD12	1	0.14
(1,436)	1:61:A:TYR:H	1:64:A:LEU:HD13	1	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	8	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	8	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	9	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	9	0.14
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	9	0.14
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	5	0.14
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	5	0.14
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	5	0.14
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	5	0.14
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	5	0.14
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	5	0.14
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	5	0.14
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	5	0.14
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	5	0.14
(1,342)	1:33:A:ILE:HD11	1:131:A:ILE:HD11	2	0.14
(1,342)	1:33:A:ILE:HD11	1:131:A:ILE:HD12	2	0.14
(1,342)	1:33:A:ILE:HD11	1:131:A:ILE:HD13	2	0.14
(1,342)	1:33:A:ILE:HD12	1:131:A:ILE:HD11	2	0.14
(1,342)	1:33:A:ILE:HD12	1:131:A:ILE:HD12	2	0.14
(1,342)	1:33:A:ILE:HD12	1:131:A:ILE:HD13	2	0.14
(1,342)	1:33:A:ILE:HD13	1:131:A:ILE:HD11	2	0.14
(1,342)	1:33:A:ILE:HD13	1:131:A:ILE:HD12	2	0.14
(1,342)	1:33:A:ILE:HD13	1:131:A:ILE:HD13	2	0.14
(1,340)	1:49:A:ILE:HD11	1:218:A:ILE:HD11	10	0.14
(1,340)	1:49:A:ILE:HD11	1:218:A:ILE:HD12	10	0.14
(1,340)	1:49:A:ILE:HD11	1:218:A:ILE:HD13	10	0.14
(1,340)	1:49:A:ILE:HD12	1:218:A:ILE:HD11	10	0.14
(1,340)	1:49:A:ILE:HD12	1:218:A:ILE:HD12	10	0.14
(1,340)	1:49:A:ILE:HD12	1:218:A:ILE:HD13	10	0.14
(1,340)	1:49:A:ILE:HD13	1:218:A:ILE:HD11	10	0.14
(1,340)	1:49:A:ILE:HD13	1:218:A:ILE:HD12	10	0.14
(1,340)	1:49:A:ILE:HD13	1:218:A:ILE:HD13	10	0.14
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE1	5	0.14
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE2	5	0.14
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE3	5	0.14
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE1	5	0.14
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE2	5	0.14
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE3	5	0.14
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE1	5	0.14
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE2	5	0.14
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE3	5	0.14
(1,311)	1:29:A:LEU:HD11	1:119:A:MET:HE1	9	0.14
(1,311)	1:29:A:LEU:HD11	1:119:A:MET:HE2	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:29:A:LEU:HD11	1:119:A:MET:HE3	9	0.14
(1,311)	1:29:A:LEU:HD12	1:119:A:MET:HE1	9	0.14
(1,311)	1:29:A:LEU:HD12	1:119:A:MET:HE2	9	0.14
(1,311)	1:29:A:LEU:HD12	1:119:A:MET:HE3	9	0.14
(1,311)	1:29:A:LEU:HD13	1:119:A:MET:HE1	9	0.14
(1,311)	1:29:A:LEU:HD13	1:119:A:MET:HE2	9	0.14
(1,311)	1:29:A:LEU:HD13	1:119:A:MET:HE3	9	0.14
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD21	4	0.14
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD22	4	0.14
(1,303)	1:98:A:MET:HE1	1:103:A:LEU:HD23	4	0.14
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD21	4	0.14
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD22	4	0.14
(1,303)	1:98:A:MET:HE2	1:103:A:LEU:HD23	4	0.14
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD21	4	0.14
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD22	4	0.14
(1,303)	1:98:A:MET:HE3	1:103:A:LEU:HD23	4	0.14
(1,293)	1:145:A:ALA:HB1	1:141:A:ALA:HB1	6	0.14
(1,293)	1:145:A:ALA:HB1	1:141:A:ALA:HB2	6	0.14
(1,293)	1:145:A:ALA:HB1	1:141:A:ALA:HB3	6	0.14
(1,293)	1:145:A:ALA:HB2	1:141:A:ALA:HB1	6	0.14
(1,293)	1:145:A:ALA:HB2	1:141:A:ALA:HB2	6	0.14
(1,293)	1:145:A:ALA:HB2	1:141:A:ALA:HB3	6	0.14
(1,293)	1:145:A:ALA:HB3	1:141:A:ALA:HB1	6	0.14
(1,293)	1:145:A:ALA:HB3	1:141:A:ALA:HB2	6	0.14
(1,293)	1:145:A:ALA:HB3	1:141:A:ALA:HB3	6	0.14
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG21	5	0.14
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG22	5	0.14
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG23	5	0.14
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG21	5	0.14
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG22	5	0.14
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG23	5	0.14
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG21	5	0.14
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG22	5	0.14
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG23	5	0.14
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD21	2	0.14
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD22	2	0.14
(1,264)	1:148:A:VAL:HG11	1:188:A:LEU:HD23	2	0.14
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD21	2	0.14
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD22	2	0.14
(1,264)	1:148:A:VAL:HG12	1:188:A:LEU:HD23	2	0.14
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD21	2	0.14
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD22	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:148:A:VAL:HG13	1:188:A:LEU:HD23	2	0.14
(1,245)	1:145:A:ALA:HB1	1:188:A:LEU:HD21	7	0.14
(1,245)	1:145:A:ALA:HB1	1:188:A:LEU:HD22	7	0.14
(1,245)	1:145:A:ALA:HB1	1:188:A:LEU:HD23	7	0.14
(1,245)	1:145:A:ALA:HB2	1:188:A:LEU:HD21	7	0.14
(1,245)	1:145:A:ALA:HB2	1:188:A:LEU:HD22	7	0.14
(1,245)	1:145:A:ALA:HB2	1:188:A:LEU:HD23	7	0.14
(1,245)	1:145:A:ALA:HB3	1:188:A:LEU:HD21	7	0.14
(1,245)	1:145:A:ALA:HB3	1:188:A:LEU:HD22	7	0.14
(1,245)	1:145:A:ALA:HB3	1:188:A:LEU:HD23	7	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	6	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	6	0.14
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	6	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	6	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	6	0.14
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	6	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	6	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	6	0.14
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	6	0.14
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	8	0.14
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	8	0.14
(1,191)	1:20:A:PHE:HD1	1:21:A:ALA:H	3	0.14
(1,191)	1:20:A:PHE:HD2	1:21:A:ALA:H	3	0.14
(1,178)	1:197:A:TYR:HE1	1:44:A:PHE:H	1	0.14
(1,178)	1:197:A:TYR:HE2	1:44:A:PHE:H	1	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG21	6	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG22	6	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG23	6	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG21	10	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG22	10	0.14
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG23	10	0.14
(1,154)	1:159:A:GLN:H	1:174:A:THR:HG21	2	0.14
(1,154)	1:159:A:GLN:H	1:174:A:THR:HG22	2	0.14
(1,154)	1:159:A:GLN:H	1:174:A:THR:HG23	2	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB1	5	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB2	5	0.14
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB3	5	0.14
(1,146)	1:98:A:MET:H	1:152:A:THR:HG21	3	0.14
(1,146)	1:98:A:MET:H	1:152:A:THR:HG22	3	0.14
(1,146)	1:98:A:MET:H	1:152:A:THR:HG23	3	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB1	1	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB2	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB3	1	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB1	4	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB2	4	0.14
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB3	4	0.14
(1,91)	1:172:A:VAL:HG21	1:170:A:PHE:HE1	5	0.14
(1,91)	1:172:A:VAL:HG22	1:170:A:PHE:HE1	5	0.14
(1,91)	1:172:A:VAL:HG23	1:170:A:PHE:HE1	5	0.14
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD1	10	0.14
(1,80)	1:166:A:ALA:HB1	1:142:A:TYR:HD2	10	0.14
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD1	10	0.14
(1,80)	1:166:A:ALA:HB2	1:142:A:TYR:HD2	10	0.14
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD1	10	0.14
(1,80)	1:166:A:ALA:HB3	1:142:A:TYR:HD2	10	0.14
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD1	6	0.14
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD2	6	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD1	6	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD2	6	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD1	6	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD2	6	0.14
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD1	10	0.14
(1,76)	1:148:A:VAL:HG21	1:142:A:TYR:HD2	10	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD1	10	0.14
(1,76)	1:148:A:VAL:HG22	1:142:A:TYR:HD2	10	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD1	10	0.14
(1,76)	1:148:A:VAL:HG23	1:142:A:TYR:HD2	10	0.14
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE1	6	0.14
(1,55)	1:122:A:LEU:HD21	1:118:A:PHE:HE2	6	0.14
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE1	6	0.14
(1,55)	1:122:A:LEU:HD22	1:118:A:PHE:HE2	6	0.14
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE1	6	0.14
(1,55)	1:122:A:LEU:HD23	1:118:A:PHE:HE2	6	0.14
(1,45)	1:109:A:THR:HG21	1:139:A:TYR:HD2	3	0.14
(1,45)	1:109:A:THR:HG22	1:139:A:TYR:HD2	3	0.14
(1,45)	1:109:A:THR:HG23	1:139:A:TYR:HD2	3	0.14
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD1	4	0.14
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD2	4	0.14
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD1	4	0.14
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD2	4	0.14
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD1	4	0.14
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD2	4	0.14
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE1	3	0.14
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE2	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE1	3	0.14
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE2	3	0.14
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE1	3	0.14
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE2	3	0.14
(1,1607)	1:187:A:ILE:H	1:148:A:VAL:HA	10	0.13
(1,1584)	1:173:A:ARG:H	1:160:A:TYR:HA	5	0.13
(1,1524)	1:94:A:THR:H	1:78:A:ILE:HA	7	0.13
(1,1479)	1:211:A:SER:H	1:207:A:VAL:HA	9	0.13
(1,1442)	1:30:A:MET:H	1:26:A:ILE:HA	1	0.13
(1,1366)	1:197:A:TYR:H	1:195:A:THR:HA	8	0.13
(1,1342)	1:72:A:SER:H	1:70:A:LEU:HA	5	0.13
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA2	10	0.13
(1,1268)	1:182:A:ARG:H	1:181:A:GLY:HA3	10	0.13
(1,976)	1:97:A:GLY:H	1:183:A:GLY:H	2	0.13
(1,958)	1:81:A:ILE:H	1:92:A:VAL:H	6	0.13
(1,945)	1:58:A:LYS:H	1:96:A:ILE:H	5	0.13
(1,912)	1:68:A:SER:H	1:71:A:ASP:H	2	0.13
(1,885)	1:211:A:SER:H	1:213:A:PHE:H	2	0.13
(1,849)	1:97:A:GLY:H	1:95:A:GLY:H	6	0.13
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	1	0.13
(1,772)	1:181:A:GLY:H	1:182:A:ARG:H	2	0.13
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	8	0.13
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	8	0.13
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	8	0.13
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	8	0.13
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	8	0.13
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	8	0.13
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	8	0.13
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	8	0.13
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	8	0.13
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD11	4	0.13
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD12	4	0.13
(1,647)	1:59:A:ILE:HD11	1:96:A:ILE:HD13	4	0.13
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD11	4	0.13
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD12	4	0.13
(1,647)	1:59:A:ILE:HD12	1:96:A:ILE:HD13	4	0.13
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD11	4	0.13
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD12	4	0.13
(1,647)	1:59:A:ILE:HD13	1:96:A:ILE:HD13	4	0.13
(1,628)	1:122:A:LEU:HD21	1:32:A:LEU:HD21	6	0.13
(1,628)	1:122:A:LEU:HD21	1:32:A:LEU:HD22	6	0.13
(1,628)	1:122:A:LEU:HD21	1:32:A:LEU:HD23	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,628)	1:122:A:LEU:HD22	1:32:A:LEU:HD21	6	0.13
(1,628)	1:122:A:LEU:HD22	1:32:A:LEU:HD22	6	0.13
(1,628)	1:122:A:LEU:HD22	1:32:A:LEU:HD23	6	0.13
(1,628)	1:122:A:LEU:HD23	1:32:A:LEU:HD21	6	0.13
(1,628)	1:122:A:LEU:HD23	1:32:A:LEU:HD22	6	0.13
(1,628)	1:122:A:LEU:HD23	1:32:A:LEU:HD23	6	0.13
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD11	4	0.13
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD12	4	0.13
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD13	4	0.13
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD11	4	0.13
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD12	4	0.13
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD13	4	0.13
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD11	4	0.13
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD12	4	0.13
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD13	4	0.13
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG21	9	0.13
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG22	9	0.13
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG23	9	0.13
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG21	9	0.13
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG22	9	0.13
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG23	9	0.13
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG21	9	0.13
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG22	9	0.13
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG23	9	0.13
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG11	4	0.13
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG12	4	0.13
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG13	4	0.13
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG21	8	0.13
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG22	8	0.13
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG23	8	0.13
(1,510)	1:151:A:ILE:H	1:184:A:THR:HG21	8	0.13
(1,510)	1:151:A:ILE:H	1:184:A:THR:HG22	8	0.13
(1,510)	1:151:A:ILE:H	1:184:A:THR:HG23	8	0.13
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG11	3	0.13
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG12	3	0.13
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG13	3	0.13
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD11	10	0.13
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD12	10	0.13
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD13	10	0.13
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD11	6	0.13
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD12	6	0.13
(1,474)	1:89:A:LEU:H	1:190:A:LEU:HD13	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD21	10	0.13
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD22	10	0.13
(1,472)	1:87:A:ARG:H	1:198:A:LEU:HD23	10	0.13
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG21	1	0.13
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG22	1	0.13
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG23	1	0.13
(1,429)	1:56:A:LEU:H	1:55:A:ALA:HB1	5	0.13
(1,429)	1:56:A:LEU:H	1:55:A:ALA:HB2	5	0.13
(1,429)	1:56:A:LEU:H	1:55:A:ALA:HB3	5	0.13
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD21	6	0.13
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD22	6	0.13
(1,396)	1:188:A:LEU:H	1:188:A:LEU:HD23	6	0.13
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	1	0.13
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	1	0.13
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	1	0.13
(1,332)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	6	0.13
(1,332)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	6	0.13
(1,332)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	6	0.13
(1,332)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	6	0.13
(1,332)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	6	0.13
(1,332)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	6	0.13
(1,332)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	6	0.13
(1,332)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	6	0.13
(1,332)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	6	0.13
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	3	0.13
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	3	0.13
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	3	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	3	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	3	0.13
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	3	0.13
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	3	0.13
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	3	0.13
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	3	0.13
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	1	0.13
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	1	0.13
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	1	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	1	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	1	0.13
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	1	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	1	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	1	0.13
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:92:A:VAL:HG11	1:180:A:MET:HE1	10	0.13
(1,309)	1:92:A:VAL:HG11	1:180:A:MET:HE2	10	0.13
(1,309)	1:92:A:VAL:HG11	1:180:A:MET:HE3	10	0.13
(1,309)	1:92:A:VAL:HG12	1:180:A:MET:HE1	10	0.13
(1,309)	1:92:A:VAL:HG12	1:180:A:MET:HE2	10	0.13
(1,309)	1:92:A:VAL:HG12	1:180:A:MET:HE3	10	0.13
(1,309)	1:92:A:VAL:HG13	1:180:A:MET:HE1	10	0.13
(1,309)	1:92:A:VAL:HG13	1:180:A:MET:HE2	10	0.13
(1,309)	1:92:A:VAL:HG13	1:180:A:MET:HE3	10	0.13
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB1	8	0.13
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB2	8	0.13
(1,301)	1:124:A:ALA:HB1	1:121:A:ALA:HB3	8	0.13
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB1	8	0.13
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB2	8	0.13
(1,301)	1:124:A:ALA:HB2	1:121:A:ALA:HB3	8	0.13
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB1	8	0.13
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB2	8	0.13
(1,301)	1:124:A:ALA:HB3	1:121:A:ALA:HB3	8	0.13
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	7	0.13
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	7	0.13
(1,230)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	7	0.13
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	7	0.13
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	7	0.13
(1,230)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	7	0.13
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	7	0.13
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	7	0.13
(1,230)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	7	0.13
(1,192)	1:20:A:PHE:HD1	1:172:A:VAL:H	3	0.13
(1,192)	1:20:A:PHE:HD2	1:172:A:VAL:H	3	0.13
(1,185)	1:210:A:HIS:HE1	1:43:A:ILE:H	5	0.13
(1,181)	1:216:A:TYR:HE1	1:54:A:ASP:H	7	0.13
(1,181)	1:216:A:TYR:HE2	1:54:A:ASP:H	7	0.13
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB1	4	0.13
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB2	4	0.13
(1,150)	1:168:A:GLY:H	1:166:A:ALA:HB3	4	0.13
(1,132)	1:162:A:TRP:H	1:103:A:LEU:HD11	3	0.13
(1,132)	1:162:A:TRP:H	1:103:A:LEU:HD12	3	0.13
(1,132)	1:162:A:TRP:H	1:103:A:LEU:HD13	3	0.13
(1,125)	1:92:A:VAL:H	1:80:A:LEU:HD21	9	0.13
(1,125)	1:92:A:VAL:H	1:80:A:LEU:HD22	9	0.13
(1,125)	1:92:A:VAL:H	1:80:A:LEU:HD23	9	0.13
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD21	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD22	5	0.13
(1,116)	1:49:A:ILE:H	1:48:A:LEU:HD23	5	0.13
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB1	8	0.13
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB2	8	0.13
(1,105)	1:29:A:LEU:H	1:27:A:ALA:HB3	8	0.13
(1,103)	1:219:A:THR:HG21	1:221:A:PHE:HE1	3	0.13
(1,103)	1:219:A:THR:HG22	1:221:A:PHE:HE1	3	0.13
(1,103)	1:219:A:THR:HG23	1:221:A:PHE:HE1	3	0.13
(1,91)	1:172:A:VAL:HG21	1:170:A:PHE:HE1	6	0.13
(1,91)	1:172:A:VAL:HG22	1:170:A:PHE:HE1	6	0.13
(1,91)	1:172:A:VAL:HG23	1:170:A:PHE:HE1	6	0.13
(1,78)	1:152:A:THR:HG21	1:160:A:TYR:HE2	1	0.13
(1,78)	1:152:A:THR:HG22	1:160:A:TYR:HE2	1	0.13
(1,78)	1:152:A:THR:HG23	1:160:A:TYR:HE2	1	0.13
(1,74)	1:148:A:VAL:HG11	1:142:A:TYR:HE2	3	0.13
(1,74)	1:148:A:VAL:HG12	1:142:A:TYR:HE2	3	0.13
(1,74)	1:148:A:VAL:HG13	1:142:A:TYR:HE2	3	0.13
(1,67)	1:143:A:LEU:HD21	1:38:A:TYR:HE2	1	0.13
(1,67)	1:143:A:LEU:HD22	1:38:A:TYR:HE2	1	0.13
(1,67)	1:143:A:LEU:HD23	1:38:A:TYR:HE2	1	0.13
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE1	7	0.13
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE2	7	0.13
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE1	7	0.13
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE2	7	0.13
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE1	7	0.13
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE2	7	0.13
(1,36)	1:99:A:THR:HG21	1:154:A:HIS:HE1	10	0.13
(1,36)	1:99:A:THR:HG22	1:154:A:HIS:HE1	10	0.13
(1,36)	1:99:A:THR:HG23	1:154:A:HIS:HE1	10	0.13
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD1	7	0.13
(1,26)	1:81:A:ILE:HD11	1:221:A:PHE:HD2	7	0.13
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD1	7	0.13
(1,26)	1:81:A:ILE:HD12	1:221:A:PHE:HD2	7	0.13
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD1	7	0.13
(1,26)	1:81:A:ILE:HD13	1:221:A:PHE:HD2	7	0.13
(1,24)	1:76:A:LEU:HD11	1:216:A:TYR:HD1	6	0.13
(1,24)	1:76:A:LEU:HD12	1:216:A:TYR:HD1	6	0.13
(1,24)	1:76:A:LEU:HD13	1:216:A:TYR:HD1	6	0.13
(1,11)	1:30:A:MET:HE1	1:139:A:TYR:HE1	7	0.13
(1,11)	1:30:A:MET:HE2	1:139:A:TYR:HE1	7	0.13
(1,11)	1:30:A:MET:HE3	1:139:A:TYR:HE1	7	0.13
(1,5)	1:32:A:LEU:HD11	1:118:A:PHE:HD2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:32:A:LEU:HD12	1:118:A:PHE:HD2	8	0.13
(1,5)	1:32:A:LEU:HD13	1:118:A:PHE:HD2	8	0.13
(1,1658)	1:121:A:ALA:H	1:117:A:ALA:HA	8	0.12
(1,1618)	1:190:A:LEU:H	1:88:A:THR:HA	9	0.12
(1,1607)	1:187:A:ILE:H	1:148:A:VAL:HA	9	0.12
(1,1569)	1:164:A:SER:H	1:149:A:THR:HA	9	0.12
(1,1508)	1:81:A:ILE:H	1:91:A:ILE:HA	3	0.12
(1,1505)	1:80:A:LEU:H	1:220:A:LEU:HA	7	0.12
(1,1484)	1:98:A:MET:H	1:154:A:HIS:H	2	0.12
(1,1482)	1:83:A:ASN:H	1:86:A:ASP:H	3	0.12
(1,1466)	1:65:A:THR:H	1:61:A:TYR:HA	9	0.12
(1,1413)	1:65:A:THR:H	1:62:A:GLU:HA	5	0.12
(1,1397)	1:49:A:ILE:H	1:46:A:ARG:HA	4	0.12
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA2	7	0.12
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA3	7	0.12
(1,873)	1:199:A:GLU:H	1:197:A:TYR:H	6	0.12
(1,849)	1:97:A:GLY:H	1:95:A:GLY:H	3	0.12
(1,818)	1:41:A:LYS:H	1:43:A:ILE:H	7	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	1	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	1	0.12
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	1	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	1	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	1	0.12
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	1	0.12
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	1	0.12
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	1	0.12
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	1	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD11	5	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD12	5	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD13	5	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD11	5	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD12	5	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD13	5	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD11	5	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD12	5	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD13	5	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD11	7	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD12	7	0.12
(1,637)	1:45:A:LEU:HD21	1:206:A:ILE:HD13	7	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD11	7	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD12	7	0.12
(1,637)	1:45:A:LEU:HD22	1:206:A:ILE:HD13	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD11	7	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD12	7	0.12
(1,637)	1:45:A:LEU:HD23	1:206:A:ILE:HD13	7	0.12
(1,636)	1:45:A:LEU:HD21	1:80:A:LEU:HD21	2	0.12
(1,636)	1:45:A:LEU:HD21	1:80:A:LEU:HD22	2	0.12
(1,636)	1:45:A:LEU:HD21	1:80:A:LEU:HD23	2	0.12
(1,636)	1:45:A:LEU:HD22	1:80:A:LEU:HD21	2	0.12
(1,636)	1:45:A:LEU:HD22	1:80:A:LEU:HD22	2	0.12
(1,636)	1:45:A:LEU:HD22	1:80:A:LEU:HD23	2	0.12
(1,636)	1:45:A:LEU:HD23	1:80:A:LEU:HD21	2	0.12
(1,636)	1:45:A:LEU:HD23	1:80:A:LEU:HD22	2	0.12
(1,636)	1:45:A:LEU:HD23	1:80:A:LEU:HD23	2	0.12
(1,627)	1:122:A:LEU:HD11	1:32:A:LEU:HD21	9	0.12
(1,627)	1:122:A:LEU:HD11	1:32:A:LEU:HD22	9	0.12
(1,627)	1:122:A:LEU:HD11	1:32:A:LEU:HD23	9	0.12
(1,627)	1:122:A:LEU:HD12	1:32:A:LEU:HD21	9	0.12
(1,627)	1:122:A:LEU:HD12	1:32:A:LEU:HD22	9	0.12
(1,627)	1:122:A:LEU:HD12	1:32:A:LEU:HD23	9	0.12
(1,627)	1:122:A:LEU:HD13	1:32:A:LEU:HD21	9	0.12
(1,627)	1:122:A:LEU:HD13	1:32:A:LEU:HD22	9	0.12
(1,627)	1:122:A:LEU:HD13	1:32:A:LEU:HD23	9	0.12
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE1	2	0.12
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE2	2	0.12
(1,618)	1:29:A:LEU:HD21	1:119:A:MET:HE3	2	0.12
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE1	2	0.12
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE2	2	0.12
(1,618)	1:29:A:LEU:HD22	1:119:A:MET:HE3	2	0.12
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE1	2	0.12
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE2	2	0.12
(1,618)	1:29:A:LEU:HD23	1:119:A:MET:HE3	2	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	10	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	10	0.12
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	10	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	10	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	10	0.12
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	10	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	10	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	10	0.12
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	10	0.12
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG11	9	0.12
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG12	9	0.12
(1,544)	1:187:A:ILE:H	1:150:A:VAL:HG13	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG21	9	0.12
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG22	9	0.12
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG23	9	0.12
(1,534)	1:182:A:ARG:H	1:180:A:MET:HE1	4	0.12
(1,534)	1:182:A:ARG:H	1:180:A:MET:HE2	4	0.12
(1,534)	1:182:A:ARG:H	1:180:A:MET:HE3	4	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG21	2	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG22	2	0.12
(1,524)	1:164:A:SER:H	1:148:A:VAL:HG23	2	0.12
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG21	5	0.12
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG22	5	0.12
(1,501)	1:145:A:ALA:H	1:144:A:VAL:HG23	5	0.12
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	1	0.12
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	1	0.12
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	1	0.12
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD11	3	0.12
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD12	3	0.12
(1,470)	1:85:A:GLN:H	1:198:A:LEU:HD13	3	0.12
(1,454)	1:79:A:ASN:H	1:80:A:LEU:HD11	2	0.12
(1,454)	1:79:A:ASN:H	1:80:A:LEU:HD12	2	0.12
(1,454)	1:79:A:ASN:H	1:80:A:LEU:HD13	2	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG21	3	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG22	3	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG23	3	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG21	7	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG22	7	0.12
(1,451)	1:77:A:HIS:H	1:94:A:THR:HG23	7	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD11	7	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD12	7	0.12
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD13	7	0.12
(1,416)	1:20:A:PHE:H	1:171:A:THR:HG21	8	0.12
(1,416)	1:20:A:PHE:H	1:171:A:THR:HG22	8	0.12
(1,416)	1:20:A:PHE:H	1:171:A:THR:HG23	8	0.12
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG11	4	0.12
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG12	4	0.12
(1,390)	1:172:A:VAL:H	1:172:A:VAL:HG13	4	0.12
(1,335)	1:49:A:ILE:HD11	1:80:A:LEU:HD11	2	0.12
(1,335)	1:49:A:ILE:HD11	1:80:A:LEU:HD12	2	0.12
(1,335)	1:49:A:ILE:HD11	1:80:A:LEU:HD13	2	0.12
(1,335)	1:49:A:ILE:HD12	1:80:A:LEU:HD11	2	0.12
(1,335)	1:49:A:ILE:HD12	1:80:A:LEU:HD12	2	0.12
(1,335)	1:49:A:ILE:HD12	1:80:A:LEU:HD13	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:49:A:ILE:HD13	1:80:A:LEU:HD11	2	0.12
(1,335)	1:49:A:ILE:HD13	1:80:A:LEU:HD12	2	0.12
(1,335)	1:49:A:ILE:HD13	1:80:A:LEU:HD13	2	0.12
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE1	9	0.12
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE2	9	0.12
(1,326)	1:126:A:ALA:HB1	1:130:A:MET:HE3	9	0.12
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE1	9	0.12
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE2	9	0.12
(1,326)	1:126:A:ALA:HB2	1:130:A:MET:HE3	9	0.12
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE1	9	0.12
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE2	9	0.12
(1,326)	1:126:A:ALA:HB3	1:130:A:MET:HE3	9	0.12
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD11	2	0.12
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD12	2	0.12
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD13	2	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD11	2	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD12	2	0.12
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD13	2	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD11	2	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD12	2	0.12
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD13	2	0.12
(1,315)	1:144:A:VAL:HG11	1:188:A:LEU:HD11	3	0.12
(1,315)	1:144:A:VAL:HG11	1:188:A:LEU:HD12	3	0.12
(1,315)	1:144:A:VAL:HG11	1:188:A:LEU:HD13	3	0.12
(1,315)	1:144:A:VAL:HG12	1:188:A:LEU:HD11	3	0.12
(1,315)	1:144:A:VAL:HG12	1:188:A:LEU:HD12	3	0.12
(1,315)	1:144:A:VAL:HG12	1:188:A:LEU:HD13	3	0.12
(1,315)	1:144:A:VAL:HG13	1:188:A:LEU:HD11	3	0.12
(1,315)	1:144:A:VAL:HG13	1:188:A:LEU:HD12	3	0.12
(1,315)	1:144:A:VAL:HG13	1:188:A:LEU:HD13	3	0.12
(1,268)	1:186:A:VAL:HG11	1:188:A:LEU:HD11	3	0.12
(1,268)	1:186:A:VAL:HG11	1:188:A:LEU:HD12	3	0.12
(1,268)	1:186:A:VAL:HG11	1:188:A:LEU:HD13	3	0.12
(1,268)	1:186:A:VAL:HG12	1:188:A:LEU:HD11	3	0.12
(1,268)	1:186:A:VAL:HG12	1:188:A:LEU:HD12	3	0.12
(1,268)	1:186:A:VAL:HG12	1:188:A:LEU:HD13	3	0.12
(1,268)	1:186:A:VAL:HG13	1:188:A:LEU:HD11	3	0.12
(1,268)	1:186:A:VAL:HG13	1:188:A:LEU:HD12	3	0.12
(1,268)	1:186:A:VAL:HG13	1:188:A:LEU:HD13	3	0.12
(1,239)	1:220:A:LEU:HD21	1:222:A:VAL:HG21	10	0.12
(1,239)	1:220:A:LEU:HD21	1:222:A:VAL:HG22	10	0.12
(1,239)	1:220:A:LEU:HD21	1:222:A:VAL:HG23	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:220:A:LEU:HD22	1:222:A:VAL:HG21	10	0.12
(1,239)	1:220:A:LEU:HD22	1:222:A:VAL:HG22	10	0.12
(1,239)	1:220:A:LEU:HD22	1:222:A:VAL:HG23	10	0.12
(1,239)	1:220:A:LEU:HD23	1:222:A:VAL:HG21	10	0.12
(1,239)	1:220:A:LEU:HD23	1:222:A:VAL:HG22	10	0.12
(1,239)	1:220:A:LEU:HD23	1:222:A:VAL:HG23	10	0.12
(1,231)	1:89:A:LEU:HD21	1:198:A:LEU:HD11	5	0.12
(1,231)	1:89:A:LEU:HD21	1:198:A:LEU:HD12	5	0.12
(1,231)	1:89:A:LEU:HD21	1:198:A:LEU:HD13	5	0.12
(1,231)	1:89:A:LEU:HD22	1:198:A:LEU:HD11	5	0.12
(1,231)	1:89:A:LEU:HD22	1:198:A:LEU:HD12	5	0.12
(1,231)	1:89:A:LEU:HD22	1:198:A:LEU:HD13	5	0.12
(1,231)	1:89:A:LEU:HD23	1:198:A:LEU:HD11	5	0.12
(1,231)	1:89:A:LEU:HD23	1:198:A:LEU:HD12	5	0.12
(1,231)	1:89:A:LEU:HD23	1:198:A:LEU:HD13	5	0.12
(1,205)	1:213:A:PHE:HD1	1:214:A:ILE:H	1	0.12
(1,205)	1:213:A:PHE:HD2	1:214:A:ILE:H	1	0.12
(1,205)	1:213:A:PHE:HD1	1:214:A:ILE:H	2	0.12
(1,205)	1:213:A:PHE:HD2	1:214:A:ILE:H	2	0.12
(1,205)	1:213:A:PHE:HD1	1:214:A:ILE:H	7	0.12
(1,205)	1:213:A:PHE:HD2	1:214:A:ILE:H	7	0.12
(1,202)	1:170:A:PHE:HE1	1:22:A:PHE:H	4	0.12
(1,202)	1:170:A:PHE:HE2	1:22:A:PHE:H	4	0.12
(1,191)	1:20:A:PHE:HD1	1:21:A:ALA:H	7	0.12
(1,191)	1:20:A:PHE:HD2	1:21:A:ALA:H	7	0.12
(1,186)	1:210:A:HIS:HD2	1:207:A:VAL:H	10	0.12
(1,183)	1:216:A:TYR:HD1	1:77:A:HIS:H	8	0.12
(1,183)	1:216:A:TYR:HD2	1:77:A:HIS:H	8	0.12
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD11	4	0.12
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD12	4	0.12
(1,166)	1:201:A:ARG:H	1:203:A:ILE:HD13	4	0.12
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB1	7	0.12
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB2	7	0.12
(1,149)	1:175:A:ASP:H	1:161:A:ALA:HB3	7	0.12
(1,137)	1:123:A:GLN:H	1:126:A:ALA:HB1	3	0.12
(1,137)	1:123:A:GLN:H	1:126:A:ALA:HB2	3	0.12
(1,137)	1:123:A:GLN:H	1:126:A:ALA:HB3	3	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD21	4	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD22	4	0.12
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD23	4	0.12
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE1	8	0.12
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,107)	1:166:A:ALA:H	1:30:A:MET:HE3	8	0.12
(1,101)	1:214:A:ILE:HD11	1:216:A:TYR:HE1	4	0.12
(1,101)	1:214:A:ILE:HD11	1:216:A:TYR:HE2	4	0.12
(1,101)	1:214:A:ILE:HD12	1:216:A:TYR:HE1	4	0.12
(1,101)	1:214:A:ILE:HD12	1:216:A:TYR:HE2	4	0.12
(1,101)	1:214:A:ILE:HD13	1:216:A:TYR:HE1	4	0.12
(1,101)	1:214:A:ILE:HD13	1:216:A:TYR:HE2	4	0.12
(1,71)	1:144:A:VAL:HG21	1:44:A:PHE:HD1	1	0.12
(1,71)	1:144:A:VAL:HG21	1:44:A:PHE:HD2	1	0.12
(1,71)	1:144:A:VAL:HG22	1:44:A:PHE:HD1	1	0.12
(1,71)	1:144:A:VAL:HG22	1:44:A:PHE:HD2	1	0.12
(1,71)	1:144:A:VAL:HG23	1:44:A:PHE:HD1	1	0.12
(1,71)	1:144:A:VAL:HG23	1:44:A:PHE:HD2	1	0.12
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE1	9	0.12
(1,62)	1:130:A:MET:HE1	1:134:A:PHE:HE2	9	0.12
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE1	9	0.12
(1,62)	1:130:A:MET:HE2	1:134:A:PHE:HE2	9	0.12
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE1	9	0.12
(1,62)	1:130:A:MET:HE3	1:134:A:PHE:HE2	9	0.12
(1,61)	1:130:A:MET:HE1	1:134:A:PHE:HD2	4	0.12
(1,61)	1:130:A:MET:HE2	1:134:A:PHE:HD2	4	0.12
(1,61)	1:130:A:MET:HE3	1:134:A:PHE:HD2	4	0.12
(1,36)	1:99:A:THR:HG21	1:154:A:HIS:HE1	6	0.12
(1,36)	1:99:A:THR:HG22	1:154:A:HIS:HE1	6	0.12
(1,36)	1:99:A:THR:HG23	1:154:A:HIS:HE1	6	0.12
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE1	8	0.12
(1,17)	1:48:A:LEU:HD11	1:138:A:PHE:HE2	8	0.12
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE1	8	0.12
(1,17)	1:48:A:LEU:HD12	1:138:A:PHE:HE2	8	0.12
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE1	8	0.12
(1,17)	1:48:A:LEU:HD13	1:138:A:PHE:HE2	8	0.12
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE1	2	0.12
(1,13)	1:30:A:MET:HE1	1:142:A:TYR:HE2	2	0.12
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE1	2	0.12
(1,13)	1:30:A:MET:HE2	1:142:A:TYR:HE2	2	0.12
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE1	2	0.12
(1,13)	1:30:A:MET:HE3	1:142:A:TYR:HE2	2	0.12
(1,1574)	1:170:A:PHE:H	1:21:A:ALA:HA	4	0.11
(1,1559)	1:162:A:TRP:H	1:149:A:THR:HA	10	0.11
(1,1495)	1:22:A:PHE:H	1:169:A:SER:HA	7	0.11
(1,1480)	1:212:A:GLN:H	1:208:A:LYS:HA	2	0.11
(1,1479)	1:211:A:SER:H	1:207:A:VAL:HA	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1395)	1:47:A:GLU:H	1:44:A:PHE:HA	9	0.11
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA2	5	0.11
(1,1257)	1:169:A:SER:H	1:168:A:GLY:HA3	5	0.11
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA2	10	0.11
(1,1124)	1:181:A:GLY:H	1:181:A:GLY:HA3	10	0.11
(1,1110)	1:166:A:ALA:H	1:166:A:ALA:HA	4	0.11
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA2	7	0.11
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA3	7	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	3	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	3	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	5	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	5	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	8	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	8	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	9	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	9	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	10	0.11
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	10	0.11
(1,973)	1:93:A:ASP:H	1:186:A:VAL:H	5	0.11
(1,858)	1:127:A:ASP:H	1:129:A:SER:H	3	0.11
(1,845)	1:85:A:GLN:H	1:83:A:ASN:H	10	0.11
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD21	9	0.11
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD22	9	0.11
(1,667)	1:148:A:VAL:HG21	1:188:A:LEU:HD23	9	0.11
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD21	9	0.11
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD22	9	0.11
(1,667)	1:148:A:VAL:HG22	1:188:A:LEU:HD23	9	0.11
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD21	9	0.11
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD22	9	0.11
(1,667)	1:148:A:VAL:HG23	1:188:A:LEU:HD23	9	0.11
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD21	2	0.11
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD22	2	0.11
(1,661)	1:150:A:VAL:HG11	1:103:A:LEU:HD23	2	0.11
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD21	2	0.11
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD22	2	0.11
(1,661)	1:150:A:VAL:HG12	1:103:A:LEU:HD23	2	0.11
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD21	2	0.11
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD22	2	0.11
(1,661)	1:150:A:VAL:HG13	1:103:A:LEU:HD23	2	0.11
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG11	8	0.11
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG12	8	0.11
(1,658)	1:90:A:THR:HG21	1:92:A:VAL:HG13	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG11	8	0.11
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG12	8	0.11
(1,658)	1:90:A:THR:HG22	1:92:A:VAL:HG13	8	0.11
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG11	8	0.11
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG12	8	0.11
(1,658)	1:90:A:THR:HG23	1:92:A:VAL:HG13	8	0.11
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	2	0.11
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	2	0.11
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	2	0.11
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	2	0.11
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	2	0.11
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	2	0.11
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	2	0.11
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	2	0.11
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	2	0.11
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG21	2	0.11
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG22	2	0.11
(1,649)	1:64:A:LEU:HD11	1:65:A:THR:HG23	2	0.11
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG21	2	0.11
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG22	2	0.11
(1,649)	1:64:A:LEU:HD12	1:65:A:THR:HG23	2	0.11
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG21	2	0.11
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG22	2	0.11
(1,649)	1:64:A:LEU:HD13	1:65:A:THR:HG23	2	0.11
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	9	0.11
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	9	0.11
(1,645)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	9	0.11
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	9	0.11
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	9	0.11
(1,645)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	9	0.11
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	9	0.11
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	9	0.11
(1,645)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	9	0.11
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD11	9	0.11
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD12	9	0.11
(1,644)	1:56:A:LEU:HD21	1:76:A:LEU:HD13	9	0.11
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD11	9	0.11
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD12	9	0.11
(1,644)	1:56:A:LEU:HD22	1:76:A:LEU:HD13	9	0.11
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD11	9	0.11
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD12	9	0.11
(1,644)	1:56:A:LEU:HD23	1:76:A:LEU:HD13	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:56:A:LEU:HD11	1:78:A:ILE:HD11	8	0.11
(1,643)	1:56:A:LEU:HD11	1:78:A:ILE:HD12	8	0.11
(1,643)	1:56:A:LEU:HD11	1:78:A:ILE:HD13	8	0.11
(1,643)	1:56:A:LEU:HD12	1:78:A:ILE:HD11	8	0.11
(1,643)	1:56:A:LEU:HD12	1:78:A:ILE:HD12	8	0.11
(1,643)	1:56:A:LEU:HD12	1:78:A:ILE:HD13	8	0.11
(1,643)	1:56:A:LEU:HD13	1:78:A:ILE:HD11	8	0.11
(1,643)	1:56:A:LEU:HD13	1:78:A:ILE:HD12	8	0.11
(1,643)	1:56:A:LEU:HD13	1:78:A:ILE:HD13	8	0.11
(1,634)	1:45:A:LEU:HD11	1:206:A:ILE:HD11	10	0.11
(1,634)	1:45:A:LEU:HD11	1:206:A:ILE:HD12	10	0.11
(1,634)	1:45:A:LEU:HD11	1:206:A:ILE:HD13	10	0.11
(1,634)	1:45:A:LEU:HD12	1:206:A:ILE:HD11	10	0.11
(1,634)	1:45:A:LEU:HD12	1:206:A:ILE:HD12	10	0.11
(1,634)	1:45:A:LEU:HD12	1:206:A:ILE:HD13	10	0.11
(1,634)	1:45:A:LEU:HD13	1:206:A:ILE:HD11	10	0.11
(1,634)	1:45:A:LEU:HD13	1:206:A:ILE:HD12	10	0.11
(1,634)	1:45:A:LEU:HD13	1:206:A:ILE:HD13	10	0.11
(1,631)	1:45:A:LEU:HD11	1:80:A:LEU:HD21	10	0.11
(1,631)	1:45:A:LEU:HD11	1:80:A:LEU:HD22	10	0.11
(1,631)	1:45:A:LEU:HD11	1:80:A:LEU:HD23	10	0.11
(1,631)	1:45:A:LEU:HD12	1:80:A:LEU:HD21	10	0.11
(1,631)	1:45:A:LEU:HD12	1:80:A:LEU:HD22	10	0.11
(1,631)	1:45:A:LEU:HD12	1:80:A:LEU:HD23	10	0.11
(1,631)	1:45:A:LEU:HD13	1:80:A:LEU:HD21	10	0.11
(1,631)	1:45:A:LEU:HD13	1:80:A:LEU:HD22	10	0.11
(1,631)	1:45:A:LEU:HD13	1:80:A:LEU:HD23	10	0.11
(1,622)	1:32:A:LEU:HD11	1:119:A:MET:HE1	6	0.11
(1,622)	1:32:A:LEU:HD11	1:119:A:MET:HE2	6	0.11
(1,622)	1:32:A:LEU:HD11	1:119:A:MET:HE3	6	0.11
(1,622)	1:32:A:LEU:HD12	1:119:A:MET:HE1	6	0.11
(1,622)	1:32:A:LEU:HD12	1:119:A:MET:HE2	6	0.11
(1,622)	1:32:A:LEU:HD12	1:119:A:MET:HE3	6	0.11
(1,622)	1:32:A:LEU:HD13	1:119:A:MET:HE1	6	0.11
(1,622)	1:32:A:LEU:HD13	1:119:A:MET:HE2	6	0.11
(1,622)	1:32:A:LEU:HD13	1:119:A:MET:HE3	6	0.11
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD11	2	0.11
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD12	2	0.11
(1,619)	1:29:A:LEU:HD21	1:131:A:ILE:HD13	2	0.11
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD11	2	0.11
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD12	2	0.11
(1,619)	1:29:A:LEU:HD22	1:131:A:ILE:HD13	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD11	2	0.11
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD12	2	0.11
(1,619)	1:29:A:LEU:HD23	1:131:A:ILE:HD13	2	0.11
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD11	7	0.11
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD12	7	0.11
(1,615)	1:29:A:LEU:HD11	1:33:A:ILE:HD13	7	0.11
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD11	7	0.11
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD12	7	0.11
(1,615)	1:29:A:LEU:HD12	1:33:A:ILE:HD13	7	0.11
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD11	7	0.11
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD12	7	0.11
(1,615)	1:29:A:LEU:HD13	1:33:A:ILE:HD13	7	0.11
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG21	2	0.11
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG22	2	0.11
(1,614)	1:171:A:THR:HG21	1:19:A:THR:HG23	2	0.11
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG21	2	0.11
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG22	2	0.11
(1,614)	1:171:A:THR:HG22	1:19:A:THR:HG23	2	0.11
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG21	2	0.11
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG22	2	0.11
(1,614)	1:171:A:THR:HG23	1:19:A:THR:HG23	2	0.11
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG21	5	0.11
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG22	5	0.11
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG23	5	0.11
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG21	7	0.11
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG22	7	0.11
(1,540)	1:186:A:VAL:H	1:90:A:THR:HG23	7	0.11
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG11	1	0.11
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG12	1	0.11
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG13	1	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG21	5	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG22	5	0.11
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG23	5	0.11
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG21	4	0.11
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG22	4	0.11
(1,518)	1:162:A:TRP:H	1:150:A:VAL:HG23	4	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG21	5	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG22	5	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG23	5	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG21	8	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG22	8	0.11
(1,516)	1:162:A:TRP:H	1:149:A:THR:HG23	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:151:A:ILE:H	1:186:A:VAL:HG21	3	0.11
(1,511)	1:151:A:ILE:H	1:186:A:VAL:HG22	3	0.11
(1,511)	1:151:A:ILE:H	1:186:A:VAL:HG23	3	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG21	4	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG22	4	0.11
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG23	4	0.11
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD11	1	0.11
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD12	1	0.11
(1,495)	1:127:A:ASP:H	1:122:A:LEU:HD13	1	0.11
(1,468)	1:84:A:LYS:H	1:198:A:LEU:HD11	10	0.11
(1,468)	1:84:A:LYS:H	1:198:A:LEU:HD12	10	0.11
(1,468)	1:84:A:LYS:H	1:198:A:LEU:HD13	10	0.11
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD11	1	0.11
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD12	1	0.11
(1,431)	1:58:A:LYS:H	1:96:A:ILE:HD13	1	0.11
(1,424)	1:44:A:PHE:H	1:143:A:LEU:HD21	8	0.11
(1,424)	1:44:A:PHE:H	1:143:A:LEU:HD22	8	0.11
(1,424)	1:44:A:PHE:H	1:143:A:LEU:HD23	8	0.11
(1,391)	1:172:A:VAL:H	1:172:A:VAL:HG21	3	0.11
(1,391)	1:172:A:VAL:H	1:172:A:VAL:HG22	3	0.11
(1,391)	1:172:A:VAL:H	1:172:A:VAL:HG23	3	0.11
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD11	8	0.11
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD12	8	0.11
(1,382)	1:143:A:LEU:H	1:143:A:LEU:HD13	8	0.11
(1,362)	1:48:A:LEU:H	1:48:A:LEU:HD21	8	0.11
(1,362)	1:48:A:LEU:H	1:48:A:LEU:HD22	8	0.11
(1,362)	1:48:A:LEU:H	1:48:A:LEU:HD23	8	0.11
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	9	0.11
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	9	0.11
(1,351)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	9	0.11
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	9	0.11
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	9	0.11
(1,351)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	9	0.11
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	9	0.11
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	9	0.11
(1,351)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	9	0.11
(1,347)	1:207:A:VAL:HG21	1:218:A:ILE:HD11	10	0.11
(1,347)	1:207:A:VAL:HG21	1:218:A:ILE:HD12	10	0.11
(1,347)	1:207:A:VAL:HG21	1:218:A:ILE:HD13	10	0.11
(1,347)	1:207:A:VAL:HG22	1:218:A:ILE:HD11	10	0.11
(1,347)	1:207:A:VAL:HG22	1:218:A:ILE:HD12	10	0.11
(1,347)	1:207:A:VAL:HG22	1:218:A:ILE:HD13	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,347)	1:207:A:VAL:HG23	1:218:A:ILE:HD11	10	0.11
(1,347)	1:207:A:VAL:HG23	1:218:A:ILE:HD12	10	0.11
(1,347)	1:207:A:VAL:HG23	1:218:A:ILE:HD13	10	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD21	1	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD22	1	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD23	1	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD21	1	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD22	1	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD23	1	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD21	1	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD22	1	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD23	1	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD21	5	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD22	5	0.11
(1,339)	1:49:A:ILE:HD11	1:45:A:LEU:HD23	5	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD21	5	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD22	5	0.11
(1,339)	1:49:A:ILE:HD12	1:45:A:LEU:HD23	5	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD21	5	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD22	5	0.11
(1,339)	1:49:A:ILE:HD13	1:45:A:LEU:HD23	5	0.11
(1,334)	1:203:A:ILE:HD11	1:220:A:LEU:HD21	7	0.11
(1,334)	1:203:A:ILE:HD11	1:220:A:LEU:HD22	7	0.11
(1,334)	1:203:A:ILE:HD11	1:220:A:LEU:HD23	7	0.11
(1,334)	1:203:A:ILE:HD12	1:220:A:LEU:HD21	7	0.11
(1,334)	1:203:A:ILE:HD12	1:220:A:LEU:HD22	7	0.11
(1,334)	1:203:A:ILE:HD12	1:220:A:LEU:HD23	7	0.11
(1,334)	1:203:A:ILE:HD13	1:220:A:LEU:HD21	7	0.11
(1,334)	1:203:A:ILE:HD13	1:220:A:LEU:HD22	7	0.11
(1,334)	1:203:A:ILE:HD13	1:220:A:LEU:HD23	7	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	6	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	6	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	6	0.11
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	6	0.11
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	6	0.11
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	6	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	6	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	6	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	6	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	9	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	9	0.11
(1,330)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	9	0.11
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	9	0.11
(1,330)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	9	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	9	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	9	0.11
(1,330)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	9	0.11
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD11	9	0.11
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD12	9	0.11
(1,327)	1:214:A:ILE:HD11	1:218:A:ILE:HD13	9	0.11
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD11	9	0.11
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD12	9	0.11
(1,327)	1:214:A:ILE:HD12	1:218:A:ILE:HD13	9	0.11
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD11	9	0.11
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD12	9	0.11
(1,327)	1:214:A:ILE:HD13	1:218:A:ILE:HD13	9	0.11
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	8	0.11
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	8	0.11
(1,318)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	8	0.11
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	8	0.11
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	8	0.11
(1,318)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	8	0.11
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	8	0.11
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	8	0.11
(1,318)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	8	0.11
(1,290)	1:141:A:ALA:HB1	1:188:A:LEU:HD21	8	0.11
(1,290)	1:141:A:ALA:HB1	1:188:A:LEU:HD22	8	0.11
(1,290)	1:141:A:ALA:HB1	1:188:A:LEU:HD23	8	0.11
(1,290)	1:141:A:ALA:HB2	1:188:A:LEU:HD21	8	0.11
(1,290)	1:141:A:ALA:HB2	1:188:A:LEU:HD22	8	0.11
(1,290)	1:141:A:ALA:HB2	1:188:A:LEU:HD23	8	0.11
(1,290)	1:141:A:ALA:HB3	1:188:A:LEU:HD21	8	0.11
(1,290)	1:141:A:ALA:HB3	1:188:A:LEU:HD22	8	0.11
(1,290)	1:141:A:ALA:HB3	1:188:A:LEU:HD23	8	0.11
(1,286)	1:29:A:LEU:HD21	1:136:A:VAL:HG11	1	0.11
(1,286)	1:29:A:LEU:HD21	1:136:A:VAL:HG12	1	0.11
(1,286)	1:29:A:LEU:HD21	1:136:A:VAL:HG13	1	0.11
(1,286)	1:29:A:LEU:HD22	1:136:A:VAL:HG11	1	0.11
(1,286)	1:29:A:LEU:HD22	1:136:A:VAL:HG12	1	0.11
(1,286)	1:29:A:LEU:HD22	1:136:A:VAL:HG13	1	0.11
(1,286)	1:29:A:LEU:HD23	1:136:A:VAL:HG11	1	0.11
(1,286)	1:29:A:LEU:HD23	1:136:A:VAL:HG12	1	0.11
(1,286)	1:29:A:LEU:HD23	1:136:A:VAL:HG13	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:148:A:VAL:HG21	1:188:A:LEU:HD11	6	0.11
(1,254)	1:148:A:VAL:HG21	1:188:A:LEU:HD12	6	0.11
(1,254)	1:148:A:VAL:HG21	1:188:A:LEU:HD13	6	0.11
(1,254)	1:148:A:VAL:HG22	1:188:A:LEU:HD11	6	0.11
(1,254)	1:148:A:VAL:HG22	1:188:A:LEU:HD12	6	0.11
(1,254)	1:148:A:VAL:HG22	1:188:A:LEU:HD13	6	0.11
(1,254)	1:148:A:VAL:HG23	1:188:A:LEU:HD11	6	0.11
(1,254)	1:148:A:VAL:HG23	1:188:A:LEU:HD12	6	0.11
(1,254)	1:148:A:VAL:HG23	1:188:A:LEU:HD13	6	0.11
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD21	10	0.11
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD22	10	0.11
(1,249)	1:33:A:ILE:HD11	1:143:A:LEU:HD23	10	0.11
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD21	10	0.11
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD22	10	0.11
(1,249)	1:33:A:ILE:HD12	1:143:A:LEU:HD23	10	0.11
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD21	10	0.11
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD22	10	0.11
(1,249)	1:33:A:ILE:HD13	1:143:A:LEU:HD23	10	0.11
(1,208)	1:221:A:PHE:HE1	1:222:A:VAL:H	5	0.11
(1,208)	1:221:A:PHE:HE2	1:222:A:VAL:H	5	0.11
(1,206)	1:221:A:PHE:HD1	1:220:A:LEU:H	5	0.11
(1,206)	1:221:A:PHE:HD2	1:220:A:LEU:H	5	0.11
(1,202)	1:170:A:PHE:HE1	1:22:A:PHE:H	9	0.11
(1,202)	1:170:A:PHE:HE2	1:22:A:PHE:H	9	0.11
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD11	5	0.11
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD12	5	0.11
(1,170)	1:50:A:SER:H	1:214:A:ILE:HD13	5	0.11
(1,153)	1:104:A:ILE:H	1:172:A:VAL:HG11	4	0.11
(1,153)	1:104:A:ILE:H	1:172:A:VAL:HG12	4	0.11
(1,153)	1:104:A:ILE:H	1:172:A:VAL:HG13	4	0.11
(1,141)	1:143:A:LEU:H	1:141:A:ALA:HB1	3	0.11
(1,141)	1:143:A:LEU:H	1:141:A:ALA:HB2	3	0.11
(1,141)	1:143:A:LEU:H	1:141:A:ALA:HB3	3	0.11
(1,134)	1:29:A:LEU:H	1:119:A:MET:HE1	4	0.11
(1,134)	1:29:A:LEU:H	1:119:A:MET:HE2	4	0.11
(1,134)	1:29:A:LEU:H	1:119:A:MET:HE3	4	0.11
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG21	2	0.11
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG22	2	0.11
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG23	2	0.11
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD21	10	0.11
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD22	10	0.11
(1,120)	1:216:A:TYR:H	1:56:A:LEU:HD23	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:172:A:VAL:HG11	1:20:A:PHE:HD1	8	0.11
(1,84)	1:172:A:VAL:HG12	1:20:A:PHE:HD1	8	0.11
(1,84)	1:172:A:VAL:HG13	1:20:A:PHE:HD1	8	0.11
(1,77)	1:148:A:VAL:HG21	1:142:A:TYR:HE1	8	0.11
(1,77)	1:148:A:VAL:HG21	1:142:A:TYR:HE2	8	0.11
(1,77)	1:148:A:VAL:HG22	1:142:A:TYR:HE1	8	0.11
(1,77)	1:148:A:VAL:HG22	1:142:A:TYR:HE2	8	0.11
(1,77)	1:148:A:VAL:HG23	1:142:A:TYR:HE1	8	0.11
(1,77)	1:148:A:VAL:HG23	1:142:A:TYR:HE2	8	0.11
(1,63)	1:141:A:ALA:HB1	1:138:A:PHE:HD1	2	0.11
(1,63)	1:141:A:ALA:HB1	1:138:A:PHE:HD2	2	0.11
(1,63)	1:141:A:ALA:HB2	1:138:A:PHE:HD1	2	0.11
(1,63)	1:141:A:ALA:HB2	1:138:A:PHE:HD2	2	0.11
(1,63)	1:141:A:ALA:HB3	1:138:A:PHE:HD1	2	0.11
(1,63)	1:141:A:ALA:HB3	1:138:A:PHE:HD2	2	0.11
(1,54)	1:122:A:LEU:HD21	1:118:A:PHE:HD1	5	0.11
(1,54)	1:122:A:LEU:HD21	1:118:A:PHE:HD2	5	0.11
(1,54)	1:122:A:LEU:HD22	1:118:A:PHE:HD1	5	0.11
(1,54)	1:122:A:LEU:HD22	1:118:A:PHE:HD2	5	0.11
(1,54)	1:122:A:LEU:HD23	1:118:A:PHE:HD1	5	0.11
(1,54)	1:122:A:LEU:HD23	1:118:A:PHE:HD2	5	0.11
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE1	2	0.11
(1,42)	1:107:A:LEU:HD11	1:139:A:TYR:HE2	2	0.11
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE1	2	0.11
(1,42)	1:107:A:LEU:HD12	1:139:A:TYR:HE2	2	0.11
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE1	2	0.11
(1,42)	1:107:A:LEU:HD13	1:139:A:TYR:HE2	2	0.11
(1,9)	1:30:A:MET:HE1	1:22:A:PHE:HE1	3	0.11
(1,9)	1:30:A:MET:HE1	1:22:A:PHE:HE2	3	0.11
(1,9)	1:30:A:MET:HE2	1:22:A:PHE:HE1	3	0.11
(1,9)	1:30:A:MET:HE2	1:22:A:PHE:HE2	3	0.11
(1,9)	1:30:A:MET:HE3	1:22:A:PHE:HE1	3	0.11
(1,9)	1:30:A:MET:HE3	1:22:A:PHE:HE2	3	0.11
(1,7)	1:32:A:LEU:HD21	1:118:A:PHE:HD2	2	0.11
(1,7)	1:32:A:LEU:HD22	1:118:A:PHE:HD2	2	0.11
(1,7)	1:32:A:LEU:HD23	1:118:A:PHE:HD2	2	0.11
(1,1626)	1:114:A:GLY:H	1:114:A:GLY:HA2	7	0.1
(1,1626)	1:114:A:GLY:H	1:114:A:GLY:HA3	7	0.1
(1,1620)	1:191:A:LYS:H	1:144:A:VAL:HA	2	0.1
(1,1609)	1:187:A:ILE:H	1:150:A:VAL:HA	4	0.1
(1,1593)	1:183:A:GLY:H	1:154:A:HIS:HA	1	0.1
(1,1550)	1:153:A:LYS:H	1:184:A:THR:HA	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1543)	1:152:A:THR:H	1:159:A:GLN:HA	6	0.1
(1,1524)	1:94:A:THR:H	1:78:A:ILE:HA	3	0.1
(1,1502)	1:79:A:ASN:H	1:218:A:ILE:HA	6	0.1
(1,1479)	1:211:A:SER:H	1:207:A:VAL:HA	4	0.1
(1,1112)	1:168:A:GLY:H	1:168:A:GLY:HA2	4	0.1
(1,1112)	1:168:A:GLY:H	1:168:A:GLY:HA3	4	0.1
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA2	1	0.1
(1,1089)	1:137:A:GLY:H	1:137:A:GLY:HA3	1	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	2	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	2	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	4	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	4	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	6	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	6	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA2	7	0.1
(1,1080)	1:95:A:GLY:H	1:95:A:GLY:HA3	7	0.1
(1,1059)	1:73:A:GLY:H	1:73:A:GLY:HA2	9	0.1
(1,1059)	1:73:A:GLY:H	1:73:A:GLY:HA3	9	0.1
(1,980)	1:99:A:THR:H	1:103:A:LEU:H	3	0.1
(1,917)	1:99:A:THR:H	1:102:A:ASP:H	8	0.1
(1,821)	1:46:A:ARG:H	1:48:A:LEU:H	7	0.1
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	5	0.1
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	5	0.1
(1,668)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	5	0.1
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	5	0.1
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	5	0.1
(1,668)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	5	0.1
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	5	0.1
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	5	0.1
(1,668)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	5	0.1
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	1	0.1
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	1	0.1
(1,657)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	1	0.1
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	1	0.1
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	1	0.1
(1,657)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	1	0.1
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	1	0.1
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	1	0.1
(1,657)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	1	0.1
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG21	9	0.1
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG22	9	0.1
(1,560)	1:192:A:GLU:H	1:195:A:THR:HG23	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG11	1	0.1
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG12	1	0.1
(1,543)	1:186:A:VAL:H	1:150:A:VAL:HG13	1	0.1
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD11	5	0.1
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD12	5	0.1
(1,541)	1:186:A:VAL:H	1:91:A:ILE:HD13	5	0.1
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG11	2	0.1
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG12	2	0.1
(1,535)	1:185:A:LYS:H	1:92:A:VAL:HG13	2	0.1
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG11	6	0.1
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG12	6	0.1
(1,526)	1:172:A:VAL:H	1:17:A:VAL:HG13	6	0.1
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG21	7	0.1
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG22	7	0.1
(1,525)	1:170:A:PHE:H	1:19:A:THR:HG23	7	0.1
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG21	1	0.1
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG22	1	0.1
(1,499)	1:143:A:LEU:H	1:144:A:VAL:HG23	1	0.1
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG11	4	0.1
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG12	4	0.1
(1,498)	1:143:A:LEU:H	1:144:A:VAL:HG13	4	0.1
(1,497)	1:127:A:ASP:H	1:130:A:MET:HE1	5	0.1
(1,497)	1:127:A:ASP:H	1:130:A:MET:HE2	5	0.1
(1,497)	1:127:A:ASP:H	1:130:A:MET:HE3	5	0.1
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB1	2	0.1
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB2	2	0.1
(1,493)	1:125:A:GLY:H	1:124:A:ALA:HB3	2	0.1
(1,449)	1:77:A:HIS:H	1:56:A:LEU:HD21	5	0.1
(1,449)	1:77:A:HIS:H	1:56:A:LEU:HD22	5	0.1
(1,449)	1:77:A:HIS:H	1:56:A:LEU:HD23	5	0.1
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	8	0.1
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	8	0.1
(1,331)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	8	0.1
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	8	0.1
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	8	0.1
(1,331)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	8	0.1
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	8	0.1
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	8	0.1
(1,331)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	8	0.1
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD11	10	0.1
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD12	10	0.1
(1,321)	1:91:A:ILE:HD11	1:188:A:LEU:HD13	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD11	10	0.1
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD12	10	0.1
(1,321)	1:91:A:ILE:HD12	1:188:A:LEU:HD13	10	0.1
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD11	10	0.1
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD12	10	0.1
(1,321)	1:91:A:ILE:HD13	1:188:A:LEU:HD13	10	0.1
(1,307)	1:98:A:MET:HE1	1:152:A:THR:HG21	6	0.1
(1,307)	1:98:A:MET:HE1	1:152:A:THR:HG22	6	0.1
(1,307)	1:98:A:MET:HE1	1:152:A:THR:HG23	6	0.1
(1,307)	1:98:A:MET:HE2	1:152:A:THR:HG21	6	0.1
(1,307)	1:98:A:MET:HE2	1:152:A:THR:HG22	6	0.1
(1,307)	1:98:A:MET:HE2	1:152:A:THR:HG23	6	0.1
(1,307)	1:98:A:MET:HE3	1:152:A:THR:HG21	6	0.1
(1,307)	1:98:A:MET:HE3	1:152:A:THR:HG22	6	0.1
(1,307)	1:98:A:MET:HE3	1:152:A:THR:HG23	6	0.1
(1,302)	1:98:A:MET:HE1	1:103:A:LEU:HD11	1	0.1
(1,302)	1:98:A:MET:HE1	1:103:A:LEU:HD12	1	0.1
(1,302)	1:98:A:MET:HE1	1:103:A:LEU:HD13	1	0.1
(1,302)	1:98:A:MET:HE2	1:103:A:LEU:HD11	1	0.1
(1,302)	1:98:A:MET:HE2	1:103:A:LEU:HD12	1	0.1
(1,302)	1:98:A:MET:HE2	1:103:A:LEU:HD13	1	0.1
(1,302)	1:98:A:MET:HE3	1:103:A:LEU:HD11	1	0.1
(1,302)	1:98:A:MET:HE3	1:103:A:LEU:HD12	1	0.1
(1,302)	1:98:A:MET:HE3	1:103:A:LEU:HD13	1	0.1
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG21	4	0.1
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG22	4	0.1
(1,282)	1:109:A:THR:HG21	1:136:A:VAL:HG23	4	0.1
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG21	4	0.1
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG22	4	0.1
(1,282)	1:109:A:THR:HG22	1:136:A:VAL:HG23	4	0.1
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG21	4	0.1
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG22	4	0.1
(1,282)	1:109:A:THR:HG23	1:136:A:VAL:HG23	4	0.1
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD11	5	0.1
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD12	5	0.1
(1,261)	1:144:A:VAL:HG21	1:188:A:LEU:HD13	5	0.1
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD11	5	0.1
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD12	5	0.1
(1,261)	1:144:A:VAL:HG22	1:188:A:LEU:HD13	5	0.1
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD11	5	0.1
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD12	5	0.1
(1,261)	1:144:A:VAL:HG23	1:188:A:LEU:HD13	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:220:A:LEU:HD21	1:207:A:VAL:HG21	7	0.1
(1,238)	1:220:A:LEU:HD21	1:207:A:VAL:HG22	7	0.1
(1,238)	1:220:A:LEU:HD21	1:207:A:VAL:HG23	7	0.1
(1,238)	1:220:A:LEU:HD22	1:207:A:VAL:HG21	7	0.1
(1,238)	1:220:A:LEU:HD22	1:207:A:VAL:HG22	7	0.1
(1,238)	1:220:A:LEU:HD22	1:207:A:VAL:HG23	7	0.1
(1,238)	1:220:A:LEU:HD23	1:207:A:VAL:HG21	7	0.1
(1,238)	1:220:A:LEU:HD23	1:207:A:VAL:HG22	7	0.1
(1,238)	1:220:A:LEU:HD23	1:207:A:VAL:HG23	7	0.1
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG21	2	0.1
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG22	2	0.1
(1,163)	1:198:A:LEU:H	1:195:A:THR:HG23	2	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG21	7	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG22	7	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG23	7	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG21	9	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG22	9	0.1
(1,156)	1:177:A:GLY:H	1:176:A:THR:HG23	9	0.1
(1,148)	1:173:A:ARG:H	1:161:A:ALA:HB1	5	0.1
(1,148)	1:173:A:ARG:H	1:161:A:ALA:HB2	5	0.1
(1,148)	1:173:A:ARG:H	1:161:A:ALA:HB3	5	0.1
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG21	4	0.1
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG22	4	0.1
(1,127)	1:87:A:ARG:H	1:88:A:THR:HG23	4	0.1
(1,96)	1:188:A:LEU:HD21	1:44:A:PHE:HD2	10	0.1
(1,96)	1:188:A:LEU:HD22	1:44:A:PHE:HD2	10	0.1
(1,96)	1:188:A:LEU:HD23	1:44:A:PHE:HD2	10	0.1
(1,91)	1:172:A:VAL:HG21	1:170:A:PHE:HE1	4	0.1
(1,91)	1:172:A:VAL:HG22	1:170:A:PHE:HE1	4	0.1
(1,91)	1:172:A:VAL:HG23	1:170:A:PHE:HE1	4	0.1
(1,89)	1:172:A:VAL:HG21	1:20:A:PHE:HE1	5	0.1
(1,89)	1:172:A:VAL:HG22	1:20:A:PHE:HE1	5	0.1
(1,89)	1:172:A:VAL:HG23	1:20:A:PHE:HE1	5	0.1
(1,53)	1:121:A:ALA:HB1	1:134:A:PHE:HE1	8	0.1
(1,53)	1:121:A:ALA:HB1	1:134:A:PHE:HE2	8	0.1
(1,53)	1:121:A:ALA:HB2	1:134:A:PHE:HE1	8	0.1
(1,53)	1:121:A:ALA:HB2	1:134:A:PHE:HE2	8	0.1
(1,53)	1:121:A:ALA:HB3	1:134:A:PHE:HE1	8	0.1
(1,53)	1:121:A:ALA:HB3	1:134:A:PHE:HE2	8	0.1
(1,40)	1:104:A:ILE:HD11	1:170:A:PHE:HE1	9	0.1
(1,40)	1:104:A:ILE:HD11	1:170:A:PHE:HE2	9	0.1
(1,40)	1:104:A:ILE:HD12	1:170:A:PHE:HE1	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:104:A:ILE:HD12	1:170:A:PHE:HE2	9	0.1
(1,40)	1:104:A:ILE:HD13	1:170:A:PHE:HE1	9	0.1
(1,40)	1:104:A:ILE:HD13	1:170:A:PHE:HE2	9	0.1
(1,8)	1:32:A:LEU:HD21	1:118:A:PHE:HE2	3	0.1
(1,8)	1:32:A:LEU:HD22	1:118:A:PHE:HE2	3	0.1
(1,8)	1:32:A:LEU:HD23	1:118:A:PHE:HE2	3	0.1

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

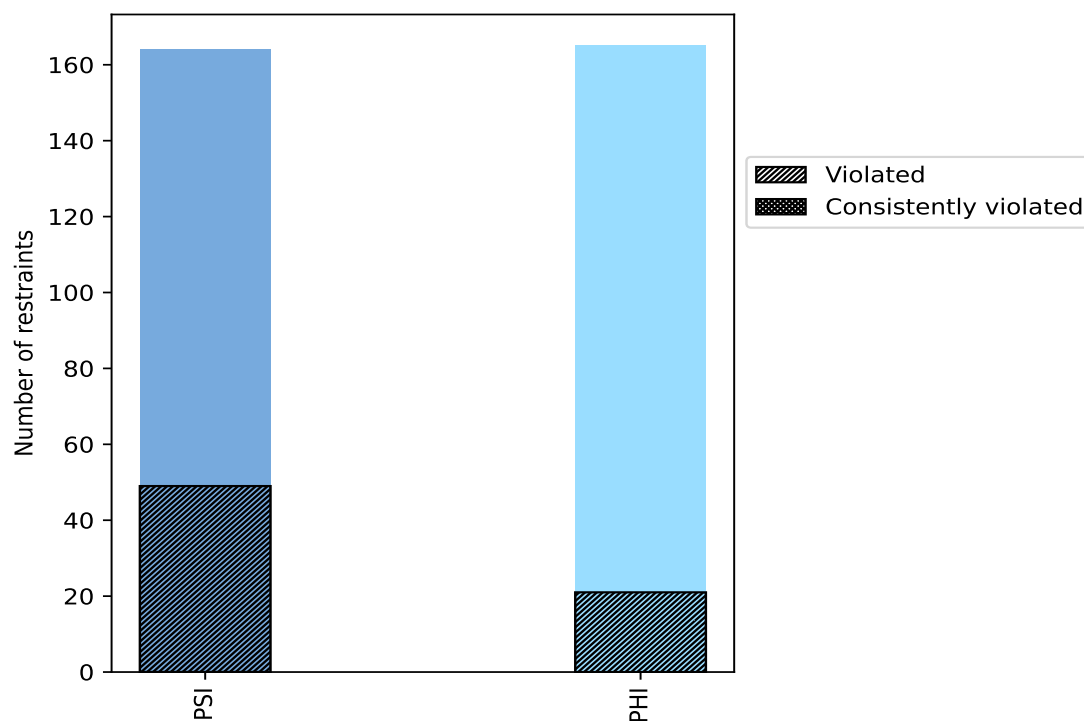
10.1 Summary of dihedral-angle violations [i](#)

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
PSI	164	49.8	49	29.9	14.9	0	0.0	0.0
PHI	165	50.2	21	12.7	6.4	0	0.0	0.0
Total	329	100.0	70	21.3	21.3	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](#)



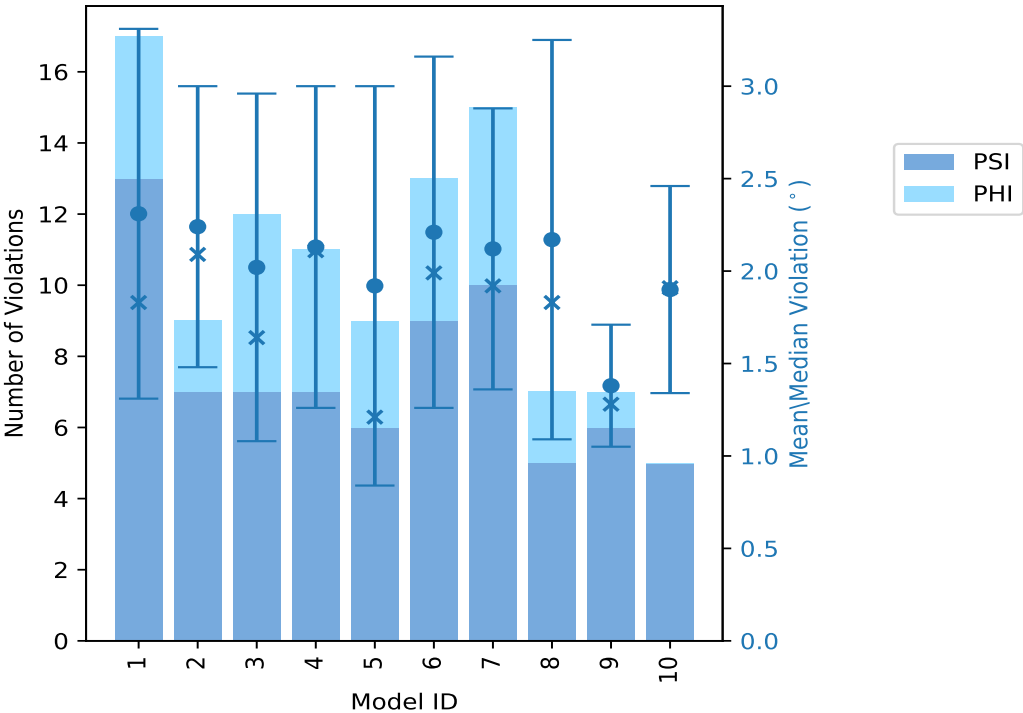
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PSI	PHI	Total				
1	13	4	17	2.31	4.8	1.0	1.83
2	7	2	9	2.24	3.33	0.76	2.09
3	7	5	12	2.02	3.85	0.94	1.64
4	7	4	11	2.13	3.88	0.87	2.11
5	6	3	9	1.92	4.44	1.08	1.21
6	9	4	13	2.21	4.79	0.95	1.99
7	10	5	15	2.12	3.65	0.76	1.92
8	5	2	7	2.17	4.35	1.08	1.83
9	6	1	7	1.38	2.03	0.33	1.28
10	5	0	5	1.9	2.83	0.56	1.91

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

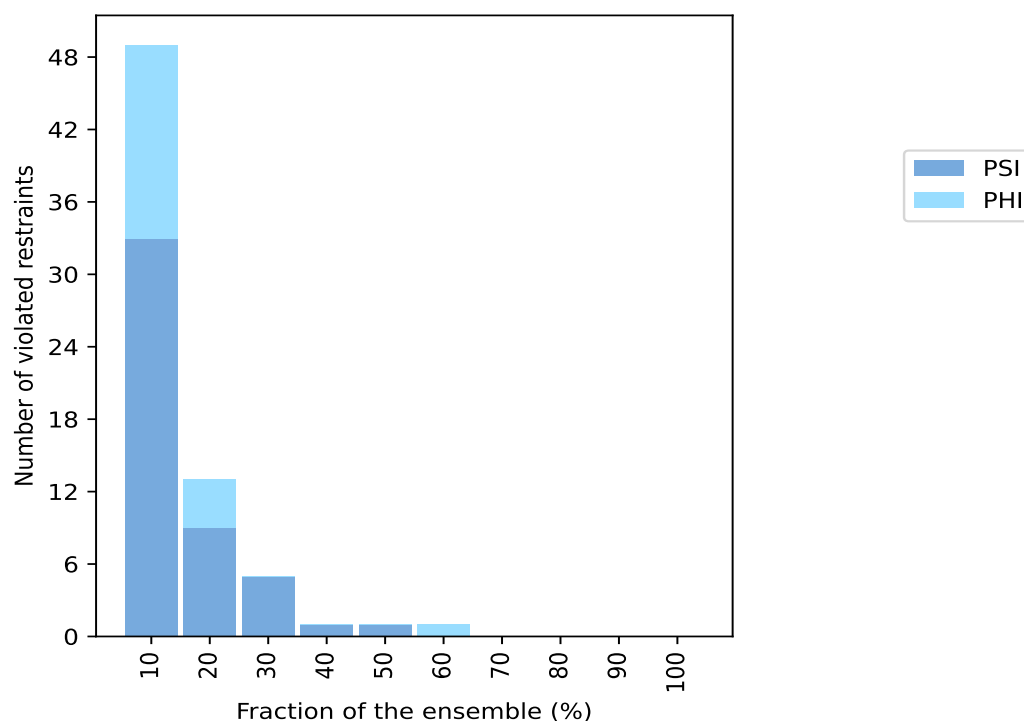
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	
PSI	PHI	Total	Count ¹	%
33	16	49	1	10.0
9	4	13	2	20.0
5	0	5	3	30.0
1	0	1	4	40.0
1	0	1	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

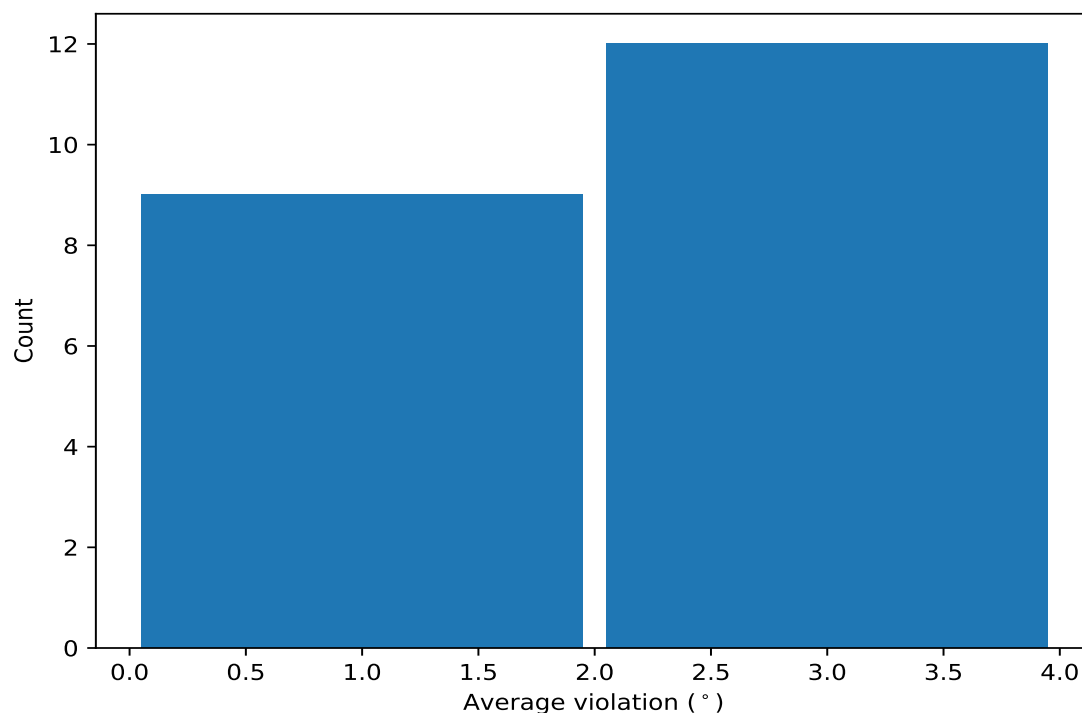
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	6	3.94	0.73	3.84
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	5	2.05	0.3	1.91
(1,180)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:MET:N	4	1.52	0.21	1.59
(1,264)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	3	2.69	0.94	2.68
(1,200)	1:147:A:LYS:N	1:147:A:LYS:CA	1:147:A:LYS:C	1:148:A:VAL:N	3	2.47	0.81	2.48
(1,38)	1:36:A:THR:N	1:36:A:THR:CA	1:36:A:THR:C	1:37:A:PHE:N	3	2.03	0.8	2.07
(1,320)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	3	1.73	0.49	2.06
(1,129)	1:89:A:LEU:N	1:89:A:LEU:CA	1:89:A:LEU:C	1:90:A:THR:N	3	1.62	0.54	1.28
(1,187)	1:137:A:GLY:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	2	2.96	0.92	2.96
(1,186)	1:137:A:GLY:N	1:137:A:GLY:CA	1:137:A:GLY:C	1:138:A:PHE:N	2	2.58	0.48	2.58
(1,278)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	2	2.55	0.48	2.55
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	2	2.49	0.94	2.49
(1,220)	1:158:A:GLU:N	1:158:A:GLU:CA	1:158:A:GLU:C	1:159:A:GLN:N	2	2.48	0.73	2.48

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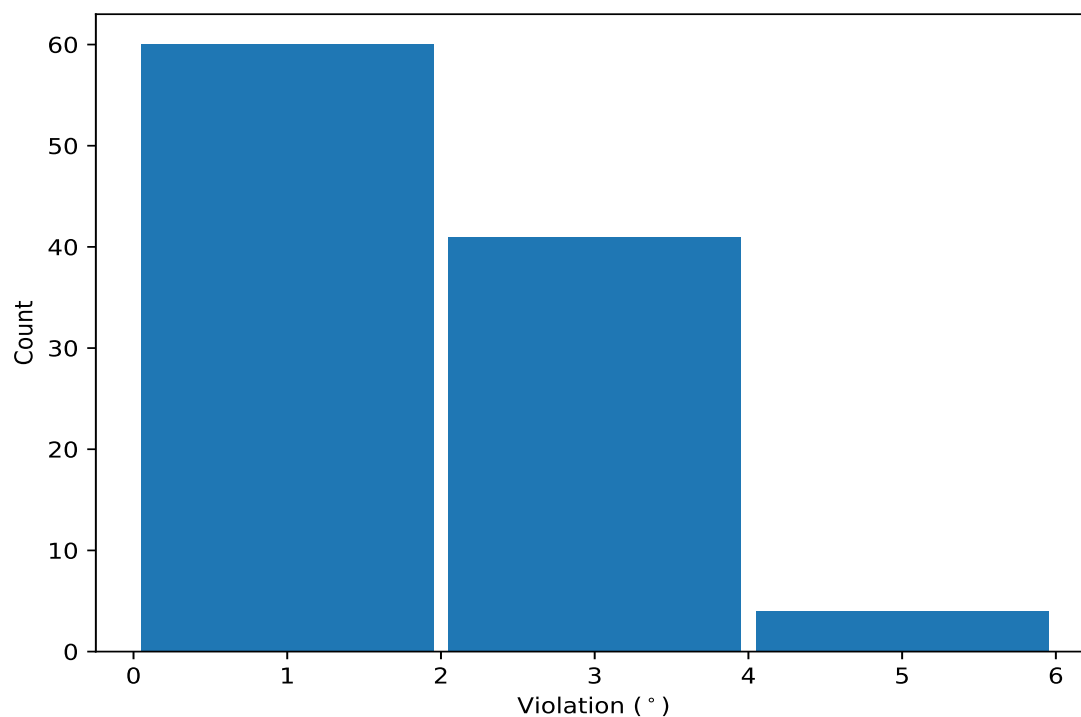
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,245)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	2	2.04	0.58	2.04
(1,259)	1:182:A:ARG:N	1:182:A:ARG:CA	1:182:A:ARG:C	1:183:A:GLY:N	2	2.02	0.98	2.02
(1,192)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:VAL:N	2	1.83	0.22	1.83
(1,140)	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	1:96:A:ILE:N	2	1.82	0.02	1.82
(1,14)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	2	1.58	0.18	1.58
(1,322)	1:218:A:ILE:N	1:218:A:ILE:CA	1:218:A:ILE:C	1:219:A:THR:N	2	1.58	0.38	1.58
(1,236)	1:167:A:GLY:N	1:167:A:GLY:CA	1:167:A:GLY:C	1:168:A:GLY:N	2	1.5	0.06	1.5
(1,145)	1:97:A:GLY:C	1:98:A:MET:N	1:98:A:MET:CA	1:98:A:MET:C	2	1.15	0.02	1.15

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	1	4.8
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	6	4.79
(1,101)	1:74:A:LYS:N	1:74:A:LYS:CA	1:74:A:LYS:C	1:75:A:GLU:N	5	4.44
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	8	4.35
(1,187)	1:137:A:GLY:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	4	3.88
(1,264)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	1	3.85
(1,194)	1:144:A:VAL:N	1:144:A:VAL:CA	1:144:A:VAL:C	1:145:A:ALA:N	3	3.85
(1,276)	1:192:A:GLU:N	1:192:A:GLU:CA	1:192:A:GLU:C	1:193:A:ASP:N	7	3.65
(1,200)	1:147:A:LYS:N	1:147:A:LYS:CA	1:147:A:LYS:C	1:148:A:VAL:N	3	3.46
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1	3.43
(1,39)	1:40:A:ASN:C	1:41:A:LYS:N	1:41:A:LYS:CA	1:41:A:LYS:C	7	3.39
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	2	3.33
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	3	3.32
(1,266)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	1	3.26
(1,220)	1:158:A:GLU:N	1:158:A:GLU:CA	1:158:A:GLU:C	1:159:A:GLN:N	2	3.21
(1,208)	1:151:A:ILE:N	1:151:A:ILE:CA	1:151:A:ILE:C	1:152:A:THR:N	1	3.17
(1,176)	1:127:A:ASP:N	1:127:A:ASP:CA	1:127:A:ASP:C	1:128:A:ILE:N	2	3.11
(1,186)	1:137:A:GLY:N	1:137:A:GLY:CA	1:137:A:GLY:C	1:138:A:PHE:N	8	3.06
(1,139)	1:94:A:THR:C	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	7	3.06
(1,278)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	4	3.03
(1,259)	1:182:A:ARG:N	1:182:A:ARG:CA	1:182:A:ARG:C	1:183:A:GLY:N	4	3.0
(1,38)	1:36:A:THR:N	1:36:A:THR:CA	1:36:A:THR:C	1:37:A:PHE:N	6	2.98
(1,99)	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	1:74:A:LYS:N	6	2.94
(1,244)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	10	2.83
(1,264)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	5	2.68
(1,256)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	6	2.64
(1,245)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	5	2.62
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	7	2.61
(1,156)	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1:104:A:ILE:N	1	2.6
(1,200)	1:147:A:LYS:N	1:147:A:LYS:CA	1:147:A:LYS:C	1:148:A:VAL:N	4	2.48
(1,181)	1:129:A:SER:C	1:130:A:MET:N	1:130:A:MET:CA	1:130:A:MET:C	7	2.47
(1,129)	1:89:A:LEU:N	1:89:A:LEU:CA	1:89:A:LEU:C	1:90:A:THR:N	6	2.38
(1,198)	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1:147:A:LYS:N	3	2.28
(1,182)	1:130:A:MET:N	1:130:A:MET:CA	1:130:A:MET:C	1:131:A:ILE:N	7	2.25
(1,196)	1:145:A:ALA:N	1:145:A:ALA:CA	1:145:A:ALA:C	1:146:A:GLU:N	4	2.19
(1,74)	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	1:59:A:ILE:N	2	2.19
(1,186)	1:137:A:GLY:N	1:137:A:GLY:CA	1:137:A:GLY:C	1:138:A:PHE:N	4	2.11
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	1	2.1
(1,42)	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	1:43:A:ILE:N	6	2.1
(1,320)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	2	2.09
(1,278)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	10	2.07
(1,38)	1:36:A:THR:N	1:36:A:THR:CA	1:36:A:THR:C	1:37:A:PHE:N	2	2.07
(1,320)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	1	2.06
(1,192)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:VAL:N	8	2.05
(1,187)	1:137:A:GLY:C	1:138:A:PHE:N	1:138:A:PHE:CA	1:138:A:PHE:C	9	2.03
(1,275)	1:191:A:LYS:C	1:192:A:GLU:N	1:192:A:GLU:CA	1:192:A:GLU:C	6	1.99
(1,322)	1:218:A:ILE:N	1:218:A:ILE:CA	1:218:A:ILE:C	1:219:A:THR:N	7	1.96
(1,64)	1:53:A:SER:N	1:53:A:SER:CA	1:53:A:SER:C	1:54:A:ASP:N	7	1.92
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	10	1.91
(1,100)	1:73:A:GLY:C	1:74:A:LYS:N	1:74:A:LYS:CA	1:74:A:LYS:C	4	1.89
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	3	1.85
(1,252)	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	1:176:A:THR:N	1	1.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,140)	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	1:96:A:ILE:N	8	1.83
(1,140)	1:95:A:GLY:N	1:95:A:GLY:CA	1:95:A:GLY:C	1:96:A:ILE:N	7	1.8
(1,277)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	7	1.78
(1,185)	1:136:A:VAL:C	1:137:A:GLY:N	1:137:A:GLY:CA	1:137:A:GLY:C	6	1.77
(1,224)	1:160:A:TYR:N	1:160:A:TYR:CA	1:160:A:TYR:C	1:161:A:ALA:N	5	1.76
(1,297)	1:203:A:ILE:N	1:203:A:ILE:CA	1:203:A:ILE:C	1:204:A:LYS:N	7	1.75
(1,220)	1:158:A:GLU:N	1:158:A:GLU:CA	1:158:A:GLU:C	1:159:A:GLN:N	1	1.75
(1,111)	1:79:A:ASN:N	1:79:A:ASN:CA	1:79:A:ASN:C	1:80:A:LEU:N	6	1.75
(1,14)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	1	1.75
(1,180)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:MET:N	6	1.74
(1,7)	1:19:A:THR:C	1:20:A:PHE:N	1:20:A:PHE:CA	1:20:A:PHE:C	3	1.71
(1,180)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:MET:N	8	1.62
(1,192)	1:143:A:LEU:N	1:143:A:LEU:CA	1:143:A:LEU:C	1:144:A:VAL:N	1	1.61
(1,70)	1:56:A:LEU:N	1:56:A:LEU:CA	1:56:A:LEU:C	1:57:A:ASP:N	1	1.61
(1,58)	1:50:A:SER:N	1:50:A:SER:CA	1:50:A:SER:C	1:51:A:ASN:N	9	1.61
(1,66)	1:54:A:ASP:N	1:54:A:ASP:CA	1:54:A:ASP:C	1:55:A:ALA:N	3	1.57
(1,236)	1:167:A:GLY:N	1:167:A:GLY:CA	1:167:A:GLY:C	1:168:A:GLY:N	7	1.56
(1,180)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:MET:N	1	1.56
(1,264)	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	1:186:A:VAL:N	6	1.55
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	2	1.54
(1,146)	1:98:A:MET:N	1:98:A:MET:CA	1:98:A:MET:C	1:99:A:THR:N	2	1.54
(1,245)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	3	1.47
(1,200)	1:147:A:LYS:N	1:147:A:LYS:CA	1:147:A:LYS:C	1:148:A:VAL:N	9	1.47
(1,218)	1:157:A:ASP:N	1:157:A:ASP:CA	1:157:A:ASP:C	1:158:A:GLU:N	1	1.46
(1,236)	1:167:A:GLY:N	1:167:A:GLY:CA	1:167:A:GLY:C	1:168:A:GLY:N	10	1.45
(1,98)	1:72:A:SER:N	1:72:A:SER:CA	1:72:A:SER:C	1:73:A:GLY:N	7	1.45
(1,14)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	4	1.4
(1,235)	1:166:A:ALA:C	1:167:A:GLY:N	1:167:A:GLY:CA	1:167:A:GLY:C	4	1.39
(1,129)	1:89:A:LEU:N	1:89:A:LEU:CA	1:89:A:LEU:C	1:90:A:THR:N	9	1.28
(1,227)	1:161:A:ALA:C	1:162:A:TRP:N	1:162:A:TRP:CA	1:162:A:TRP:C	1	1.23
(1,154)	1:102:A:ASP:N	1:102:A:ASP:CA	1:102:A:ASP:C	1:103:A:LEU:N	10	1.22
(1,319)	1:216:A:TYR:C	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	5	1.21
(1,31)	1:32:A:LEU:C	1:33:A:ILE:N	1:33:A:ILE:CA	1:33:A:ILE:C	1	1.21
(1,322)	1:218:A:ILE:N	1:218:A:ILE:CA	1:218:A:ILE:C	1:219:A:THR:N	3	1.19
(1,205)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	3	1.19
(1,129)	1:89:A:LEU:N	1:89:A:LEU:CA	1:89:A:LEU:C	1:90:A:THR:N	3	1.19
(1,180)	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	1:130:A:MET:N	5	1.18
(1,240)	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	1:170:A:PHE:N	5	1.17
(1,145)	1:97:A:GLY:C	1:98:A:MET:N	1:98:A:MET:CA	1:98:A:MET:C	3	1.17
(1,210)	1:152:A:THR:N	1:152:A:THR:CA	1:152:A:THR:C	1:153:A:LYS:N	9	1.16
(1,263)	1:184:A:THR:C	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	8	1.14
(1,190)	1:142:A:TYR:N	1:142:A:TYR:CA	1:142:A:TYR:C	1:143:A:LEU:N	8	1.13
(1,145)	1:97:A:GLY:C	1:98:A:MET:N	1:98:A:MET:CA	1:98:A:MET:C	5	1.13
(1,317)	1:213:A:PHE:N	1:213:A:PHE:CA	1:213:A:PHE:C	1:214:A:ILE:N	2	1.12
(1,155)	1:102:A:ASP:C	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	7	1.09
(1,119)	1:83:A:ASN:N	1:83:A:ASN:CA	1:83:A:ASN:C	1:84:A:LYS:N	9	1.08
(1,260)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	6	1.06
(1,259)	1:182:A:ARG:N	1:182:A:ARG:CA	1:182:A:ARG:C	1:183:A:GLY:N	5	1.05
(1,12)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	6	1.05
(1,173)	1:124:A:ALA:C	1:125:A:GLY:N	1:125:A:GLY:CA	1:125:A:GLY:C	4	1.04
(1,320)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	4	1.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,38)	1:36:A:THR:N	1:36:A:THR:CA	1:36:A:THR:C	1:37:A:PHE:N	7	1.03
(1,94)	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	1:70:A:LEU:N	9	1.01