



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 11:12 AM UTC

PDB ID : 9X6X / pdb_00009x6x
BMRB ID : 36795
Title : Hsp90a 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 : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

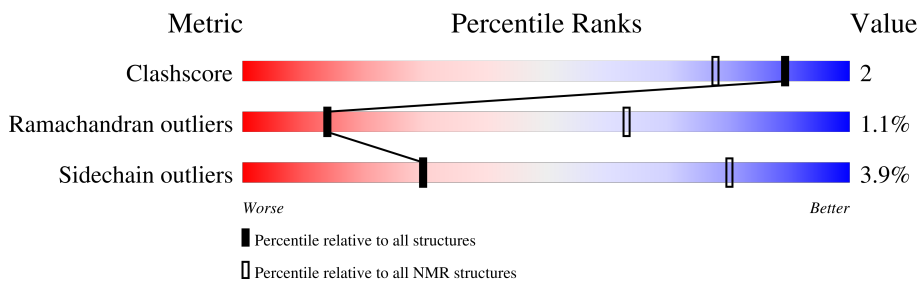
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 16%.

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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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	 86% 13%

2 Ensemble composition and analysis

This entry contains 10 models. Model 9 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:17-A:222 (206)	1.95	9

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3259 atoms, of which 1633 are hydrogens and 0 are deuteriums.

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

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	207	3259	1033	1633	268	320	5	0

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Heat shock protein HSP 90-alpha

Chain A:  86% 13%




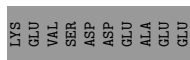
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1


- Molecule 1: Heat shock protein HSP 90-alpha

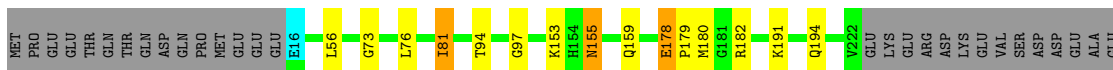
Chain A:  79% 8% 13%



4.2.2 Score per residue for model 2

- Molecule 1: Heat shock protein HSP 90-alpha


Chain A:  81% 5% 13%



GLU

4.2.3 Score per residue for model 3

- Molecule 1: Heat shock protein HSP 90-alpha


Chain A:  78% 9% 13%



ARG
ASP
LYS
GLU
VAL
SER
ASP
ASP
GLU
ALA
GLU
GLU

4.2.4 Score per residue for model 4

- Molecule 1: Heat shock protein HSP 90-alpha


Chain A:  80% 6% 13%



ASP
GLU
ALA
GLU

4.2.5 Score per residue for model 5

- Molecule 1: Heat shock protein HSP 90-alpha


Chain A:  77% 9% 13%



LYS
GLU
ARG
ASP
LYS
GLU
VAL
SER
ASP
ASP
GLU
ALA
GLU

4.2.6 Score per residue for model 6

- Molecule 1: Heat shock protein HSP 90-alpha

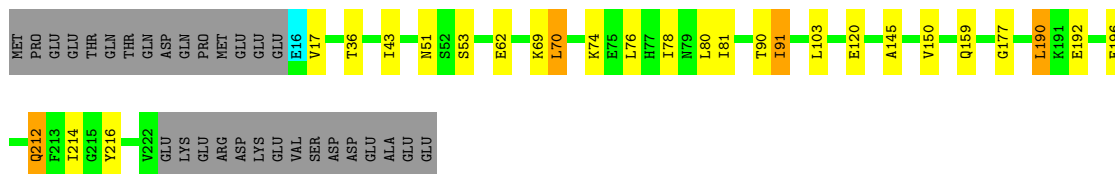
Chain A:  79% 8% 13%



4.2.7 Score per residue for model 7

- Molecule 1: Heat shock protein HSP 90-alpha

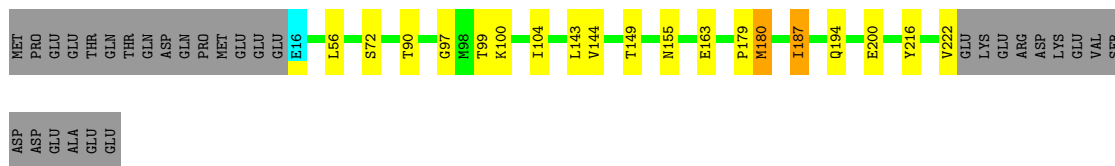
Chain A: 76% 10% 13%



4.2.8 Score per residue for model 8

- Molecule 1: Heat shock protein HSP 90-alpha

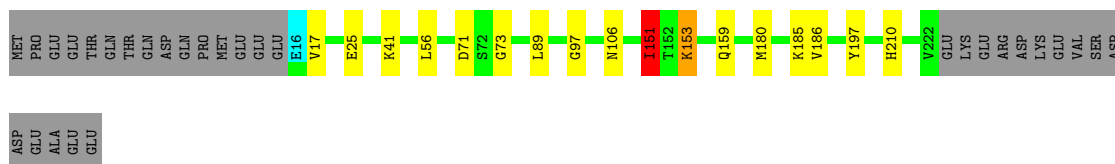
Chain A: 79% 7% 13%



4.2.9 Score per residue for model 9 (medoid)


- Molecule 1: Heat shock protein HSP 90-alpha

Chain A: 80% 6% 13%



4.2.10 Score per residue for model 10

- Molecule 1: Heat shock protein HSP 90-alpha

Chain A:  78% 8% 13%

MET	PRO	GLU	THR	GLN	THR	GLN	ASP	GLN	PRO	MET	GLU	GLU	E16	A27	M30	S31	L32	D66	K69	I78	I81	T90	I96	T99	L107	M119	I131	V144	T149	N155	E163	E178	R182	I187	V222	GLU	LYS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	-----	-----

GLU	ARG	ASP	LYS	GLU	VAL	SER	ASP	ASP	GLU	ALA	GLU	GLU
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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	448
Number of shifts mapped to atoms	448
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	16%

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	1.26±0.02	1±1/1643 (0.1± 0.1%)	0.96±0.02	0±0/2216 (0.0± 0.0%)
All	All	1.26	9/16430 (0.1%)	0.96	1/22160 (0.0%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	81	ILE	CA-CB	6.05	1.59	1.54	2	2
1	A	187	ILE	CA-CB	5.82	1.60	1.53	5	3
1	A	91	ILE	CA-CB	5.63	1.60	1.53	6	1
1	A	218	ILE	CA-CB	5.29	1.59	1.53	5	1
1	A	17	VAL	CA-CB	5.25	1.59	1.53	9	1
1	A	151	ILE	CA-CB	5.12	1.60	1.53	9	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	44	PHE	CA-CB-CG	5.01	118.81	113.80	4	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1617	1627	1623	6±2
All	All	16170	16270	16230	57

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:32:LEU:HD11	1:A:119:MET:SD	0.59	2.38	10	1
1:A:66:ASP:HB2	1:A:69:LYS:HD3	0.59	1.73	10	1
1:A:69:LYS:HA	1:A:155:ASN:HB3	0.58	1.76	10	1
1:A:153:LYS:HD2	1:A:180:MET:SD	0.57	2.39	9	1
1:A:59:ILE:HD11	1:A:182:ARG:HD2	0.56	1.76	4	1
1:A:30:MET:SD	1:A:166:ALA:HA	0.56	2.40	6	1
1:A:63:SER:HB2	1:A:70:LEU:HB2	0.54	1.78	6	1
1:A:62:GLU:HG3	1:A:69:LYS:HD3	0.54	1.79	7	1
1:A:149:THR:HG23	1:A:163:GLU:HG2	0.53	1.79	8	2
1:A:79:ASN:HB2	1:A:92:VAL:HG13	0.51	1.83	1	1
1:A:200:GLU:HG2	1:A:222:VAL:HG11	0.51	1.82	5	1
1:A:56:LEU:HD12	1:A:76:LEU:HB3	0.51	1.81	5	1
1:A:70:LEU:HD21	1:A:76:LEU:HD21	0.51	1.81	7	1
1:A:205:GLU:HG3	1:A:209:LYS:HE2	0.50	1.84	4	1
1:A:214:ILE:HB	1:A:216:TYR:HD1	0.50	1.67	4	1
1:A:80:LEU:HG	1:A:91:ILE:HG13	0.50	1.83	4	1
1:A:131:ILE:HG13	1:A:137:GLY:HA2	0.49	1.84	3	1
1:A:94:THR:HG22	1:A:182:ARG:HH21	0.49	1.68	2	1
1:A:179:PRO:HG2	1:A:180:MET:SD	0.49	2.47	8	1
1:A:214:ILE:HG22	1:A:216:TYR:H	0.47	1.69	7	1
1:A:81:ILE:HG12	1:A:221:PHE:HB2	0.47	1.84	5	2
1:A:212:GLN:HB3	1:A:214:ILE:HG12	0.46	1.87	7	1
1:A:62:GLU:HB3	1:A:69:LYS:HE3	0.46	1.86	1	1
1:A:161:ALA:O	1:A:173:ARG:HG2	0.46	2.11	3	1
1:A:56:LEU:HD11	1:A:76:LEU:HB3	0.46	1.86	2	1
1:A:62:GLU:HG3	1:A:96:ILE:HG21	0.46	1.87	3	1
1:A:72:SER:HB3	1:A:155:ASN:ND2	0.46	2.25	8	1
1:A:44:PHE:CD2	1:A:144:VAL:HG21	0.45	2.46	4	1
1:A:27:ALA:HA	1:A:30:MET:HE3	0.45	1.87	10	1
1:A:145:ALA:HA	1:A:190:LEU:HA	0.45	1.89	7	2
1:A:50:SER:HB3	1:A:132:GLY:HA3	0.44	1.88	3	1
1:A:53:SER:HB3	1:A:78:ILE:HD11	0.44	1.89	7	1
1:A:144:VAL:HG22	1:A:194:GLN:NE2	0.44	2.28	8	1
1:A:59:ILE:HB	1:A:96:ILE:HA	0.44	1.90	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:81:ILE:HG23	1:A:90:THR:HB	0.44	1.88	7	2
1:A:98:MET:HB2	1:A:152:THR:HG21	0.44	1.90	6	1
1:A:191:LYS:HB2	1:A:194:GLN:HB2	0.43	1.90	2	1
1:A:200:GLU:HG2	1:A:222:VAL:HG21	0.43	1.91	8	1
1:A:178:GLU:N	1:A:179:PRO:HD3	0.42	2.29	2	1
1:A:80:LEU:HG	1:A:91:ILE:HG22	0.42	1.92	7	1
1:A:153:LYS:HB2	1:A:159:GLN:HE21	0.41	1.75	2	1
1:A:90:THR:HG23	1:A:187:ILE:HG22	0.41	1.92	8	1
1:A:89:LEU:HD22	1:A:197:TYR:CE2	0.41	2.50	9	1
1:A:81:ILE:HG13	1:A:90:THR:HB	0.41	1.91	10	1
1:A:159:GLN:NE2	1:A:177:GLY:HA3	0.41	2.30	7	1
1:A:103:LEU:HA	1:A:107:LEU:HB3	0.41	1.92	5	1
1:A:151:ILE:HG23	1:A:185:LYS:HG3	0.41	1.93	9	1
1:A:29:LEU:HB2	1:A:115:THR:HG23	0.41	1.92	1	1
1:A:23:GLN:O	1:A:26:ILE:HG22	0.41	2.16	5	1
1:A:100:LYS:O	1:A:104:ILE:HG12	0.41	2.16	8	1
1:A:79:ASN:HB2	1:A:92:VAL:HB	0.41	1.92	5	1
1:A:202:ARG:O	1:A:206:ILE:HG13	0.40	2.17	5	1
1:A:144:VAL:HB	1:A:194:GLN:HG2	0.40	1.93	3	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	205/237 (86%)	187±4 (91±2%)	15±3 (8±1%)	2±1 (1±1%)	14	63
All	All	2050/2370 (86%)	1874 (91%)	154 (8%)	22 (1%)	14	63

All 14 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	73	GLY	4
1	A	97	GLY	4
1	A	38	TYR	2

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Mol	Chain	Res	Type	Models (Total)
1	A	17	VAL	2
1	A	155	ASN	1
1	A	106	ASN	1
1	A	108	GLY	1
1	A	138	PHE	1
1	A	177	GLY	1
1	A	112	LYS	1
1	A	178	GLU	1
1	A	96	ILE	1
1	A	107	LEU	1
1	A	144	VAL	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	177/207 (86%)	170±3 (96±2%)	7±3 (4±2%)	30 80
All	All	1770/2070 (86%)	1701 (96%)	69 (4%)	30 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	131	ILE	3
1	A	178	GLU	3
1	A	180	MET	3
1	A	159	GLN	3
1	A	56	LEU	3
1	A	36	THR	2
1	A	25	GLU	2
1	A	153	LYS	2
1	A	210	HIS	2
1	A	70	LEU	2
1	A	150	VAL	2
1	A	186	VAL	2
1	A	191	LYS	2
1	A	91	ILE	2

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Mol	Chain	Res	Type	Models (Total)
1	A	106	ASN	2
1	A	182	ARG	2
1	A	99	THR	2
1	A	40	ASN	1
1	A	83	ASN	1
1	A	89	LEU	1
1	A	96	ILE	1
1	A	158	GLU	1
1	A	197	TYR	1
1	A	81	ILE	1
1	A	155	ASN	1
1	A	218	ILE	1
1	A	107	LEU	1
1	A	123	GLN	1
1	A	187	ILE	1
1	A	93	ASP	1
1	A	173	ARG	1
1	A	198	LEU	1
1	A	43	ILE	1
1	A	51	ASN	1
1	A	74	LYS	1
1	A	103	LEU	1
1	A	120	GLU	1
1	A	190	LEU	1
1	A	192	GLU	1
1	A	196	GLU	1
1	A	212	GLN	1
1	A	143	LEU	1
1	A	216	TYR	1
1	A	41	LYS	1
1	A	71	ASP	1
1	A	151	ILE	1
1	A	78	ILE	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

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

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: starch_output

7.1.1 Bookkeeping i

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

Total number of shifts	448
Number of shifts mapped to atoms	448
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	10

7.1.2 Chemical shift referencing i

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

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 16%, i.e. 448 atoms were assigned a chemical shift out of a possible 2810. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/1037 (0%)	0/423 (0%)	0/412 (0%)	0/202 (0%)
Sidechain	448/1566 (29%)	336/1020 (33%)	112/494 (23%)	0/52 (0%)
Aromatic	0/207 (0%)	0/100 (0%)	0/98 (0%)	0/9 (0%)
Overall	448/2810 (16%)	336/1543 (22%)	112/1004 (11%)	0/263 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 16%, i.e. 448 atoms were assigned a chemical shift out of a possible 2822. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/1042 (0%)	0/425 (0%)	0/414 (0%)	0/203 (0%)
Sidechain	448/1573 (28%)	336/1024 (33%)	112/497 (23%)	0/52 (0%)
Aromatic	0/207 (0%)	0/100 (0%)	0/98 (0%)	0/9 (0%)
Overall	448/2822 (16%)	336/1549 (22%)	112/1009 (11%)	0/264 (0%)

7.1.4 Statistically unusual chemical shifts [i](#)

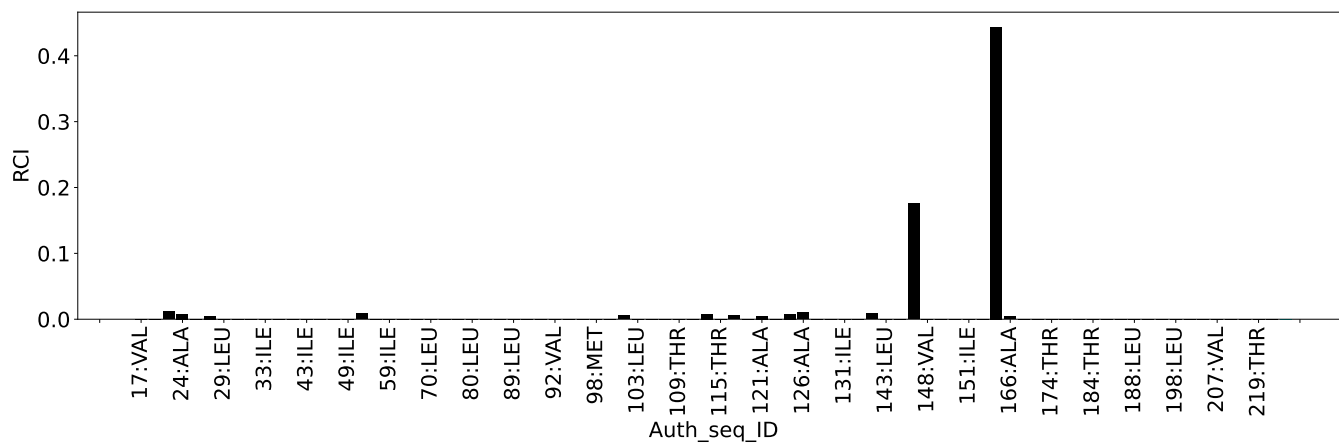
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	144	VAL	CG1	12.72	14.71 – 28.29	-6.5
1	A	107	LEU	HD11	-0.94	-0.61 – 2.12	-6.2
1	A	107	LEU	HD12	-0.94	-0.61 – 2.12	-6.2
1	A	107	LEU	HD13	-0.94	-0.61 – 2.12	-6.2
1	A	144	VAL	HG11	-0.71	-0.48 – 2.12	-5.9
1	A	144	VAL	HG12	-0.71	-0.48 – 2.12	-5.9
1	A	144	VAL	HG13	-0.71	-0.48 – 2.12	-5.9
1	A	107	LEU	HD21	-0.73	-0.65 – 2.13	-5.3
1	A	107	LEU	HD22	-0.73	-0.65 – 2.13	-5.3
1	A	107	LEU	HD23	-0.73	-0.65 – 2.13	-5.3

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1891
Intra-residue ($ i-j =0$)	278
Sequential ($ i-j =1$)	459
Medium range ($ i-j >1$ and $ i-j <5$)	537
Long range ($ i-j \geq 5$)	617
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	323
Number of unmapped restraints	0
Number of restraints per residue	9.3
Number of long range restraints per residue ¹	2.6

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	50.7	0.2
0.2-0.5 (Medium)	8.2	0.3
>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)	22.8	4.75
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis i

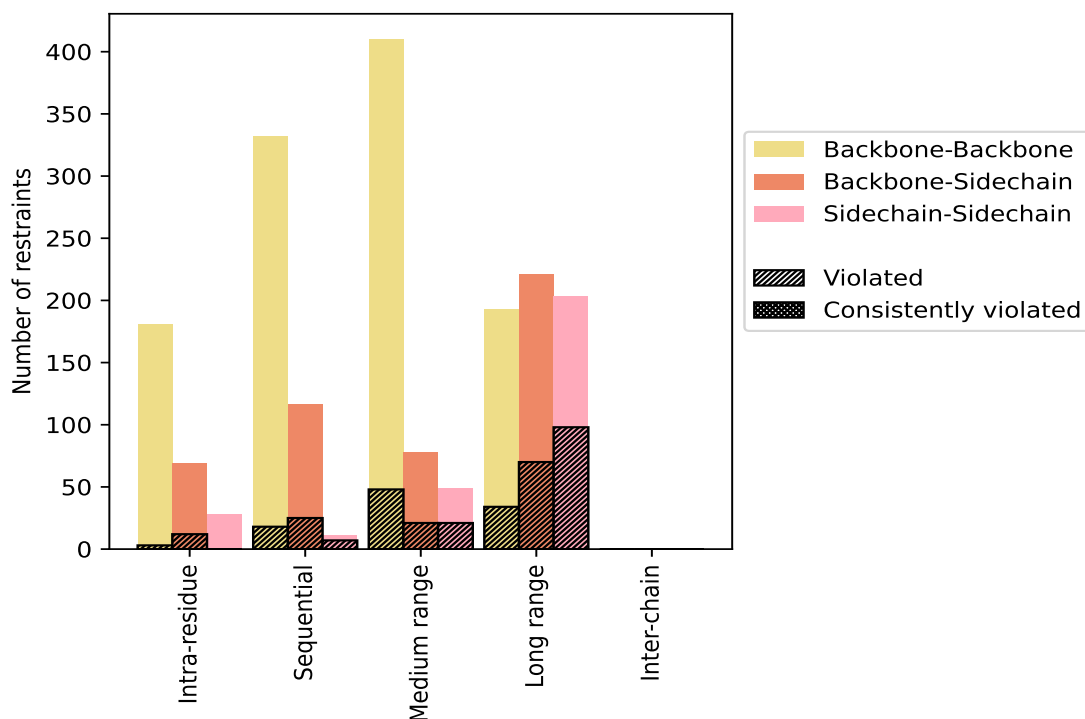
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	278	14.7	15	5.4	0.8	0	0.0	0.0
Backbone-Backbone	181	9.6	3	1.7	0.2	0	0.0	0.0
Backbone-Sidechain	69	3.6	12	17.4	0.6	0	0.0	0.0
Sidechain-Sidechain	28	1.5	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	459	24.3	50	10.9	2.6	0	0.0	0.0
Backbone-Backbone	332	17.6	18	5.4	1.0	0	0.0	0.0
Backbone-Sidechain	116	6.1	25	21.6	1.3	0	0.0	0.0
Sidechain-Sidechain	11	0.6	7	63.6	0.4	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	537	28.4	90	16.8	4.8	0	0.0	0.0
Backbone-Backbone	410	21.7	48	11.7	2.5	0	0.0	0.0
Backbone-Sidechain	78	4.1	21	26.9	1.1	0	0.0	0.0
Sidechain-Sidechain	49	2.6	21	42.9	1.1	0	0.0	0.0
Long range ($i-j \geq 5$)	617	32.6	202	32.7	10.7	0	0.0	0.0
Backbone-Backbone	193	10.2	34	17.6	1.8	0	0.0	0.0
Backbone-Sidechain	221	11.7	70	31.7	3.7	0	0.0	0.0
Sidechain-Sidechain	203	10.7	98	48.3	5.2	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	1891	100.0	357	18.9	18.9	0	0.0	0.0
Backbone-Backbone	1116	59.0	103	9.2	5.4	0	0.0	0.0
Backbone-Sidechain	484	25.6	128	26.4	6.8	0	0.0	0.0
Sidechain-Sidechain	291	15.4	126	43.3	6.7	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 disulfid bonds are counted in their appropriate category on the x-axis

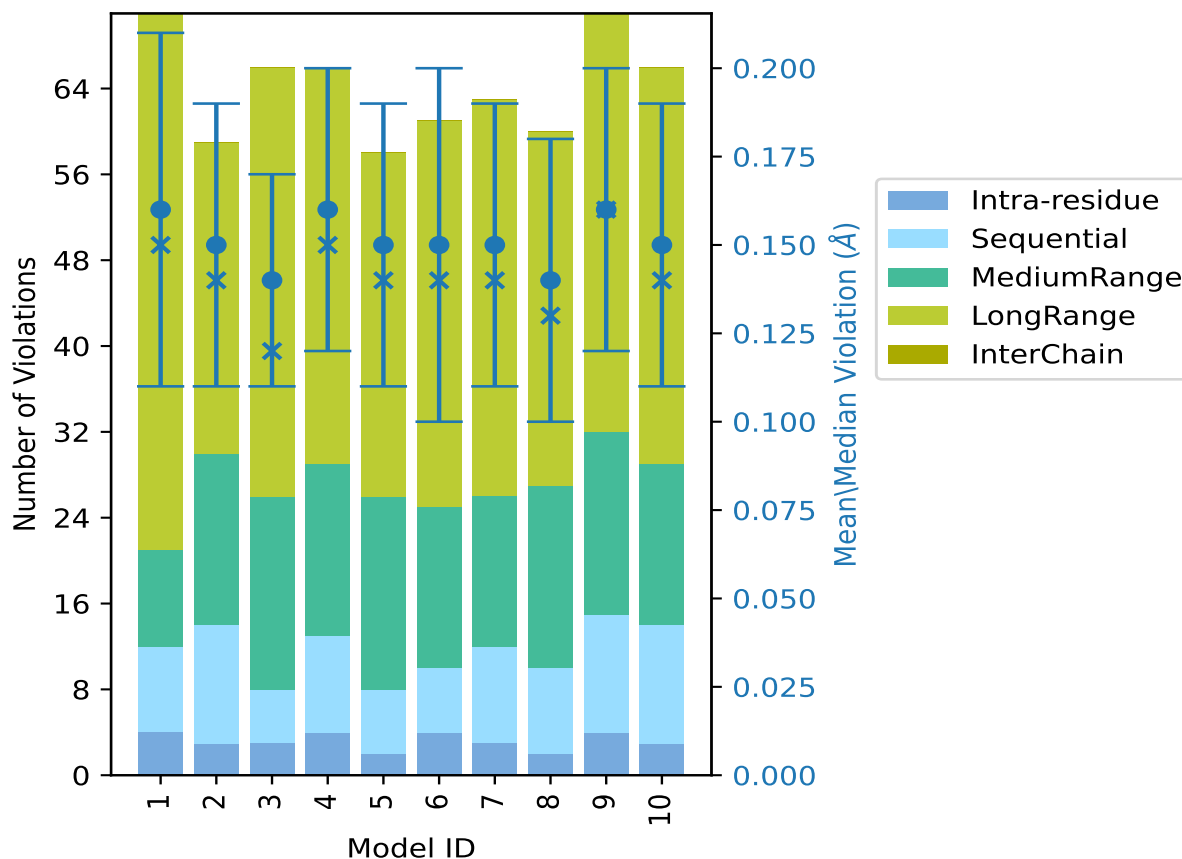
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	4	8	9	50	0	71	0.16	0.29	0.05	0.15
2	3	11	16	29	0	59	0.15	0.28	0.04	0.14
3	3	5	18	40	0	66	0.14	0.29	0.03	0.12
4	4	9	16	37	0	66	0.16	0.28	0.04	0.15
5	2	6	18	32	0	58	0.15	0.27	0.04	0.14
6	4	6	15	36	0	61	0.15	0.3	0.05	0.14
7	3	9	14	37	0	63	0.15	0.27	0.04	0.14
8	2	8	17	33	0	60	0.14	0.27	0.04	0.13
9	4	11	17	39	0	71	0.16	0.29	0.04	0.16
10	3	11	15	37	0	66	0.15	0.26	0.04	0.14

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

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1534(IR:263, SQ:409, MR:447, LR:415, 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	%
7	29	52	108	0	196	1	10.0
6	14	18	55	0	93	2	20.0
0	4	15	19	0	38	3	30.0

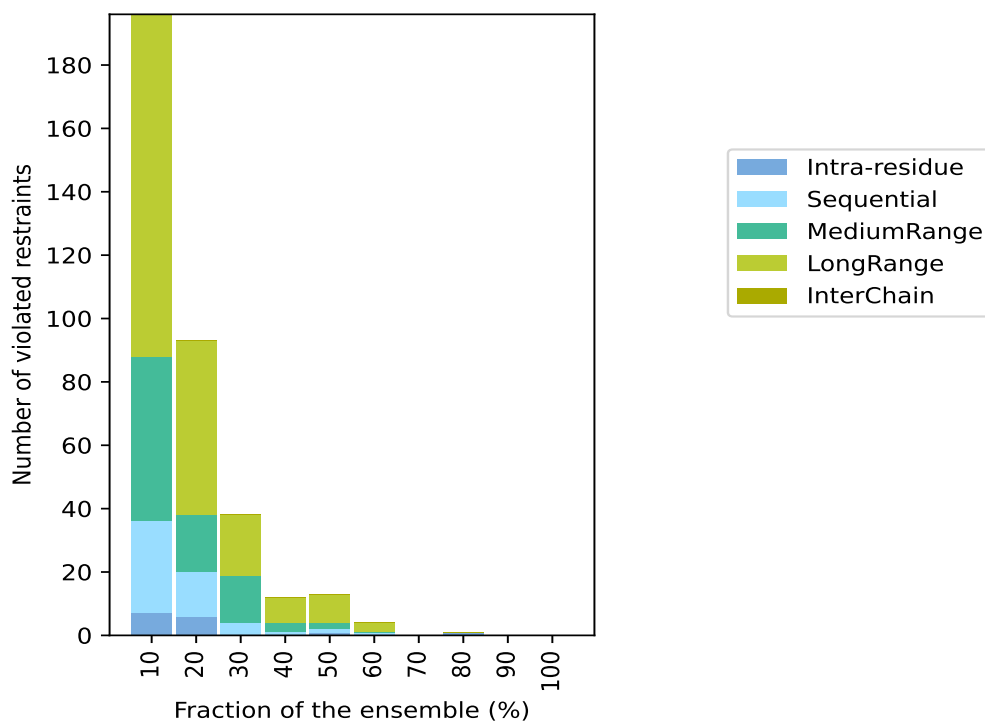
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	1	3	8	0	12	4	40.0
1	1	2	9	0	13	5	50.0
0	1	0	3	0	4	6	60.0
0	0	0	0	0	0	7	70.0
1	0	0	0	0	1	8	80.0
0	0	0	0	0	0	9	90.0
0	0	0	0	0	0	10	100.0

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

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

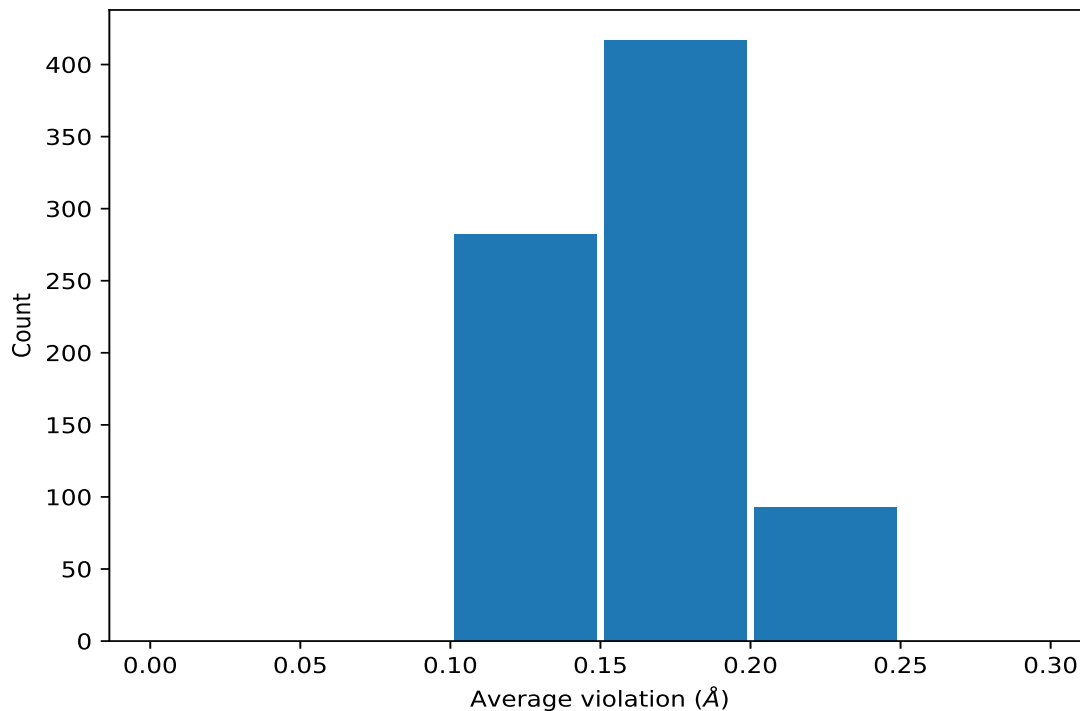


9.4 Most violated distance restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	8	0.22	0.03	0.22
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	8	0.22	0.03	0.22
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	8	0.22	0.03	0.22
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	6	0.17	0.06	0.15
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	6	0.14	0.03	0.14
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	6	0.14	0.03	0.14
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	6	0.14	0.03	0.14
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	6	0.14	0.02	0.15
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	6	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	6	0.14	0.02	0.15
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	6	0.14	0.03	0.14
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	6	0.14	0.03	0.14
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	6	0.14	0.03	0.14
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	5	0.19	0.03	0.19
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	5	0.19	0.03	0.19
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	5	0.19	0.03	0.19
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	5	0.18	0.06	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	5	0.18	0.06	0.17
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	5	0.17	0.04	0.16
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	5	0.17	0.04	0.16
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	5	0.17	0.04	0.16
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	5	0.17	0.04	0.18
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	5	0.17	0.04	0.18
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	5	0.17	0.04	0.18
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	5	0.16	0.02	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	5	0.16	0.02	0.17
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	5	0.16	0.04	0.15
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	5	0.16	0.04	0.15
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	5	0.16	0.04	0.15
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	5	0.16	0.04	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	5	0.16	0.04	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	5	0.16	0.04	0.16
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	5	0.15	0.04	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	5	0.15	0.04	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	5	0.15	0.04	0.13
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	5	0.15	0.03	0.14
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	5	0.15	0.02	0.15
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	5	0.13	0.03	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	5	0.13	0.03	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	5	0.13	0.02	0.12
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	5	0.13	0.02	0.12
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	5	0.13	0.02	0.12
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	5	0.13	0.02	0.13
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	5	0.13	0.02	0.13
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD21	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD22	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD23	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD21	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD22	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD23	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD21	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD22	4	0.19	0.04	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD23	4	0.19	0.04	0.22
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	4	0.17	0.02	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	4	0.17	0.02	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE1	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE2	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE3	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE1	4	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE2	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE3	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE1	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE2	4	0.16	0.02	0.16
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE3	4	0.16	0.02	0.16
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	4	0.16	0.05	0.15
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	4	0.16	0.05	0.15
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD11	4	0.16	0.02	0.16
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD12	4	0.16	0.02	0.16
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD13	4	0.16	0.02	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	4	0.14	0.02	0.15
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	4	0.14	0.02	0.15
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG21	4	0.14	0.02	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG22	4	0.14	0.02	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG23	4	0.14	0.02	0.13
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD21	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD22	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD23	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD21	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD22	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD23	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD21	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD22	4	0.13	0.03	0.12
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD23	4	0.13	0.03	0.12
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB1	4	0.13	0.02	0.14
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB2	4	0.13	0.02	0.14
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB3	4	0.13	0.02	0.14
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB1	4	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB2	4	0.13	0.02	0.12
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB3	4	0.13	0.02	0.12
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD21	4	0.12	0.02	0.12
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD22	4	0.12	0.02	0.12
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD23	4	0.12	0.02	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD11	4	0.12	0.01	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD12	4	0.12	0.01	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD13	4	0.12	0.01	0.12
(1,1658)	1:22:A:PHE:H	1:169:A:SER:HA	3	0.22	0.02	0.21
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD21	3	0.2	0.07	0.17
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD22	3	0.2	0.07	0.17
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD23	3	0.2	0.07	0.17
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG21	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG22	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG23	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG21	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG22	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG23	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG21	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG22	3	0.2	0.06	0.21
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG23	3	0.2	0.06	0.21
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD11	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD12	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD13	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD11	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD12	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD13	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD11	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD12	3	0.19	0.04	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD13	3	0.19	0.04	0.2
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD21	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD22	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD23	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD21	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD22	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD23	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD21	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD22	3	0.19	0.05	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD23	3	0.19	0.05	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG21	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG22	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG23	3	0.19	0.03	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG21	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG22	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG23	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG21	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG22	3	0.19	0.03	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG23	3	0.19	0.03	0.19
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD21	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD22	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD23	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD21	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD22	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD23	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD21	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD22	3	0.18	0.04	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD23	3	0.18	0.04	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD11	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD12	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD13	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD11	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD12	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD13	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD11	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD12	3	0.18	0.03	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD13	3	0.18	0.03	0.18
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG21	3	0.18	0.06	0.15
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG22	3	0.18	0.06	0.15
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG23	3	0.18	0.06	0.15
(1,1749)	1:173:A:ARG:H	1:162:A:TRP:HA	3	0.17	0.05	0.18
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG11	3	0.17	0.06	0.13
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG12	3	0.17	0.06	0.13
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG13	3	0.17	0.06	0.13
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD11	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD12	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD13	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD11	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD12	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD13	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD11	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD12	3	0.16	0.05	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD13	3	0.16	0.05	0.15
(1,303)	1:104:A:ILE:H	1:106:A:ASN:H	3	0.16	0.03	0.15
(1,1495)	1:72:A:SER:H	1:70:A:LEU:HA	3	0.16	0.06	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB1	3	0.16	0.03	0.17
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB2	3	0.16	0.03	0.17
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB3	3	0.16	0.03	0.17
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG21	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG22	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG23	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG21	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG22	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG23	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG21	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG22	3	0.15	0.03	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG23	3	0.15	0.03	0.14
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG21	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG22	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG23	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG21	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG22	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG23	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG21	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG22	3	0.15	0.03	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG23	3	0.15	0.03	0.17
(1,1587)	1:197:A:TYR:H	1:194:A:GLN:HA	3	0.15	0.04	0.14
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	3	0.15	0.02	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	3	0.15	0.02	0.16
(1,1555)	1:49:A:ILE:H	1:46:A:ARG:HA	3	0.15	0.01	0.16
(1,1598)	1:210:A:HIS:H	1:207:A:VAL:HA	3	0.15	0.01	0.16
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG11	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG12	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG13	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG11	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG12	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG13	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG11	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG12	3	0.15	0.02	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG13	3	0.15	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB1	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB2	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB3	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB1	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB2	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB3	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB1	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB2	3	0.15	0.03	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB3	3	0.15	0.03	0.14
(1,1863)	1:133:A:GLN:H	1:130:A:MET:HA	3	0.15	0.04	0.12
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	3	0.15	0.03	0.15
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	3	0.15	0.03	0.15
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	3	0.15	0.03	0.15
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA2	3	0.14	0.02	0.15
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA3	3	0.14	0.02	0.15
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE1	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE2	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE3	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE1	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE2	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE3	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE1	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE2	3	0.14	0.03	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE3	3	0.14	0.03	0.14
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD11	3	0.14	0.02	0.13
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD12	3	0.14	0.02	0.13
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD13	3	0.14	0.02	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG21	3	0.14	0.02	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG22	3	0.14	0.02	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG23	3	0.14	0.02	0.13
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD21	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD22	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD23	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD21	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD22	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD23	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD21	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD22	3	0.13	0.04	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD23	3	0.13	0.04	0.11
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA2	3	0.13	0.01	0.12
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA3	3	0.13	0.01	0.12
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG11	3	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG12	3	0.13	0.02	0.12
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG13	3	0.13	0.02	0.12
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG11	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG12	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG13	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG11	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG12	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG13	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG11	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG12	3	0.12	0.02	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG13	3	0.12	0.02	0.11
(1,379)	1:68:A:SER:H	1:71:A:ASP:H	3	0.12	0.02	0.12
(1,1467)	1:41:A:LYS:H	1:39:A:SER:HA	3	0.12	0.02	0.12
(1,1737)	1:170:A:PHE:H	1:21:A:ALA:HA	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG11	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG12	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG13	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG11	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG12	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG13	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG11	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG12	3	0.12	0.02	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG13	3	0.12	0.02	0.12
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD11	3	0.11	0.01	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD12	3	0.11	0.01	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD13	3	0.11	0.01	0.1
(1,1647)	1:98:A:MET:H	1:154:A:HIS:H	2	0.23	0.04	0.23
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG21	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG22	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG23	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG21	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG22	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG23	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG21	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG22	2	0.23	0.06	0.23
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG23	2	0.23	0.06	0.23
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	2	0.22	0.02	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	2	0.22	0.02	0.22
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	2	0.22	0.02	0.22
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG11	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG12	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG13	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG11	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG12	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG13	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG11	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG12	2	0.22	0.07	0.22
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG13	2	0.22	0.07	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD11	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD12	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD13	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD11	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD12	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD13	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD11	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD12	2	0.22	0.01	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD13	2	0.22	0.01	0.22
(1,1732)	1:164:A:SER:H	1:149:A:THR:HA	2	0.22	0.07	0.22
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD11	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD12	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD13	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD11	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD12	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD13	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD11	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD12	2	0.21	0.07	0.21
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD13	2	0.21	0.07	0.21
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD21	2	0.21	0.03	0.21
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD22	2	0.21	0.03	0.21
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD23	2	0.21	0.03	0.21
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG21	2	0.21	0.08	0.21
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG22	2	0.21	0.08	0.21
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG23	2	0.21	0.08	0.21
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	2	0.2	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	2	0.2	0.04	0.2
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	2	0.2	0.04	0.2
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD21	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD22	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD23	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD21	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD22	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD23	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD21	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD22	2	0.2	0.01	0.2
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD23	2	0.2	0.01	0.2
(1,98)	1:36:A:THR:HG21	1:35:A:ASN:H	2	0.2	0.05	0.2
(1,98)	1:36:A:THR:HG22	1:35:A:ASN:H	2	0.2	0.05	0.2
(1,98)	1:36:A:THR:HG23	1:35:A:ASN:H	2	0.2	0.05	0.2
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD11	2	0.2	0.04	0.2
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD12	2	0.2	0.04	0.2
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD13	2	0.2	0.04	0.2
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	2	0.18	0.02	0.18
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB1	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB2	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB3	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB1	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB2	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB3	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB1	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB2	2	0.18	0.02	0.18
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB3	2	0.18	0.02	0.18
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD11	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD12	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD13	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD11	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD12	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)
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD13	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD11	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD12	2	0.18	0.06	0.18
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD13	2	0.18	0.06	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD11	2	0.18	0.01	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD12	2	0.18	0.01	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD13	2	0.18	0.01	0.18
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD11	2	0.18	0.02	0.18
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD12	2	0.18	0.02	0.18
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD13	2	0.18	0.02	0.18
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD11	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD12	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD13	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD11	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD12	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD13	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD11	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD12	2	0.18	0.05	0.18
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD13	2	0.18	0.05	0.18
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG11	2	0.18	0.01	0.18
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG12	2	0.18	0.01	0.18
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG13	2	0.18	0.01	0.18
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD21	2	0.18	0.01	0.18
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD22	2	0.18	0.01	0.18
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD23	2	0.18	0.01	0.18
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG21	2	0.18	0.02	0.18
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG22	2	0.18	0.02	0.18
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG23	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE1	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE2	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE3	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE1	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE2	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE3	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE1	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE2	2	0.18	0.02	0.18
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE3	2	0.18	0.02	0.18
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD21	2	0.18	0.06	0.18
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD22	2	0.18	0.06	0.18
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD23	2	0.18	0.06	0.18
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD21	2	0.18	0.08	0.18
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD22	2	0.18	0.08	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD23	2	0.18	0.08	0.18
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD11	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD12	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD13	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD11	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD12	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD13	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD11	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD12	2	0.17	0.02	0.17
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD13	2	0.17	0.02	0.17
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG21	2	0.17	0.05	0.17
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG22	2	0.17	0.05	0.17
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG23	2	0.17	0.05	0.17
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB1	2	0.16	0.06	0.16
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB2	2	0.16	0.06	0.16
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB3	2	0.16	0.06	0.16
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	2	0.16	0.02	0.16
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	2	0.16	0.02	0.16
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD11	2	0.16	0.04	0.16
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD12	2	0.16	0.04	0.16
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD13	2	0.16	0.04	0.16
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD11	2	0.16	0.04	0.16
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD12	2	0.16	0.04	0.16
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD13	2	0.16	0.04	0.16
(1,1659)	1:77:A:HIS:H	1:93:A:ASP:HA	2	0.16	0.02	0.16
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG11	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG12	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG13	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG11	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG12	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG13	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG11	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG12	2	0.16	0.04	0.16
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG13	2	0.16	0.04	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG11	2	0.16	0.0	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG12	2	0.16	0.0	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG13	2	0.16	0.0	0.16
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD11	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD12	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD13	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD11	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD12	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD13	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD11	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD12	2	0.16	0.02	0.16
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD13	2	0.16	0.02	0.16
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG21	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG22	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG23	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG21	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG22	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG23	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG21	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG22	2	0.16	0.05	0.16
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG23	2	0.16	0.05	0.16
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD11	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD12	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD13	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD11	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD12	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD13	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD11	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD12	2	0.16	0.04	0.16
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD13	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD11	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD12	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD13	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD11	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD12	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD13	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD11	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD12	2	0.16	0.04	0.16
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD13	2	0.16	0.04	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	2	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	2	0.16	0.01	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	2	0.16	0.01	0.16
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD11	2	0.16	0.05	0.16
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD12	2	0.16	0.05	0.16
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD13	2	0.16	0.05	0.16
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG21	2	0.16	0.04	0.16
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG22	2	0.16	0.04	0.16
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG23	2	0.16	0.04	0.16
(1,1580)	1:105:A:ASN:H	1:102:A:ASP:HA	2	0.16	0.05	0.16
(1,1649)	1:18:A:GLU:H	1:171:A:THR:HA	2	0.16	0.01	0.16
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD21	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD22	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD23	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD21	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD22	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD23	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD21	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD22	2	0.15	0.05	0.15
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD23	2	0.15	0.05	0.15
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG21	2	0.15	0.02	0.15
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG22	2	0.15	0.02	0.15
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG23	2	0.15	0.02	0.15
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD11	2	0.15	0.01	0.15
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD12	2	0.15	0.01	0.15
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD13	2	0.15	0.01	0.15
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG21	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG22	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG23	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG21	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG22	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG23	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG21	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG22	2	0.15	0.04	0.15
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG23	2	0.15	0.04	0.15
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD11	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD12	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD13	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD11	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD12	2	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD13	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD11	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD12	2	0.15	0.03	0.15
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD13	2	0.15	0.03	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG21	2	0.15	0.0	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG22	2	0.15	0.0	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG23	2	0.15	0.0	0.15
(1,1504)	1:101:A:ALA:H	1:99:A:THR:HA	2	0.15	0.0	0.15
(1,392)	1:131:A:ILE:H	1:134:A:PHE:H	2	0.15	0.0	0.15
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD11	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD12	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD13	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD11	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD12	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD13	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD11	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD12	2	0.15	0.02	0.15
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD13	2	0.15	0.02	0.15
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD21	2	0.15	0.02	0.15
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD22	2	0.15	0.02	0.15
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD23	2	0.15	0.02	0.15
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE1	2	0.15	0.04	0.15
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE2	2	0.15	0.04	0.15
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE3	2	0.15	0.04	0.15
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA2	2	0.14	0.03	0.14
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA3	2	0.14	0.03	0.14
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	2	0.14	0.01	0.14
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	2	0.14	0.01	0.14
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG11	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG12	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG13	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG11	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG12	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG13	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG11	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)
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG12	2	0.14	0.02	0.14
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG13	2	0.14	0.02	0.14
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG21	2	0.14	0.02	0.14
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG22	2	0.14	0.02	0.14
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG23	2	0.14	0.02	0.14
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD11	2	0.14	0.02	0.14
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD12	2	0.14	0.02	0.14
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD13	2	0.14	0.02	0.14
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD11	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD12	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD13	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD11	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD12	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD13	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD11	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD12	2	0.14	0.01	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD13	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG11	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG12	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG13	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG11	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG12	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG13	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG11	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG12	2	0.14	0.01	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG13	2	0.14	0.01	0.14
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG11	2	0.14	0.02	0.14
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG12	2	0.14	0.02	0.14
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG13	2	0.14	0.02	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD11	2	0.14	0.01	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD12	2	0.14	0.01	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD13	2	0.14	0.01	0.14
(1,1790)	1:182:A:ARG:H	1:94:A:THR:HA	2	0.14	0.01	0.14
(1,170)	1:105:A:ASN:H	1:106:A:ASN:H	2	0.13	0.01	0.13
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG21	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG22	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG23	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG21	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG22	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG23	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG21	2	0.13	0.02	0.13
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG22	2	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG23	2	0.13	0.02	0.13
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD21	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD22	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD23	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD21	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD22	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD23	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD21	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD22	2	0.13	0.01	0.13
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD23	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD11	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD12	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD13	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD11	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD12	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD13	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD11	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD12	2	0.13	0.01	0.13
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD13	2	0.13	0.01	0.13
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG11	2	0.13	0.01	0.13
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG12	2	0.13	0.01	0.13
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG13	2	0.13	0.01	0.13
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG21	2	0.13	0.03	0.13
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG22	2	0.13	0.03	0.13
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG23	2	0.13	0.03	0.13
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG21	2	0.13	0.01	0.13
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG22	2	0.13	0.01	0.13
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG23	2	0.13	0.01	0.13
(1,1538)	1:213:A:PHE:H	1:211:A:SER:HA	2	0.13	0.0	0.13
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD21	2	0.12	0.01	0.12
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD22	2	0.12	0.01	0.12
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD23	2	0.12	0.01	0.12
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD11	2	0.12	0.02	0.12
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD12	2	0.12	0.02	0.12
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD13	2	0.12	0.02	0.12
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE1	2	0.12	0.02	0.12
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE2	2	0.12	0.02	0.12
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE3	2	0.12	0.02	0.12
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB1	2	0.12	0.02	0.12
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB2	2	0.12	0.02	0.12
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB3	2	0.12	0.02	0.12
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE1	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)
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE2	2	0.12	0.02	0.12
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE3	2	0.12	0.02	0.12
(1,458)	1:149:A:THR:H	1:187:A:ILE:H	2	0.12	0.01	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG21	2	0.12	0.0	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG22	2	0.12	0.0	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG23	2	0.12	0.0	0.12
(1,141)	1:69:A:LYS:H	1:70:A:LEU:H	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB1	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB2	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB3	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB1	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB2	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB3	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB1	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB2	2	0.12	0.02	0.12
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB3	2	0.12	0.02	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD11	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD12	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD13	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD11	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD12	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD13	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD11	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD12	2	0.12	0.0	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD13	2	0.12	0.0	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG21	2	0.12	0.0	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG22	2	0.12	0.0	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG23	2	0.12	0.0	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD11	2	0.12	0.0	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD12	2	0.12	0.0	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD13	2	0.12	0.0	0.12
(1,1470)	1:45:A:LEU:H	1:43:A:ILE:HA	2	0.12	0.0	0.12
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG21	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG22	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG23	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG21	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG22	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG23	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG21	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG22	2	0.11	0.01	0.11
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG23	2	0.11	0.01	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD11	2	0.11	0.0	0.11

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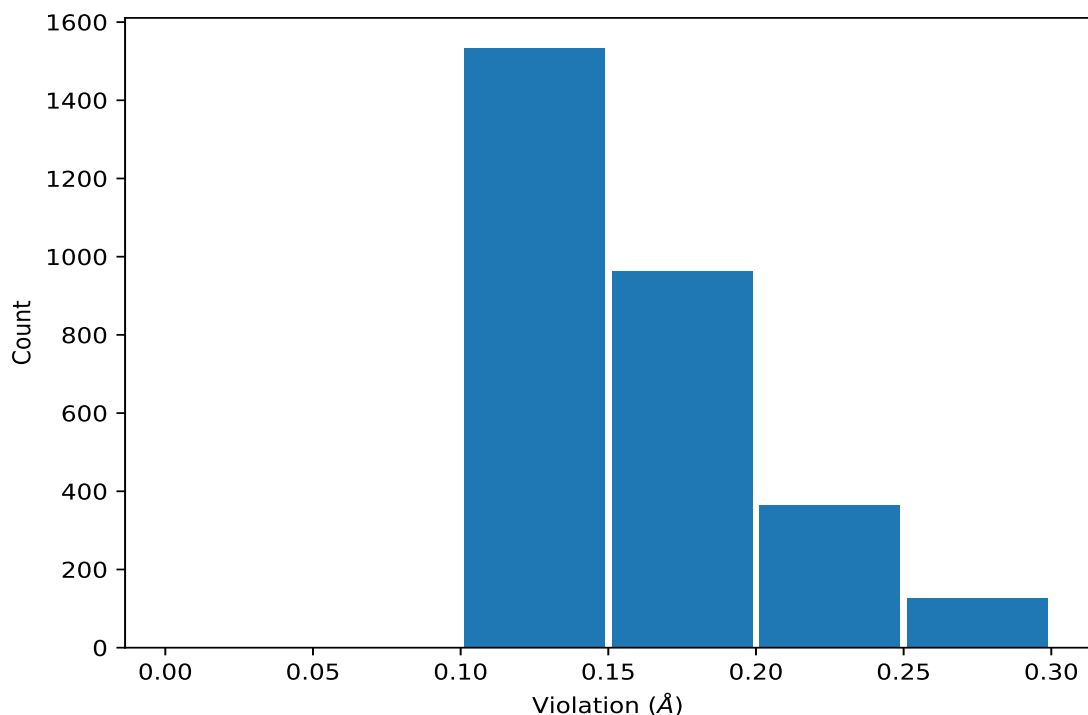
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD12	2	0.11	0.0	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD13	2	0.11	0.0	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG21	2	0.11	0.0	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG22	2	0.11	0.0	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG23	2	0.11	0.0	0.11
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA2	2	0.11	0.01	0.11
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA3	2	0.11	0.01	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA2	2	0.11	0.0	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA3	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG11	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG12	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG13	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG11	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG12	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG13	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG11	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG12	2	0.11	0.0	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG13	2	0.11	0.0	0.11
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA2	2	0.11	0.0	0.11
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA3	2	0.11	0.0	0.11
(1,1608)	1:36:A:THR:H	1:32:A:LEU:HA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD21	6	0.3
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD22	6	0.3
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD23	6	0.3
(1,1732)	1:164:A:SER:H	1:149:A:THR:HA	9	0.29
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG21	3	0.29
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG22	3	0.29
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG23	3	0.29
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	6	0.29
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	6	0.29
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	6	0.29
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	6	0.29
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	6	0.29
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	6	0.29
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	6	0.29
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	6	0.29
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG11	1	0.29
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG12	1	0.29
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG13	1	0.29
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG11	1	0.29
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG12	1	0.29
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG13	1	0.29
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG11	1	0.29
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG12	1	0.29
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG13	1	0.29
(1,1759)	1:184:A:THR:H	1:152:A:THR:HA	1	0.28
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	1	0.28
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD11	4	0.28
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD12	4	0.28
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD13	4	0.28
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD11	4	0.28
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD12	4	0.28
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD13	4	0.28
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD11	4	0.28
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD12	4	0.28
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD13	4	0.28
(1,187)	1:137:A:GLY:H	1:138:A:PHE:H	2	0.28
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG21	6	0.28
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG22	6	0.28
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG23	6	0.28
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG21	6	0.28
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG22	6	0.28
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG23	6	0.28
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG21	6	0.28
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG22	6	0.28
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG23	6	0.28
(1,1647)	1:98:A:MET:H	1:154:A:HIS:H	7	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	5	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	5	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	5	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	8	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	8	0.27
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	8	0.27
(1,1385)	1:138:A:PHE:H	1:137:A:GLY:HA2	2	0.26
(1,1385)	1:138:A:PHE:H	1:137:A:GLY:HA3	2	0.26
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG21	10	0.26
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG22	10	0.26
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG23	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG21	7	0.26
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG22	7	0.26
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG23	7	0.26
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG21	7	0.26
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG22	7	0.26
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG23	7	0.26
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG21	7	0.26
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG22	7	0.26
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG23	7	0.26
(1,1658)	1:22:A:PHE:H	1:169:A:SER:HA	1	0.25
(1,1495)	1:72:A:SER:H	1:70:A:LEU:HA	4	0.25
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD21	7	0.25
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD22	7	0.25
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD23	7	0.25
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG11	10	0.25
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG12	10	0.25
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG13	10	0.25
(1,762)	1:43:A:ILE:H	1:143:A:LEU:HD11	7	0.25
(1,762)	1:43:A:ILE:H	1:143:A:LEU:HD12	7	0.25
(1,762)	1:43:A:ILE:H	1:143:A:LEU:HD13	7	0.25
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD11	10	0.25
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD12	10	0.25
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD13	10	0.25
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD11	10	0.25
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD12	10	0.25
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD13	10	0.25
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD11	10	0.25
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD12	10	0.25
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD13	10	0.25
(1,533)	1:45:A:LEU:HD11	1:80:A:LEU:HD21	4	0.25
(1,533)	1:45:A:LEU:HD11	1:80:A:LEU:HD22	4	0.25
(1,533)	1:45:A:LEU:HD11	1:80:A:LEU:HD23	4	0.25
(1,533)	1:45:A:LEU:HD12	1:80:A:LEU:HD21	4	0.25
(1,533)	1:45:A:LEU:HD12	1:80:A:LEU:HD22	4	0.25
(1,533)	1:45:A:LEU:HD12	1:80:A:LEU:HD23	4	0.25
(1,533)	1:45:A:LEU:HD13	1:80:A:LEU:HD21	4	0.25
(1,533)	1:45:A:LEU:HD13	1:80:A:LEU:HD22	4	0.25
(1,533)	1:45:A:LEU:HD13	1:80:A:LEU:HD23	4	0.25
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	1	0.25
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	1	0.25
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	1	0.25
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	1	0.25
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	1	0.25
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	1	0.25
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	1	0.25
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	1	0.25
(1,98)	1:36:A:THR:HG21	1:35:A:ASN:H	10	0.25
(1,98)	1:36:A:THR:HG22	1:35:A:ASN:H	10	0.25
(1,98)	1:36:A:THR:HG23	1:35:A:ASN:H	10	0.25
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD21	9	0.25
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD22	9	0.25
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD23	9	0.25
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD21	9	0.25
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD22	9	0.25
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD23	9	0.25
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD21	9	0.25
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD22	9	0.25
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD23	9	0.25
(1,56)	1:103:A:LEU:HD21	1:184:A:THR:HG21	9	0.25
(1,56)	1:103:A:LEU:HD21	1:184:A:THR:HG22	9	0.25
(1,56)	1:103:A:LEU:HD21	1:184:A:THR:HG23	9	0.25
(1,56)	1:103:A:LEU:HD22	1:184:A:THR:HG21	9	0.25
(1,56)	1:103:A:LEU:HD22	1:184:A:THR:HG22	9	0.25
(1,56)	1:103:A:LEU:HD22	1:184:A:THR:HG23	9	0.25
(1,56)	1:103:A:LEU:HD23	1:184:A:THR:HG21	9	0.25
(1,56)	1:103:A:LEU:HD23	1:184:A:THR:HG22	9	0.25
(1,56)	1:103:A:LEU:HD23	1:184:A:THR:HG23	9	0.25
(1,1551)	1:45:A:LEU:H	1:42:A:GLU:HA	7	0.24
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD11	1	0.24
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD12	1	0.24
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD13	1	0.24
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD21	6	0.24
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD22	6	0.24
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD23	6	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	9	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	9	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	9	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	10	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	10	0.24
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	10	0.24
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	10	0.24
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	10	0.24
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	2	0.24
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	2	0.24
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	2	0.24
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	2	0.24
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	2	0.24
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	2	0.24
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	2	0.24
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	2	0.24
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	2	0.24
(1,412)	1:209:A:LYS:H	1:212:A:GLN:H	9	0.24
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD11	4	0.24
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD12	4	0.24
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD13	4	0.24
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD11	4	0.24
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD12	4	0.24
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD13	4	0.24
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD11	4	0.24
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD12	4	0.24
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD13	4	0.24
(1,1749)	1:173:A:ARG:H	1:162:A:TRP:HA	1	0.23
(1,1631)	1:102:A:ASP:H	1:98:A:MET:HA	6	0.23
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	4	0.23
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	4	0.23
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	4	0.23
(1,932)	1:138:A:PHE:H	1:136:A:VAL:HG11	2	0.23
(1,932)	1:138:A:PHE:H	1:136:A:VAL:HG12	2	0.23
(1,932)	1:138:A:PHE:H	1:136:A:VAL:HG13	2	0.23
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	2	0.23
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	2	0.23
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	2	0.23
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD21	1	0.23
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD22	1	0.23
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD23	1	0.23
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	9	0.23
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	9	0.23
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	9	0.23
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	9	0.23
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	9	0.23
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	9	0.23
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	9	0.23
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	9	0.23
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD21	9	0.23
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD22	9	0.23
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD23	9	0.23
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD21	9	0.23
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD22	9	0.23
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD23	9	0.23
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD21	9	0.23
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD22	9	0.23
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD23	9	0.23
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	9	0.23
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	9	0.23
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	9	0.23
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	9	0.23
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	9	0.23
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	9	0.23
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	9	0.23
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	9	0.23
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	9	0.23
(1,573)	1:64:A:LEU:HD11	1:65:A:THR:HG21	1	0.23
(1,573)	1:64:A:LEU:HD11	1:65:A:THR:HG22	1	0.23
(1,573)	1:64:A:LEU:HD11	1:65:A:THR:HG23	1	0.23
(1,573)	1:64:A:LEU:HD12	1:65:A:THR:HG21	1	0.23
(1,573)	1:64:A:LEU:HD12	1:65:A:THR:HG22	1	0.23
(1,573)	1:64:A:LEU:HD12	1:65:A:THR:HG23	1	0.23
(1,573)	1:64:A:LEU:HD13	1:65:A:THR:HG21	1	0.23
(1,573)	1:64:A:LEU:HD13	1:65:A:THR:HG22	1	0.23
(1,573)	1:64:A:LEU:HD13	1:65:A:THR:HG23	1	0.23
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD11	9	0.23
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD12	9	0.23
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD13	9	0.23
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD11	9	0.23
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD12	9	0.23
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD13	9	0.23
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD11	9	0.23
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD12	9	0.23
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD13	9	0.23
(1,505)	1:26:A:ILE:HD11	1:115:A:THR:HG21	5	0.23
(1,505)	1:26:A:ILE:HD11	1:115:A:THR:HG22	5	0.23
(1,505)	1:26:A:ILE:HD11	1:115:A:THR:HG23	5	0.23
(1,505)	1:26:A:ILE:HD12	1:115:A:THR:HG21	5	0.23
(1,505)	1:26:A:ILE:HD12	1:115:A:THR:HG22	5	0.23
(1,505)	1:26:A:ILE:HD12	1:115:A:THR:HG23	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:26:A:ILE:HD13	1:115:A:THR:HG21	5	0.23
(1,505)	1:26:A:ILE:HD13	1:115:A:THR:HG22	5	0.23
(1,505)	1:26:A:ILE:HD13	1:115:A:THR:HG23	5	0.23
(1,215)	1:176:A:THR:H	1:177:A:GLY:H	6	0.23
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD21	5	0.23
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD22	5	0.23
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD23	5	0.23
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD21	5	0.23
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD22	5	0.23
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD23	5	0.23
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD21	5	0.23
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD22	5	0.23
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD23	5	0.23
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD11	8	0.23
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD12	8	0.23
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD13	8	0.23
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD11	8	0.23
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD12	8	0.23
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD13	8	0.23
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD11	8	0.23
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD12	8	0.23
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD13	8	0.23
(1,1509)	1:138:A:PHE:H	1:136:A:VAL:HA	2	0.22
(1,1079)	1:197:A:TYR:H	1:190:A:LEU:HD11	7	0.22
(1,1079)	1:197:A:TYR:H	1:190:A:LEU:HD12	7	0.22
(1,1079)	1:197:A:TYR:H	1:190:A:LEU:HD13	7	0.22
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	8	0.22
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	8	0.22
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	8	0.22
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	7	0.22
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	7	0.22
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	7	0.22
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB1	4	0.22
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB2	4	0.22
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB3	4	0.22
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG21	10	0.22
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG22	10	0.22
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG23	10	0.22
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG21	4	0.22
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG22	4	0.22
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG23	4	0.22
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG21	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG22	4	0.22
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG23	4	0.22
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG21	4	0.22
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG22	4	0.22
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG23	4	0.22
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD21	7	0.22
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD22	7	0.22
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD23	7	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD21	7	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD22	7	0.22
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD23	7	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD21	7	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD22	7	0.22
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD23	7	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD11	4	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD12	4	0.22
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD13	4	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD11	4	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD12	4	0.22
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD13	4	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD11	4	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD12	4	0.22
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD13	4	0.22
(1,526)	1:33:A:ILE:HD11	1:143:A:LEU:HD21	5	0.22
(1,526)	1:33:A:ILE:HD11	1:143:A:LEU:HD22	5	0.22
(1,526)	1:33:A:ILE:HD11	1:143:A:LEU:HD23	5	0.22
(1,526)	1:33:A:ILE:HD12	1:143:A:LEU:HD21	5	0.22
(1,526)	1:33:A:ILE:HD12	1:143:A:LEU:HD22	5	0.22
(1,526)	1:33:A:ILE:HD12	1:143:A:LEU:HD23	5	0.22
(1,526)	1:33:A:ILE:HD13	1:143:A:LEU:HD21	5	0.22
(1,526)	1:33:A:ILE:HD13	1:143:A:LEU:HD22	5	0.22
(1,526)	1:33:A:ILE:HD13	1:143:A:LEU:HD23	5	0.22
(1,21)	1:103:A:LEU:HD11	1:107:A:LEU:HD11	6	0.22
(1,21)	1:103:A:LEU:HD11	1:107:A:LEU:HD12	6	0.22
(1,21)	1:103:A:LEU:HD11	1:107:A:LEU:HD13	6	0.22
(1,21)	1:103:A:LEU:HD12	1:107:A:LEU:HD11	6	0.22
(1,21)	1:103:A:LEU:HD12	1:107:A:LEU:HD12	6	0.22
(1,21)	1:103:A:LEU:HD12	1:107:A:LEU:HD13	6	0.22
(1,21)	1:103:A:LEU:HD13	1:107:A:LEU:HD11	6	0.22
(1,21)	1:103:A:LEU:HD13	1:107:A:LEU:HD12	6	0.22
(1,21)	1:103:A:LEU:HD13	1:107:A:LEU:HD13	6	0.22
(1,1658)	1:22:A:PHE:H	1:169:A:SER:HA	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1587)	1:197:A:TYR:H	1:194:A:GLN:HA	10	0.21
(1,1084)	1:198:A:LEU:H	1:190:A:LEU:HD11	8	0.21
(1,1084)	1:198:A:LEU:H	1:190:A:LEU:HD12	8	0.21
(1,1084)	1:198:A:LEU:H	1:190:A:LEU:HD13	8	0.21
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD11	6	0.21
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD12	6	0.21
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD13	6	0.21
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	5	0.21
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	5	0.21
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	5	0.21
(1,953)	1:144:A:VAL:H	1:190:A:LEU:HD21	7	0.21
(1,953)	1:144:A:VAL:H	1:190:A:LEU:HD22	7	0.21
(1,953)	1:144:A:VAL:H	1:190:A:LEU:HD23	7	0.21
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD11	1	0.21
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD12	1	0.21
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD13	1	0.21
(1,764)	1:44:A:PHE:H	1:43:A:ILE:HD11	10	0.21
(1,764)	1:44:A:PHE:H	1:43:A:ILE:HD12	10	0.21
(1,764)	1:44:A:PHE:H	1:43:A:ILE:HD13	10	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	2	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	2	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	2	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	6	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	6	0.21
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	6	0.21
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD11	1	0.21
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD12	1	0.21
(1,635)	1:151:A:ILE:HD11	1:187:A:ILE:HD13	1	0.21
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD11	1	0.21
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD12	1	0.21
(1,635)	1:151:A:ILE:HD12	1:187:A:ILE:HD13	1	0.21
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD11	1	0.21
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD12	1	0.21
(1,635)	1:151:A:ILE:HD13	1:187:A:ILE:HD13	1	0.21
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG21	5	0.21
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG22	5	0.21
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG23	5	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG21	5	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG22	5	0.21
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG23	5	0.21
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG21	5	0.21
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG22	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG23	5	0.21
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD21	4	0.21
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD22	4	0.21
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD23	4	0.21
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD21	4	0.21
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD22	4	0.21
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD23	4	0.21
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD21	4	0.21
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD22	4	0.21
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD23	4	0.21
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD11	9	0.21
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD12	9	0.21
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD13	9	0.21
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD11	9	0.21
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD12	9	0.21
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD13	9	0.21
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD11	9	0.21
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD12	9	0.21
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD13	9	0.21
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB1	4	0.21
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB2	4	0.21
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB3	4	0.21
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB1	4	0.21
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB2	4	0.21
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB3	4	0.21
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB1	4	0.21
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB2	4	0.21
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB3	4	0.21
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD11	3	0.21
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD12	3	0.21
(1,547)	1:45:A:LEU:HD21	1:188:A:LEU:HD13	3	0.21
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD11	3	0.21
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD12	3	0.21
(1,547)	1:45:A:LEU:HD22	1:188:A:LEU:HD13	3	0.21
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD11	3	0.21
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD12	3	0.21
(1,547)	1:45:A:LEU:HD23	1:188:A:LEU:HD13	3	0.21
(1,303)	1:104:A:ILE:H	1:106:A:ASN:H	8	0.21
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD21	6	0.21
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD22	6	0.21
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD23	6	0.21
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD21	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD22	6	0.21
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD23	6	0.21
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD21	6	0.21
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD22	6	0.21
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD23	6	0.21
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	10	0.21
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	10	0.21
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	10	0.21
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	10	0.21
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	10	0.21
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	10	0.21
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	10	0.21
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	10	0.21
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	10	0.21
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG21	10	0.21
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG22	10	0.21
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG23	10	0.21
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG21	10	0.21
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG22	10	0.21
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG23	10	0.21
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG21	10	0.21
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG22	10	0.21
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG23	10	0.21
(1,1863)	1:133:A:GLN:H	1:130:A:MET:HA	10	0.2
(1,1709)	1:152:A:THR:H	1:184:A:THR:HA	1	0.2
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	8	0.2
(1,1630)	1:88:A:THR:H	1:84:A:LYS:HA	8	0.2
(1,1580)	1:105:A:ASN:H	1:102:A:ASP:HA	1	0.2
(1,973)	1:150:A:VAL:H	1:151:A:ILE:HD11	9	0.2
(1,973)	1:150:A:VAL:H	1:151:A:ILE:HD12	9	0.2
(1,973)	1:150:A:VAL:H	1:151:A:ILE:HD13	9	0.2
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG21	9	0.2
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG22	9	0.2
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG23	9	0.2
(1,930)	1:138:A:PHE:H	1:48:A:LEU:HD11	3	0.2
(1,930)	1:138:A:PHE:H	1:48:A:LEU:HD12	3	0.2
(1,930)	1:138:A:PHE:H	1:48:A:LEU:HD13	3	0.2
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD11	7	0.2
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD12	7	0.2
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD13	7	0.2
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	1	0.2
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	1	0.2
(1,821)	1:75:A:GLU:H	1:76:A:LEU:HD11	4	0.2
(1,821)	1:75:A:GLU:H	1:76:A:LEU:HD12	4	0.2
(1,821)	1:75:A:GLU:H	1:76:A:LEU:HD13	4	0.2
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD11	9	0.2
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD12	9	0.2
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD13	9	0.2
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	4	0.2
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	4	0.2
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	4	0.2
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD21	2	0.2
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD22	2	0.2
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD23	2	0.2
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD21	2	0.2
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD22	2	0.2
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD23	2	0.2
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD21	2	0.2
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD22	2	0.2
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD23	2	0.2
(1,543)	1:45:A:LEU:HD21	1:80:A:LEU:HD21	10	0.2
(1,543)	1:45:A:LEU:HD21	1:80:A:LEU:HD22	10	0.2
(1,543)	1:45:A:LEU:HD21	1:80:A:LEU:HD23	10	0.2
(1,543)	1:45:A:LEU:HD22	1:80:A:LEU:HD21	10	0.2
(1,543)	1:45:A:LEU:HD22	1:80:A:LEU:HD22	10	0.2
(1,543)	1:45:A:LEU:HD22	1:80:A:LEU:HD23	10	0.2
(1,543)	1:45:A:LEU:HD23	1:80:A:LEU:HD21	10	0.2
(1,543)	1:45:A:LEU:HD23	1:80:A:LEU:HD22	10	0.2
(1,543)	1:45:A:LEU:HD23	1:80:A:LEU:HD23	10	0.2
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	9	0.2
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	9	0.2
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	9	0.2
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	9	0.2
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	9	0.2
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	9	0.2
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	9	0.2
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	9	0.2
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	9	0.2
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD11	9	0.2
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD12	9	0.2
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD13	9	0.2
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD11	9	0.2
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD12	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD13	9	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD11	9	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD12	9	0.2
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD13	9	0.2
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG11	4	0.2
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG12	4	0.2
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG13	4	0.2
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG11	4	0.2
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG12	4	0.2
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG13	4	0.2
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG11	4	0.2
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG12	4	0.2
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG13	4	0.2
(1,1771)	1:187:A:ILE:H	1:150:A:VAL:HA	9	0.19
(1,1763)	1:185:A:LYS:H	1:152:A:THR:HA	6	0.19
(1,1688)	1:146:A:GLU:H	1:190:A:LEU:HA	1	0.19
(1,1658)	1:22:A:PHE:H	1:169:A:SER:HA	3	0.19
(1,1647)	1:98:A:MET:H	1:154:A:HIS:H	6	0.19
(1,1064)	1:190:A:LEU:H	1:88:A:THR:HG21	5	0.19
(1,1064)	1:190:A:LEU:H	1:88:A:THR:HG22	5	0.19
(1,1064)	1:190:A:LEU:H	1:88:A:THR:HG23	5	0.19
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG21	5	0.19
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG22	5	0.19
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG23	5	0.19
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	3	0.19
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	3	0.19
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	3	0.19
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE1	9	0.19
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE2	9	0.19
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE3	9	0.19
(1,883)	1:94:A:THR:H	1:56:A:LEU:HD11	2	0.19
(1,883)	1:94:A:THR:H	1:56:A:LEU:HD12	2	0.19
(1,883)	1:94:A:THR:H	1:56:A:LEU:HD13	2	0.19
(1,796)	1:60:A:ARG:H	1:76:A:LEU:HD11	8	0.19
(1,796)	1:60:A:ARG:H	1:76:A:LEU:HD12	8	0.19
(1,796)	1:60:A:ARG:H	1:76:A:LEU:HD13	8	0.19
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD21	2	0.19
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD22	2	0.19
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD23	2	0.19
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD11	5	0.19
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD12	5	0.19
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD13	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB1	1	0.19
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB2	1	0.19
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB3	1	0.19
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG11	4	0.19
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG12	4	0.19
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG13	4	0.19
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	7	0.19
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	7	0.19
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	7	0.19
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	9	0.19
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	9	0.19
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	9	0.19
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD11	7	0.19
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD12	7	0.19
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD13	7	0.19
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD11	7	0.19
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD12	7	0.19
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD13	7	0.19
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD11	7	0.19
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD12	7	0.19
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD13	7	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG21	10	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG22	10	0.19
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG23	10	0.19
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG21	10	0.19
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG22	10	0.19
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG23	10	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG21	10	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG22	10	0.19
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG23	10	0.19
(1,553)	1:48:A:LEU:HD21	1:91:A:ILE:HD11	3	0.19
(1,553)	1:48:A:LEU:HD21	1:91:A:ILE:HD12	3	0.19
(1,553)	1:48:A:LEU:HD21	1:91:A:ILE:HD13	3	0.19
(1,553)	1:48:A:LEU:HD22	1:91:A:ILE:HD11	3	0.19
(1,553)	1:48:A:LEU:HD22	1:91:A:ILE:HD12	3	0.19
(1,553)	1:48:A:LEU:HD22	1:91:A:ILE:HD13	3	0.19
(1,553)	1:48:A:LEU:HD23	1:91:A:ILE:HD11	3	0.19
(1,553)	1:48:A:LEU:HD23	1:91:A:ILE:HD12	3	0.19
(1,553)	1:48:A:LEU:HD23	1:91:A:ILE:HD13	3	0.19
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE1	8	0.19
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE2	8	0.19
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE3	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE1	8	0.19
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE2	8	0.19
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE3	8	0.19
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE1	8	0.19
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE2	8	0.19
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE3	8	0.19
(1,504)	1:26:A:ILE:HD11	1:29:A:LEU:HD11	5	0.19
(1,504)	1:26:A:ILE:HD11	1:29:A:LEU:HD12	5	0.19
(1,504)	1:26:A:ILE:HD11	1:29:A:LEU:HD13	5	0.19
(1,504)	1:26:A:ILE:HD12	1:29:A:LEU:HD11	5	0.19
(1,504)	1:26:A:ILE:HD12	1:29:A:LEU:HD12	5	0.19
(1,504)	1:26:A:ILE:HD12	1:29:A:LEU:HD13	5	0.19
(1,504)	1:26:A:ILE:HD13	1:29:A:LEU:HD11	5	0.19
(1,504)	1:26:A:ILE:HD13	1:29:A:LEU:HD12	5	0.19
(1,504)	1:26:A:ILE:HD13	1:29:A:LEU:HD13	5	0.19
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD21	1	0.19
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD22	1	0.19
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD23	1	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD21	1	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD22	1	0.19
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD23	1	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD21	1	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD22	1	0.19
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD23	1	0.19
(1,78)	1:143:A:LEU:HD21	1:144:A:VAL:HG21	10	0.19
(1,78)	1:143:A:LEU:HD21	1:144:A:VAL:HG22	10	0.19
(1,78)	1:143:A:LEU:HD21	1:144:A:VAL:HG23	10	0.19
(1,78)	1:143:A:LEU:HD22	1:144:A:VAL:HG21	10	0.19
(1,78)	1:143:A:LEU:HD22	1:144:A:VAL:HG22	10	0.19
(1,78)	1:143:A:LEU:HD22	1:144:A:VAL:HG23	10	0.19
(1,78)	1:143:A:LEU:HD23	1:144:A:VAL:HG21	10	0.19
(1,78)	1:143:A:LEU:HD23	1:144:A:VAL:HG22	10	0.19
(1,78)	1:143:A:LEU:HD23	1:144:A:VAL:HG23	10	0.19
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD21	2	0.19
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD22	2	0.19
(1,77)	1:188:A:LEU:HD21	1:45:A:LEU:HD23	2	0.19
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD21	2	0.19
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD22	2	0.19
(1,77)	1:188:A:LEU:HD22	1:45:A:LEU:HD23	2	0.19
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD21	2	0.19
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD22	2	0.19
(1,77)	1:188:A:LEU:HD23	1:45:A:LEU:HD23	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	2	0.19
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	2	0.19
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	2	0.19
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	2	0.19
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	2	0.19
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	2	0.19
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	2	0.19
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	2	0.19
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	2	0.19
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD11	9	0.19
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD12	9	0.19
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD13	9	0.19
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD11	9	0.19
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD12	9	0.19
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD13	9	0.19
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD11	9	0.19
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD12	9	0.19
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD13	9	0.19
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD21	9	0.19
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD22	9	0.19
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD23	9	0.19
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD21	9	0.19
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD22	9	0.19
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD23	9	0.19
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD21	9	0.19
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD22	9	0.19
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD23	9	0.19
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD11	2	0.19
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD12	2	0.19
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD13	2	0.19
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD11	2	0.19
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD12	2	0.19
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD13	2	0.19
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD11	2	0.19
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD12	2	0.19
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD13	2	0.19
(1,35)	1:107:A:LEU:HD11	1:150:A:VAL:HG11	4	0.19
(1,35)	1:107:A:LEU:HD11	1:150:A:VAL:HG12	4	0.19
(1,35)	1:107:A:LEU:HD11	1:150:A:VAL:HG13	4	0.19
(1,35)	1:107:A:LEU:HD12	1:150:A:VAL:HG11	4	0.19
(1,35)	1:107:A:LEU:HD12	1:150:A:VAL:HG12	4	0.19
(1,35)	1:107:A:LEU:HD12	1:150:A:VAL:HG13	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:107:A:LEU:HD13	1:150:A:VAL:HG11	4	0.19
(1,35)	1:107:A:LEU:HD13	1:150:A:VAL:HG12	4	0.19
(1,35)	1:107:A:LEU:HD13	1:150:A:VAL:HG13	4	0.19
(1,25)	1:103:A:LEU:HD11	1:152:A:THR:HG21	8	0.19
(1,25)	1:103:A:LEU:HD11	1:152:A:THR:HG22	8	0.19
(1,25)	1:103:A:LEU:HD11	1:152:A:THR:HG23	8	0.19
(1,25)	1:103:A:LEU:HD12	1:152:A:THR:HG21	8	0.19
(1,25)	1:103:A:LEU:HD12	1:152:A:THR:HG22	8	0.19
(1,25)	1:103:A:LEU:HD12	1:152:A:THR:HG23	8	0.19
(1,25)	1:103:A:LEU:HD13	1:152:A:THR:HG21	8	0.19
(1,25)	1:103:A:LEU:HD13	1:152:A:THR:HG22	8	0.19
(1,25)	1:103:A:LEU:HD13	1:152:A:THR:HG23	8	0.19
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB1	5	0.19
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB2	5	0.19
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB3	5	0.19
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB1	5	0.19
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB2	5	0.19
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB3	5	0.19
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB1	5	0.19
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB2	5	0.19
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB3	5	0.19
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG21	9	0.19
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG22	9	0.19
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG23	9	0.19
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG21	9	0.19
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG22	9	0.19
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG23	9	0.19
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG21	9	0.19
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG22	9	0.19
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG23	9	0.19
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG21	7	0.19
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG22	7	0.19
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG23	7	0.19
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG21	7	0.19
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG22	7	0.19
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG23	7	0.19
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG21	7	0.19
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG22	7	0.19
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG23	7	0.19
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA2	10	0.18
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA3	10	0.18
(1,1749)	1:173:A:ARG:H	1:162:A:TRP:HA	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1659)	1:77:A:HIS:H	1:93:A:ASP:HA	5	0.18
(1,1633)	1:105:A:ASN:H	1:101:A:ALA:HA	9	0.18
(1,1511)	1:141:A:ALA:H	1:139:A:TYR:HA	2	0.18
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	1	0.18
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	1	0.18
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	1	0.18
(1,1112)	1:207:A:VAL:H	1:206:A:ILE:HD11	10	0.18
(1,1112)	1:207:A:VAL:H	1:206:A:ILE:HD12	10	0.18
(1,1112)	1:207:A:VAL:H	1:206:A:ILE:HD13	10	0.18
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	6	0.18
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	6	0.18
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	6	0.18
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	5	0.18
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	5	0.18
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	5	0.18
(1,808)	1:63:A:SER:H	1:70:A:LEU:HD21	7	0.18
(1,808)	1:63:A:SER:H	1:70:A:LEU:HD22	7	0.18
(1,808)	1:63:A:SER:H	1:70:A:LEU:HD23	7	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD11	7	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD12	7	0.18
(1,751)	1:33:A:ILE:H	1:29:A:LEU:HD13	7	0.18
(1,729)	1:18:A:GLU:H	1:172:A:VAL:HG11	6	0.18
(1,729)	1:18:A:GLU:H	1:172:A:VAL:HG12	6	0.18
(1,729)	1:18:A:GLU:H	1:172:A:VAL:HG13	6	0.18
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD21	9	0.18
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD22	9	0.18
(1,679)	1:76:A:LEU:H	1:76:A:LEU:HD23	9	0.18
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD21	4	0.18
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD22	4	0.18
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD23	4	0.18
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD21	4	0.18
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD22	4	0.18
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD23	4	0.18
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD21	4	0.18
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD22	4	0.18
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD23	4	0.18
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	8	0.18
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	8	0.18
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	8	0.18
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	8	0.18
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	8	0.18
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	8	0.18
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	8	0.18
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	8	0.18
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG11	8	0.18
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG12	8	0.18
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG13	8	0.18
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG11	8	0.18
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG12	8	0.18
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG13	8	0.18
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG11	8	0.18
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG12	8	0.18
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG13	8	0.18
(1,592)	1:89:A:LEU:HD21	1:188:A:LEU:HD11	1	0.18
(1,592)	1:89:A:LEU:HD21	1:188:A:LEU:HD12	1	0.18
(1,592)	1:89:A:LEU:HD21	1:188:A:LEU:HD13	1	0.18
(1,592)	1:89:A:LEU:HD22	1:188:A:LEU:HD11	1	0.18
(1,592)	1:89:A:LEU:HD22	1:188:A:LEU:HD12	1	0.18
(1,592)	1:89:A:LEU:HD22	1:188:A:LEU:HD13	1	0.18
(1,592)	1:89:A:LEU:HD23	1:188:A:LEU:HD11	1	0.18
(1,592)	1:89:A:LEU:HD23	1:188:A:LEU:HD12	1	0.18
(1,592)	1:89:A:LEU:HD23	1:188:A:LEU:HD13	1	0.18
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	1	0.18
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	1	0.18
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	1	0.18
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	1	0.18
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	1	0.18
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	1	0.18
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	1	0.18
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	1	0.18
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	1	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD11	1	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD12	1	0.18
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD13	1	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD11	1	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD12	1	0.18
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD13	1	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD11	1	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD12	1	0.18
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD13	1	0.18
(1,538)	1:45:A:LEU:HD11	1:206:A:ILE:HD11	6	0.18
(1,538)	1:45:A:LEU:HD11	1:206:A:ILE:HD12	6	0.18
(1,538)	1:45:A:LEU:HD11	1:206:A:ILE:HD13	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,538)	1:45:A:LEU:HD12	1:206:A:ILE:HD11	6	0.18
(1,538)	1:45:A:LEU:HD12	1:206:A:ILE:HD12	6	0.18
(1,538)	1:45:A:LEU:HD12	1:206:A:ILE:HD13	6	0.18
(1,538)	1:45:A:LEU:HD13	1:206:A:ILE:HD11	6	0.18
(1,538)	1:45:A:LEU:HD13	1:206:A:ILE:HD12	6	0.18
(1,538)	1:45:A:LEU:HD13	1:206:A:ILE:HD13	6	0.18
(1,516)	1:30:A:MET:HE1	1:34:A:ILE:HD11	4	0.18
(1,516)	1:30:A:MET:HE1	1:34:A:ILE:HD12	4	0.18
(1,516)	1:30:A:MET:HE1	1:34:A:ILE:HD13	4	0.18
(1,516)	1:30:A:MET:HE2	1:34:A:ILE:HD11	4	0.18
(1,516)	1:30:A:MET:HE2	1:34:A:ILE:HD12	4	0.18
(1,516)	1:30:A:MET:HE2	1:34:A:ILE:HD13	4	0.18
(1,516)	1:30:A:MET:HE3	1:34:A:ILE:HD11	4	0.18
(1,516)	1:30:A:MET:HE3	1:34:A:ILE:HD12	4	0.18
(1,516)	1:30:A:MET:HE3	1:34:A:ILE:HD13	4	0.18
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	3	0.18
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	1	0.18
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	1	0.18
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	1	0.18
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	1	0.18
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	1	0.18
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	1	0.18
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	1	0.18
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	1	0.18
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	1	0.18
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	4	0.18
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	4	0.18
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	4	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	4	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	4	0.18
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	4	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	4	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	4	0.18
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	4	0.18
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD11	3	0.18
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD12	3	0.18
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD13	3	0.18
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD11	3	0.18
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD12	3	0.18
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD13	3	0.18
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD11	3	0.18
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD12	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD13	3	0.18
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD21	3	0.18
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD22	3	0.18
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD23	3	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD21	3	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD22	3	0.18
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD23	3	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD21	3	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD22	3	0.18
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD23	3	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE1	4	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE2	4	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE3	4	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE1	4	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE2	4	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE3	4	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE1	4	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE2	4	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE3	4	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE1	6	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE2	6	0.18
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE3	6	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE1	6	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE2	6	0.18
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE3	6	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE1	6	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE2	6	0.18
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE3	6	0.18
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE1	4	0.18
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE2	4	0.18
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE3	4	0.18
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE1	4	0.18
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE2	4	0.18
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE3	4	0.18
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE1	4	0.18
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE2	4	0.18
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE3	4	0.18
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG21	10	0.18
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG22	10	0.18
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG23	10	0.18
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG21	10	0.18
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG22	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG23	10	0.18
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG21	10	0.18
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG22	10	0.18
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG23	10	0.18
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	6	0.17
(1,1600)	1:214:A:ILE:H	1:211:A:SER:HA	7	0.17
(1,1575)	1:72:A:SER:H	1:69:A:LYS:HA	4	0.17
(1,1448)	1:212:A:GLN:H	1:211:A:SER:HA	5	0.17
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG21	2	0.17
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG22	2	0.17
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG23	2	0.17
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	9	0.17
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	9	0.17
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	9	0.17
(1,970)	1:150:A:VAL:H	1:107:A:LEU:HD21	6	0.17
(1,970)	1:150:A:VAL:H	1:107:A:LEU:HD22	6	0.17
(1,970)	1:150:A:VAL:H	1:107:A:LEU:HD23	6	0.17
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD21	7	0.17
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD22	7	0.17
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD23	7	0.17
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD11	10	0.17
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD12	10	0.17
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD13	10	0.17
(1,903)	1:118:A:PHE:H	1:136:A:VAL:HG11	8	0.17
(1,903)	1:118:A:PHE:H	1:136:A:VAL:HG12	8	0.17
(1,903)	1:118:A:PHE:H	1:136:A:VAL:HG13	8	0.17
(1,865)	1:89:A:LEU:H	1:190:A:LEU:HD21	1	0.17
(1,865)	1:89:A:LEU:H	1:190:A:LEU:HD22	1	0.17
(1,865)	1:89:A:LEU:H	1:190:A:LEU:HD23	1	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD11	4	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD12	4	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD13	4	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD11	7	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD12	7	0.17
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD13	7	0.17
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD11	9	0.17
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD12	9	0.17
(1,844)	1:81:A:ILE:H	1:203:A:ILE:HD13	9	0.17
(1,835)	1:80:A:LEU:H	1:219:A:THR:HG21	1	0.17
(1,835)	1:80:A:LEU:H	1:219:A:THR:HG22	1	0.17
(1,835)	1:80:A:LEU:H	1:219:A:THR:HG23	1	0.17
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD21	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD22	9	0.17
(1,773)	1:47:A:GLU:H	1:48:A:LEU:HD23	9	0.17
(1,753)	1:33:A:ILE:H	1:32:A:LEU:HD21	7	0.17
(1,753)	1:33:A:ILE:H	1:32:A:LEU:HD22	7	0.17
(1,753)	1:33:A:ILE:H	1:32:A:LEU:HD23	7	0.17
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB1	4	0.17
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB2	4	0.17
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB3	4	0.17
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG21	10	0.17
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG22	10	0.17
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG23	10	0.17
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG11	6	0.17
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG12	6	0.17
(1,695)	1:136:A:VAL:H	1:136:A:VAL:HG13	6	0.17
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD11	4	0.17
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD12	4	0.17
(1,673)	1:59:A:ILE:H	1:59:A:ILE:HD13	4	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	2	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	2	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	2	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	2	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	2	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	2	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	2	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	2	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	2	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	3	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	3	0.17
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	3	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	3	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	3	0.17
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	3	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	3	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	3	0.17
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	3	0.17
(1,605)	1:94:A:THR:HG21	1:180:A:MET:HE1	7	0.17
(1,605)	1:94:A:THR:HG21	1:180:A:MET:HE2	7	0.17
(1,605)	1:94:A:THR:HG21	1:180:A:MET:HE3	7	0.17
(1,605)	1:94:A:THR:HG22	1:180:A:MET:HE1	7	0.17
(1,605)	1:94:A:THR:HG22	1:180:A:MET:HE2	7	0.17
(1,605)	1:94:A:THR:HG22	1:180:A:MET:HE3	7	0.17
(1,605)	1:94:A:THR:HG23	1:180:A:MET:HE1	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,605)	1:94:A:THR:HG23	1:180:A:MET:HE2	7	0.17
(1,605)	1:94:A:THR:HG23	1:180:A:MET:HE3	7	0.17
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	10	0.17
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	10	0.17
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	10	0.17
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	10	0.17
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	10	0.17
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	10	0.17
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	10	0.17
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	10	0.17
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	10	0.17
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD11	1	0.17
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD12	1	0.17
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD13	1	0.17
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD11	1	0.17
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD12	1	0.17
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD13	1	0.17
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD11	1	0.17
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD12	1	0.17
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD13	1	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	6	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	6	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	6	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	6	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	6	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	6	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	6	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	6	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	6	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	7	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	7	0.17
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	7	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	7	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	7	0.17
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	7	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	7	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	7	0.17
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	7	0.17
(1,512)	1:29:A:LEU:HD11	1:122:A:LEU:HD21	2	0.17
(1,512)	1:29:A:LEU:HD11	1:122:A:LEU:HD22	2	0.17
(1,512)	1:29:A:LEU:HD11	1:122:A:LEU:HD23	2	0.17
(1,512)	1:29:A:LEU:HD12	1:122:A:LEU:HD21	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,512)	1:29:A:LEU:HD12	1:122:A:LEU:HD22	2	0.17
(1,512)	1:29:A:LEU:HD12	1:122:A:LEU:HD23	2	0.17
(1,512)	1:29:A:LEU:HD13	1:122:A:LEU:HD21	2	0.17
(1,512)	1:29:A:LEU:HD13	1:122:A:LEU:HD22	2	0.17
(1,512)	1:29:A:LEU:HD13	1:122:A:LEU:HD23	2	0.17
(1,470)	1:161:A:ALA:H	1:175:A:ASP:H	9	0.17
(1,413)	1:210:A:HIS:H	1:213:A:PHE:H	5	0.17
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	9	0.17
(1,99)	1:17:A:VAL:H	1:18:A:GLU:H	5	0.17
(1,84)	1:56:A:LEU:HD11	1:55:A:ALA:HB1	3	0.17
(1,84)	1:56:A:LEU:HD11	1:55:A:ALA:HB2	3	0.17
(1,84)	1:56:A:LEU:HD11	1:55:A:ALA:HB3	3	0.17
(1,84)	1:56:A:LEU:HD12	1:55:A:ALA:HB1	3	0.17
(1,84)	1:56:A:LEU:HD12	1:55:A:ALA:HB2	3	0.17
(1,84)	1:56:A:LEU:HD12	1:55:A:ALA:HB3	3	0.17
(1,84)	1:56:A:LEU:HD13	1:55:A:ALA:HB1	3	0.17
(1,84)	1:56:A:LEU:HD13	1:55:A:ALA:HB2	3	0.17
(1,84)	1:56:A:LEU:HD13	1:55:A:ALA:HB3	3	0.17
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	9	0.17
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	9	0.17
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	9	0.17
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	9	0.17
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	9	0.17
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	9	0.17
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	9	0.17
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	9	0.17
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	9	0.17
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	9	0.17
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	9	0.17
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	9	0.17
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	9	0.17
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	9	0.17
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	9	0.17
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	9	0.17
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	9	0.17
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	9	0.17
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG21	9	0.17
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG22	9	0.17
(1,30)	1:103:A:LEU:HD21	1:152:A:THR:HG23	9	0.17
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG21	9	0.17
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG22	9	0.17
(1,30)	1:103:A:LEU:HD22	1:152:A:THR:HG23	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG21	9	0.17
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG22	9	0.17
(1,30)	1:103:A:LEU:HD23	1:152:A:THR:HG23	9	0.17
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG21	4	0.17
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG22	4	0.17
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG23	4	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG21	4	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG22	4	0.17
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG23	4	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG21	4	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG22	4	0.17
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG23	4	0.17
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	5	0.16
(1,1671)	1:81:A:ILE:H	1:91:A:ILE:HA	3	0.16
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA2	1	0.16
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA3	1	0.16
(1,1649)	1:18:A:GLU:H	1:171:A:THR:HA	10	0.16
(1,1598)	1:210:A:HIS:H	1:207:A:VAL:HA	3	0.16
(1,1598)	1:210:A:HIS:H	1:207:A:VAL:HA	7	0.16
(1,1584)	1:169:A:SER:H	1:166:A:ALA:HA	6	0.16
(1,1555)	1:49:A:ILE:H	1:46:A:ARG:HA	3	0.16
(1,1555)	1:49:A:ILE:H	1:46:A:ARG:HA	9	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	1	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	1	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	1	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	9	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	9	0.16
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	9	0.16
(1,1092)	1:200:A:GLU:H	1:222:A:VAL:HG21	7	0.16
(1,1092)	1:200:A:GLU:H	1:222:A:VAL:HG22	7	0.16
(1,1092)	1:200:A:GLU:H	1:222:A:VAL:HG23	7	0.16
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG21	8	0.16
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG22	8	0.16
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG23	8	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG11	3	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG12	3	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG13	3	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG11	5	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG12	5	0.16
(1,1026)	1:185:A:LYS:H	1:92:A:VAL:HG13	5	0.16
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	9	0.16
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	9	0.16
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	1	0.16
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	1	0.16
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	1	0.16
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG21	10	0.16
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG22	10	0.16
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG23	10	0.16
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG21	1	0.16
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG22	1	0.16
(1,955)	1:145:A:ALA:H	1:144:A:VAL:HG23	1	0.16
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB1	7	0.16
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB2	7	0.16
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB3	7	0.16
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD11	10	0.16
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD12	10	0.16
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD13	10	0.16
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD21	1	0.16
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD22	1	0.16
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD23	1	0.16
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD11	4	0.16
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD12	4	0.16
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD13	4	0.16
(1,846)	1:83:A:ASN:H	1:88:A:THR:HG21	9	0.16
(1,846)	1:83:A:ASN:H	1:88:A:THR:HG22	9	0.16
(1,846)	1:83:A:ASN:H	1:88:A:THR:HG23	9	0.16
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD11	8	0.16
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD12	8	0.16
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD13	8	0.16
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	8	0.16
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	8	0.16
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	8	0.16
(1,714)	1:190:A:LEU:H	1:190:A:LEU:HD21	1	0.16
(1,714)	1:190:A:LEU:H	1:190:A:LEU:HD22	1	0.16
(1,714)	1:190:A:LEU:H	1:190:A:LEU:HD23	1	0.16
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG21	4	0.16
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG22	4	0.16
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG23	4	0.16
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	1	0.16
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	1	0.16
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	1	0.16
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG21	3	0.16
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG22	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,659)	1:17:A:VAL:H	1:17:A:VAL:HG23	3	0.16
(1,653)	1:214:A:ILE:HD11	1:218:A:ILE:HD11	9	0.16
(1,653)	1:214:A:ILE:HD11	1:218:A:ILE:HD12	9	0.16
(1,653)	1:214:A:ILE:HD11	1:218:A:ILE:HD13	9	0.16
(1,653)	1:214:A:ILE:HD12	1:218:A:ILE:HD11	9	0.16
(1,653)	1:214:A:ILE:HD12	1:218:A:ILE:HD12	9	0.16
(1,653)	1:214:A:ILE:HD12	1:218:A:ILE:HD13	9	0.16
(1,653)	1:214:A:ILE:HD13	1:218:A:ILE:HD11	9	0.16
(1,653)	1:214:A:ILE:HD13	1:218:A:ILE:HD12	9	0.16
(1,653)	1:214:A:ILE:HD13	1:218:A:ILE:HD13	9	0.16
(1,651)	1:207:A:VAL:HG11	1:218:A:ILE:HD11	5	0.16
(1,651)	1:207:A:VAL:HG11	1:218:A:ILE:HD12	5	0.16
(1,651)	1:207:A:VAL:HG11	1:218:A:ILE:HD13	5	0.16
(1,651)	1:207:A:VAL:HG12	1:218:A:ILE:HD11	5	0.16
(1,651)	1:207:A:VAL:HG12	1:218:A:ILE:HD12	5	0.16
(1,651)	1:207:A:VAL:HG12	1:218:A:ILE:HD13	5	0.16
(1,651)	1:207:A:VAL:HG13	1:218:A:ILE:HD11	5	0.16
(1,651)	1:207:A:VAL:HG13	1:218:A:ILE:HD12	5	0.16
(1,651)	1:207:A:VAL:HG13	1:218:A:ILE:HD13	5	0.16
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG11	8	0.16
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG12	8	0.16
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG13	8	0.16
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG11	8	0.16
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG12	8	0.16
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG13	8	0.16
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG11	8	0.16
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG12	8	0.16
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG13	8	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	5	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	5	0.16
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	5	0.16
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	5	0.16
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	5	0.16
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	5	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	5	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	5	0.16
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	5	0.16
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	5	0.16
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	5	0.16
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	5	0.16
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	5	0.16
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	5	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	5	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	5	0.16
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	5	0.16
(1,569)	1:56:A:LEU:HD21	1:78:A:ILE:HD11	1	0.16
(1,569)	1:56:A:LEU:HD21	1:78:A:ILE:HD12	1	0.16
(1,569)	1:56:A:LEU:HD21	1:78:A:ILE:HD13	1	0.16
(1,569)	1:56:A:LEU:HD22	1:78:A:ILE:HD11	1	0.16
(1,569)	1:56:A:LEU:HD22	1:78:A:ILE:HD12	1	0.16
(1,569)	1:56:A:LEU:HD22	1:78:A:ILE:HD13	1	0.16
(1,569)	1:56:A:LEU:HD23	1:78:A:ILE:HD11	1	0.16
(1,569)	1:56:A:LEU:HD23	1:78:A:ILE:HD12	1	0.16
(1,569)	1:56:A:LEU:HD23	1:78:A:ILE:HD13	1	0.16
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB1	1	0.16
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB2	1	0.16
(1,550)	1:48:A:LEU:HD11	1:141:A:ALA:HB3	1	0.16
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB1	1	0.16
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB2	1	0.16
(1,550)	1:48:A:LEU:HD12	1:141:A:ALA:HB3	1	0.16
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB1	1	0.16
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB2	1	0.16
(1,550)	1:48:A:LEU:HD13	1:141:A:ALA:HB3	1	0.16
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD11	9	0.16
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD12	9	0.16
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD13	9	0.16
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD11	9	0.16
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD12	9	0.16
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD13	9	0.16
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD11	9	0.16
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD12	9	0.16
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD13	9	0.16
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE1	2	0.16
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE2	2	0.16
(1,515)	1:29:A:LEU:HD21	1:119:A:MET:HE3	2	0.16
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE1	2	0.16
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE2	2	0.16
(1,515)	1:29:A:LEU:HD22	1:119:A:MET:HE3	2	0.16
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE1	2	0.16
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE2	2	0.16
(1,515)	1:29:A:LEU:HD23	1:119:A:MET:HE3	2	0.16
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD11	4	0.16
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD12	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	1:29:A:LEU:HD21	1:33:A:ILE:HD13	4	0.16
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD11	4	0.16
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD12	4	0.16
(1,513)	1:29:A:LEU:HD22	1:33:A:ILE:HD13	4	0.16
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD11	4	0.16
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD12	4	0.16
(1,513)	1:29:A:LEU:HD23	1:33:A:ILE:HD13	4	0.16
(1,383)	1:99:A:THR:H	1:102:A:ASP:H	6	0.16
(1,270)	1:45:A:LEU:H	1:47:A:GLU:H	7	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	8	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	8	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	8	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	8	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	8	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	8	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	8	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	8	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	8	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	10	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	10	0.16
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	10	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	10	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	10	0.16
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	10	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	10	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	10	0.16
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	10	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	2	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	2	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	2	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	2	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	2	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	2	0.16
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	2	0.16
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	2	0.16
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	2	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	4	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	4	0.16
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	4	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	4	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	4	0.16
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	4	0.16
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	4	0.16
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	4	0.16
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG11	8	0.16
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG12	8	0.16
(1,26)	1:103:A:LEU:HD11	1:172:A:VAL:HG13	8	0.16
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG11	8	0.16
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG12	8	0.16
(1,26)	1:103:A:LEU:HD12	1:172:A:VAL:HG13	8	0.16
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG11	8	0.16
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG12	8	0.16
(1,26)	1:103:A:LEU:HD13	1:172:A:VAL:HG13	8	0.16
(1,23)	1:103:A:LEU:HD11	1:150:A:VAL:HG11	1	0.16
(1,23)	1:103:A:LEU:HD11	1:150:A:VAL:HG12	1	0.16
(1,23)	1:103:A:LEU:HD11	1:150:A:VAL:HG13	1	0.16
(1,23)	1:103:A:LEU:HD12	1:150:A:VAL:HG11	1	0.16
(1,23)	1:103:A:LEU:HD12	1:150:A:VAL:HG12	1	0.16
(1,23)	1:103:A:LEU:HD12	1:150:A:VAL:HG13	1	0.16
(1,23)	1:103:A:LEU:HD13	1:150:A:VAL:HG11	1	0.16
(1,23)	1:103:A:LEU:HD13	1:150:A:VAL:HG12	1	0.16
(1,23)	1:103:A:LEU:HD13	1:150:A:VAL:HG13	1	0.16
(1,1737)	1:170:A:PHE:H	1:21:A:ALA:HA	9	0.15
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	6	0.15
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	3	0.15
(1,1659)	1:77:A:HIS:H	1:93:A:ASP:HA	3	0.15
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA2	3	0.15
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA3	3	0.15
(1,1649)	1:18:A:GLU:H	1:171:A:THR:HA	4	0.15
(1,1504)	1:101:A:ALA:H	1:99:A:THR:HA	8	0.15
(1,1504)	1:101:A:ALA:H	1:99:A:THR:HA	10	0.15
(1,1467)	1:41:A:LYS:H	1:39:A:SER:HA	9	0.15
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	2	0.15
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	2	0.15
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA2	9	0.15
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA3	9	0.15
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	7	0.15
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	7	0.15
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	7	0.15
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD11	2	0.15
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD12	2	0.15
(1,1127)	1:216:A:TYR:H	1:218:A:ILE:HD13	2	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG21	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG22	2	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG23	2	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG21	10	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG22	10	0.15
(1,1022)	1:177:A:GLY:H	1:176:A:THR:HG23	10	0.15
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	2	0.15
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	2	0.15
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	2	0.15
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	5	0.15
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	5	0.15
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	5	0.15
(1,986)	1:153:A:LYS:H	1:180:A:MET:HE1	10	0.15
(1,986)	1:153:A:LYS:H	1:180:A:MET:HE2	10	0.15
(1,986)	1:153:A:LYS:H	1:180:A:MET:HE3	10	0.15
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG21	6	0.15
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG22	6	0.15
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG23	6	0.15
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE1	1	0.15
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE2	1	0.15
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE3	1	0.15
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	5	0.15
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	5	0.15
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	5	0.15
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG11	6	0.15
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG12	6	0.15
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG13	6	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB1	4	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB2	4	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB3	4	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB1	8	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB2	8	0.15
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB3	8	0.15
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD21	7	0.15
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD22	7	0.15
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD23	7	0.15
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	10	0.15
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	10	0.15
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	10	0.15
(1,816)	1:71:A:ASP:H	1:70:A:LEU:HD11	4	0.15
(1,816)	1:71:A:ASP:H	1:70:A:LEU:HD12	4	0.15
(1,816)	1:71:A:ASP:H	1:70:A:LEU:HD13	4	0.15
(1,804)	1:62:A:GLU:H	1:59:A:ILE:HD11	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,804)	1:62:A:GLU:H	1:59:A:ILE:HD12	8	0.15
(1,804)	1:62:A:GLU:H	1:59:A:ILE:HD13	8	0.15
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG11	4	0.15
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG12	4	0.15
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG13	4	0.15
(1,707)	1:172:A:VAL:H	1:172:A:VAL:HG21	10	0.15
(1,707)	1:172:A:VAL:H	1:172:A:VAL:HG22	10	0.15
(1,707)	1:172:A:VAL:H	1:172:A:VAL:HG23	10	0.15
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD11	1	0.15
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD12	1	0.15
(1,645)	1:190:A:LEU:HD21	1:198:A:LEU:HD13	1	0.15
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD11	1	0.15
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD12	1	0.15
(1,645)	1:190:A:LEU:HD22	1:198:A:LEU:HD13	1	0.15
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD11	1	0.15
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD12	1	0.15
(1,645)	1:190:A:LEU:HD23	1:198:A:LEU:HD13	1	0.15
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG21	8	0.15
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG22	8	0.15
(1,630)	1:150:A:VAL:HG21	1:152:A:THR:HG23	8	0.15
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG21	8	0.15
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG22	8	0.15
(1,630)	1:150:A:VAL:HG22	1:152:A:THR:HG23	8	0.15
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG21	8	0.15
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG22	8	0.15
(1,630)	1:150:A:VAL:HG23	1:152:A:THR:HG23	8	0.15
(1,594)	1:89:A:LEU:HD21	1:198:A:LEU:HD21	3	0.15
(1,594)	1:89:A:LEU:HD21	1:198:A:LEU:HD22	3	0.15
(1,594)	1:89:A:LEU:HD21	1:198:A:LEU:HD23	3	0.15
(1,594)	1:89:A:LEU:HD22	1:198:A:LEU:HD21	3	0.15
(1,594)	1:89:A:LEU:HD22	1:198:A:LEU:HD22	3	0.15
(1,594)	1:89:A:LEU:HD22	1:198:A:LEU:HD23	3	0.15
(1,594)	1:89:A:LEU:HD23	1:198:A:LEU:HD21	3	0.15
(1,594)	1:89:A:LEU:HD23	1:198:A:LEU:HD22	3	0.15
(1,594)	1:89:A:LEU:HD23	1:198:A:LEU:HD23	3	0.15
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD11	8	0.15
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD12	8	0.15
(1,591)	1:89:A:LEU:HD21	1:91:A:ILE:HD13	8	0.15
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD11	8	0.15
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD12	8	0.15
(1,591)	1:89:A:LEU:HD22	1:91:A:ILE:HD13	8	0.15
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD11	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD12	8	0.15
(1,591)	1:89:A:LEU:HD23	1:91:A:ILE:HD13	8	0.15
(1,588)	1:89:A:LEU:HD11	1:91:A:ILE:HD11	1	0.15
(1,588)	1:89:A:LEU:HD11	1:91:A:ILE:HD12	1	0.15
(1,588)	1:89:A:LEU:HD11	1:91:A:ILE:HD13	1	0.15
(1,588)	1:89:A:LEU:HD12	1:91:A:ILE:HD11	1	0.15
(1,588)	1:89:A:LEU:HD12	1:91:A:ILE:HD12	1	0.15
(1,588)	1:89:A:LEU:HD12	1:91:A:ILE:HD13	1	0.15
(1,588)	1:89:A:LEU:HD13	1:91:A:ILE:HD11	1	0.15
(1,588)	1:89:A:LEU:HD13	1:91:A:ILE:HD12	1	0.15
(1,588)	1:89:A:LEU:HD13	1:91:A:ILE:HD13	1	0.15
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD11	10	0.15
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD12	10	0.15
(1,577)	1:78:A:ILE:HD11	1:218:A:ILE:HD13	10	0.15
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD11	10	0.15
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD12	10	0.15
(1,577)	1:78:A:ILE:HD12	1:218:A:ILE:HD13	10	0.15
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD11	10	0.15
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD12	10	0.15
(1,577)	1:78:A:ILE:HD13	1:218:A:ILE:HD13	10	0.15
(1,530)	1:43:A:ILE:HD11	1:143:A:LEU:HD21	3	0.15
(1,530)	1:43:A:ILE:HD11	1:143:A:LEU:HD22	3	0.15
(1,530)	1:43:A:ILE:HD11	1:143:A:LEU:HD23	3	0.15
(1,530)	1:43:A:ILE:HD12	1:143:A:LEU:HD21	3	0.15
(1,530)	1:43:A:ILE:HD12	1:143:A:LEU:HD22	3	0.15
(1,530)	1:43:A:ILE:HD12	1:143:A:LEU:HD23	3	0.15
(1,530)	1:43:A:ILE:HD13	1:143:A:LEU:HD21	3	0.15
(1,530)	1:43:A:ILE:HD13	1:143:A:LEU:HD22	3	0.15
(1,530)	1:43:A:ILE:HD13	1:143:A:LEU:HD23	3	0.15
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	10	0.15
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	10	0.15
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	10	0.15
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	10	0.15
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	10	0.15
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	10	0.15
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	10	0.15
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	10	0.15
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	10	0.15
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG21	1	0.15
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG22	1	0.15
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG23	1	0.15
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG21	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG22	1	0.15
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG23	1	0.15
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG21	1	0.15
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG22	1	0.15
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG23	1	0.15
(1,392)	1:131:A:ILE:H	1:134:A:PHE:H	7	0.15
(1,379)	1:68:A:SER:H	1:71:A:ASP:H	4	0.15
(1,303)	1:104:A:ILE:H	1:106:A:ASN:H	6	0.15
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	3	0.15
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	3	0.15
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	3	0.15
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	3	0.15
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	3	0.15
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	3	0.15
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	3	0.15
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	3	0.15
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	3	0.15
(1,55)	1:33:A:ILE:HD11	1:136:A:VAL:HG11	5	0.15
(1,55)	1:33:A:ILE:HD11	1:136:A:VAL:HG12	5	0.15
(1,55)	1:33:A:ILE:HD11	1:136:A:VAL:HG13	5	0.15
(1,55)	1:33:A:ILE:HD12	1:136:A:VAL:HG11	5	0.15
(1,55)	1:33:A:ILE:HD12	1:136:A:VAL:HG12	5	0.15
(1,55)	1:33:A:ILE:HD12	1:136:A:VAL:HG13	5	0.15
(1,55)	1:33:A:ILE:HD13	1:136:A:VAL:HG11	5	0.15
(1,55)	1:33:A:ILE:HD13	1:136:A:VAL:HG12	5	0.15
(1,55)	1:33:A:ILE:HD13	1:136:A:VAL:HG13	5	0.15
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE1	1	0.15
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE2	1	0.15
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE3	1	0.15
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE1	1	0.15
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE2	1	0.15
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE3	1	0.15
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE1	1	0.15
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE2	1	0.15
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE3	1	0.15
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG11	7	0.15
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG12	7	0.15
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG13	7	0.15
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG11	7	0.15
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG12	7	0.15
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG13	7	0.15
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG11	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG12	7	0.15
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG13	7	0.15
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD11	7	0.15
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD12	7	0.15
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD13	7	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD11	7	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD12	7	0.15
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD13	7	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD11	7	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD12	7	0.15
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD13	7	0.15
(1,1846)	1:131:A:ILE:H	1:129:A:SER:HA	2	0.14
(1,1790)	1:182:A:ARG:H	1:94:A:THR:HA	6	0.14
(1,1772)	1:188:A:LEU:H	1:88:A:THR:HA	7	0.14
(1,1732)	1:164:A:SER:H	1:149:A:THR:HA	5	0.14
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	2	0.14
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	4	0.14
(1,1587)	1:197:A:TYR:H	1:194:A:GLN:HA	9	0.14
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	1	0.14
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	1	0.14
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE1	5	0.14
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE2	5	0.14
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE3	5	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD11	5	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD12	5	0.14
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD13	5	0.14
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD11	9	0.14
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD12	9	0.14
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD13	9	0.14
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG21	4	0.14
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG22	4	0.14
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG23	4	0.14
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB1	5	0.14
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB2	5	0.14
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB3	5	0.14
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	1	0.14
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	1	0.14
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	1	0.14
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	7	0.14
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	7	0.14
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	7	0.14
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD21	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD22	1	0.14
(1,959)	1:145:A:ALA:H	1:190:A:LEU:HD23	1	0.14
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD11	6	0.14
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD12	6	0.14
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD13	6	0.14
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB1	2	0.14
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB2	2	0.14
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB3	2	0.14
(1,898)	1:111:A:ALA:H	1:26:A:ILE:HD11	2	0.14
(1,898)	1:111:A:ALA:H	1:26:A:ILE:HD12	2	0.14
(1,898)	1:111:A:ALA:H	1:26:A:ILE:HD13	2	0.14
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD11	7	0.14
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD12	7	0.14
(1,884)	1:95:A:GLY:H	1:56:A:LEU:HD13	7	0.14
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD21	6	0.14
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD22	6	0.14
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD23	6	0.14
(1,871)	1:91:A:ILE:H	1:186:A:VAL:HG11	5	0.14
(1,871)	1:91:A:ILE:H	1:186:A:VAL:HG12	5	0.14
(1,871)	1:91:A:ILE:H	1:186:A:VAL:HG13	5	0.14
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	10	0.14
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	10	0.14
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	10	0.14
(1,822)	1:77:A:HIS:H	1:56:A:LEU:HD11	8	0.14
(1,822)	1:77:A:HIS:H	1:56:A:LEU:HD12	8	0.14
(1,822)	1:77:A:HIS:H	1:56:A:LEU:HD13	8	0.14
(1,790)	1:58:A:LYS:H	1:96:A:ILE:HD11	2	0.14
(1,790)	1:58:A:LYS:H	1:96:A:ILE:HD12	2	0.14
(1,790)	1:58:A:LYS:H	1:96:A:ILE:HD13	2	0.14
(1,771)	1:47:A:GLU:H	1:45:A:LEU:HD21	8	0.14
(1,771)	1:47:A:GLU:H	1:45:A:LEU:HD22	8	0.14
(1,771)	1:47:A:GLU:H	1:45:A:LEU:HD23	8	0.14
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG11	6	0.14
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG12	6	0.14
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG13	6	0.14
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	9	0.14
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	9	0.14
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	9	0.14
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	9	0.14
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	9	0.14
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	9	0.14
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	9	0.14
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	9	0.14
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG11	2	0.14
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG12	2	0.14
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG13	2	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG11	2	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG12	2	0.14
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG13	2	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG11	2	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG12	2	0.14
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG13	2	0.14
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD11	6	0.14
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD12	6	0.14
(1,609)	1:128:A:ILE:HD11	1:143:A:LEU:HD13	6	0.14
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD11	6	0.14
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD12	6	0.14
(1,609)	1:128:A:ILE:HD12	1:143:A:LEU:HD13	6	0.14
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD11	6	0.14
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD12	6	0.14
(1,609)	1:128:A:ILE:HD13	1:143:A:LEU:HD13	6	0.14
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	8	0.14
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	8	0.14
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	8	0.14
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	8	0.14
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	8	0.14
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	8	0.14
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	8	0.14
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	8	0.14
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	8	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG11	6	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG12	6	0.14
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG13	6	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG11	6	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG12	6	0.14
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG13	6	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG11	6	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG12	6	0.14
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG13	6	0.14
(1,579)	1:80:A:LEU:HD11	1:207:A:VAL:HG21	10	0.14
(1,579)	1:80:A:LEU:HD11	1:207:A:VAL:HG22	10	0.14
(1,579)	1:80:A:LEU:HD11	1:207:A:VAL:HG23	10	0.14
(1,579)	1:80:A:LEU:HD12	1:207:A:VAL:HG21	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,579)	1:80:A:LEU:HD12	1:207:A:VAL:HG22	10	0.14
(1,579)	1:80:A:LEU:HD12	1:207:A:VAL:HG23	10	0.14
(1,579)	1:80:A:LEU:HD13	1:207:A:VAL:HG21	10	0.14
(1,579)	1:80:A:LEU:HD13	1:207:A:VAL:HG22	10	0.14
(1,579)	1:80:A:LEU:HD13	1:207:A:VAL:HG23	10	0.14
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD11	6	0.14
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD12	6	0.14
(1,576)	1:78:A:ILE:HD11	1:214:A:ILE:HD13	6	0.14
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD11	6	0.14
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD12	6	0.14
(1,576)	1:78:A:ILE:HD12	1:214:A:ILE:HD13	6	0.14
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD11	6	0.14
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD12	6	0.14
(1,576)	1:78:A:ILE:HD13	1:214:A:ILE:HD13	6	0.14
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD11	6	0.14
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD12	6	0.14
(1,566)	1:56:A:LEU:HD11	1:78:A:ILE:HD13	6	0.14
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD11	6	0.14
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD12	6	0.14
(1,566)	1:56:A:LEU:HD12	1:78:A:ILE:HD13	6	0.14
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD11	6	0.14
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD12	6	0.14
(1,566)	1:56:A:LEU:HD13	1:78:A:ILE:HD13	6	0.14
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD11	2	0.14
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD12	2	0.14
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD13	2	0.14
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD11	2	0.14
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD12	2	0.14
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD13	2	0.14
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD11	2	0.14
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD12	2	0.14
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD13	2	0.14
(1,563)	1:49:A:ILE:HD11	1:214:A:ILE:HD11	1	0.14
(1,563)	1:49:A:ILE:HD11	1:214:A:ILE:HD12	1	0.14
(1,563)	1:49:A:ILE:HD11	1:214:A:ILE:HD13	1	0.14
(1,563)	1:49:A:ILE:HD12	1:214:A:ILE:HD11	1	0.14
(1,563)	1:49:A:ILE:HD12	1:214:A:ILE:HD12	1	0.14
(1,563)	1:49:A:ILE:HD12	1:214:A:ILE:HD13	1	0.14
(1,563)	1:49:A:ILE:HD13	1:214:A:ILE:HD11	1	0.14
(1,563)	1:49:A:ILE:HD13	1:214:A:ILE:HD12	1	0.14
(1,563)	1:49:A:ILE:HD13	1:214:A:ILE:HD13	1	0.14
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD11	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD12	2	0.14
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD13	2	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD11	2	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD12	2	0.14
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD13	2	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD11	2	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD12	2	0.14
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD13	2	0.14
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD21	2	0.14
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD22	2	0.14
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD23	2	0.14
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD21	2	0.14
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD22	2	0.14
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD23	2	0.14
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD21	2	0.14
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD22	2	0.14
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD23	2	0.14
(1,397)	1:139:A:TYR:H	1:142:A:TYR:H	5	0.14
(1,392)	1:131:A:ILE:H	1:134:A:PHE:H	8	0.14
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	2	0.14
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	5	0.14
(1,170)	1:105:A:ASN:H	1:106:A:ASN:H	8	0.14
(1,98)	1:36:A:THR:HG21	1:35:A:ASN:H	2	0.14
(1,98)	1:36:A:THR:HG22	1:35:A:ASN:H	2	0.14
(1,98)	1:36:A:THR:HG23	1:35:A:ASN:H	2	0.14
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	6	0.14
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	6	0.14
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	6	0.14
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	6	0.14
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	6	0.14
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	6	0.14
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	6	0.14
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	6	0.14
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	6	0.14
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD11	5	0.14
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD12	5	0.14
(1,63)	1:190:A:LEU:HD11	1:198:A:LEU:HD13	5	0.14
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD11	5	0.14
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD12	5	0.14
(1,63)	1:190:A:LEU:HD12	1:198:A:LEU:HD13	5	0.14
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD11	5	0.14
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD12	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:190:A:LEU:HD13	1:198:A:LEU:HD13	5	0.14
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD21	7	0.14
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD22	7	0.14
(1,42)	1:119:A:MET:HE1	1:122:A:LEU:HD23	7	0.14
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD21	7	0.14
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD22	7	0.14
(1,42)	1:119:A:MET:HE2	1:122:A:LEU:HD23	7	0.14
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD21	7	0.14
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD22	7	0.14
(1,42)	1:119:A:MET:HE3	1:122:A:LEU:HD23	7	0.14
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE1	3	0.14
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE2	3	0.14
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE3	3	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE1	3	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE2	3	0.14
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE3	3	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE1	3	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE2	3	0.14
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE3	3	0.14
(1,37)	1:107:A:LEU:HD21	1:150:A:VAL:HG21	5	0.14
(1,37)	1:107:A:LEU:HD21	1:150:A:VAL:HG22	5	0.14
(1,37)	1:107:A:LEU:HD21	1:150:A:VAL:HG23	5	0.14
(1,37)	1:107:A:LEU:HD22	1:150:A:VAL:HG21	5	0.14
(1,37)	1:107:A:LEU:HD22	1:150:A:VAL:HG22	5	0.14
(1,37)	1:107:A:LEU:HD22	1:150:A:VAL:HG23	5	0.14
(1,37)	1:107:A:LEU:HD23	1:150:A:VAL:HG21	5	0.14
(1,37)	1:107:A:LEU:HD23	1:150:A:VAL:HG22	5	0.14
(1,37)	1:107:A:LEU:HD23	1:150:A:VAL:HG23	5	0.14
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG11	3	0.14
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG12	3	0.14
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG13	3	0.14
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG11	3	0.14
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG12	3	0.14
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG13	3	0.14
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG11	3	0.14
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG12	3	0.14
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG13	3	0.14
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD11	5	0.14
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD12	5	0.14
(1,20)	1:104:A:ILE:HD11	1:103:A:LEU:HD13	5	0.14
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD11	5	0.14
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD12	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:104:A:ILE:HD12	1:103:A:LEU:HD13	5	0.14
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD11	5	0.14
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD12	5	0.14
(1,20)	1:104:A:ILE:HD13	1:103:A:LEU:HD13	5	0.14
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB1	3	0.14
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB2	3	0.14
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB3	3	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB1	3	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB2	3	0.14
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB3	3	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB1	3	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB2	3	0.14
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB3	3	0.14
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG11	6	0.14
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG12	6	0.14
(1,14)	1:98:A:MET:HE1	1:150:A:VAL:HG13	6	0.14
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG11	6	0.14
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG12	6	0.14
(1,14)	1:98:A:MET:HE2	1:150:A:VAL:HG13	6	0.14
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG11	6	0.14
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG12	6	0.14
(1,14)	1:98:A:MET:HE3	1:150:A:VAL:HG13	6	0.14
(1,11)	1:98:A:MET:HE1	1:103:A:LEU:HD21	5	0.14
(1,11)	1:98:A:MET:HE1	1:103:A:LEU:HD22	5	0.14
(1,11)	1:98:A:MET:HE1	1:103:A:LEU:HD23	5	0.14
(1,11)	1:98:A:MET:HE2	1:103:A:LEU:HD21	5	0.14
(1,11)	1:98:A:MET:HE2	1:103:A:LEU:HD22	5	0.14
(1,11)	1:98:A:MET:HE2	1:103:A:LEU:HD23	5	0.14
(1,11)	1:98:A:MET:HE3	1:103:A:LEU:HD21	5	0.14
(1,11)	1:98:A:MET:HE3	1:103:A:LEU:HD22	5	0.14
(1,11)	1:98:A:MET:HE3	1:103:A:LEU:HD23	5	0.14
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG21	10	0.14
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG22	10	0.14
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG23	10	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG21	10	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG22	10	0.14
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG23	10	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG21	10	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG22	10	0.14
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG23	10	0.14
(1,4)	1:29:A:LEU:HD11	1:131:A:ILE:HD11	10	0.14
(1,4)	1:29:A:LEU:HD11	1:131:A:ILE:HD12	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4)	1:29:A:LEU:HD11	1:131:A:ILE:HD13	10	0.14
(1,4)	1:29:A:LEU:HD12	1:131:A:ILE:HD11	10	0.14
(1,4)	1:29:A:LEU:HD12	1:131:A:ILE:HD12	10	0.14
(1,4)	1:29:A:LEU:HD12	1:131:A:ILE:HD13	10	0.14
(1,4)	1:29:A:LEU:HD13	1:131:A:ILE:HD11	10	0.14
(1,4)	1:29:A:LEU:HD13	1:131:A:ILE:HD12	10	0.14
(1,4)	1:29:A:LEU:HD13	1:131:A:ILE:HD13	10	0.14
(1,1790)	1:182:A:ARG:H	1:94:A:THR:HA	4	0.13
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	9	0.13
(1,1669)	1:81:A:ILE:H	1:89:A:LEU:HA	1	0.13
(1,1644)	1:83:A:ASN:H	1:86:A:ASP:H	7	0.13
(1,1624)	1:61:A:TYR:H	1:57:A:ASP:HA	10	0.13
(1,1598)	1:210:A:HIS:H	1:207:A:VAL:HA	6	0.13
(1,1555)	1:49:A:ILE:H	1:46:A:ARG:HA	4	0.13
(1,1538)	1:213:A:PHE:H	1:211:A:SER:HA	2	0.13
(1,1538)	1:213:A:PHE:H	1:211:A:SER:HA	10	0.13
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	7	0.13
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	7	0.13
(1,1147)	1:123:A:GLN:HE22	1:32:A:LEU:HD21	3	0.13
(1,1147)	1:123:A:GLN:HE22	1:32:A:LEU:HD22	3	0.13
(1,1147)	1:123:A:GLN:HE22	1:32:A:LEU:HD23	3	0.13
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	3	0.13
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	3	0.13
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	3	0.13
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD11	1	0.13
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD12	1	0.13
(1,1096)	1:203:A:ILE:H	1:206:A:ILE:HD13	1	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG21	1	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG22	1	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG23	1	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG21	4	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG22	4	0.13
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG23	4	0.13
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG21	1	0.13
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG22	1	0.13
(1,1044)	1:187:A:ILE:H	1:150:A:VAL:HG23	1	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG21	4	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG22	4	0.13
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG23	4	0.13
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG11	2	0.13
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG12	2	0.13
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG13	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	3	0.13
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	3	0.13
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	3	0.13
(1,979)	1:151:A:ILE:H	1:150:A:VAL:HG21	7	0.13
(1,979)	1:151:A:ILE:H	1:150:A:VAL:HG22	7	0.13
(1,979)	1:151:A:ILE:H	1:150:A:VAL:HG23	7	0.13
(1,971)	1:150:A:VAL:H	1:148:A:VAL:HG11	3	0.13
(1,971)	1:150:A:VAL:H	1:148:A:VAL:HG12	3	0.13
(1,971)	1:150:A:VAL:H	1:148:A:VAL:HG13	3	0.13
(1,968)	1:150:A:VAL:H	1:103:A:LEU:HD11	6	0.13
(1,968)	1:150:A:VAL:H	1:103:A:LEU:HD12	6	0.13
(1,968)	1:150:A:VAL:H	1:103:A:LEU:HD13	6	0.13
(1,966)	1:149:A:THR:H	1:150:A:VAL:HG11	1	0.13
(1,966)	1:149:A:THR:H	1:150:A:VAL:HG12	1	0.13
(1,966)	1:149:A:THR:H	1:150:A:VAL:HG13	1	0.13
(1,937)	1:139:A:TYR:H	1:136:A:VAL:HG21	8	0.13
(1,937)	1:139:A:TYR:H	1:136:A:VAL:HG22	8	0.13
(1,937)	1:139:A:TYR:H	1:136:A:VAL:HG23	8	0.13
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD11	5	0.13
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD12	5	0.13
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD13	5	0.13
(1,923)	1:127:A:ASP:H	1:130:A:MET:HE1	5	0.13
(1,923)	1:127:A:ASP:H	1:130:A:MET:HE2	5	0.13
(1,923)	1:127:A:ASP:H	1:130:A:MET:HE3	5	0.13
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB1	6	0.13
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB2	6	0.13
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB3	6	0.13
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD21	1	0.13
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD22	1	0.13
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD23	1	0.13
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD21	4	0.13
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD22	4	0.13
(1,854)	1:85:A:GLN:H	1:198:A:LEU:HD23	4	0.13
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	8	0.13
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	8	0.13
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	8	0.13
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	7	0.13
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	7	0.13
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	7	0.13
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD11	7	0.13
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD12	7	0.13
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD13	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,805)	1:62:A:GLU:H	1:96:A:ILE:HD11	5	0.13
(1,805)	1:62:A:GLU:H	1:96:A:ILE:HD12	5	0.13
(1,805)	1:62:A:GLU:H	1:96:A:ILE:HD13	5	0.13
(1,761)	1:42:A:GLU:H	1:144:A:VAL:HG11	10	0.13
(1,761)	1:42:A:GLU:H	1:144:A:VAL:HG12	10	0.13
(1,761)	1:42:A:GLU:H	1:144:A:VAL:HG13	10	0.13
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG21	7	0.13
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG22	7	0.13
(1,730)	1:18:A:GLU:H	1:172:A:VAL:HG23	7	0.13
(1,713)	1:190:A:LEU:H	1:190:A:LEU:HD11	7	0.13
(1,713)	1:190:A:LEU:H	1:190:A:LEU:HD12	7	0.13
(1,713)	1:190:A:LEU:H	1:190:A:LEU:HD13	7	0.13
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB1	6	0.13
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB2	6	0.13
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB3	6	0.13
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB1	6	0.13
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB2	6	0.13
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB3	6	0.13
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB1	6	0.13
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB2	6	0.13
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB3	6	0.13
(1,625)	1:149:A:THR:HG21	1:151:A:ILE:HD11	8	0.13
(1,625)	1:149:A:THR:HG21	1:151:A:ILE:HD12	8	0.13
(1,625)	1:149:A:THR:HG21	1:151:A:ILE:HD13	8	0.13
(1,625)	1:149:A:THR:HG22	1:151:A:ILE:HD11	8	0.13
(1,625)	1:149:A:THR:HG22	1:151:A:ILE:HD12	8	0.13
(1,625)	1:149:A:THR:HG22	1:151:A:ILE:HD13	8	0.13
(1,625)	1:149:A:THR:HG23	1:151:A:ILE:HD11	8	0.13
(1,625)	1:149:A:THR:HG23	1:151:A:ILE:HD12	8	0.13
(1,625)	1:149:A:THR:HG23	1:151:A:ILE:HD13	8	0.13
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG11	10	0.13
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG12	10	0.13
(1,623)	1:148:A:VAL:HG11	1:150:A:VAL:HG13	10	0.13
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG11	10	0.13
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG12	10	0.13
(1,623)	1:148:A:VAL:HG12	1:150:A:VAL:HG13	10	0.13
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG11	10	0.13
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG12	10	0.13
(1,623)	1:148:A:VAL:HG13	1:150:A:VAL:HG13	10	0.13
(1,604)	1:92:A:VAL:HG21	1:180:A:MET:HE1	1	0.13
(1,604)	1:92:A:VAL:HG21	1:180:A:MET:HE2	1	0.13
(1,604)	1:92:A:VAL:HG21	1:180:A:MET:HE3	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,604)	1:92:A:VAL:HG22	1:180:A:MET:HE1	1	0.13
(1,604)	1:92:A:VAL:HG22	1:180:A:MET:HE2	1	0.13
(1,604)	1:92:A:VAL:HG22	1:180:A:MET:HE3	1	0.13
(1,604)	1:92:A:VAL:HG23	1:180:A:MET:HE1	1	0.13
(1,604)	1:92:A:VAL:HG23	1:180:A:MET:HE2	1	0.13
(1,604)	1:92:A:VAL:HG23	1:180:A:MET:HE3	1	0.13
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	3	0.13
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	3	0.13
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	3	0.13
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	3	0.13
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	3	0.13
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	3	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	3	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	3	0.13
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	3	0.13
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG11	4	0.13
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG12	4	0.13
(1,586)	1:81:A:ILE:HD11	1:92:A:VAL:HG13	4	0.13
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG11	4	0.13
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG12	4	0.13
(1,586)	1:81:A:ILE:HD12	1:92:A:VAL:HG13	4	0.13
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG11	4	0.13
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG12	4	0.13
(1,586)	1:81:A:ILE:HD13	1:92:A:VAL:HG13	4	0.13
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD11	7	0.13
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD12	7	0.13
(1,559)	1:49:A:ILE:HD11	1:80:A:LEU:HD13	7	0.13
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD11	7	0.13
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD12	7	0.13
(1,559)	1:49:A:ILE:HD12	1:80:A:LEU:HD13	7	0.13
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD11	7	0.13
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD12	7	0.13
(1,559)	1:49:A:ILE:HD13	1:80:A:LEU:HD13	7	0.13
(1,539)	1:45:A:LEU:HD11	1:207:A:VAL:HG21	2	0.13
(1,539)	1:45:A:LEU:HD11	1:207:A:VAL:HG22	2	0.13
(1,539)	1:45:A:LEU:HD11	1:207:A:VAL:HG23	2	0.13
(1,539)	1:45:A:LEU:HD12	1:207:A:VAL:HG21	2	0.13
(1,539)	1:45:A:LEU:HD12	1:207:A:VAL:HG22	2	0.13
(1,539)	1:45:A:LEU:HD12	1:207:A:VAL:HG23	2	0.13
(1,539)	1:45:A:LEU:HD13	1:207:A:VAL:HG21	2	0.13
(1,539)	1:45:A:LEU:HD13	1:207:A:VAL:HG22	2	0.13
(1,539)	1:45:A:LEU:HD13	1:207:A:VAL:HG23	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD11	5	0.13
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD12	5	0.13
(1,531)	1:45:A:LEU:HD11	1:49:A:ILE:HD13	5	0.13
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD11	5	0.13
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD12	5	0.13
(1,531)	1:45:A:LEU:HD12	1:49:A:ILE:HD13	5	0.13
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD11	5	0.13
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD12	5	0.13
(1,531)	1:45:A:LEU:HD13	1:49:A:ILE:HD13	5	0.13
(1,528)	1:43:A:ILE:HD11	1:128:A:ILE:HD11	7	0.13
(1,528)	1:43:A:ILE:HD11	1:128:A:ILE:HD12	7	0.13
(1,528)	1:43:A:ILE:HD11	1:128:A:ILE:HD13	7	0.13
(1,528)	1:43:A:ILE:HD12	1:128:A:ILE:HD11	7	0.13
(1,528)	1:43:A:ILE:HD12	1:128:A:ILE:HD12	7	0.13
(1,528)	1:43:A:ILE:HD12	1:128:A:ILE:HD13	7	0.13
(1,528)	1:43:A:ILE:HD13	1:128:A:ILE:HD11	7	0.13
(1,528)	1:43:A:ILE:HD13	1:128:A:ILE:HD12	7	0.13
(1,528)	1:43:A:ILE:HD13	1:128:A:ILE:HD13	7	0.13
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG21	3	0.13
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG22	3	0.13
(1,514)	1:29:A:LEU:HD21	1:115:A:THR:HG23	3	0.13
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG21	3	0.13
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG22	3	0.13
(1,514)	1:29:A:LEU:HD22	1:115:A:THR:HG23	3	0.13
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG21	3	0.13
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG22	3	0.13
(1,514)	1:29:A:LEU:HD23	1:115:A:THR:HG23	3	0.13
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD11	4	0.13
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD12	4	0.13
(1,511)	1:29:A:LEU:HD21	1:122:A:LEU:HD13	4	0.13
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD11	4	0.13
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD12	4	0.13
(1,511)	1:29:A:LEU:HD22	1:122:A:LEU:HD13	4	0.13
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD11	4	0.13
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD12	4	0.13
(1,511)	1:29:A:LEU:HD23	1:122:A:LEU:HD13	4	0.13
(1,458)	1:149:A:THR:H	1:187:A:ILE:H	4	0.13
(1,303)	1:104:A:ILE:H	1:106:A:ASN:H	3	0.13
(1,165)	1:95:A:GLY:H	1:96:A:ILE:H	10	0.13
(1,141)	1:69:A:LYS:H	1:70:A:LEU:H	5	0.13
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD11	8	0.13
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD12	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:49:A:ILE:HD11	1:91:A:ILE:HD13	8	0.13
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD11	8	0.13
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD12	8	0.13
(1,92)	1:49:A:ILE:HD12	1:91:A:ILE:HD13	8	0.13
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD11	8	0.13
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD12	8	0.13
(1,92)	1:49:A:ILE:HD13	1:91:A:ILE:HD13	8	0.13
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	7	0.13
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	7	0.13
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	7	0.13
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	7	0.13
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	7	0.13
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	7	0.13
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	7	0.13
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	7	0.13
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	7	0.13
(1,57)	1:110:A:ILE:HD11	1:109:A:THR:HG21	7	0.13
(1,57)	1:110:A:ILE:HD11	1:109:A:THR:HG22	7	0.13
(1,57)	1:110:A:ILE:HD11	1:109:A:THR:HG23	7	0.13
(1,57)	1:110:A:ILE:HD12	1:109:A:THR:HG21	7	0.13
(1,57)	1:110:A:ILE:HD12	1:109:A:THR:HG22	7	0.13
(1,57)	1:110:A:ILE:HD12	1:109:A:THR:HG23	7	0.13
(1,57)	1:110:A:ILE:HD13	1:109:A:THR:HG21	7	0.13
(1,57)	1:110:A:ILE:HD13	1:109:A:THR:HG22	7	0.13
(1,57)	1:110:A:ILE:HD13	1:109:A:THR:HG23	7	0.13
(1,52)	1:131:A:ILE:HD11	1:136:A:VAL:HG11	6	0.13
(1,52)	1:131:A:ILE:HD11	1:136:A:VAL:HG12	6	0.13
(1,52)	1:131:A:ILE:HD11	1:136:A:VAL:HG13	6	0.13
(1,52)	1:131:A:ILE:HD12	1:136:A:VAL:HG11	6	0.13
(1,52)	1:131:A:ILE:HD12	1:136:A:VAL:HG12	6	0.13
(1,52)	1:131:A:ILE:HD12	1:136:A:VAL:HG13	6	0.13
(1,52)	1:131:A:ILE:HD13	1:136:A:VAL:HG11	6	0.13
(1,52)	1:131:A:ILE:HD13	1:136:A:VAL:HG12	6	0.13
(1,52)	1:131:A:ILE:HD13	1:136:A:VAL:HG13	6	0.13
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	6	0.13
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	6	0.13
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	6	0.13
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	6	0.13
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	6	0.13
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	6	0.13
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	6	0.13
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	6	0.13
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE1	10	0.13
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE2	10	0.13
(1,41)	1:122:A:LEU:HD11	1:119:A:MET:HE3	10	0.13
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE1	10	0.13
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE2	10	0.13
(1,41)	1:122:A:LEU:HD12	1:119:A:MET:HE3	10	0.13
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE1	10	0.13
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE2	10	0.13
(1,41)	1:122:A:LEU:HD13	1:119:A:MET:HE3	10	0.13
(1,32)	1:103:A:LEU:HD21	1:172:A:VAL:HG21	6	0.13
(1,32)	1:103:A:LEU:HD21	1:172:A:VAL:HG22	6	0.13
(1,32)	1:103:A:LEU:HD21	1:172:A:VAL:HG23	6	0.13
(1,32)	1:103:A:LEU:HD22	1:172:A:VAL:HG21	6	0.13
(1,32)	1:103:A:LEU:HD22	1:172:A:VAL:HG22	6	0.13
(1,32)	1:103:A:LEU:HD22	1:172:A:VAL:HG23	6	0.13
(1,32)	1:103:A:LEU:HD23	1:172:A:VAL:HG21	6	0.13
(1,32)	1:103:A:LEU:HD23	1:172:A:VAL:HG22	6	0.13
(1,32)	1:103:A:LEU:HD23	1:172:A:VAL:HG23	6	0.13
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG21	6	0.13
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG22	6	0.13
(1,6)	1:29:A:LEU:HD11	1:136:A:VAL:HG23	6	0.13
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG21	6	0.13
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG22	6	0.13
(1,6)	1:29:A:LEU:HD12	1:136:A:VAL:HG23	6	0.13
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG21	6	0.13
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG22	6	0.13
(1,6)	1:29:A:LEU:HD13	1:136:A:VAL:HG23	6	0.13
(1,2)	1:26:A:ILE:HD11	1:111:A:ALA:HB1	3	0.13
(1,2)	1:26:A:ILE:HD11	1:111:A:ALA:HB2	3	0.13
(1,2)	1:26:A:ILE:HD11	1:111:A:ALA:HB3	3	0.13
(1,2)	1:26:A:ILE:HD12	1:111:A:ALA:HB1	3	0.13
(1,2)	1:26:A:ILE:HD12	1:111:A:ALA:HB2	3	0.13
(1,2)	1:26:A:ILE:HD12	1:111:A:ALA:HB3	3	0.13
(1,2)	1:26:A:ILE:HD13	1:111:A:ALA:HB1	3	0.13
(1,2)	1:26:A:ILE:HD13	1:111:A:ALA:HB2	3	0.13
(1,2)	1:26:A:ILE:HD13	1:111:A:ALA:HB3	3	0.13
(1,1863)	1:133:A:GLN:H	1:130:A:MET:HA	1	0.12
(1,1863)	1:133:A:GLN:H	1:130:A:MET:HA	3	0.12
(1,1737)	1:170:A:PHE:H	1:21:A:ALA:HA	2	0.12
(1,1734)	1:169:A:SER:H	1:21:A:ALA:HA	4	0.12
(1,1733)	1:164:A:SER:H	1:170:A:PHE:HA	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1725)	1:162:A:TRP:H	1:172:A:VAL:HA	5	0.12
(1,1708)	1:152:A:THR:H	1:161:A:ALA:HA	3	0.12
(1,1706)	1:152:A:THR:H	1:159:A:GLN:HA	3	0.12
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA2	9	0.12
(1,1657)	1:22:A:PHE:H	1:168:A:GLY:HA3	9	0.12
(1,1653)	1:20:A:PHE:H	1:169:A:SER:HA	9	0.12
(1,1554)	1:48:A:LEU:H	1:45:A:LEU:HA	9	0.12
(1,1495)	1:72:A:SER:H	1:70:A:LEU:HA	2	0.12
(1,1495)	1:72:A:SER:H	1:70:A:LEU:HA	3	0.12
(1,1470)	1:45:A:LEU:H	1:43:A:ILE:HA	7	0.12
(1,1467)	1:41:A:LYS:H	1:39:A:SER:HA	4	0.12
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA2	5	0.12
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA3	5	0.12
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA2	6	0.12
(1,1375)	1:96:A:ILE:H	1:95:A:GLY:HA3	6	0.12
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA2	2	0.12
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA3	2	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD11	7	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD12	7	0.12
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD13	7	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD11	10	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD12	10	0.12
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD13	10	0.12
(1,1086)	1:198:A:LEU:H	1:203:A:ILE:HD11	9	0.12
(1,1086)	1:198:A:LEU:H	1:203:A:ILE:HD12	9	0.12
(1,1086)	1:198:A:LEU:H	1:203:A:ILE:HD13	9	0.12
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD11	3	0.12
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD12	3	0.12
(1,1074)	1:194:A:GLN:H	1:190:A:LEU:HD13	3	0.12
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG21	10	0.12
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG22	10	0.12
(1,1058)	1:189:A:HIS:H	1:88:A:THR:HG23	10	0.12
(1,1050)	1:188:A:LEU:H	1:89:A:LEU:HD21	9	0.12
(1,1050)	1:188:A:LEU:H	1:89:A:LEU:HD22	9	0.12
(1,1050)	1:188:A:LEU:H	1:89:A:LEU:HD23	9	0.12
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG21	7	0.12
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG22	7	0.12
(1,1038)	1:186:A:VAL:H	1:150:A:VAL:HG23	7	0.12
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG11	5	0.12
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG12	5	0.12
(1,1037)	1:186:A:VAL:H	1:150:A:VAL:HG13	5	0.12
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG21	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG22	9	0.12
(1,1018)	1:173:A:ARG:H	1:172:A:VAL:HG23	9	0.12
(1,1017)	1:173:A:ARG:H	1:172:A:VAL:HG11	3	0.12
(1,1017)	1:173:A:ARG:H	1:172:A:VAL:HG12	3	0.12
(1,1017)	1:173:A:ARG:H	1:172:A:VAL:HG13	3	0.12
(1,1008)	1:169:A:SER:H	1:30:A:MET:HE1	4	0.12
(1,1008)	1:169:A:SER:H	1:30:A:MET:HE2	4	0.12
(1,1008)	1:169:A:SER:H	1:30:A:MET:HE3	4	0.12
(1,1002)	1:163:A:GLU:H	1:149:A:THR:HG21	10	0.12
(1,1002)	1:163:A:GLU:H	1:149:A:THR:HG22	10	0.12
(1,1002)	1:163:A:GLU:H	1:149:A:THR:HG23	10	0.12
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG21	8	0.12
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG22	8	0.12
(1,977)	1:151:A:ILE:H	1:149:A:THR:HG23	8	0.12
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	1	0.12
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	1	0.12
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	1	0.12
(1,958)	1:145:A:ALA:H	1:188:A:LEU:HD21	9	0.12
(1,958)	1:145:A:ALA:H	1:188:A:LEU:HD22	9	0.12
(1,958)	1:145:A:ALA:H	1:188:A:LEU:HD23	9	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG21	10	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG22	10	0.12
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG23	10	0.12
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG11	8	0.12
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG12	8	0.12
(1,927)	1:134:A:PHE:H	1:136:A:VAL:HG13	8	0.12
(1,919)	1:126:A:ALA:H	1:130:A:MET:HE1	8	0.12
(1,919)	1:126:A:ALA:H	1:130:A:MET:HE2	8	0.12
(1,919)	1:126:A:ALA:H	1:130:A:MET:HE3	8	0.12
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD21	9	0.12
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD22	9	0.12
(1,911)	1:123:A:GLN:H	1:122:A:LEU:HD23	9	0.12
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG21	8	0.12
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG22	8	0.12
(1,889)	1:101:A:ALA:H	1:99:A:THR:HG23	8	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG21	3	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG22	3	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG23	3	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG21	10	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG22	10	0.12
(1,882)	1:93:A:ASP:H	1:184:A:THR:HG23	10	0.12
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD21	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD22	4	0.12
(1,850)	1:83:A:ASN:H	1:198:A:LEU:HD23	4	0.12
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD11	6	0.12
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD12	6	0.12
(1,849)	1:83:A:ASN:H	1:198:A:LEU:HD13	6	0.12
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD11	1	0.12
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD12	1	0.12
(1,845)	1:81:A:ILE:H	1:220:A:LEU:HD13	1	0.12
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	2	0.12
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	2	0.12
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	2	0.12
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD11	2	0.12
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD12	2	0.12
(1,834)	1:80:A:LEU:H	1:81:A:ILE:HD13	2	0.12
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG11	3	0.12
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG12	3	0.12
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG13	3	0.12
(1,757)	1:35:A:ASN:H	1:32:A:LEU:HD11	3	0.12
(1,757)	1:35:A:ASN:H	1:32:A:LEU:HD12	3	0.12
(1,757)	1:35:A:ASN:H	1:32:A:LEU:HD13	3	0.12
(1,748)	1:32:A:LEU:H	1:29:A:LEU:HD11	9	0.12
(1,748)	1:32:A:LEU:H	1:29:A:LEU:HD12	9	0.12
(1,748)	1:32:A:LEU:H	1:29:A:LEU:HD13	9	0.12
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB1	3	0.12
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB2	3	0.12
(1,735)	1:22:A:PHE:H	1:21:A:ALA:HB3	3	0.12
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG11	10	0.12
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG12	10	0.12
(1,733)	1:20:A:PHE:H	1:172:A:VAL:HG13	10	0.12
(1,718)	1:206:A:ILE:H	1:206:A:ILE:HD11	1	0.12
(1,718)	1:206:A:ILE:H	1:206:A:ILE:HD12	1	0.12
(1,718)	1:206:A:ILE:H	1:206:A:ILE:HD13	1	0.12
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG21	3	0.12
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG22	3	0.12
(1,700)	1:144:A:VAL:H	1:144:A:VAL:HG23	3	0.12
(1,699)	1:144:A:VAL:H	1:144:A:VAL:HG11	8	0.12
(1,699)	1:144:A:VAL:H	1:144:A:VAL:HG12	8	0.12
(1,699)	1:144:A:VAL:H	1:144:A:VAL:HG13	8	0.12
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG21	4	0.12
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG22	4	0.12
(1,633)	1:150:A:VAL:HG21	1:186:A:VAL:HG23	4	0.12
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG21	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG22	4	0.12
(1,633)	1:150:A:VAL:HG22	1:186:A:VAL:HG23	4	0.12
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG21	4	0.12
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG22	4	0.12
(1,633)	1:150:A:VAL:HG23	1:186:A:VAL:HG23	4	0.12
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	1	0.12
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	1	0.12
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	1	0.12
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	1	0.12
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	1	0.12
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	1	0.12
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	1	0.12
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	1	0.12
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	1	0.12
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG11	10	0.12
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG12	10	0.12
(1,628)	1:150:A:VAL:HG11	1:186:A:VAL:HG13	10	0.12
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG11	10	0.12
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG12	10	0.12
(1,628)	1:150:A:VAL:HG12	1:186:A:VAL:HG13	10	0.12
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG11	10	0.12
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG12	10	0.12
(1,628)	1:150:A:VAL:HG13	1:186:A:VAL:HG13	10	0.12
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD11	8	0.12
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD12	8	0.12
(1,627)	1:149:A:THR:HG21	1:187:A:ILE:HD13	8	0.12
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD11	8	0.12
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD12	8	0.12
(1,627)	1:149:A:THR:HG22	1:187:A:ILE:HD13	8	0.12
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD11	8	0.12
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD12	8	0.12
(1,627)	1:149:A:THR:HG23	1:187:A:ILE:HD13	8	0.12
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD21	2	0.12
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD22	2	0.12
(1,619)	1:144:A:VAL:HG21	1:190:A:LEU:HD23	2	0.12
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD21	2	0.12
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD22	2	0.12
(1,619)	1:144:A:VAL:HG22	1:190:A:LEU:HD23	2	0.12
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD21	2	0.12
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD22	2	0.12
(1,619)	1:144:A:VAL:HG23	1:190:A:LEU:HD23	2	0.12
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	7	0.12
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	7	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	7	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	7	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	7	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	7	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	7	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	7	0.12
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG11	10	0.12
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG12	10	0.12
(1,598)	1:91:A:ILE:HD11	1:186:A:VAL:HG13	10	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG11	10	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG12	10	0.12
(1,598)	1:91:A:ILE:HD12	1:186:A:VAL:HG13	10	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG11	10	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG12	10	0.12
(1,598)	1:91:A:ILE:HD13	1:186:A:VAL:HG13	10	0.12
(1,595)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	8	0.12
(1,595)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	8	0.12
(1,595)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	8	0.12
(1,595)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	8	0.12
(1,595)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	8	0.12
(1,595)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	8	0.12
(1,595)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	8	0.12
(1,595)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	8	0.12
(1,595)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	8	0.12
(1,593)	1:89:A:LEU:HD21	1:190:A:LEU:HD21	10	0.12
(1,593)	1:89:A:LEU:HD21	1:190:A:LEU:HD22	10	0.12
(1,593)	1:89:A:LEU:HD21	1:190:A:LEU:HD23	10	0.12
(1,593)	1:89:A:LEU:HD22	1:190:A:LEU:HD21	10	0.12
(1,593)	1:89:A:LEU:HD22	1:190:A:LEU:HD22	10	0.12
(1,593)	1:89:A:LEU:HD22	1:190:A:LEU:HD23	10	0.12
(1,593)	1:89:A:LEU:HD23	1:190:A:LEU:HD21	10	0.12
(1,593)	1:89:A:LEU:HD23	1:190:A:LEU:HD22	10	0.12
(1,593)	1:89:A:LEU:HD23	1:190:A:LEU:HD23	10	0.12
(1,590)	1:89:A:LEU:HD21	1:203:A:ILE:HD11	8	0.12
(1,590)	1:89:A:LEU:HD21	1:203:A:ILE:HD12	8	0.12
(1,590)	1:89:A:LEU:HD21	1:203:A:ILE:HD13	8	0.12
(1,590)	1:89:A:LEU:HD22	1:203:A:ILE:HD11	8	0.12
(1,590)	1:89:A:LEU:HD22	1:203:A:ILE:HD12	8	0.12
(1,590)	1:89:A:LEU:HD22	1:203:A:ILE:HD13	8	0.12
(1,590)	1:89:A:LEU:HD23	1:203:A:ILE:HD11	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:89:A:LEU:HD23	1:203:A:ILE:HD12	8	0.12
(1,590)	1:89:A:LEU:HD23	1:203:A:ILE:HD13	8	0.12
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG21	3	0.12
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG22	3	0.12
(1,587)	1:81:A:ILE:HD11	1:92:A:VAL:HG23	3	0.12
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG21	3	0.12
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG22	3	0.12
(1,587)	1:81:A:ILE:HD12	1:92:A:VAL:HG23	3	0.12
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG21	3	0.12
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG22	3	0.12
(1,587)	1:81:A:ILE:HD13	1:92:A:VAL:HG23	3	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD11	9	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD12	9	0.12
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD13	9	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD11	9	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD12	9	0.12
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD13	9	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD11	9	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD12	9	0.12
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD13	9	0.12
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD11	3	0.12
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD12	3	0.12
(1,564)	1:49:A:ILE:HD11	1:218:A:ILE:HD13	3	0.12
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD11	3	0.12
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD12	3	0.12
(1,564)	1:49:A:ILE:HD12	1:218:A:ILE:HD13	3	0.12
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD11	3	0.12
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD12	3	0.12
(1,564)	1:49:A:ILE:HD13	1:218:A:ILE:HD13	3	0.12
(1,557)	1:48:A:LEU:HD21	1:188:A:LEU:HD11	1	0.12
(1,557)	1:48:A:LEU:HD21	1:188:A:LEU:HD12	1	0.12
(1,557)	1:48:A:LEU:HD21	1:188:A:LEU:HD13	1	0.12
(1,557)	1:48:A:LEU:HD22	1:188:A:LEU:HD11	1	0.12
(1,557)	1:48:A:LEU:HD22	1:188:A:LEU:HD12	1	0.12
(1,557)	1:48:A:LEU:HD22	1:188:A:LEU:HD13	1	0.12
(1,557)	1:48:A:LEU:HD23	1:188:A:LEU:HD11	1	0.12
(1,557)	1:48:A:LEU:HD23	1:188:A:LEU:HD12	1	0.12
(1,557)	1:48:A:LEU:HD23	1:188:A:LEU:HD13	1	0.12
(1,552)	1:48:A:LEU:HD11	1:186:A:VAL:HG21	9	0.12
(1,552)	1:48:A:LEU:HD11	1:186:A:VAL:HG22	9	0.12
(1,552)	1:48:A:LEU:HD11	1:186:A:VAL:HG23	9	0.12
(1,552)	1:48:A:LEU:HD12	1:186:A:VAL:HG21	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,552)	1:48:A:LEU:HD12	1:186:A:VAL:HG22	9	0.12
(1,552)	1:48:A:LEU:HD12	1:186:A:VAL:HG23	9	0.12
(1,552)	1:48:A:LEU:HD13	1:186:A:VAL:HG21	9	0.12
(1,552)	1:48:A:LEU:HD13	1:186:A:VAL:HG22	9	0.12
(1,552)	1:48:A:LEU:HD13	1:186:A:VAL:HG23	9	0.12
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD21	10	0.12
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD22	10	0.12
(1,524)	1:32:A:LEU:HD11	1:122:A:LEU:HD23	10	0.12
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD21	10	0.12
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD22	10	0.12
(1,524)	1:32:A:LEU:HD12	1:122:A:LEU:HD23	10	0.12
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD21	10	0.12
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD22	10	0.12
(1,524)	1:32:A:LEU:HD13	1:122:A:LEU:HD23	10	0.12
(1,518)	1:32:A:LEU:HD11	1:119:A:MET:HE1	1	0.12
(1,518)	1:32:A:LEU:HD11	1:119:A:MET:HE2	1	0.12
(1,518)	1:32:A:LEU:HD11	1:119:A:MET:HE3	1	0.12
(1,518)	1:32:A:LEU:HD12	1:119:A:MET:HE1	1	0.12
(1,518)	1:32:A:LEU:HD12	1:119:A:MET:HE2	1	0.12
(1,518)	1:32:A:LEU:HD12	1:119:A:MET:HE3	1	0.12
(1,518)	1:32:A:LEU:HD13	1:119:A:MET:HE1	1	0.12
(1,518)	1:32:A:LEU:HD13	1:119:A:MET:HE2	1	0.12
(1,518)	1:32:A:LEU:HD13	1:119:A:MET:HE3	1	0.12
(1,414)	1:211:A:SER:H	1:214:A:ILE:H	5	0.12
(1,395)	1:136:A:VAL:H	1:139:A:TYR:H	9	0.12
(1,393)	1:133:A:GLN:H	1:136:A:VAL:H	5	0.12
(1,379)	1:68:A:SER:H	1:71:A:ASP:H	6	0.12
(1,346)	1:213:A:PHE:H	1:215:A:GLY:H	9	0.12
(1,344)	1:211:A:SER:H	1:213:A:PHE:H	2	0.12
(1,170)	1:105:A:ASN:H	1:106:A:ASN:H	4	0.12
(1,115)	1:41:A:LYS:H	1:42:A:GLU:H	7	0.12
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD21	5	0.12
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD22	5	0.12
(1,83)	1:122:A:LEU:HD21	1:29:A:LEU:HD23	5	0.12
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD21	5	0.12
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD22	5	0.12
(1,83)	1:122:A:LEU:HD22	1:29:A:LEU:HD23	5	0.12
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD21	5	0.12
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD22	5	0.12
(1,83)	1:122:A:LEU:HD23	1:29:A:LEU:HD23	5	0.12
(1,79)	1:48:A:LEU:HD21	1:144:A:VAL:HG11	3	0.12
(1,79)	1:48:A:LEU:HD21	1:144:A:VAL:HG12	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:48:A:LEU:HD21	1:144:A:VAL:HG13	3	0.12
(1,79)	1:48:A:LEU:HD22	1:144:A:VAL:HG11	3	0.12
(1,79)	1:48:A:LEU:HD22	1:144:A:VAL:HG12	3	0.12
(1,79)	1:48:A:LEU:HD22	1:144:A:VAL:HG13	3	0.12
(1,79)	1:48:A:LEU:HD23	1:144:A:VAL:HG11	3	0.12
(1,79)	1:48:A:LEU:HD23	1:144:A:VAL:HG12	3	0.12
(1,79)	1:48:A:LEU:HD23	1:144:A:VAL:HG13	3	0.12
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD11	4	0.12
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD12	4	0.12
(1,74)	1:89:A:LEU:HD11	1:203:A:ILE:HD13	4	0.12
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD11	4	0.12
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD12	4	0.12
(1,74)	1:89:A:LEU:HD12	1:203:A:ILE:HD13	4	0.12
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD11	4	0.12
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD12	4	0.12
(1,74)	1:89:A:LEU:HD13	1:203:A:ILE:HD13	4	0.12
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG21	3	0.12
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG22	3	0.12
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG23	3	0.12
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG21	3	0.12
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG22	3	0.12
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG23	3	0.12
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG21	3	0.12
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG22	3	0.12
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG23	3	0.12
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD11	1	0.12
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD12	1	0.12
(1,60)	1:89:A:LEU:HD21	1:198:A:LEU:HD13	1	0.12
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD11	1	0.12
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD12	1	0.12
(1,60)	1:89:A:LEU:HD22	1:198:A:LEU:HD13	1	0.12
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD11	1	0.12
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD12	1	0.12
(1,60)	1:89:A:LEU:HD23	1:198:A:LEU:HD13	1	0.12
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD21	8	0.12
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD22	8	0.12
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD23	8	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD21	8	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD22	8	0.12
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD23	8	0.12
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD21	8	0.12
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD22	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD23	8	0.12
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD11	5	0.12
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD12	5	0.12
(1,54)	1:143:A:LEU:HD11	1:131:A:ILE:HD13	5	0.12
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD11	5	0.12
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD12	5	0.12
(1,54)	1:143:A:LEU:HD12	1:131:A:ILE:HD13	5	0.12
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD11	5	0.12
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD12	5	0.12
(1,54)	1:143:A:LEU:HD13	1:131:A:ILE:HD13	5	0.12
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD11	1	0.12
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD12	1	0.12
(1,47)	1:122:A:LEU:HD11	1:128:A:ILE:HD13	1	0.12
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD11	1	0.12
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD12	1	0.12
(1,47)	1:122:A:LEU:HD12	1:128:A:ILE:HD13	1	0.12
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD11	1	0.12
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD12	1	0.12
(1,47)	1:122:A:LEU:HD13	1:128:A:ILE:HD13	1	0.12
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	8	0.12
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	8	0.12
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	8	0.12
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	8	0.12
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	8	0.12
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	8	0.12
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	8	0.12
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	8	0.12
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	8	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG11	1	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG12	1	0.12
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG13	1	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG11	1	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG12	1	0.12
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG13	1	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG11	1	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG12	1	0.12
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG13	1	0.12
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG11	6	0.12
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG12	6	0.12
(1,8)	1:29:A:LEU:HD21	1:136:A:VAL:HG13	6	0.12
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG11	6	0.12
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG12	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:29:A:LEU:HD22	1:136:A:VAL:HG13	6	0.12
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG11	6	0.12
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG12	6	0.12
(1,8)	1:29:A:LEU:HD23	1:136:A:VAL:HG13	6	0.12
(1,1852)	1:114:A:GLY:H	1:111:A:ALA:HA	5	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA2	3	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA3	3	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA2	6	0.11
(1,1792)	1:114:A:GLY:H	1:114:A:GLY:HA3	6	0.11
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA2	2	0.11
(1,1787)	1:97:A:GLY:H	1:183:A:GLY:HA3	2	0.11
(1,1774)	1:188:A:LEU:H	1:90:A:THR:HA	9	0.11
(1,1724)	1:162:A:TRP:H	1:151:A:ILE:HA	1	0.11
(1,1687)	1:94:A:THR:H	1:78:A:ILE:HA	8	0.11
(1,1683)	1:92:A:VAL:H	1:80:A:LEU:HA	3	0.11
(1,1665)	1:79:A:ASN:H	1:218:A:ILE:HA	9	0.11
(1,1628)	1:65:A:THR:H	1:61:A:TYR:HA	9	0.11
(1,1626)	1:63:A:SER:H	1:59:A:ILE:HA	10	0.11
(1,1625)	1:62:A:GLU:H	1:58:A:LYS:HA	4	0.11
(1,1608)	1:36:A:THR:H	1:32:A:LEU:HA	10	0.11
(1,1587)	1:197:A:TYR:H	1:194:A:GLN:HA	8	0.11
(1,1580)	1:105:A:ASN:H	1:102:A:ASP:HA	7	0.11
(1,1579)	1:104:A:ILE:H	1:101:A:ALA:HA	7	0.11
(1,1536)	1:211:A:SER:H	1:209:A:LYS:HA	2	0.11
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA2	10	0.11
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA3	10	0.11
(1,1500)	1:87:A:ARG:H	1:85:A:GLN:HA	4	0.11
(1,1470)	1:45:A:LEU:H	1:43:A:ILE:HA	3	0.11
(1,1415)	1:177:A:GLY:H	1:176:A:THR:HA	9	0.11
(1,1390)	1:145:A:ALA:H	1:144:A:VAL:HA	10	0.11
(1,1386)	1:139:A:TYR:H	1:138:A:PHE:HA	3	0.11
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	6	0.11
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	6	0.11
(1,1324)	1:39:A:SER:H	1:38:A:TYR:HA	2	0.11
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD21	3	0.11
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD22	3	0.11
(1,1144)	1:123:A:GLN:HE21	1:122:A:LEU:HD23	3	0.11
(1,1125)	1:216:A:TYR:H	1:78:A:ILE:HD11	10	0.11
(1,1125)	1:216:A:TYR:H	1:78:A:ILE:HD12	10	0.11
(1,1125)	1:216:A:TYR:H	1:78:A:ILE:HD13	10	0.11
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD11	2	0.11
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD12	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD13	2	0.11
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD11	8	0.11
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD12	8	0.11
(1,1090)	1:200:A:GLU:H	1:203:A:ILE:HD13	8	0.11
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD11	8	0.11
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD12	8	0.11
(1,1088)	1:199:A:GLU:H	1:198:A:LEU:HD13	8	0.11
(1,1066)	1:190:A:LEU:H	1:198:A:LEU:HD11	10	0.11
(1,1066)	1:190:A:LEU:H	1:198:A:LEU:HD12	10	0.11
(1,1066)	1:190:A:LEU:H	1:198:A:LEU:HD13	10	0.11
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG21	1	0.11
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG22	1	0.11
(1,1040)	1:187:A:ILE:H	1:90:A:THR:HG23	1	0.11
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB1	8	0.11
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB2	8	0.11
(1,1019)	1:175:A:ASP:H	1:161:A:ALA:HB3	8	0.11
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG21	7	0.11
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG22	7	0.11
(1,1012)	1:172:A:VAL:H	1:17:A:VAL:HG23	7	0.11
(1,1003)	1:163:A:GLU:H	1:161:A:ALA:HB1	9	0.11
(1,1003)	1:163:A:GLU:H	1:161:A:ALA:HB2	9	0.11
(1,1003)	1:163:A:GLU:H	1:161:A:ALA:HB3	9	0.11
(1,999)	1:162:A:TRP:H	1:161:A:ALA:HB1	7	0.11
(1,999)	1:162:A:TRP:H	1:161:A:ALA:HB2	7	0.11
(1,999)	1:162:A:TRP:H	1:161:A:ALA:HB3	7	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	3	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	3	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	3	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG11	6	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG12	6	0.11
(1,967)	1:149:A:THR:H	1:186:A:VAL:HG13	6	0.11
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG21	9	0.11
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG22	9	0.11
(1,950)	1:143:A:LEU:H	1:144:A:VAL:HG23	9	0.11
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB1	9	0.11
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB2	9	0.11
(1,943)	1:142:A:TYR:H	1:141:A:ALA:HB3	9	0.11
(1,936)	1:139:A:TYR:H	1:131:A:ILE:HD11	3	0.11
(1,936)	1:139:A:TYR:H	1:131:A:ILE:HD12	3	0.11
(1,936)	1:139:A:TYR:H	1:131:A:ILE:HD13	3	0.11
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD11	8	0.11
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD12	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,935)	1:139:A:TYR:H	1:48:A:LEU:HD13	8	0.11
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD11	8	0.11
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD12	8	0.11
(1,924)	1:128:A:ILE:H	1:122:A:LEU:HD13	8	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB1	6	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB2	6	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB3	6	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB1	10	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB2	10	0.11
(1,918)	1:126:A:ALA:H	1:124:A:ALA:HB3	10	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG21	1	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG22	1	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG23	1	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG21	2	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG22	2	0.11
(1,877)	1:92:A:VAL:H	1:90:A:THR:HG23	2	0.11
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD21	1	0.11
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD22	1	0.11
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD23	1	0.11
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD11	7	0.11
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD12	7	0.11
(1,853)	1:85:A:GLN:H	1:198:A:LEU:HD13	7	0.11
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG21	9	0.11
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG22	9	0.11
(1,841)	1:81:A:ILE:H	1:90:A:THR:HG23	9	0.11
(1,832)	1:79:A:ASN:H	1:92:A:VAL:HG11	4	0.11
(1,832)	1:79:A:ASN:H	1:92:A:VAL:HG12	4	0.11
(1,832)	1:79:A:ASN:H	1:92:A:VAL:HG13	4	0.11
(1,782)	1:53:A:SER:H	1:214:A:ILE:HD11	4	0.11
(1,782)	1:53:A:SER:H	1:214:A:ILE:HD12	4	0.11
(1,782)	1:53:A:SER:H	1:214:A:ILE:HD13	4	0.11
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG11	8	0.11
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG12	8	0.11
(1,767)	1:44:A:PHE:H	1:144:A:VAL:HG13	8	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD11	2	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD12	2	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD13	2	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD11	4	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD12	4	0.11
(1,759)	1:42:A:GLU:H	1:43:A:ILE:HD13	4	0.11
(1,744)	1:29:A:LEU:H	1:119:A:MET:HE1	5	0.11
(1,744)	1:29:A:LEU:H	1:119:A:MET:HE2	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,744)	1:29:A:LEU:H	1:119:A:MET:HE3	5	0.11
(1,732)	1:20:A:PHE:H	1:171:A:THR:HG21	9	0.11
(1,732)	1:20:A:PHE:H	1:171:A:THR:HG22	9	0.11
(1,732)	1:20:A:PHE:H	1:171:A:THR:HG23	9	0.11
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD11	7	0.11
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD12	7	0.11
(1,660)	1:26:A:ILE:H	1:26:A:ILE:HD13	7	0.11
(1,655)	1:220:A:LEU:HD11	1:222:A:VAL:HG21	4	0.11
(1,655)	1:220:A:LEU:HD11	1:222:A:VAL:HG22	4	0.11
(1,655)	1:220:A:LEU:HD11	1:222:A:VAL:HG23	4	0.11
(1,655)	1:220:A:LEU:HD12	1:222:A:VAL:HG21	4	0.11
(1,655)	1:220:A:LEU:HD12	1:222:A:VAL:HG22	4	0.11
(1,655)	1:220:A:LEU:HD12	1:222:A:VAL:HG23	4	0.11
(1,655)	1:220:A:LEU:HD13	1:222:A:VAL:HG21	4	0.11
(1,655)	1:220:A:LEU:HD13	1:222:A:VAL:HG22	4	0.11
(1,655)	1:220:A:LEU:HD13	1:222:A:VAL:HG23	4	0.11
(1,647)	1:195:A:THR:HG21	1:198:A:LEU:HD11	5	0.11
(1,647)	1:195:A:THR:HG21	1:198:A:LEU:HD12	5	0.11
(1,647)	1:195:A:THR:HG21	1:198:A:LEU:HD13	5	0.11
(1,647)	1:195:A:THR:HG22	1:198:A:LEU:HD11	5	0.11
(1,647)	1:195:A:THR:HG22	1:198:A:LEU:HD12	5	0.11
(1,647)	1:195:A:THR:HG22	1:198:A:LEU:HD13	5	0.11
(1,647)	1:195:A:THR:HG23	1:198:A:LEU:HD11	5	0.11
(1,647)	1:195:A:THR:HG23	1:198:A:LEU:HD12	5	0.11
(1,647)	1:195:A:THR:HG23	1:198:A:LEU:HD13	5	0.11
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD21	10	0.11
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD22	10	0.11
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD23	10	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD21	10	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD22	10	0.11
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD23	10	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD21	10	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD22	10	0.11
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD23	10	0.11
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD21	4	0.11
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD22	4	0.11
(1,640)	1:186:A:VAL:HG11	1:188:A:LEU:HD23	4	0.11
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD21	4	0.11
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD22	4	0.11
(1,640)	1:186:A:VAL:HG12	1:188:A:LEU:HD23	4	0.11
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD21	4	0.11
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD22	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,640)	1:186:A:VAL:HG13	1:188:A:LEU:HD23	4	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG11	7	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG12	7	0.11
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG13	7	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG11	7	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG12	7	0.11
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG13	7	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG11	7	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG12	7	0.11
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG13	7	0.11
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD11	7	0.11
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD12	7	0.11
(1,581)	1:80:A:LEU:HD11	1:220:A:LEU:HD13	7	0.11
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD11	7	0.11
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD12	7	0.11
(1,581)	1:80:A:LEU:HD12	1:220:A:LEU:HD13	7	0.11
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD11	7	0.11
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD12	7	0.11
(1,581)	1:80:A:LEU:HD13	1:220:A:LEU:HD13	7	0.11
(1,549)	1:48:A:LEU:HD11	1:91:A:ILE:HD11	3	0.11
(1,549)	1:48:A:LEU:HD11	1:91:A:ILE:HD12	3	0.11
(1,549)	1:48:A:LEU:HD11	1:91:A:ILE:HD13	3	0.11
(1,549)	1:48:A:LEU:HD12	1:91:A:ILE:HD11	3	0.11
(1,549)	1:48:A:LEU:HD12	1:91:A:ILE:HD12	3	0.11
(1,549)	1:48:A:LEU:HD12	1:91:A:ILE:HD13	3	0.11
(1,549)	1:48:A:LEU:HD13	1:91:A:ILE:HD11	3	0.11
(1,549)	1:48:A:LEU:HD13	1:91:A:ILE:HD12	3	0.11
(1,549)	1:48:A:LEU:HD13	1:91:A:ILE:HD13	3	0.11
(1,527)	1:34:A:ILE:HD11	1:166:A:ALA:HB1	5	0.11
(1,527)	1:34:A:ILE:HD11	1:166:A:ALA:HB2	5	0.11
(1,527)	1:34:A:ILE:HD11	1:166:A:ALA:HB3	5	0.11
(1,527)	1:34:A:ILE:HD12	1:166:A:ALA:HB1	5	0.11
(1,527)	1:34:A:ILE:HD12	1:166:A:ALA:HB2	5	0.11
(1,527)	1:34:A:ILE:HD12	1:166:A:ALA:HB3	5	0.11
(1,527)	1:34:A:ILE:HD13	1:166:A:ALA:HB1	5	0.11
(1,527)	1:34:A:ILE:HD13	1:166:A:ALA:HB2	5	0.11
(1,527)	1:34:A:ILE:HD13	1:166:A:ALA:HB3	5	0.11
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG21	4	0.11
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG22	4	0.11
(1,509)	1:29:A:LEU:HD11	1:115:A:THR:HG23	4	0.11
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG21	4	0.11
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG22	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:29:A:LEU:HD12	1:115:A:THR:HG23	4	0.11
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG21	4	0.11
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG22	4	0.11
(1,509)	1:29:A:LEU:HD13	1:115:A:THR:HG23	4	0.11
(1,458)	1:149:A:THR:H	1:187:A:ILE:H	1	0.11
(1,432)	1:77:A:HIS:H	1:95:A:GLY:H	1	0.11
(1,316)	1:139:A:TYR:H	1:141:A:ALA:H	3	0.11
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	7	0.11
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	7	0.11
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	7	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	7	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	7	0.11
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	7	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	7	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	7	0.11
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	7	0.11
(1,75)	1:80:A:LEU:HD21	1:207:A:VAL:HG21	9	0.11
(1,75)	1:80:A:LEU:HD21	1:207:A:VAL:HG22	9	0.11
(1,75)	1:80:A:LEU:HD21	1:207:A:VAL:HG23	9	0.11
(1,75)	1:80:A:LEU:HD22	1:207:A:VAL:HG21	9	0.11
(1,75)	1:80:A:LEU:HD22	1:207:A:VAL:HG22	9	0.11
(1,75)	1:80:A:LEU:HD22	1:207:A:VAL:HG23	9	0.11
(1,75)	1:80:A:LEU:HD23	1:207:A:VAL:HG21	9	0.11
(1,75)	1:80:A:LEU:HD23	1:207:A:VAL:HG22	9	0.11
(1,75)	1:80:A:LEU:HD23	1:207:A:VAL:HG23	9	0.11
(1,73)	1:89:A:LEU:HD11	1:206:A:ILE:HD11	4	0.11
(1,73)	1:89:A:LEU:HD11	1:206:A:ILE:HD12	4	0.11
(1,73)	1:89:A:LEU:HD11	1:206:A:ILE:HD13	4	0.11
(1,73)	1:89:A:LEU:HD12	1:206:A:ILE:HD11	4	0.11
(1,73)	1:89:A:LEU:HD12	1:206:A:ILE:HD12	4	0.11
(1,73)	1:89:A:LEU:HD12	1:206:A:ILE:HD13	4	0.11
(1,73)	1:89:A:LEU:HD13	1:206:A:ILE:HD11	4	0.11
(1,73)	1:89:A:LEU:HD13	1:206:A:ILE:HD12	4	0.11
(1,73)	1:89:A:LEU:HD13	1:206:A:ILE:HD13	4	0.11
(1,68)	1:80:A:LEU:HD11	1:89:A:LEU:HD21	10	0.11
(1,68)	1:80:A:LEU:HD11	1:89:A:LEU:HD22	10	0.11
(1,68)	1:80:A:LEU:HD11	1:89:A:LEU:HD23	10	0.11
(1,68)	1:80:A:LEU:HD12	1:89:A:LEU:HD21	10	0.11
(1,68)	1:80:A:LEU:HD12	1:89:A:LEU:HD22	10	0.11
(1,68)	1:80:A:LEU:HD12	1:89:A:LEU:HD23	10	0.11
(1,68)	1:80:A:LEU:HD13	1:89:A:LEU:HD21	10	0.11
(1,68)	1:80:A:LEU:HD13	1:89:A:LEU:HD22	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:80:A:LEU:HD13	1:89:A:LEU:HD23	10	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD21	4	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD22	4	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD23	4	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD21	4	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD22	4	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD23	4	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD21	4	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD22	4	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD23	4	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD21	7	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD22	7	0.11
(1,59)	1:89:A:LEU:HD21	1:188:A:LEU:HD23	7	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD21	7	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD22	7	0.11
(1,59)	1:89:A:LEU:HD22	1:188:A:LEU:HD23	7	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD21	7	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD22	7	0.11
(1,59)	1:89:A:LEU:HD23	1:188:A:LEU:HD23	7	0.11
(1,53)	1:131:A:ILE:HD11	1:136:A:VAL:HG21	9	0.11
(1,53)	1:131:A:ILE:HD11	1:136:A:VAL:HG22	9	0.11
(1,53)	1:131:A:ILE:HD11	1:136:A:VAL:HG23	9	0.11
(1,53)	1:131:A:ILE:HD12	1:136:A:VAL:HG21	9	0.11
(1,53)	1:131:A:ILE:HD12	1:136:A:VAL:HG22	9	0.11
(1,53)	1:131:A:ILE:HD12	1:136:A:VAL:HG23	9	0.11
(1,53)	1:131:A:ILE:HD13	1:136:A:VAL:HG21	9	0.11
(1,53)	1:131:A:ILE:HD13	1:136:A:VAL:HG22	9	0.11
(1,53)	1:131:A:ILE:HD13	1:136:A:VAL:HG23	9	0.11
(1,45)	1:121:A:ALA:HB1	1:130:A:MET:HE1	3	0.11
(1,45)	1:121:A:ALA:HB1	1:130:A:MET:HE2	3	0.11
(1,45)	1:121:A:ALA:HB1	1:130:A:MET:HE3	3	0.11
(1,45)	1:121:A:ALA:HB2	1:130:A:MET:HE1	3	0.11
(1,45)	1:121:A:ALA:HB2	1:130:A:MET:HE2	3	0.11
(1,45)	1:121:A:ALA:HB2	1:130:A:MET:HE3	3	0.11
(1,45)	1:121:A:ALA:HB3	1:130:A:MET:HE1	3	0.11
(1,45)	1:121:A:ALA:HB3	1:130:A:MET:HE2	3	0.11
(1,45)	1:121:A:ALA:HB3	1:130:A:MET:HE3	3	0.11
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD11	7	0.11
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD12	7	0.11
(1,43)	1:121:A:ALA:HB1	1:122:A:LEU:HD13	7	0.11
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD11	7	0.11
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD12	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:121:A:ALA:HB2	1:122:A:LEU:HD13	7	0.11
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD11	7	0.11
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD12	7	0.11
(1,43)	1:121:A:ALA:HB3	1:122:A:LEU:HD13	7	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG11	3	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG12	3	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG13	3	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG11	3	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG12	3	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG13	3	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG11	3	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG12	3	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG13	3	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG11	9	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG12	9	0.11
(1,31)	1:103:A:LEU:HD21	1:172:A:VAL:HG13	9	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG11	9	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG12	9	0.11
(1,31)	1:103:A:LEU:HD22	1:172:A:VAL:HG13	9	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG11	9	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG12	9	0.11
(1,31)	1:103:A:LEU:HD23	1:172:A:VAL:HG13	9	0.11
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB1	6	0.11
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB2	6	0.11
(1,18)	1:99:A:THR:HG21	1:101:A:ALA:HB3	6	0.11
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB1	6	0.11
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB2	6	0.11
(1,18)	1:99:A:THR:HG22	1:101:A:ALA:HB3	6	0.11
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB1	6	0.11
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB2	6	0.11
(1,18)	1:99:A:THR:HG23	1:101:A:ALA:HB3	6	0.11
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG21	8	0.11
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG22	8	0.11
(1,16)	1:98:A:MET:HE1	1:152:A:THR:HG23	8	0.11
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG21	8	0.11
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG22	8	0.11
(1,16)	1:98:A:MET:HE2	1:152:A:THR:HG23	8	0.11
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG21	8	0.11
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG22	8	0.11
(1,16)	1:98:A:MET:HE3	1:152:A:THR:HG23	8	0.11
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG21	2	0.11
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG22	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:98:A:MET:HE1	1:150:A:VAL:HG23	2	0.11
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG21	2	0.11
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG22	2	0.11
(1,15)	1:98:A:MET:HE2	1:150:A:VAL:HG23	2	0.11
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG21	2	0.11
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG22	2	0.11
(1,15)	1:98:A:MET:HE3	1:150:A:VAL:HG23	2	0.11
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD11	3	0.11
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD12	3	0.11
(1,12)	1:98:A:MET:HE1	1:107:A:LEU:HD13	3	0.11
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD11	3	0.11
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD12	3	0.11
(1,12)	1:98:A:MET:HE2	1:107:A:LEU:HD13	3	0.11
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD11	3	0.11
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD12	3	0.11
(1,12)	1:98:A:MET:HE3	1:107:A:LEU:HD13	3	0.11
(1,1749)	1:173:A:ARG:H	1:162:A:TRP:HA	8	0.1
(1,1737)	1:170:A:PHE:H	1:21:A:ALA:HA	10	0.1
(1,1727)	1:163:A:GLU:H	1:170:A:PHE:HA	6	0.1
(1,1608)	1:36:A:THR:H	1:32:A:LEU:HA	5	0.1
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA2	6	0.1
(1,1517)	1:169:A:SER:H	1:167:A:GLY:HA3	6	0.1
(1,1467)	1:41:A:LYS:H	1:39:A:SER:HA	3	0.1
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA2	8	0.1
(1,1377)	1:98:A:MET:H	1:97:A:GLY:HA3	8	0.1
(1,1254)	1:166:A:ALA:H	1:166:A:ALA:HA	2	0.1
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA2	5	0.1
(1,1232)	1:137:A:GLY:H	1:137:A:GLY:HA3	5	0.1
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE1	3	0.1
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE2	3	0.1
(1,1150)	1:133:A:GLN:HE22	1:130:A:MET:HE3	3	0.1
(1,1130)	1:220:A:LEU:H	1:219:A:THR:HG21	8	0.1
(1,1130)	1:220:A:LEU:H	1:219:A:THR:HG22	8	0.1
(1,1130)	1:220:A:LEU:H	1:219:A:THR:HG23	8	0.1
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD11	8	0.1
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD12	8	0.1
(1,1102)	1:204:A:LYS:H	1:220:A:LEU:HD13	8	0.1
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD21	8	0.1
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD22	8	0.1
(1,1047)	1:187:A:ILE:H	1:188:A:LEU:HD23	8	0.1
(1,1010)	1:170:A:PHE:H	1:19:A:THR:HG21	2	0.1
(1,1010)	1:170:A:PHE:H	1:19:A:THR:HG22	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:170:A:PHE:H	1:19:A:THR:HG23	2	0.1
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG21	4	0.1
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG22	4	0.1
(1,992)	1:161:A:ALA:H	1:172:A:VAL:HG23	4	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	2	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	2	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	2	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG11	4	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG12	4	0.1
(1,991)	1:161:A:ALA:H	1:172:A:VAL:HG13	4	0.1
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG21	5	0.1
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG22	5	0.1
(1,981)	1:151:A:ILE:H	1:184:A:THR:HG23	5	0.1
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE1	7	0.1
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE2	7	0.1
(1,980)	1:151:A:ILE:H	1:180:A:MET:HE3	7	0.1
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE1	5	0.1
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE2	5	0.1
(1,975)	1:151:A:ILE:H	1:98:A:MET:HE3	5	0.1
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB1	2	0.1
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB2	2	0.1
(1,915)	1:125:A:GLY:H	1:124:A:ALA:HB3	2	0.1
(1,908)	1:122:A:LEU:H	1:126:A:ALA:HB1	9	0.1
(1,908)	1:122:A:LEU:H	1:126:A:ALA:HB2	9	0.1
(1,908)	1:122:A:LEU:H	1:126:A:ALA:HB3	9	0.1
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD21	2	0.1
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD22	2	0.1
(1,875)	1:92:A:VAL:H	1:80:A:LEU:HD23	2	0.1
(1,862)	1:89:A:LEU:H	1:188:A:LEU:HD11	6	0.1
(1,862)	1:89:A:LEU:H	1:188:A:LEU:HD12	6	0.1
(1,862)	1:89:A:LEU:H	1:188:A:LEU:HD13	6	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD11	1	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD12	1	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD13	1	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD11	6	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD12	6	0.1
(1,815)	1:70:A:LEU:H	1:59:A:ILE:HD13	6	0.1
(1,681)	1:80:A:LEU:H	1:80:A:LEU:HD11	1	0.1
(1,681)	1:80:A:LEU:H	1:80:A:LEU:HD12	1	0.1
(1,681)	1:80:A:LEU:H	1:80:A:LEU:HD13	1	0.1
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD21	5	0.1
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD22	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,642)	1:188:A:LEU:HD21	1:190:A:LEU:HD23	5	0.1
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD21	5	0.1
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD22	5	0.1
(1,642)	1:188:A:LEU:HD22	1:190:A:LEU:HD23	5	0.1
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD21	5	0.1
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD22	5	0.1
(1,642)	1:188:A:LEU:HD23	1:190:A:LEU:HD23	5	0.1
(1,632)	1:150:A:VAL:HG21	1:186:A:VAL:HG11	6	0.1
(1,632)	1:150:A:VAL:HG21	1:186:A:VAL:HG12	6	0.1
(1,632)	1:150:A:VAL:HG21	1:186:A:VAL:HG13	6	0.1
(1,632)	1:150:A:VAL:HG22	1:186:A:VAL:HG11	6	0.1
(1,632)	1:150:A:VAL:HG22	1:186:A:VAL:HG12	6	0.1
(1,632)	1:150:A:VAL:HG22	1:186:A:VAL:HG13	6	0.1
(1,632)	1:150:A:VAL:HG23	1:186:A:VAL:HG11	6	0.1
(1,632)	1:150:A:VAL:HG23	1:186:A:VAL:HG12	6	0.1
(1,632)	1:150:A:VAL:HG23	1:186:A:VAL:HG13	6	0.1
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG21	3	0.1
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG22	3	0.1
(1,629)	1:150:A:VAL:HG11	1:186:A:VAL:HG23	3	0.1
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG21	3	0.1
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG22	3	0.1
(1,629)	1:150:A:VAL:HG12	1:186:A:VAL:HG23	3	0.1
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG21	3	0.1
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG22	3	0.1
(1,629)	1:150:A:VAL:HG13	1:186:A:VAL:HG23	3	0.1
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB1	8	0.1
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB2	8	0.1
(1,626)	1:149:A:THR:HG21	1:161:A:ALA:HB3	8	0.1
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB1	8	0.1
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB2	8	0.1
(1,626)	1:149:A:THR:HG22	1:161:A:ALA:HB3	8	0.1
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB1	8	0.1
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB2	8	0.1
(1,626)	1:149:A:THR:HG23	1:161:A:ALA:HB3	8	0.1
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG11	4	0.1
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG12	4	0.1
(1,621)	1:148:A:VAL:HG11	1:186:A:VAL:HG13	4	0.1
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG11	4	0.1
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG12	4	0.1
(1,621)	1:148:A:VAL:HG12	1:186:A:VAL:HG13	4	0.1
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG11	4	0.1
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG12	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:148:A:VAL:HG13	1:186:A:VAL:HG13	4	0.1
(1,583)	1:80:A:LEU:HD21	1:91:A:ILE:HD11	10	0.1
(1,583)	1:80:A:LEU:HD21	1:91:A:ILE:HD12	10	0.1
(1,583)	1:80:A:LEU:HD21	1:91:A:ILE:HD13	10	0.1
(1,583)	1:80:A:LEU:HD22	1:91:A:ILE:HD11	10	0.1
(1,583)	1:80:A:LEU:HD22	1:91:A:ILE:HD12	10	0.1
(1,583)	1:80:A:LEU:HD22	1:91:A:ILE:HD13	10	0.1
(1,583)	1:80:A:LEU:HD23	1:91:A:ILE:HD11	10	0.1
(1,583)	1:80:A:LEU:HD23	1:91:A:ILE:HD12	10	0.1
(1,583)	1:80:A:LEU:HD23	1:91:A:ILE:HD13	10	0.1
(1,568)	1:56:A:LEU:HD21	1:76:A:LEU:HD11	10	0.1
(1,568)	1:56:A:LEU:HD21	1:76:A:LEU:HD12	10	0.1
(1,568)	1:56:A:LEU:HD21	1:76:A:LEU:HD13	10	0.1
(1,568)	1:56:A:LEU:HD22	1:76:A:LEU:HD11	10	0.1
(1,568)	1:56:A:LEU:HD22	1:76:A:LEU:HD12	10	0.1
(1,568)	1:56:A:LEU:HD22	1:76:A:LEU:HD13	10	0.1
(1,568)	1:56:A:LEU:HD23	1:76:A:LEU:HD11	10	0.1
(1,568)	1:56:A:LEU:HD23	1:76:A:LEU:HD12	10	0.1
(1,568)	1:56:A:LEU:HD23	1:76:A:LEU:HD13	10	0.1
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD21	3	0.1
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD22	3	0.1
(1,558)	1:48:A:LEU:HD21	1:188:A:LEU:HD23	3	0.1
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD21	3	0.1
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD22	3	0.1
(1,558)	1:48:A:LEU:HD22	1:188:A:LEU:HD23	3	0.1
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD21	3	0.1
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD22	3	0.1
(1,558)	1:48:A:LEU:HD23	1:188:A:LEU:HD23	3	0.1
(1,540)	1:45:A:LEU:HD21	1:48:A:LEU:HD21	3	0.1
(1,540)	1:45:A:LEU:HD21	1:48:A:LEU:HD22	3	0.1
(1,540)	1:45:A:LEU:HD21	1:48:A:LEU:HD23	3	0.1
(1,540)	1:45:A:LEU:HD22	1:48:A:LEU:HD21	3	0.1
(1,540)	1:45:A:LEU:HD22	1:48:A:LEU:HD22	3	0.1
(1,540)	1:45:A:LEU:HD22	1:48:A:LEU:HD23	3	0.1
(1,540)	1:45:A:LEU:HD23	1:48:A:LEU:HD21	3	0.1
(1,540)	1:45:A:LEU:HD23	1:48:A:LEU:HD22	3	0.1
(1,540)	1:45:A:LEU:HD23	1:48:A:LEU:HD23	3	0.1
(1,532)	1:45:A:LEU:HD11	1:80:A:LEU:HD11	6	0.1
(1,532)	1:45:A:LEU:HD11	1:80:A:LEU:HD12	6	0.1
(1,532)	1:45:A:LEU:HD11	1:80:A:LEU:HD13	6	0.1
(1,532)	1:45:A:LEU:HD12	1:80:A:LEU:HD11	6	0.1
(1,532)	1:45:A:LEU:HD12	1:80:A:LEU:HD12	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,532)	1:45:A:LEU:HD12	1:80:A:LEU:HD13	6	0.1
(1,532)	1:45:A:LEU:HD13	1:80:A:LEU:HD11	6	0.1
(1,532)	1:45:A:LEU:HD13	1:80:A:LEU:HD12	6	0.1
(1,532)	1:45:A:LEU:HD13	1:80:A:LEU:HD13	6	0.1
(1,467)	1:159:A:GLN:H	1:175:A:ASP:H	2	0.1
(1,379)	1:68:A:SER:H	1:71:A:ASP:H	7	0.1
(1,377)	1:62:A:GLU:H	1:65:A:THR:H	4	0.1
(1,293)	1:70:A:LEU:H	1:72:A:SER:H	2	0.1
(1,247)	1:211:A:SER:H	1:212:A:GLN:H	10	0.1
(1,188)	1:138:A:PHE:H	1:139:A:TYR:H	10	0.1
(1,141)	1:69:A:LYS:H	1:70:A:LEU:H	8	0.1
(1,135)	1:61:A:TYR:H	1:62:A:GLU:H	6	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	2	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	2	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	2	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	2	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	2	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	2	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	2	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	2	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	2	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB1	3	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB2	3	0.1
(1,76)	1:188:A:LEU:HD21	1:141:A:ALA:HB3	3	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB1	3	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB2	3	0.1
(1,76)	1:188:A:LEU:HD22	1:141:A:ALA:HB3	3	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB1	3	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB2	3	0.1
(1,76)	1:188:A:LEU:HD23	1:141:A:ALA:HB3	3	0.1
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG21	9	0.1
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG22	9	0.1
(1,62)	1:184:A:THR:HG21	1:152:A:THR:HG23	9	0.1
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG21	9	0.1
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG22	9	0.1
(1,62)	1:184:A:THR:HG22	1:152:A:THR:HG23	9	0.1
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG21	9	0.1
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG22	9	0.1
(1,62)	1:184:A:THR:HG23	1:152:A:THR:HG23	9	0.1
(1,48)	1:122:A:LEU:HD21	1:128:A:ILE:HD11	1	0.1
(1,48)	1:122:A:LEU:HD21	1:128:A:ILE:HD12	1	0.1
(1,48)	1:122:A:LEU:HD21	1:128:A:ILE:HD13	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:122:A:LEU:HD22	1:128:A:ILE:HD11	1	0.1
(1,48)	1:122:A:LEU:HD22	1:128:A:ILE:HD12	1	0.1
(1,48)	1:122:A:LEU:HD22	1:128:A:ILE:HD13	1	0.1
(1,48)	1:122:A:LEU:HD23	1:128:A:ILE:HD11	1	0.1
(1,48)	1:122:A:LEU:HD23	1:128:A:ILE:HD12	1	0.1
(1,48)	1:122:A:LEU:HD23	1:128:A:ILE:HD13	1	0.1
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE1	1	0.1
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE2	1	0.1
(1,39)	1:115:A:THR:HG21	1:119:A:MET:HE3	1	0.1
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE1	1	0.1
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE2	1	0.1
(1,39)	1:115:A:THR:HG22	1:119:A:MET:HE3	1	0.1
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE1	1	0.1
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE2	1	0.1
(1,39)	1:115:A:THR:HG23	1:119:A:MET:HE3	1	0.1
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG11	6	0.1
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG12	6	0.1
(1,28)	1:103:A:LEU:HD21	1:150:A:VAL:HG13	6	0.1
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG11	6	0.1
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG12	6	0.1
(1,28)	1:103:A:LEU:HD22	1:150:A:VAL:HG13	6	0.1
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG11	6	0.1
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG12	6	0.1
(1,28)	1:103:A:LEU:HD23	1:150:A:VAL:HG13	6	0.1
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG21	8	0.1
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG22	8	0.1
(1,17)	1:98:A:MET:HE1	1:184:A:THR:HG23	8	0.1
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG21	8	0.1
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG22	8	0.1
(1,17)	1:98:A:MET:HE2	1:184:A:THR:HG23	8	0.1
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG21	8	0.1
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG22	8	0.1
(1,17)	1:98:A:MET:HE3	1:184:A:THR:HG23	8	0.1

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

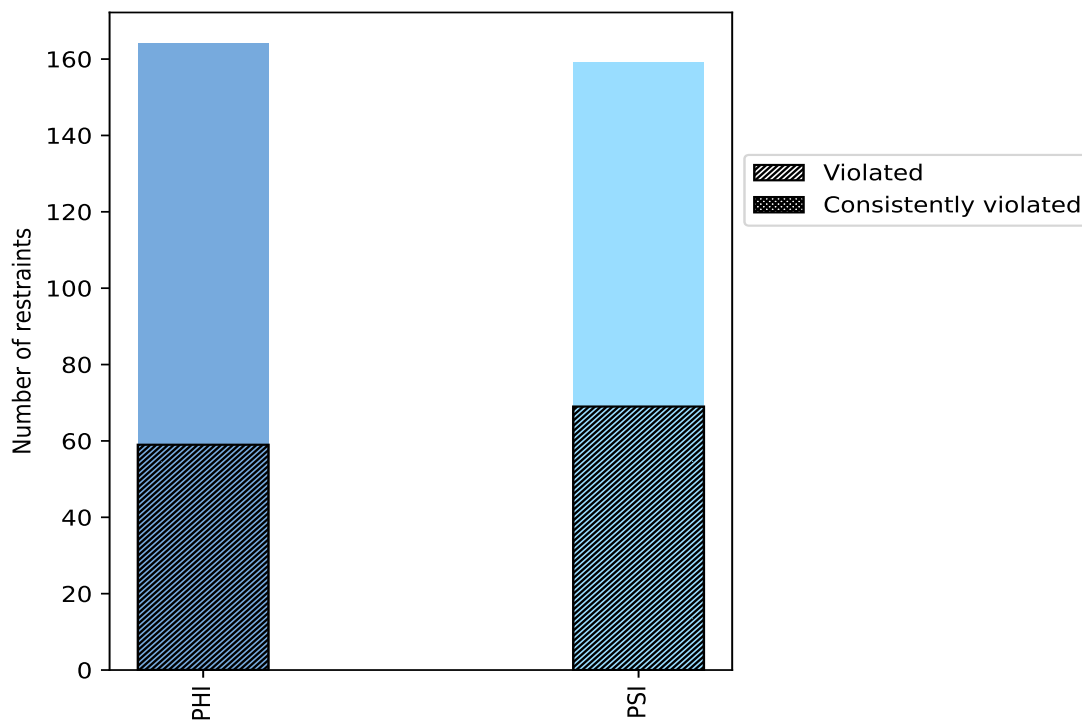
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	164	50.8	59	36.0	18.3	0	0.0	0.0
PSI	159	49.2	69	43.4	21.4	0	0.0	0.0
Total	323	100.0	128	39.6	39.6	0	0.0	0.0

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

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



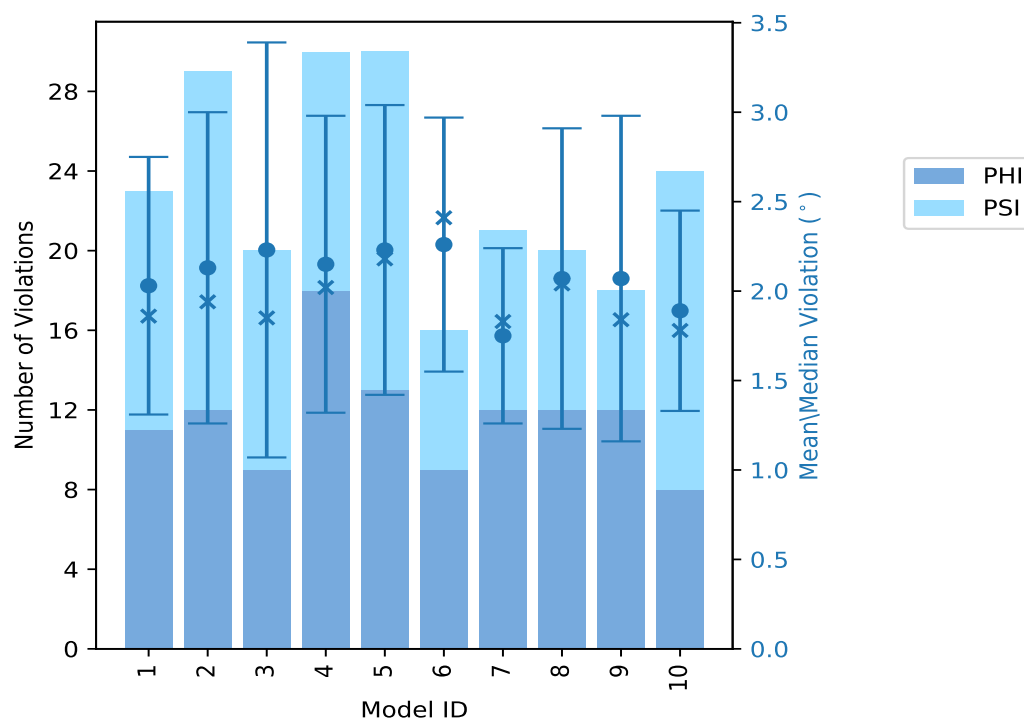
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	11	12	23	2.03	4.22	0.72	1.86
2	12	17	29	2.13	4.73	0.87	1.94
3	9	11	20	2.23	4.75	1.16	1.85
4	18	12	30	2.15	4.02	0.83	2.02
5	13	17	30	2.23	3.68	0.81	2.18
6	9	7	16	2.26	3.57	0.71	2.41
7	12	9	21	1.75	2.58	0.49	1.83
8	12	8	20	2.07	3.7	0.84	2.04
9	12	6	18	2.07	4.16	0.91	1.84
10	8	16	24	1.89	3.28	0.56	1.78

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



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

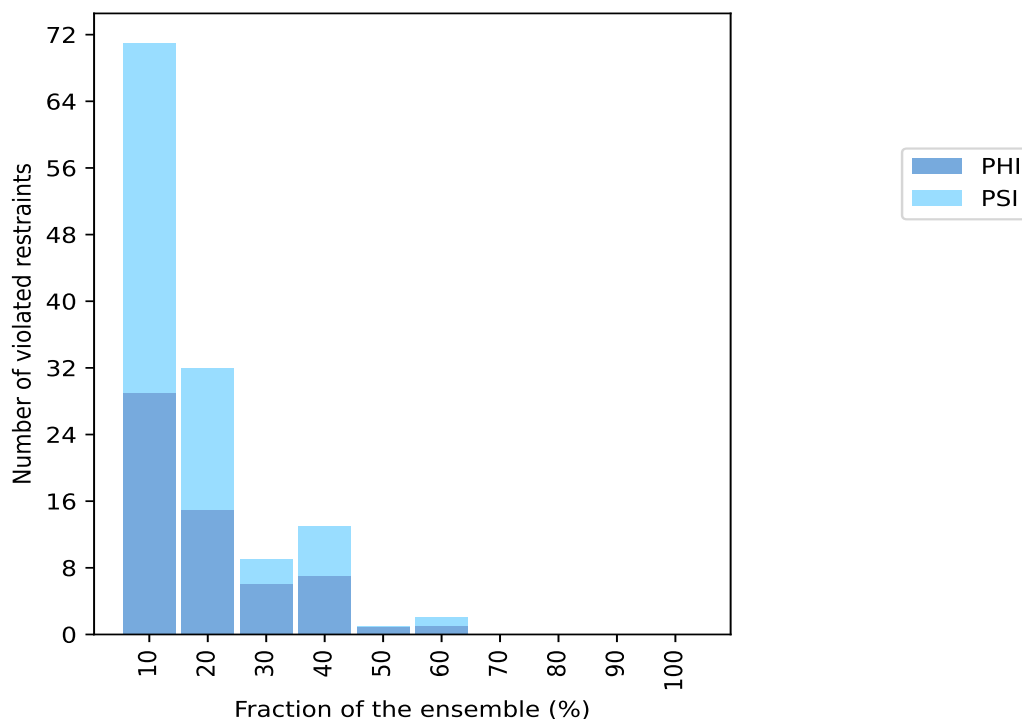
10.3 Dihedral-angle violation statistics for the ensemble [\(i\)](#)

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
29	42	71	1	10.0
15	17	32	2	20.0
6	3	9	3	30.0
7	6	13	4	40.0
1	0	1	5	50.0
1	1	2	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

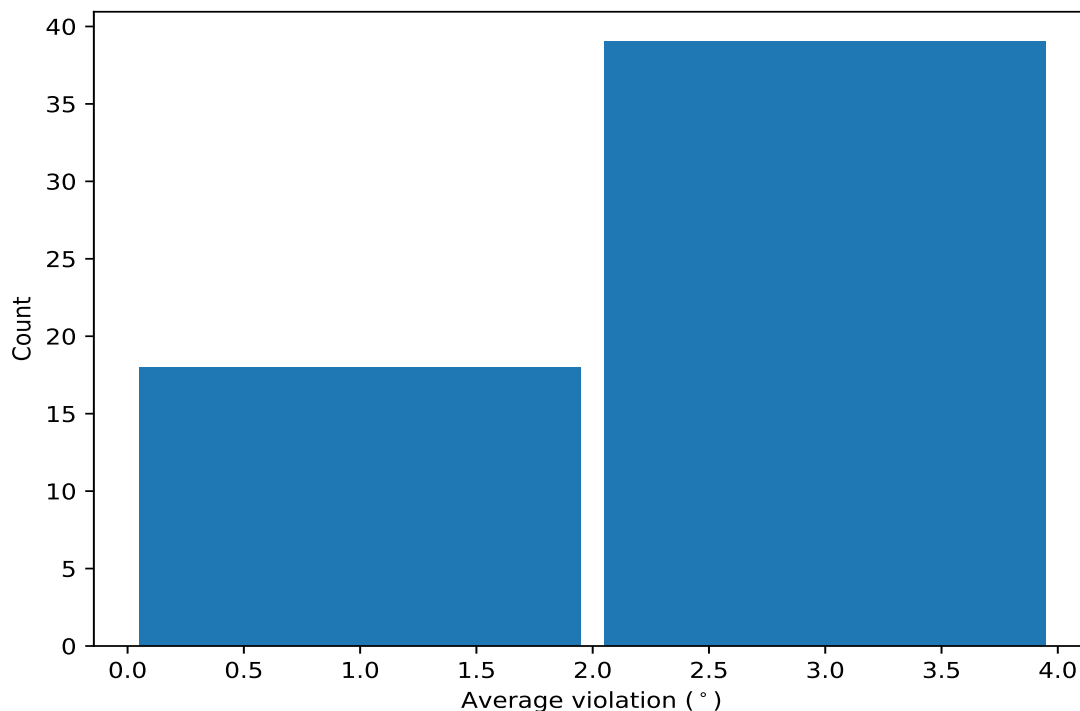
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [\(i\)](#)



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
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	6	2.54	0.98	1.95
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	6	2.41	0.73	2.27
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	5	1.45	0.48	1.08
(1,273)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	4	3.12	0.59	3.06
(1,107)	1:82:A:PRO:N	1:82:A:PRO:CA	1:82:A:PRO:C	1:83:A:ASN:N	4	2.81	1.24	2.77
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	4	2.8	1.13	3.0
(1,184)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	4	2.62	1.3	2.16
(1,151)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	4	2.42	0.56	2.36
(1,314)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	4	2.32	0.53	2.17
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	4	2.21	0.85	2.12
(1,118)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	4	2.18	0.49	1.98
(1,96)	1:76:A:LEU:C	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	4	2.16	0.89	1.94
(1,286)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	4	2.09	0.76	1.98

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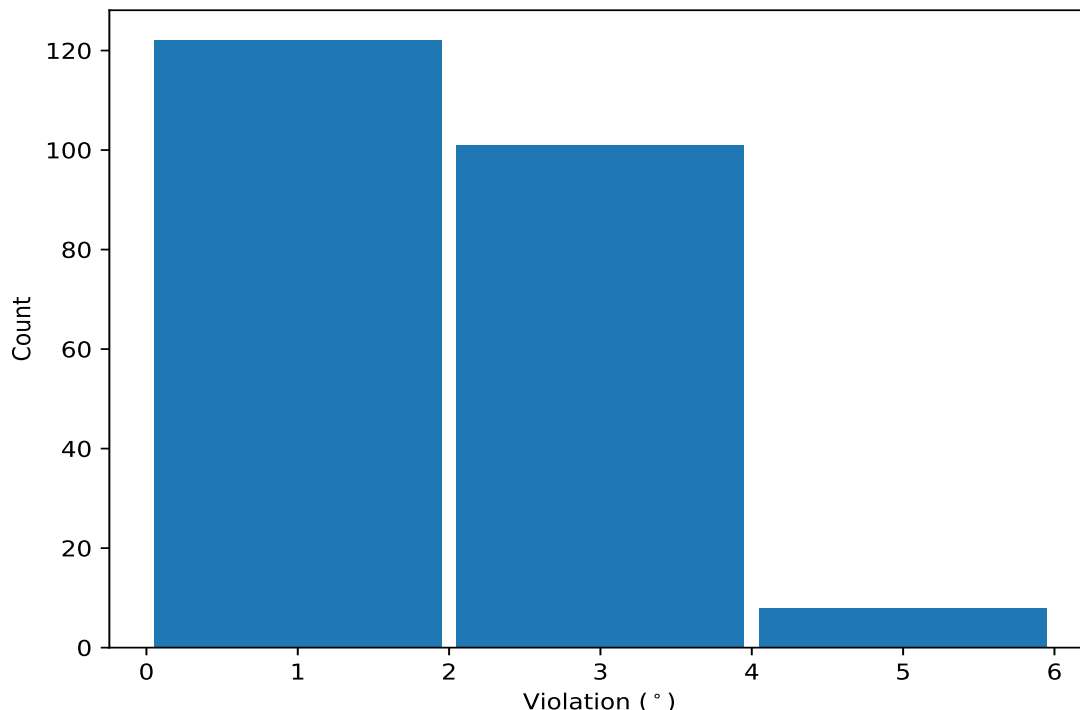
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,262)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	4	1.99	0.35	2.09
(1,228)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	4	1.64	0.41	1.73
(1,90)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	4	1.56	0.28	1.56
(1,311)	1:215:A:GLY:C	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	3	2.75	0.16	2.85
(1,323)	1:221:A:PHE:C	1:222:A:VAL:N	1:222:A:VAL:CA	1:222:A:VAL:C	3	2.66	0.96	2.09
(1,240)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	3	2.55	1.03	2.78
(1,120)	1:90:A:THR:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	3	2.41	1.09	2.54
(1,27)	1:34:A:ILE:C	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	3	2.22	0.76	2.63
(1,284)	1:195:A:THR:C	1:196:A:GLU:N	1:196:A:GLU:CA	1:196:A:GLU:C	3	1.85	0.33	2.06
(1,264)	1:184:A:THR:N	1:184:A:THR:CA	1:184:A:THR:C	1:185:A:LYS:N	3	1.56	0.56	1.19
(1,85)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	3	1.48	0.32	1.61
(1,247)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	3	1.41	0.28	1.61
(1,282)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	2	3.24	1.46	3.24
(1,95)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	2	2.86	1.87	2.86
(1,124)	1:92:A:VAL:C	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	2	2.72	0.54	2.72
(1,242)	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	1:170:A:PHE:N	2	2.6	0.02	2.6
(1,248)	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	1:173:A:ARG:N	2	2.54	0.77	2.54
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	2	2.54	0.26	2.54
(1,115)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	2	2.44	0.1	2.44
(1,246)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	2	2.38	0.48	2.38
(1,241)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	2	2.34	0.32	2.34
(1,239)	1:167:A:GLY:C	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	2	2.34	1.28	2.34
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	2	2.29	0.47	2.29
(1,307)	1:213:A:PHE:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	2	2.25	0.34	2.25
(1,198)	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1:147:A:LYS:N	2	2.18	0.86	2.18
(1,149)	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	1:111:A:ALA:N	2	2.16	0.42	2.16
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	2	2.12	0.46	2.12
(1,12)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	2	2.12	0.62	2.12
(1,317)	1:218:A:ILE:C	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	2	2.11	0.05	2.11
(1,232)	1:163:A:GLU:N	1:163:A:GLU:CA	1:163:A:GLU:C	1:164:A:SER:N	2	2.1	0.55	2.1
(1,148)	1:109:A:THR:C	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	2	2.06	0.83	2.06
(1,309)	1:214:A:ILE:C	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	2	2.03	0.76	2.03
(1,267)	1:185:A:LYS:C	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	2	2.0	0.14	2.0
(1,187)	1:135:A:GLY:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	2	2.0	0.36	2.0
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	2	1.85	0.09	1.85
(1,170)	1:126:A:ALA:C	1:127:A:ASP:N	1:127:A:ASP:CA	1:127:A:ASP:C	2	1.72	0.19	1.72
(1,257)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	2	1.71	0.13	1.71
(1,265)	1:184:A:THR:C	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	2	1.66	0.66	1.66
(1,91)	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	1:74:A:LYS:N	2	1.63	0.61	1.63
(1,135)	1:100:A:LYS:N	1:100:A:LYS:CA	1:100:A:LYS:C	1:101:A:ALA:N	2	1.45	0.13	1.45
(1,270)	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	1:188:A:LEU:N	2	1.43	0.1	1.43
(1,275)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	2	1.38	0.23	1.38
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	2	1.38	0.06	1.38
(1,31)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	2	1.25	0.12	1.25

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 (°)
(1,184)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	3	4.75
(1,95)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	2	4.73
(1,282)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	3	4.7
(1,107)	1:82:A:PRO:N	1:82:A:PRO:CA	1:82:A:PRO:C	1:83:A:ASN:N	3	4.35
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	1	4.22
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	9	4.16
(1,323)	1:221:A:PHE:C	1:222:A:VAL:N	1:222:A:VAL:CA	1:222:A:VAL:C	4	4.02
(1,273)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	9	4.0
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	8	3.7
(1,120)	1:90:A:THR:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	4	3.68
(1,107)	1:82:A:PRO:N	1:82:A:PRO:CA	1:82:A:PRO:C	1:83:A:ASN:N	5	3.68
(1,240)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	2	3.67
(1,239)	1:167:A:GLY:C	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	8	3.62
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	6	3.57

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,96)	1:76:A:LEU:C	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	5	3.57
(1,253)	1:174:A:THR:C	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	5	3.54
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	5	3.44
(1,82)	1:68:A:SER:C	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	2	3.36
(1,321)	1:220:A:LEU:C	1:221:A:PHE:N	1:221:A:PHE:CA	1:221:A:PHE:C	9	3.33
(1,248)	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	1:173:A:ARG:N	5	3.31
(1,75)	1:63:A:SER:N	1:63:A:SER:CA	1:63:A:SER:C	1:64:A:LEU:N	10	3.28
(1,286)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	4	3.26
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	4	3.26
(1,151)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	1	3.26
(1,124)	1:92:A:VAL:C	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	6	3.26
(1,300)	1:207:A:VAL:N	1:207:A:VAL:CA	1:207:A:VAL:C	1:208:A:LYS:N	2	3.2
(1,314)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	4	3.19
(1,273)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	8	3.16
(1,308)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:GLY:N	5	3.15
(1,320)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:PHE:N	4	3.07
(1,198)	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1:147:A:LYS:N	3	3.05
(1,118)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	8	3.01
(1,273)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	10	2.95
(1,206)	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	1:151:A:ILE:N	5	2.91
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	1	2.89
(1,148)	1:109:A:THR:C	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	2	2.89
(1,311)	1:215:A:GLY:C	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	6	2.87
(1,27)	1:34:A:ILE:C	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	5	2.87
(1,246)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	8	2.86
(1,311)	1:215:A:GLY:C	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	4	2.85
(1,130)	1:97:A:GLY:C	1:98:A:MET:N	1:98:A:MET:CA	1:98:A:MET:C	2	2.8
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	4	2.8
(1,309)	1:214:A:ILE:C	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	3	2.79
(1,240)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	4	2.78
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	3	2.76
(1,236)	1:166:A:ALA:N	1:166:A:ALA:CA	1:166:A:ALA:C	1:167:A:GLY:N	6	2.74
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	2	2.74
(1,12)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	6	2.74
(1,318)	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	1:220:A:LEU:N	2	2.68
(1,241)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	1	2.66
(1,232)	1:163:A:GLU:N	1:163:A:GLU:CA	1:163:A:GLU:C	1:164:A:SER:N	5	2.64
(1,146)	1:105:A:ASN:C	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	5	2.64
(1,29)	1:35:A:ASN:C	1:36:A:THR:N	1:36:A:THR:CA	1:36:A:THR:C	9	2.63
(1,27)	1:34:A:ILE:C	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	9	2.63
(1,242)	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	1:170:A:PHE:N	6	2.62
(1,157)	1:118:A:PHE:N	1:118:A:PHE:CA	1:118:A:PHE:C	1:119:A:MET:N	10	2.6
(1,307)	1:213:A:PHE:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	5	2.59
(1,242)	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	1:170:A:PHE:N	5	2.59
(1,149)	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	1:111:A:ALA:N	5	2.59
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	10	2.59
(1,184)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	7	2.58
(1,140)	1:102:A:ASP:C	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1	2.56
(1,208)	1:151:A:ILE:N	1:151:A:ILE:CA	1:151:A:ILE:C	1:152:A:THR:N	2	2.55
(1,120)	1:90:A:THR:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	1	2.54
(1,115)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	2	2.54

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,311)	1:215:A:GLY:C	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	8	2.53
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	4	2.51
(1,151)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	7	2.49
(1,8)	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1:22:A:PHE:N	6	2.49
(1,258)	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	1:181:A:GLY:N	3	2.47
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	6	2.46
(1,272)	1:188:A:LEU:N	1:188:A:LEU:CA	1:188:A:LEU:C	1:189:A:HIS:N	4	2.43
(1,262)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	8	2.37
(1,187)	1:135:A:GLY:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	6	2.36
(1,273)	1:188:A:LEU:C	1:189:A:HIS:N	1:189:A:HIS:CA	1:189:A:HIS:C	5	2.35
(1,264)	1:184:A:THR:N	1:184:A:THR:CA	1:184:A:THR:C	1:185:A:LYS:N	7	2.35
(1,265)	1:184:A:THR:C	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	10	2.33
(1,115)	1:88:A:THR:N	1:88:A:THR:CA	1:88:A:THR:C	1:89:A:LEU:N	10	2.33
(1,4)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	2	2.28
(1,81)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:LYS:N	4	2.25
(1,91)	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	1:74:A:LYS:N	3	2.24
(1,151)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	6	2.22
(1,96)	1:76:A:LEU:C	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	1	2.21
(1,314)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	5	2.2
(1,296)	1:205:A:GLU:N	1:205:A:GLU:CA	1:205:A:GLU:C	1:206:A:ILE:N	2	2.2
(1,210)	1:152:A:THR:N	1:152:A:THR:CA	1:152:A:THR:C	1:153:A:LYS:N	8	2.19
(1,259)	1:181:A:GLY:C	1:182:A:ARG:N	1:182:A:ARG:CA	1:182:A:ARG:C	7	2.17
(1,124)	1:92:A:VAL:C	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1	2.17
(1,317)	1:218:A:ILE:C	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	5	2.16
(1,133)	1:99:A:THR:N	1:99:A:THR:CA	1:99:A:THR:C	1:100:A:LYS:N	8	2.16
(1,116)	1:88:A:THR:C	1:89:A:LEU:N	1:89:A:LEU:CA	1:89:A:LEU:C	3	2.16
(1,314)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	2	2.15
(1,249)	1:172:A:VAL:C	1:173:A:ARG:N	1:173:A:ARG:CA	1:173:A:ARG:C	7	2.15
(1,286)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	7	2.14
(1,267)	1:185:A:LYS:C	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	10	2.14
(1,28)	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	1:36:A:THR:N	9	2.13
(1,228)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	1	2.12
(1,284)	1:195:A:THR:C	1:196:A:GLU:N	1:196:A:GLU:CA	1:196:A:GLU:C	8	2.11
(1,262)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	1	2.11
(1,118)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	2	2.1
(1,323)	1:221:A:PHE:C	1:222:A:VAL:N	1:222:A:VAL:CA	1:222:A:VAL:C	7	2.09
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	10	2.08
(1,262)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	4	2.07
(1,317)	1:218:A:ILE:C	1:219:A:THR:N	1:219:A:THR:CA	1:219:A:THR:C	9	2.06
(1,284)	1:195:A:THR:C	1:196:A:GLU:N	1:196:A:GLU:CA	1:196:A:GLU:C	4	2.06
(1,202)	1:148:A:VAL:N	1:148:A:VAL:CA	1:148:A:VAL:C	1:149:A:THR:N	7	2.05
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	7	2.04
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	4	2.03
(1,241)	1:168:A:GLY:C	1:169:A:SER:N	1:169:A:SER:CA	1:169:A:SER:C	4	2.02
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	8	1.96
(1,222)	1:158:A:GLU:N	1:158:A:GLU:CA	1:158:A:GLU:C	1:159:A:GLN:N	2	1.94
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	9	1.94
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	10	1.94
(1,307)	1:213:A:PHE:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	10	1.91
(1,246)	1:171:A:THR:N	1:171:A:THR:CA	1:171:A:THR:C	1:172:A:VAL:N	3	1.91
(1,170)	1:126:A:ALA:C	1:127:A:ASP:N	1:127:A:ASP:CA	1:127:A:ASP:C	7	1.91

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	2	1.9
(1,323)	1:221:A:PHE:C	1:222:A:VAL:N	1:222:A:VAL:CA	1:222:A:VAL:C	2	1.88
(1,290)	1:201:A:ARG:N	1:201:A:ARG:CA	1:201:A:ARG:C	1:202:A:ARG:N	6	1.88
(1,306)	1:210:A:HIS:N	1:210:A:HIS:CA	1:210:A:HIS:C	1:211:A:SER:N	9	1.87
(1,90)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	4	1.87
(1,267)	1:185:A:LYS:C	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1	1.86
(1,118)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1	1.86
(1,107)	1:82:A:PRO:N	1:82:A:PRO:CA	1:82:A:PRO:C	1:83:A:ASN:N	10	1.86
(1,257)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	4	1.84
(1,41)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ARG:N	7	1.83
(1,251)	1:173:A:ARG:C	1:174:A:THR:N	1:174:A:THR:CA	1:174:A:THR:C	5	1.82
(1,1)	1:17:A:VAL:C	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	4	1.82
(1,286)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	9	1.81
(1,282)	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	1:194:A:GLN:N	4	1.79
(1,228)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	10	1.79
(1,90)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	3	1.79
(1,85)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	4	1.79
(1,248)	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	1:173:A:ARG:N	1	1.78
(1,118)	1:89:A:LEU:C	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	10	1.77
(1,10)	1:22:A:PHE:N	1:22:A:PHE:CA	1:22:A:PHE:C	1:23:A:GLN:N	7	1.76
(1,314)	1:217:A:PRO:N	1:217:A:PRO:CA	1:217:A:PRO:C	1:218:A:ILE:N	10	1.75
(1,254)	1:175:A:ASP:N	1:175:A:ASP:CA	1:175:A:ASP:C	1:176:A:THR:N	10	1.75
(1,184)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	1	1.75
(1,109)	1:83:A:ASN:N	1:83:A:ASN:CA	1:83:A:ASN:C	1:84:A:LYS:N	5	1.75
(1,149)	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	1:111:A:ALA:N	8	1.74
(1,97)	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	1:78:A:ILE:N	5	1.73
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	8	1.73
(1,151)	1:111:A:ALA:N	1:111:A:ALA:CA	1:111:A:ALA:C	1:112:A:LYS:N	5	1.7
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	5	1.69
(1,125)	1:93:A:ASP:N	1:93:A:ASP:CA	1:93:A:ASP:C	1:94:A:THR:N	10	1.69
(1,228)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	2	1.67
(1,96)	1:76:A:LEU:C	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	2	1.66
(1,2)	1:18:A:GLU:N	1:18:A:GLU:CA	1:18:A:GLU:C	1:19:A:THR:N	5	1.66
(1,238)	1:167:A:GLY:N	1:167:A:GLY:CA	1:167:A:GLY:C	1:168:A:GLY:N	1	1.65
(1,195)	1:144:A:VAL:C	1:145:A:ALA:N	1:145:A:ALA:CA	1:145:A:ALA:C	6	1.63
(1,187)	1:135:A:GLY:C	1:136:A:VAL:N	1:136:A:VAL:CA	1:136:A:VAL:C	5	1.63
(1,119)	1:90:A:THR:N	1:90:A:THR:CA	1:90:A:THR:C	1:91:A:ILE:N	3	1.63
(1,275)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	9	1.61
(1,247)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	1	1.61
(1,247)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	5	1.61
(1,223)	1:158:A:GLU:C	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	7	1.61
(1,132)	1:98:A:MET:C	1:99:A:THR:N	1:99:A:THR:CA	1:99:A:THR:C	4	1.61
(1,85)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	3	1.61
(1,121)	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	1:92:A:VAL:N	1	1.6
(1,224)	1:159:A:GLN:N	1:159:A:GLN:CA	1:159:A:GLN:C	1:160:A:TYR:N	1	1.59
(1,257)	1:179:A:PRO:C	1:180:A:MET:N	1:180:A:MET:CA	1:180:A:MET:C	6	1.58
(1,135)	1:100:A:LYS:N	1:100:A:LYS:CA	1:100:A:LYS:C	1:101:A:ALA:N	2	1.58
(1,232)	1:163:A:GLU:N	1:163:A:GLU:CA	1:163:A:GLU:C	1:164:A:SER:N	9	1.55
(1,270)	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	1:188:A:LEU:N	10	1.53
(1,170)	1:126:A:ALA:C	1:127:A:ASP:N	1:127:A:ASP:CA	1:127:A:ASP:C	5	1.52
(1,123)	1:92:A:VAL:N	1:92:A:VAL:CA	1:92:A:VAL:C	1:93:A:ASP:N	10	1.51

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,70)	1:60:A:ARG:C	1:61:A:TYR:N	1:61:A:TYR:CA	1:61:A:TYR:C	6	1.51
(1,12)	1:24:A:ALA:N	1:24:A:ALA:CA	1:24:A:ALA:C	1:25:A:GLU:N	10	1.51
(1,174)	1:128:A:ILE:C	1:129:A:SER:N	1:129:A:SER:CA	1:129:A:SER:C	4	1.5
(1,3)	1:18:A:GLU:C	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1	1.5
(1,168)	1:125:A:GLY:C	1:126:A:ALA:N	1:126:A:ALA:CA	1:126:A:ALA:C	7	1.49
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	3	1.44
(1,262)	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	1:184:A:THR:N	2	1.42
(1,184)	1:134:A:PHE:N	1:134:A:PHE:CA	1:134:A:PHE:C	1:135:A:GLY:N	8	1.4
(1,284)	1:195:A:THR:C	1:196:A:GLU:N	1:196:A:GLU:CA	1:196:A:GLU:C	9	1.39
(1,312)	1:216:A:TYR:N	1:216:A:TYR:CA	1:216:A:TYR:C	1:217:A:PRO:N	5	1.38
(1,281)	1:192:A:GLU:C	1:193:A:ASP:N	1:193:A:ASP:CA	1:193:A:ASP:C	2	1.37
(1,268)	1:186:A:VAL:N	1:186:A:VAL:CA	1:186:A:VAL:C	1:187:A:ILE:N	10	1.37
(1,107)	1:82:A:PRO:N	1:82:A:PRO:CA	1:82:A:PRO:C	1:83:A:ASN:N	9	1.37
(1,31)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	9	1.36
(1,270)	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	1:188:A:LEU:N	4	1.33
(1,204)	1:149:A:THR:N	1:149:A:THR:CA	1:149:A:THR:C	1:150:A:VAL:N	1	1.33
(1,83)	1:69:A:LYS:N	1:69:A:LYS:CA	1:69:A:LYS:C	1:70:A:LEU:N	2	1.33
(1,198)	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	1:147:A:LYS:N	7	1.32
(1,145)	1:105:A:ASN:N	1:105:A:ASN:CA	1:105:A:ASN:C	1:106:A:ASN:N	2	1.32
(1,135)	1:100:A:LYS:N	1:100:A:LYS:CA	1:100:A:LYS:C	1:101:A:ALA:N	8	1.32
(1,90)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	7	1.32
(1,13)	1:26:A:ILE:C	1:27:A:ALA:N	1:27:A:ALA:CA	1:27:A:ALA:C	2	1.31
(1,319)	1:219:A:THR:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	8	1.28
(1,309)	1:214:A:ILE:C	1:215:A:GLY:N	1:215:A:GLY:CA	1:215:A:GLY:C	4	1.27
(1,218)	1:156:A:ASP:N	1:156:A:ASP:CA	1:156:A:ASP:C	1:157:A:ASP:N	5	1.24
(1,90)	1:72:A:SER:C	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	10	1.24
(1,36)	1:41:A:LYS:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	3	1.24
(1,269)	1:186:A:VAL:C	1:187:A:ILE:N	1:187:A:ILE:CA	1:187:A:ILE:C	2	1.23
(1,148)	1:109:A:THR:C	1:110:A:ILE:N	1:110:A:ILE:CA	1:110:A:ILE:C	9	1.23
(1,128)	1:95:A:GLY:C	1:96:A:ILE:N	1:96:A:ILE:CA	1:96:A:ILE:C	8	1.23
(1,186)	1:135:A:GLY:N	1:135:A:GLY:CA	1:135:A:GLY:C	1:136:A:VAL:N	10	1.22
(1,33)	1:39:A:SER:N	1:39:A:SER:CA	1:39:A:SER:C	1:40:A:ASN:N	3	1.21
(1,96)	1:76:A:LEU:C	1:77:A:HIS:N	1:77:A:HIS:CA	1:77:A:HIS:C	3	1.2
(1,264)	1:184:A:THR:N	1:184:A:THR:CA	1:184:A:THR:C	1:185:A:LYS:N	10	1.19
(1,240)	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	1:169:A:SER:N	3	1.19
(1,255)	1:175:A:ASP:C	1:176:A:THR:N	1:176:A:THR:CA	1:176:A:THR:C	9	1.18
(1,7)	1:20:A:PHE:C	1:21:A:ALA:N	1:21:A:ALA:CA	1:21:A:ALA:C	1	1.17
(1,286)	1:197:A:TYR:C	1:198:A:LEU:N	1:198:A:LEU:CA	1:198:A:LEU:C	2	1.16
(1,275)	1:189:A:HIS:C	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	4	1.16
(1,147)	1:106:A:ASN:N	1:106:A:ASN:CA	1:106:A:ASN:C	1:107:A:LEU:N	1	1.16
(1,27)	1:34:A:ILE:C	1:35:A:ASN:N	1:35:A:ASN:CA	1:35:A:ASN:C	6	1.15
(1,205)	1:149:A:THR:C	1:150:A:VAL:N	1:150:A:VAL:CA	1:150:A:VAL:C	7	1.14
(1,264)	1:184:A:THR:N	1:184:A:THR:CA	1:184:A:THR:C	1:185:A:LYS:N	1	1.13
(1,31)	1:37:A:PHE:N	1:37:A:PHE:CA	1:37:A:PHE:C	1:38:A:TYR:N	7	1.13
(1,34)	1:40:A:ASN:C	1:41:A:LYS:N	1:41:A:LYS:CA	1:41:A:LYS:C	7	1.11
(1,207)	1:150:A:VAL:C	1:151:A:ILE:N	1:151:A:ILE:CA	1:151:A:ILE:C	4	1.1
(1,276)	1:190:A:LEU:N	1:190:A:LEU:CA	1:190:A:LEU:C	1:191:A:LYS:N	7	1.09
(1,216)	1:155:A:ASN:N	1:155:A:ASN:CA	1:155:A:ASN:C	1:156:A:ASP:N	2	1.09
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	6	1.08
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	9	1.07
(1,239)	1:167:A:GLY:C	1:168:A:GLY:N	1:168:A:GLY:CA	1:168:A:GLY:C	7	1.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,197)	1:145:A:ALA:C	1:146:A:GLU:N	1:146:A:GLU:CA	1:146:A:GLU:C	3	1.05
(1,85)	1:70:A:LEU:N	1:70:A:LEU:CA	1:70:A:LEU:C	1:71:A:ASP:N	5	1.05
(1,261)	1:182:A:ARG:C	1:183:A:GLY:N	1:183:A:GLY:CA	1:183:A:GLY:C	8	1.04
(1,92)	1:73:A:GLY:C	1:74:A:LYS:N	1:74:A:LYS:CA	1:74:A:LYS:C	4	1.04
(1,247)	1:171:A:THR:C	1:172:A:VAL:N	1:172:A:VAL:CA	1:172:A:VAL:C	10	1.02
(1,203)	1:148:A:VAL:C	1:149:A:THR:N	1:149:A:THR:CA	1:149:A:THR:C	8	1.02
(1,102)	1:79:A:ASN:C	1:80:A:LEU:N	1:80:A:LEU:CA	1:80:A:LEU:C	3	1.02
(1,91)	1:73:A:GLY:N	1:73:A:GLY:CA	1:73:A:GLY:C	1:74:A:LYS:N	4	1.02
(1,196)	1:145:A:ALA:N	1:145:A:ALA:CA	1:145:A:ALA:C	1:146:A:GLU:N	5	1.01
(1,120)	1:90:A:THR:C	1:91:A:ILE:N	1:91:A:ILE:CA	1:91:A:ILE:C	8	1.01
(1,265)	1:184:A:THR:C	1:185:A:LYS:N	1:185:A:LYS:CA	1:185:A:LYS:C	2	1.0
(1,228)	1:161:A:ALA:N	1:161:A:ALA:CA	1:161:A:ALA:C	1:162:A:TRP:N	4	1.0
(1,95)	1:75:A:GLU:N	1:75:A:GLU:CA	1:75:A:GLU:C	1:76:A:LEU:N	5	1.0