



# Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 01:57 PM EST

PDB ID : 6QJY  
BMRB ID : 27683  
Title : Solution NMR structure of a mutant major ampullate spidroin 1 N-terminal domain  
Authors : Goretzki, B.; Heiby, J.; Neuweiler, H.; Hellmich, U.A.  
Deposited on : 2019-01-27

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<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>.

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

MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.40

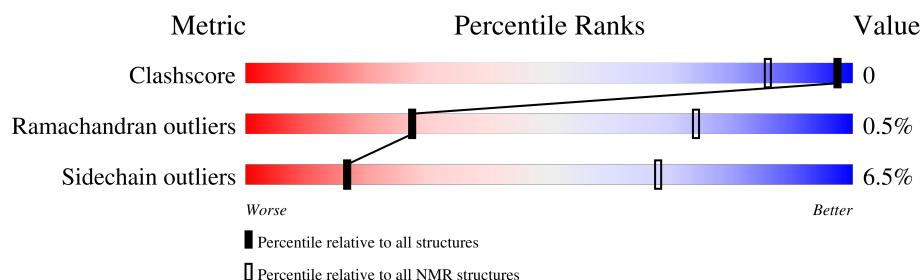
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*


The overall completeness of chemical shifts assignment is 89%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	137	

## 2 Ensemble composition and analysis ⓘ

This entry contains 20 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:8-A:129 (122)	0.89	10

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

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

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

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1947 atoms, of which 961 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Major ampullate spidroin 1.

Mol	Chain	Residues	Atoms						Trace
1	A	137	Total	C	H	N	O	S	0
			1947	609	961	166	207	4	

There are 12 discrepancies between the modelled and reference sequences:

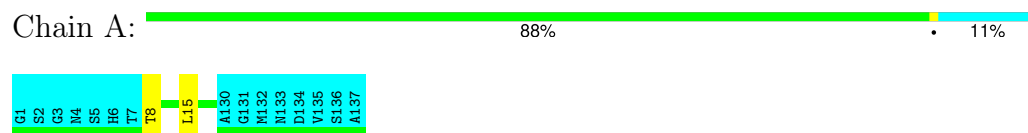
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP Q05H60
A	2	SER	-	expression tag	UNP Q05H60
A	3	GLY	-	expression tag	UNP Q05H60
A	4	ASN	-	expression tag	UNP Q05H60
A	20	LEU	MET	engineered mutation	UNP Q05H60
A	24	LEU	MET	engineered mutation	UNP Q05H60
A	41	LEU	MET	engineered mutation	UNP Q05H60
A	48	LEU	MET	engineered mutation	UNP Q05H60
A	77	LEU	MET	engineered mutation	UNP Q05H60
A	101	LEU	MET	engineered mutation	UNP Q05H60
A	136	SER	-	expression tag	UNP Q05H60
A	137	ALA	-	expression tag	UNP Q05H60

## 4 Residue-property plots

### 4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Major ampullate spidroin 1

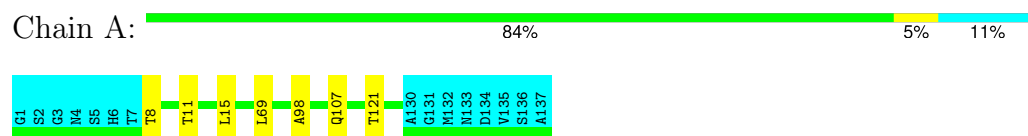


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

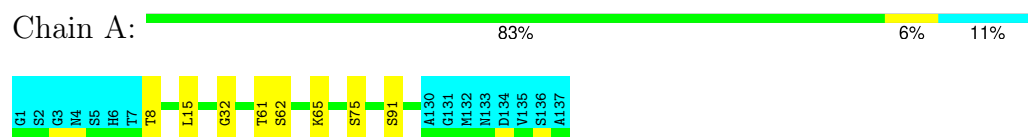
#### 4.2.1 Score per residue for model 1

- Molecule 1: Major ampullate spidroin 1



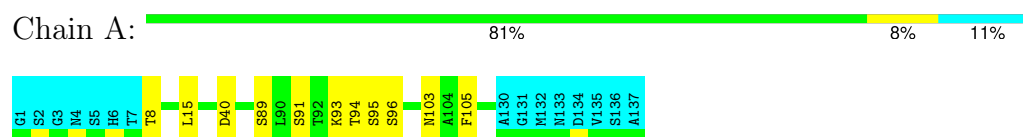
#### 4.2.2 Score per residue for model 2

- Molecule 1: Major ampullate spidroin 1



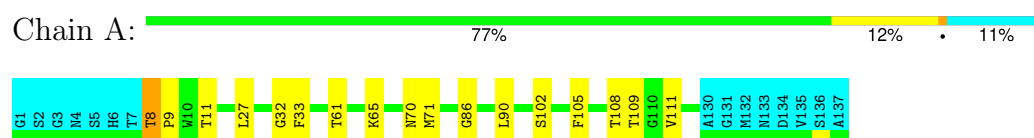
### 4.2.3 Score per residue for model 3

- Molecule 1: Major ampullate spidroin 1



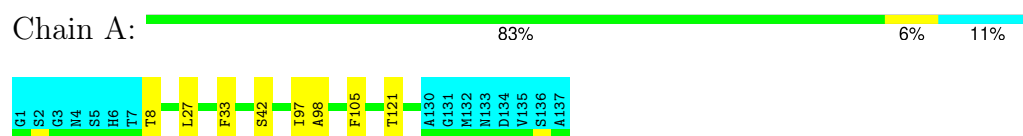
### 4.2.4 Score per residue for model 4

- Molecule 1: Major ampullate spidroin 1



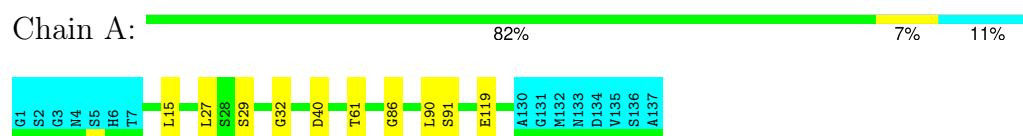
### 4.2.5 Score per residue for model 5

- Molecule 1: Major ampullate spidroin 1



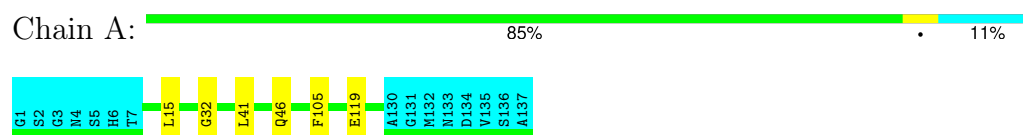
### 4.2.6 Score per residue for model 6

- Molecule 1: Major ampullate spidroin 1



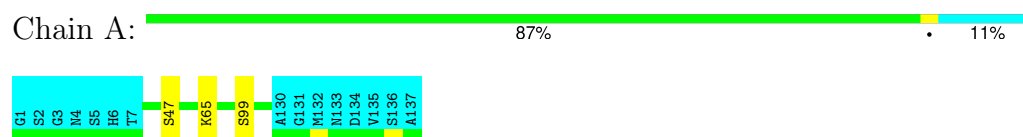
### 4.2.7 Score per residue for model 7

- Molecule 1: Major ampullate spidroin 1



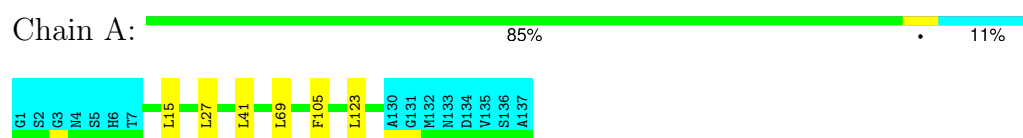
### 4.2.8 Score per residue for model 8

- Molecule 1: Major ampullate spidroin 1



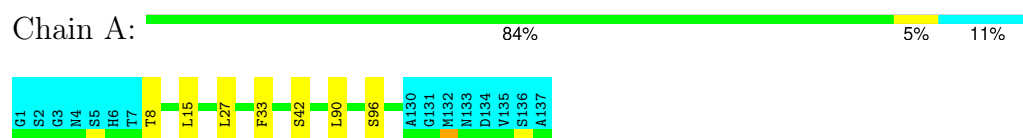
### 4.2.9 Score per residue for model 9

- Molecule 1: Major ampullate spidroin 1



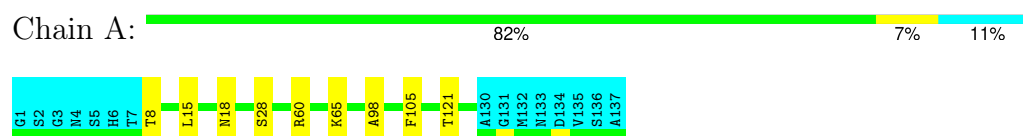
### 4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: Major ampullate spidroin 1



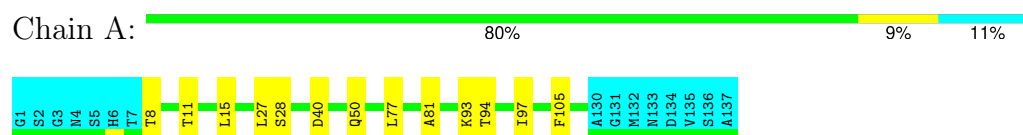
### 4.2.11 Score per residue for model 11

- Molecule 1: Major ampullate spidroin 1



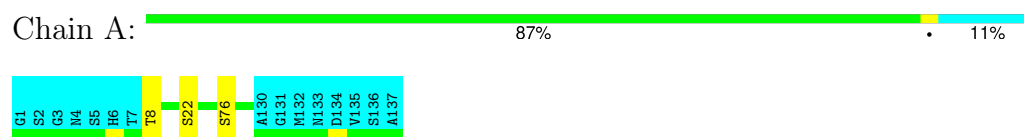
### 4.2.12 Score per residue for model 12

- Molecule 1: Major ampullate spidroin 1



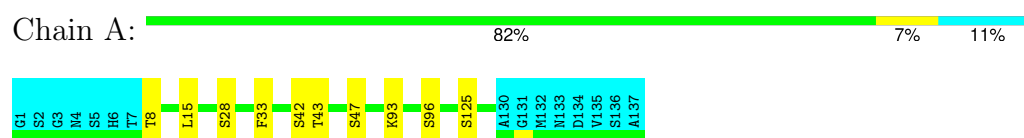
### 4.2.13 Score per residue for model 13

- Molecule 1: Major ampullate spidroin 1



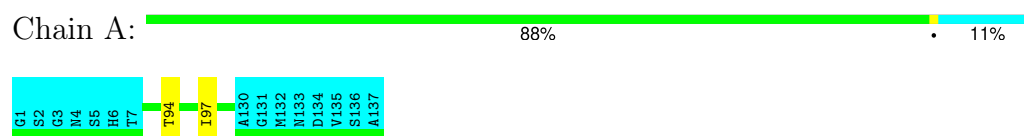
### 4.2.14 Score per residue for model 14

- Molecule 1: Major ampullate spidroin 1



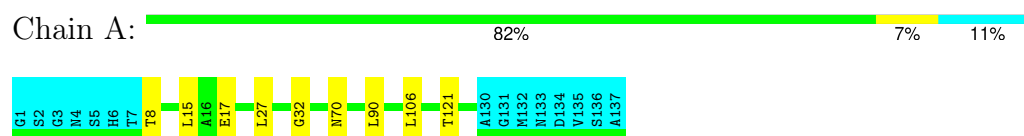
### 4.2.15 Score per residue for model 15

- Molecule 1: Major ampullate spidroin 1



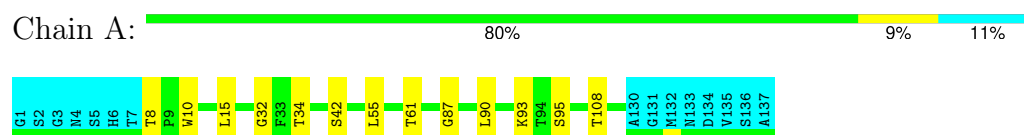
### 4.2.16 Score per residue for model 16

- Molecule 1: Major ampullate spidroin 1



### 4.2.17 Score per residue for model 17

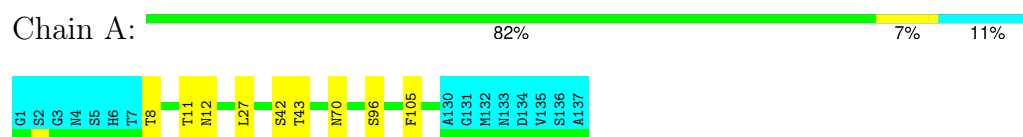
- Molecule 1: Major ampullate spidroin 1





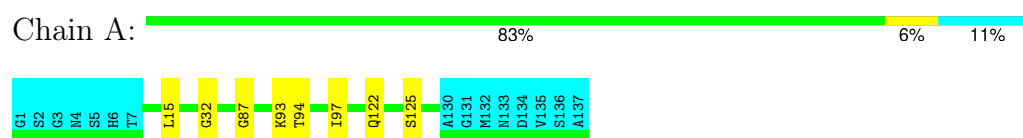
### 4.2.18 Score per residue for model 18

- Molecule 1: Major ampullate spidroin 1



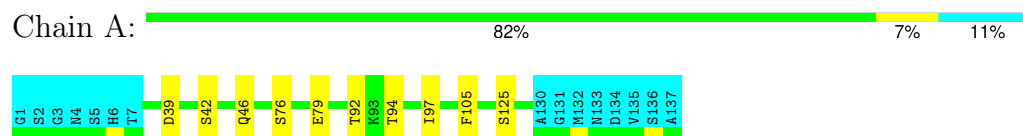
### 4.2.19 Score per residue for model 19

- Molecule 1: Major ampullate spidroin 1



### 4.2.20 Score per residue for model 20

- Molecule 1: Major ampullate spidroin 1



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *TORSION ANGLE DYNAMICS ONFORMERS*, *NUMBER CALCULATED : NULL*.

Of the 20 calculated structures, 20 were deposited, based on the following criterion: *20 structures for lowest energy*.

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

Software name	Classification	Version
OPAL	refinement	2.4.2
CYANA	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	1466
Number of shifts mapped to atoms	1466
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

## 6 Model quality [i](#)

### 6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.52±0.00	0±0/904 ( 0.0± 0.0%)	0.87±0.02	0±0/1231 ( 0.0± 0.0%)
All	All	0.52	0/18080 ( 0.0%)	0.87	1/24620 ( 0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	60	ARG	NE-CZ-NH2	-6.92	116.84	120.30	11	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	890	879	879	1±1
All	All	17800	17580	17580	16

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:THR:HA	1:A:97:ILE:HD12	0.54	1.80	19	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:PHE:CE1	1:A:97:ILE:HD11	0.49	2.42	5	1
1:A:109:THR:CG2	1:A:111:VAL:HG12	0.49	2.37	4	1
1:A:109:THR:HG23	1:A:111:VAL:HG12	0.48	1.84	4	1
1:A:27:LEU:HD11	1:A:33:PHE:CD1	0.46	2.46	10	1
1:A:27:LEU:HD21	1:A:33:PHE:CD1	0.45	2.47	4	1
1:A:98:ALA:HB2	1:A:121:THR:HG21	0.43	1.90	11	3
1:A:33:PHE:CD1	1:A:93:LYS:HE2	0.43	2.49	14	1
1:A:55:LEU:HD12	1:A:61:THR:HA	0.42	1.91	17	1
1:A:81:ALA:O	1:A:93:LYS:HE3	0.42	2.13	12	1
1:A:8:THR:HG22	1:A:9:PRO:HD2	0.41	1.92	4	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	122/137 (89%)	118±1 (97±1%)	3±2 (3±1%)	1±1 (0±1%)	27	74
All	All	2440/2740 (89%)	2364 (97%)	65 (3%)	11 (0%)	27	74

All 3 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	32	GLY	7
1	A	86	GLY	2
1	A	87	GLY	2

### 6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	99/109 (91%)	93±3 (94±3%)	6±3 (6±3%)	17 68
All	All	1980/2180 (91%)	1852 (94%)	128 (6%)	17 68

All 50 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	8	THR	13
1	A	15	LEU	13
1	A	105	PHE	9
1	A	27	LEU	6
1	A	42	SER	6
1	A	90	LEU	5
1	A	11	THR	4
1	A	65	LYS	4
1	A	96	SER	4
1	A	61	THR	3
1	A	91	SER	3
1	A	40	ASP	3
1	A	93	LYS	3
1	A	70	ASN	3
1	A	28	SER	3
1	A	125	SER	3
1	A	69	LEU	2
1	A	95	SER	2
1	A	108	THR	2
1	A	119	GLU	2
1	A	41	LEU	2
1	A	46	GLN	2
1	A	47	SER	2
1	A	76	SER	2
1	A	43	THR	2
1	A	107	GLN	1
1	A	62	SER	1
1	A	75	SER	1
1	A	89	SER	1
1	A	94	THR	1
1	A	103	ASN	1
1	A	71	MET	1
1	A	102	SER	1
1	A	29	SER	1
1	A	99	SER	1
1	A	123	LEU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	18	ASN	1
1	A	50	GLN	1
1	A	77	LEU	1
1	A	22	SER	1
1	A	17	GLU	1
1	A	106	LEU	1
1	A	121	THR	1
1	A	10	TRP	1
1	A	34	THR	1
1	A	12	ASN	1
1	A	122	GLN	1
1	A	39	ASP	1
1	A	79	GLU	1
1	A	92	THR	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

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 87% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list*

#### 7.1.1 Bookkeeping

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	1466
Number of shifts mapped to atoms	1466
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	133	$-0.68 \pm 0.10$	Should be checked
$^{13}\text{C}_\beta$	123	$0.27 \pm 0.04$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	130	$-0.57 \pm 0.12$	Should be applied
$^{15}\text{N}$	125	$0.12 \pm 0.27$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 1363 atoms were assigned a chemical shift out of a possible 1532. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	601/608 (99%)	244/247 (99%)	242/244 (99%)	115/117 (98%)
Sidechain	746/842 (89%)	512/556 (92%)	234/262 (89%)	0/24 (0%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	16/82 (20%)	14/41 (34%)	1/40 (2%)	1/1 (100%)
Overall	1363/1532 (89%)	770/844 (91%)	477/546 (87%)	116/142 (82%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 87%, i.e. 1466 atoms were assigned a chemical shift out of a possible 1681. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	656/686 (96%)	268/280 (96%)	263/274 (96%)	125/132 (95%)
Sidechain	792/906 (87%)	544/598 (91%)	248/282 (88%)	0/26 (0%)
Aromatic	18/89 (20%)	15/45 (33%)	2/42 (5%)	1/2 (50%)
Overall	1466/1681 (87%)	827/923 (90%)	513/598 (86%)	126/160 (79%)

#### 7.1.4 Statistically unusual chemical shifts ⓘ

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

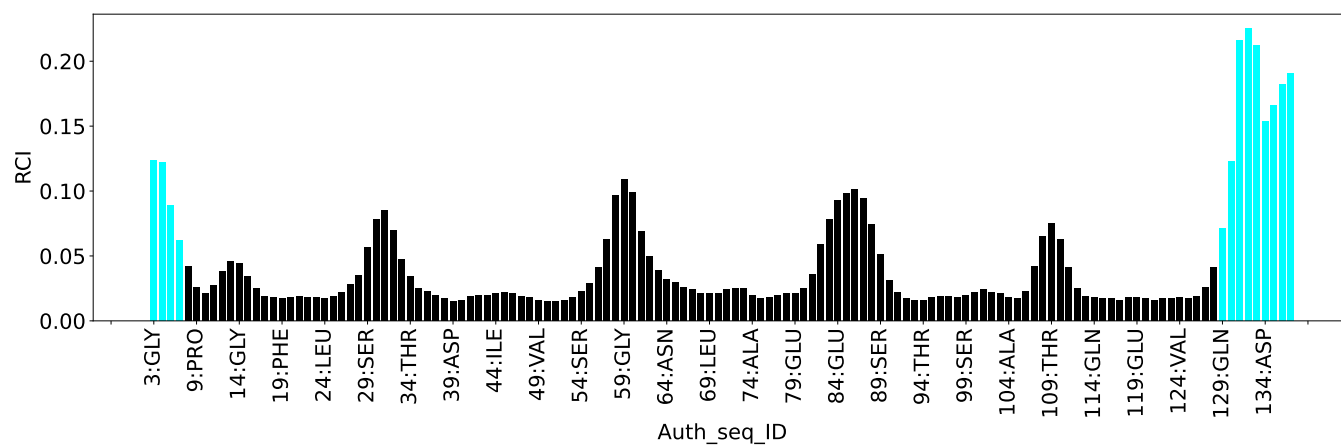
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	9	PRO	HG3	-0.88	0.33 – 3.48	-8.8
1	A	9	PRO	HG2	-0.58	0.41 – 3.45	-8.2

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

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

Random coil index (RCI) for chain A:





## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1624
Intra-residue ( $ i-j =0$ )	441
Sequential ( $ i-j =1$ )	449
Medium range ( $ i-j >1$ and $ i-j <5$ )	339
Long range ( $ i-j \geq 5$ )	395
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	11.9
Number of long range restraints per residue <sup>1</sup>	2.9

<sup>1</sup>Long 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)	4.6	0.15
0.2-0.5 (Medium)	None	None
>0.5 (Large)	1.0	1.02

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

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis

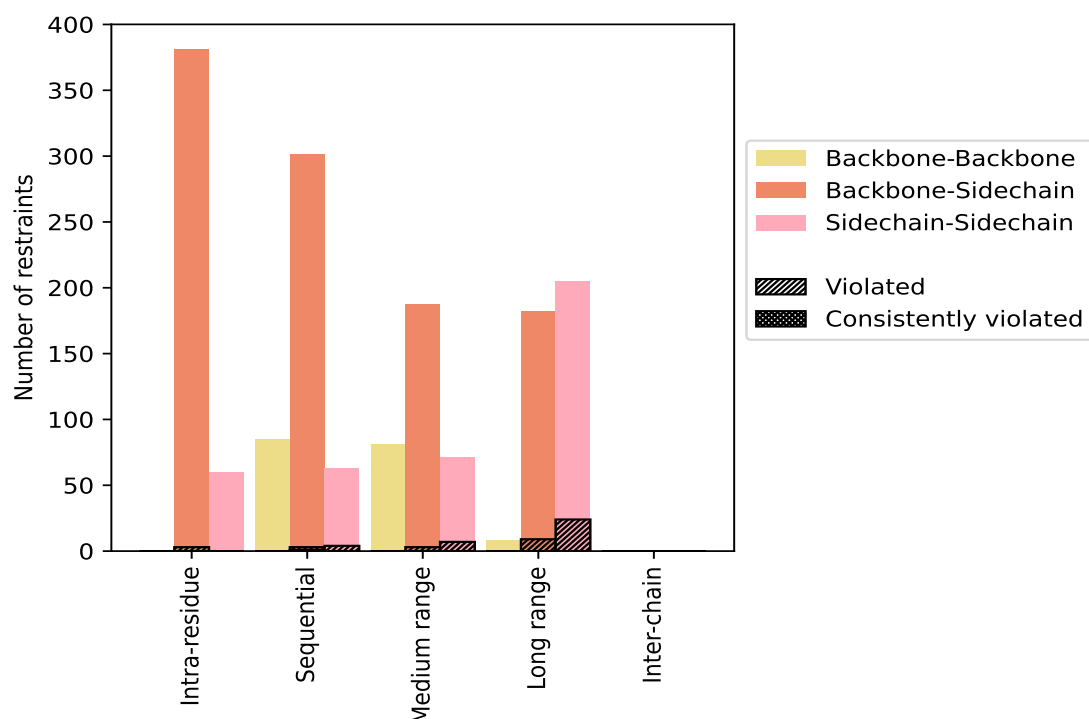
### 9.1 Summary of distance violations

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
Intra-residue ( $ i-j =0$ )	441	27.2	3	0.7	0.2	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	381	23.5	3	0.8	0.2	0	0.0	0.0
Sidechain-Sidechain	60	3.7	0	0.0	0.0	0	0.0	0.0
Sequential ( $ i-j =1$ )	449	27.6	7	1.6	0.4	1	0.2	0.1
Backbone-Backbone	85	5.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	301	18.5	3	1.0	0.2	1	0.3	0.1
Sidechain-Sidechain	63	3.9	4	6.3	0.2	0	0.0	0.0
Medium range ( $ i-j >1$ & $ i-j <5$ )	339	20.9	10	2.9	0.6	0	0.0	0.0
Backbone-Backbone	81	5.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	187	11.5	3	1.6	0.2	0	0.0	0.0
Sidechain-Sidechain	71	4.4	7	9.9	0.4	0	0.0	0.0
Long range ( $ i-j \geq 5$ )	395	24.3	33	8.4	2.0	0	0.0	0.0
Backbone-Backbone	8	0.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	182	11.2	9	4.9	0.6	0	0.0	0.0
Sidechain-Sidechain	205	12.6	24	11.7	1.5	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1624	100.0	53	3.3	3.3	1	0.1	0.1
Backbone-Backbone	174	10.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1051	64.7	18	1.7	1.1	1	0.1	0.1
Sidechain-Sidechain	399	24.6	35	8.8	2.2	0	0.0	0.0

<sup>1</sup> percentage calculated with respect to the total number of distance restraints, <sup>2</sup> percentage calculated with respect to the number of restraints in a particular restraint category, <sup>3</sup> violated in at least one model, <sup>4</sup> 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 disulfide 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 <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	0	3	3	2	0	8	0.2	0.8	0.23	0.11
2	0	3	1	2	0	6	0.21	0.7	0.22	0.11
3	0	3	3	3	0	9	0.19	0.87	0.24	0.11
4	0	2	5	2	0	9	0.2	0.88	0.24	0.12
5	0	2	3	3	0	8	0.22	0.94	0.27	0.12
6	1	1	1	3	0	6	0.22	0.79	0.26	0.1
7	0	1	1	5	0	7	0.23	0.91	0.28	0.12
8	1	2	3	6	0	12	0.18	1.02	0.25	0.11
9	0	1	1	4	0	6	0.25	0.89	0.29	0.14
10	1	1	3	5	0	10	0.19	0.88	0.23	0.11

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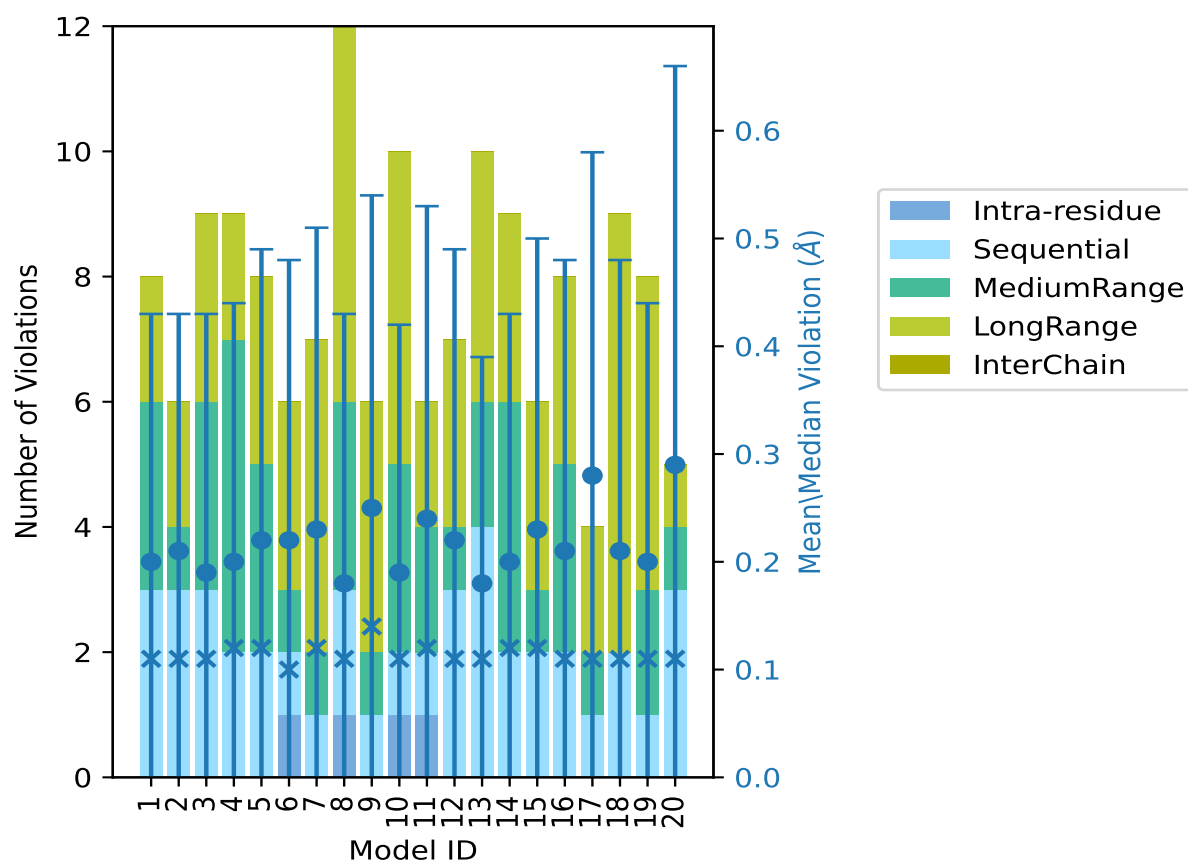
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
11	1	1	2	2	0	6	0.24	0.9	0.29	0.12
12	0	3	1	3	0	7	0.22	0.88	0.27	0.11
13	0	4	2	4	0	10	0.18	0.79	0.21	0.11
14	0	2	4	3	0	9	0.2	0.86	0.23	0.12
15	0	2	1	3	0	6	0.23	0.83	0.27	0.12
16	0	2	3	3	0	8	0.21	0.91	0.27	0.11
17	0	1	1	2	0	4	0.28	0.8	0.3	0.11
18	0	2	0	7	0	9	0.21	0.98	0.27	0.11
19	0	1	2	5	0	8	0.2	0.84	0.24	0.11
20	0	3	1	1	0	5	0.29	1.02	0.37	0.11

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

### 9.3 Distance violation statistics for the ensemble

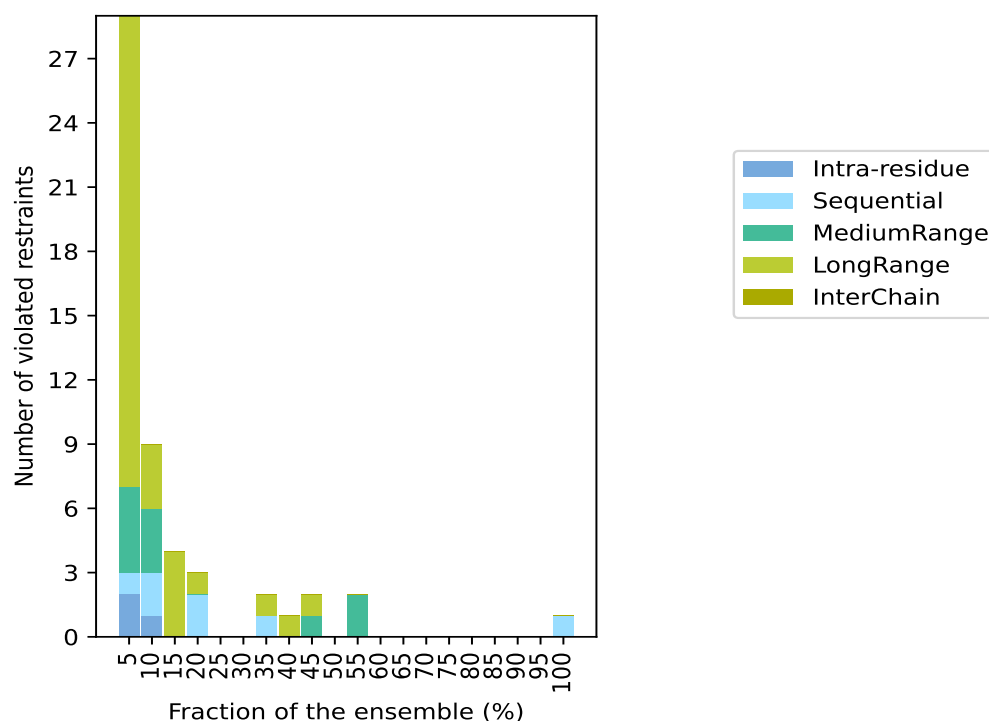
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1571(IR:438, SQ:442, MR:329, LR:362, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
2	1	4	22	0	29	1	5.0
1	2	3	3	0	9	2	10.0
0	0	0	4	0	4	3	15.0
0	2	0	1	0	3	4	20.0
0	0	0	0	0	0	5	25.0
0	0	0	0	0	0	6	30.0
0	1	0	1	0	2	7	35.0
0	0	0	1	0	1	8	40.0
0	0	1	1	0	2	9	45.0
0	0	0	0	0	0	10	50.0
0	0	2	0	0	2	11	55.0
0	0	0	0	0	0	12	60.0
0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	16	80.0
0	0	0	0	0	0	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	1	0	0	0	1	20	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

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

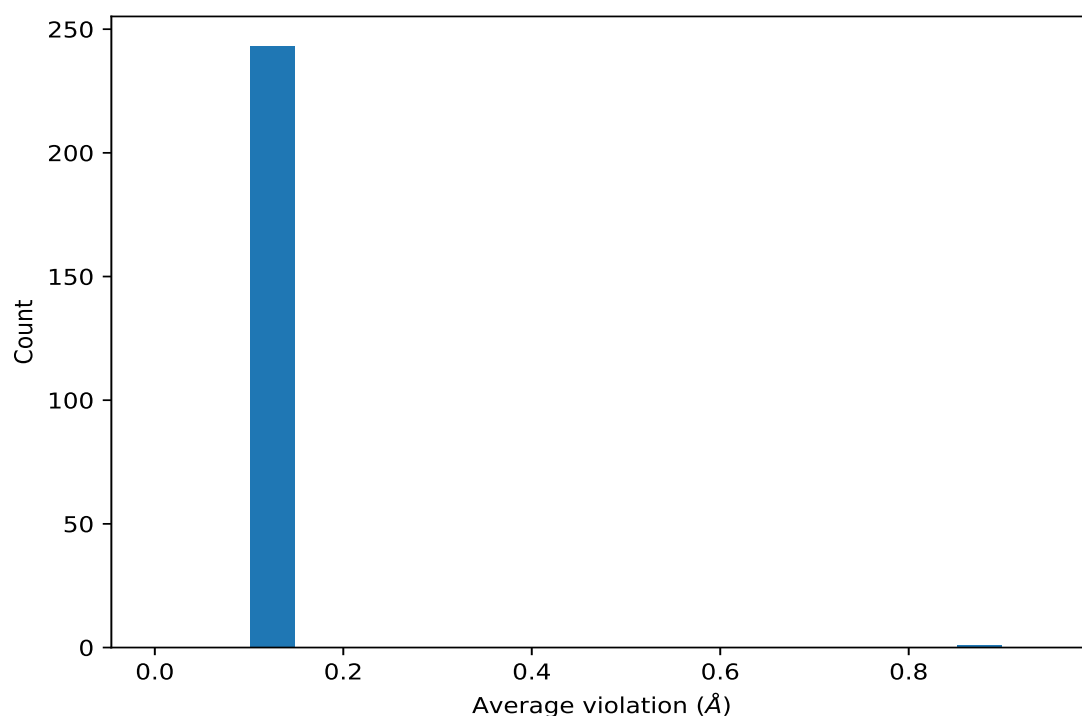


## 9.4 Most violated distance restraints in the ensemble [i](#)

### 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 <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	20	0.87	0.08	0.88
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	11	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	11	0.12	0.01	0.12
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	11	0.12	0.01	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	11	0.11	0.01	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	11	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	9	0.11	0.01	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	9	0.11	0.01	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	9	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	8	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	8	0.11	0.01	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	8	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	7	0.11	0.01	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	7	0.11	0.01	0.11
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	7	0.11	0.0	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD11	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD12	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD13	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD21	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD22	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD23	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD11	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD12	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD13	4	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD21	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD22	4	0.12	0.01	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD23	4	0.12	0.01	0.12
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD11	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD12	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD13	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD21	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD22	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD23	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD11	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD12	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD13	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD21	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD22	4	0.11	0.0	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD23	4	0.11	0.0	0.11
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG21	4	0.1	0.0	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG22	4	0.1	0.0	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG23	4	0.1	0.0	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG21	4	0.1	0.0	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG22	4	0.1	0.0	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG23	4	0.1	0.0	0.1
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD13	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD13	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD13	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD13	3	0.13	0.0	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD13	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD11	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD12	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD13	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD21	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD22	3	0.13	0.0	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD23	3	0.13	0.0	0.13
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD11	3	0.11	0.0	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD12	3	0.11	0.0	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD13	3	0.11	0.0	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD11	3	0.11	0.0	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD12	3	0.11	0.0	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD13	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB1	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB2	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB3	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB1	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB2	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB3	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB1	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB2	3	0.11	0.0	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB3	3	0.11	0.0	0.11
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD1	3	0.1	0.0	0.1
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD2	3	0.1	0.0	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD1	3	0.1	0.0	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD2	3	0.1	0.0	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD1	3	0.1	0.0	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD2	3	0.1	0.0	0.1
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB3	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB3	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB3	2	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB3	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB3	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB2	2	0.12	0.01	0.12
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB3	2	0.12	0.01	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD11	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD12	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD13	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD21	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD22	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD23	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD11	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD12	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD13	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD21	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD22	2	0.12	0.0	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD23	2	0.12	0.0	0.12
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG21	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG22	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG23	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG21	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG22	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG23	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG21	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG22	2	0.11	0.0	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG23	2	0.11	0.0	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG11	2	0.11	0.01	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG12	2	0.11	0.01	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG13	2	0.11	0.01	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG21	2	0.11	0.01	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG22	2	0.11	0.01	0.11
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG23	2	0.11	0.01	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD11	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD12	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD13	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD11	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD12	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD13	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD11	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD12	2	0.11	0.0	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD13	2	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE2	2	0.1	0.0	0.1
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE3	2	0.1	0.0	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE2	2	0.1	0.0	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE3	2	0.1	0.0	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG2	2	0.1	0.0	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG3	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG11	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG12	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG13	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG21	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG22	2	0.1	0.0	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG23	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG11	1:112:A:VAL:H	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG12	1:112:A:VAL:H	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG13	1:112:A:VAL:H	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG21	1:112:A:VAL:H	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG22	1:112:A:VAL:H	2	0.1	0.0	0.1
(1,1573)	1:111:A:VAL:HG23	1:112:A:VAL:H	2	0.1	0.0	0.1

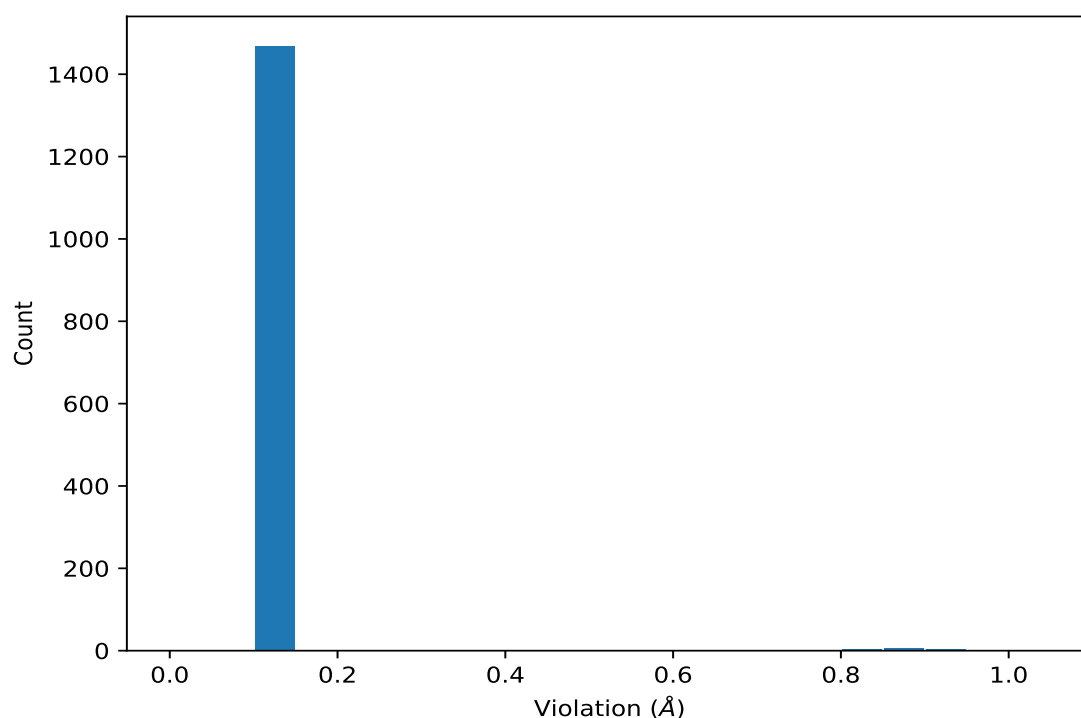
<sup>1</sup>Number of violated models, <sup>2</sup>Standard deviation

## 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)
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	8	1.02
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	20	1.02
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	18	0.98
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	5	0.94
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	7	0.91
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	16	0.91
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	11	0.9
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	9	0.89
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	4	0.88
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	10	0.88
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	12	0.88
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	3	0.87
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	14	0.86
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	19	0.84
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	15	0.83
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	1	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	17	0.8
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	6	0.79
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	13	0.79
(1,913)	1:14:A:GLY:HA2	1:15:A:LEU:HB2	2	0.7
(1,880)	1:74:A:ALA:HB1	1:123:A:LEU:HD11	9	0.15
(1,880)	1:74:A:ALA:HB1	1:123:A:LEU:HD12	9	0.15
(1,880)	1:74:A:ALA:HB1	1:123:A:LEU:HD13	9	0.15
(1,880)	1:74:A:ALA:HB2	1:123:A:LEU:HD11	9	0.15
(1,880)	1:74:A:ALA:HB2	1:123:A:LEU:HD12	9	0.15
(1,880)	1:74:A:ALA:HB2	1:123:A:LEU:HD13	9	0.15
(1,880)	1:74:A:ALA:HB3	1:123:A:LEU:HD11	9	0.15
(1,880)	1:74:A:ALA:HB3	1:123:A:LEU:HD12	9	0.15
(1,880)	1:74:A:ALA:HB3	1:123:A:LEU:HD13	9	0.15
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	1	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	1	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	1	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	5	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	5	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	5	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	5	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	5	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	5	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	5	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	7	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	7	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	7	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	7	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	7	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	7	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	7	0.14
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	7	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD22	9	0.14
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD23	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD22	9	0.14
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD23	9	0.14
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD22	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD23	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD22	9	0.14
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD23	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD22	9	0.14
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD23	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD11	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD12	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD13	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD21	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD22	9	0.14
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD23	9	0.14
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD11	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD12	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD13	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD21	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD22	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD23	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD11	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD12	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD13	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD21	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD22	3	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD23	3	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD11	19	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD12	19	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD13	19	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD21	19	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD22	19	0.13
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD23	19	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD11	19	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD12	19	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD13	19	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD21	19	0.13
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD22	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD23	19	0.13
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	9	0.13
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	9	0.13
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	9	0.13
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	9	0.13
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	9	0.13
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	9	0.13
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	9	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	4	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	4	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	4	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	16	0.13
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	16	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	16	0.13
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	16	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	16	0.13
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	16	0.13
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	16	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	16	0.13
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	16	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	16	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	16	0.13
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	16	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD22	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD22	5	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD22	5	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD22	5	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD22	5	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD11	5	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD12	5	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD13	5	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD21	5	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD22	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD23	5	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD11	1:41:A:LEU:HD23	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD12	1:41:A:LEU:HD23	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD13	1:41:A:LEU:HD23	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD21	1:41:A:LEU:HD23	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD22	1:41:A:LEU:HD23	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD11	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD12	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD13	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD21	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD22	18	0.13
(1,1306)	1:27:A:LEU:HD23	1:41:A:LEU:HD23	18	0.13
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB2	12	0.13
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB3	12	0.13
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB2	12	0.13
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB3	12	0.13
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB2	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB3	12	0.13
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB2	12	0.13
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB3	12	0.13
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB2	12	0.13
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB3	12	0.13
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB2	12	0.13
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB3	12	0.13
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG11	4	0.12
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG12	4	0.12
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG13	4	0.12
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG21	4	0.12
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG22	4	0.12
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG23	4	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	1	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	1	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	1	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	4	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	4	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	4	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	4	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	4	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	4	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	4	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	10	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	10	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	10	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	10	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	10	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	10	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	10	0.12
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	10	0.12
(1,1490)	1:77:A:LEU:HD11	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD11	1:120:A:ILE:HG22	18	0.12
(1,1490)	1:77:A:LEU:HD11	1:120:A:ILE:HG23	18	0.12
(1,1490)	1:77:A:LEU:HD12	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD12	1:120:A:ILE:HG22	18	0.12
(1,1490)	1:77:A:LEU:HD12	1:120:A:ILE:HG23	18	0.12
(1,1490)	1:77:A:LEU:HD13	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD13	1:120:A:ILE:HG22	18	0.12
(1,1490)	1:77:A:LEU:HD13	1:120:A:ILE:HG23	18	0.12
(1,1490)	1:77:A:LEU:HD21	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD21	1:120:A:ILE:HG22	18	0.12
(1,1490)	1:77:A:LEU:HD21	1:120:A:ILE:HG23	18	0.12
(1,1490)	1:77:A:LEU:HD22	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD22	1:120:A:ILE:HG22	18	0.12
(1,1490)	1:77:A:LEU:HD22	1:120:A:ILE:HG23	18	0.12
(1,1490)	1:77:A:LEU:HD23	1:120:A:ILE:HG21	18	0.12
(1,1490)	1:77:A:LEU:HD23	1:120:A:ILE:HG22	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1490)	1:77:A:LEU:HD23	1:120:A:ILE:HG23	18	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD11	15	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD12	15	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD13	15	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD21	15	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD22	15	0.12
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD23	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD11	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD12	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD13	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD21	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD22	15	0.12
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD23	15	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD11	11	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD12	11	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD13	11	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD21	11	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD22	11	0.12
(1,1454)	1:69:A:LEU:HA	1:69:A:LEU:HD23	11	0.12
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	12	0.12
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	12	0.12
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	14	0.12
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	14	0.12
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	14	0.12
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	14	0.12
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	14	0.12
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	14	0.12
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	14	0.12
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	14	0.12
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	14	0.12
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	14	0.12
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	14	0.12
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	3	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	3	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	3	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	3	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	3	0.12
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	3	0.12
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	3	0.12
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	3	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	10	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	10	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	10	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	13	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	13	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	13	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	13	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	13	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	13	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	13	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	14	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	14	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	14	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	14	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	14	0.12
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	14	0.12
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	14	0.12
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	14	0.12
(1,1228)	1:15:A:LEU:HD11	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD11	1:109:A:THR:HG22	7	0.12
(1,1228)	1:15:A:LEU:HD11	1:109:A:THR:HG23	7	0.12
(1,1228)	1:15:A:LEU:HD12	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD12	1:109:A:THR:HG22	7	0.12
(1,1228)	1:15:A:LEU:HD12	1:109:A:THR:HG23	7	0.12
(1,1228)	1:15:A:LEU:HD13	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD13	1:109:A:THR:HG22	7	0.12
(1,1228)	1:15:A:LEU:HD13	1:109:A:THR:HG23	7	0.12
(1,1228)	1:15:A:LEU:HD21	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD21	1:109:A:THR:HG22	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1228)	1:15:A:LEU:HD21	1:109:A:THR:HG23	7	0.12
(1,1228)	1:15:A:LEU:HD22	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD22	1:109:A:THR:HG22	7	0.12
(1,1228)	1:15:A:LEU:HD22	1:109:A:THR:HG23	7	0.12
(1,1228)	1:15:A:LEU:HD23	1:109:A:THR:HG21	7	0.12
(1,1228)	1:15:A:LEU:HD23	1:109:A:THR:HG22	7	0.12
(1,1228)	1:15:A:LEU:HD23	1:109:A:THR:HG23	7	0.12
(1,1227)	1:15:A:LEU:HD11	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD11	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD11	1:108:A:THR:HG23	5	0.12
(1,1227)	1:15:A:LEU:HD12	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD12	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD12	1:108:A:THR:HG23	5	0.12
(1,1227)	1:15:A:LEU:HD13	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD13	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD13	1:108:A:THR:HG23	5	0.12
(1,1227)	1:15:A:LEU:HD21	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD21	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD21	1:108:A:THR:HG23	5	0.12
(1,1227)	1:15:A:LEU:HD22	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD22	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD22	1:108:A:THR:HG23	5	0.12
(1,1227)	1:15:A:LEU:HD23	1:108:A:THR:HG21	5	0.12
(1,1227)	1:15:A:LEU:HD23	1:108:A:THR:HG22	5	0.12
(1,1227)	1:15:A:LEU:HD23	1:108:A:THR:HG23	5	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD11	14	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD12	14	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD13	14	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD21	14	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD22	14	0.12
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD23	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD11	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD12	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD13	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD21	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD22	14	0.12
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD23	14	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	7	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	7	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	7	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	7	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	7	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	7	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	7	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	7	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	10	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	10	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	10	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	10	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	10	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	10	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	10	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	10	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	10	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	11	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	11	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	11	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	11	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	11	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	11	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	11	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	11	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	11	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	19	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	19	0.12
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	19	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	19	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	19	0.12
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	19	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	19	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	19	0.12
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	19	0.12
(1,891)	1:101:A:LEU:HD11	1:120:A:ILE:HG21	15	0.12
(1,891)	1:101:A:LEU:HD11	1:120:A:ILE:HG22	15	0.12
(1,891)	1:101:A:LEU:HD11	1:120:A:ILE:HG23	15	0.12
(1,891)	1:101:A:LEU:HD12	1:120:A:ILE:HG21	15	0.12
(1,891)	1:101:A:LEU:HD12	1:120:A:ILE:HG22	15	0.12
(1,891)	1:101:A:LEU:HD12	1:120:A:ILE:HG23	15	0.12
(1,891)	1:101:A:LEU:HD13	1:120:A:ILE:HG21	15	0.12
(1,891)	1:101:A:LEU:HD13	1:120:A:ILE:HG22	15	0.12
(1,891)	1:101:A:LEU:HD13	1:120:A:ILE:HG23	15	0.12
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD11	18	0.12
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD12	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD13	18	0.12
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD11	18	0.12
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD12	18	0.12
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD13	18	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	4	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	4	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	4	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	4	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	4	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	4	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	4	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	4	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	4	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	14	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	14	0.12
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	14	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	14	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	14	0.12
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	14	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	14	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	14	0.12
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	14	0.12
(1,1556)	1:106:A:LEU:HD11	1:111:A:VAL:HA	19	0.11
(1,1556)	1:106:A:LEU:HD12	1:111:A:VAL:HA	19	0.11
(1,1556)	1:106:A:LEU:HD13	1:111:A:VAL:HA	19	0.11
(1,1556)	1:106:A:LEU:HD21	1:111:A:VAL:HA	19	0.11
(1,1556)	1:106:A:LEU:HD22	1:111:A:VAL:HA	19	0.11
(1,1556)	1:106:A:LEU:HD23	1:111:A:VAL:HA	19	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG11	8	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG12	8	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG13	8	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG21	8	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG22	8	0.11
(1,1543)	1:105:A:PHE:HB2	1:112:A:VAL:HG23	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG11	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG12	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG13	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG21	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG22	8	0.11
(1,1543)	1:105:A:PHE:HB3	1:112:A:VAL:HG23	8	0.11
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD11	8	0.11
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD12	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD13	8	0.11
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD21	8	0.11
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD22	8	0.11
(1,1518)	1:90:A:LEU:HA	1:90:A:LEU:HD23	8	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD11	7	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD12	7	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD13	7	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD21	7	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD22	7	0.11
(1,1494)	1:78:A:ALA:HA	1:90:A:LEU:HD23	7	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	8	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	8	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	8	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	13	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	13	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	13	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	13	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	13	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	13	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	13	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	14	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	14	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	14	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	14	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	14	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	14	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	14	0.11
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	14	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD11	12	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD12	12	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD13	12	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD21	12	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD22	12	0.11
(1,1468)	1:71:A:MET:HG2	1:123:A:LEU:HD23	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD11	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD12	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD13	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD21	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD22	12	0.11
(1,1468)	1:71:A:MET:HG3	1:123:A:LEU:HD23	12	0.11
(1,1423)	1:55:A:LEU:HD11	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD11	1:65:A:LYS:HG3	20	0.11
(1,1423)	1:55:A:LEU:HD12	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD12	1:65:A:LYS:HG3	20	0.11
(1,1423)	1:55:A:LEU:HD13	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD13	1:65:A:LYS:HG3	20	0.11
(1,1423)	1:55:A:LEU:HD21	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD21	1:65:A:LYS:HG3	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1423)	1:55:A:LEU:HD22	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD22	1:65:A:LYS:HG3	20	0.11
(1,1423)	1:55:A:LEU:HD23	1:65:A:LYS:HG2	20	0.11
(1,1423)	1:55:A:LEU:HD23	1:65:A:LYS:HG3	20	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	3	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	3	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	10	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	10	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	11	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	11	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	15	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	15	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	15	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	15	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	15	0.11
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	15	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	2	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	2	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	2	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	10	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	10	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	10	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	10	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	10	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	10	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	10	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	14	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	14	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	14	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	19	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	19	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	19	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	19	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	19	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	19	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	19	0.11
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	19	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	1	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	1	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	1	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	1	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	1	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	1	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	1	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	4	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	4	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	4	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	8	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	8	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	8	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	8	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	8	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	8	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	8	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	16	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	16	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	16	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	16	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	16	0.11
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	16	0.11
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	16	0.11
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	16	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD11	7	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD12	7	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD13	7	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD21	7	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD22	7	0.11
(1,1337)	1:33:A:PHE:HD1	1:41:A:LEU:HD23	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD11	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD12	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD13	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD21	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD22	7	0.11
(1,1337)	1:33:A:PHE:HD2	1:41:A:LEU:HD23	7	0.11
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD11	1:28:A:SER:HB3	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD12	1:28:A:SER:HB3	18	0.11
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD13	1:28:A:SER:HB3	18	0.11
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD21	1:28:A:SER:HB3	18	0.11
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD22	1:28:A:SER:HB3	18	0.11
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB2	18	0.11
(1,1296)	1:27:A:LEU:HD23	1:28:A:SER:HB3	18	0.11
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	1	0.11
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	2	0.11
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	14	0.11
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	20	0.11
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	20	0.11
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	20	0.11
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	20	0.11
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	20	0.11
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	20	0.11
(1,1258)	1:20:A:LEU:HD11	1:49:A:VAL:HB	13	0.11
(1,1258)	1:20:A:LEU:HD12	1:49:A:VAL:HB	13	0.11
(1,1258)	1:20:A:LEU:HD13	1:49:A:VAL:HB	13	0.11
(1,1258)	1:20:A:LEU:HD21	1:49:A:VAL:HB	13	0.11
(1,1258)	1:20:A:LEU:HD22	1:49:A:VAL:HB	13	0.11
(1,1258)	1:20:A:LEU:HD23	1:49:A:VAL:HB	13	0.11
(1,1253)	1:20:A:LEU:HD11	1:46:A:GLN:HA	10	0.11
(1,1253)	1:20:A:LEU:HD12	1:46:A:GLN:HA	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1253)	1:20:A:LEU:HD13	1:46:A:GLN:HA	10	0.11
(1,1253)	1:20:A:LEU:HD21	1:46:A:GLN:HA	10	0.11
(1,1253)	1:20:A:LEU:HD22	1:46:A:GLN:HA	10	0.11
(1,1253)	1:20:A:LEU:HD23	1:46:A:GLN:HA	10	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD11	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD12	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD13	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD21	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD22	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD23	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD11	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD12	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD13	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD21	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD22	3	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD23	3	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD11	12	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD12	12	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD13	12	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD21	12	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD22	12	0.11
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD23	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD11	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD12	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD13	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD21	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD22	12	0.11
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD23	12	0.11
(1,1225)	1:15:A:LEU:HD11	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD11	1:19:A:PHE:HB3	5	0.11
(1,1225)	1:15:A:LEU:HD12	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD12	1:19:A:PHE:HB3	5	0.11
(1,1225)	1:15:A:LEU:HD13	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD13	1:19:A:PHE:HB3	5	0.11
(1,1225)	1:15:A:LEU:HD21	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD21	1:19:A:PHE:HB3	5	0.11
(1,1225)	1:15:A:LEU:HD22	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD22	1:19:A:PHE:HB3	5	0.11
(1,1225)	1:15:A:LEU:HD23	1:19:A:PHE:HB2	5	0.11
(1,1225)	1:15:A:LEU:HD23	1:19:A:PHE:HB3	5	0.11
(1,1222)	1:15:A:LEU:HD11	1:18:A:ASN:H	4	0.11
(1,1222)	1:15:A:LEU:HD12	1:18:A:ASN:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1222)	1:15:A:LEU:HD13	1:18:A:ASN:H	4	0.11
(1,1222)	1:15:A:LEU:HD21	1:18:A:ASN:H	4	0.11
(1,1222)	1:15:A:LEU:HD22	1:18:A:ASN:H	4	0.11
(1,1222)	1:15:A:LEU:HD23	1:18:A:ASN:H	4	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD11	10	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD12	10	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD13	10	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD21	10	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD22	10	0.11
(1,1215)	1:10:A:TRP:HB2	1:69:A:LEU:HD23	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD11	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD12	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD13	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD21	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD22	10	0.11
(1,1215)	1:10:A:TRP:HB3	1:69:A:LEU:HD23	10	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB1	8	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB2	8	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB3	8	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB1	8	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB2	8	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB3	8	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB1	8	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB2	8	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB3	8	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB1	16	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB2	16	0.11
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB3	16	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB1	16	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB2	16	0.11
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB3	16	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB1	16	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB2	16	0.11
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB3	16	0.11
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD1	16	0.11
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD2	16	0.11
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD1	16	0.11
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD2	16	0.11
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD1	16	0.11
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD2	16	0.11
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG21	1	0.11
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG22	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG23	1	0.11
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG21	1	0.11
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG22	1	0.11
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG23	1	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	2	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	2	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	2	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	2	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	2	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	2	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	2	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	2	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	2	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	6	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	6	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	6	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	6	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	6	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	6	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	6	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	6	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	6	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	13	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	13	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	13	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	13	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	13	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	13	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	13	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	13	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	13	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	18	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	18	0.11
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	18	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	18	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	18	0.11
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	18	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	18	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	18	0.11
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	18	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG21	4	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG22	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG23	4	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG21	4	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG22	4	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG23	4	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG21	4	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG22	4	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG23	4	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG21	19	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG22	19	0.11
(1,938)	1:15:A:LEU:HD11	1:109:A:THR:HG23	19	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG21	19	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG22	19	0.11
(1,938)	1:15:A:LEU:HD12	1:109:A:THR:HG23	19	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG21	19	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG22	19	0.11
(1,938)	1:15:A:LEU:HD13	1:109:A:THR:HG23	19	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD11	13	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD12	13	0.11
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD13	13	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD11	13	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD12	13	0.11
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD13	13	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD11	13	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD12	13	0.11
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD13	13	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD11	5	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD12	5	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD13	5	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD11	5	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD12	5	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD13	5	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD11	12	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD12	12	0.11
(1,866)	1:73:A:PHE:HD1	1:120:A:ILE:HD13	12	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD11	12	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD12	12	0.11
(1,866)	1:73:A:PHE:HD2	1:120:A:ILE:HD13	12	0.11
(1,810)	1:19:A:PHE:HD1	1:104:A:ALA:HB1	17	0.11
(1,810)	1:19:A:PHE:HD1	1:104:A:ALA:HB2	17	0.11
(1,810)	1:19:A:PHE:HD1	1:104:A:ALA:HB3	17	0.11
(1,810)	1:19:A:PHE:HD2	1:104:A:ALA:HB1	17	0.11
(1,810)	1:19:A:PHE:HD2	1:104:A:ALA:HB2	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:19:A:PHE:HD2	1:104:A:ALA:HB3	17	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	8	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	8	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	8	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	8	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	8	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	8	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	8	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	8	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	8	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	9	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	9	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	9	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	9	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	9	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	9	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	9	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	9	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	9	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	11	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	11	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	11	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	11	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	11	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	11	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	11	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	11	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	11	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	12	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	12	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	12	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	12	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	12	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	12	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	12	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	12	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	12	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	15	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	15	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	15	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	15	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	15	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	15	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	15	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	15	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	17	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	17	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	17	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	17	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	17	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	17	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	17	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	17	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	17	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	20	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	20	0.11
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	20	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	20	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	20	0.11
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	20	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	20	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	20	0.11
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	20	0.11
(1,1573)	1:111:A:VAL:HG11	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG12	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG13	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG21	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG22	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG23	1:112:A:VAL:H	2	0.1
(1,1573)	1:111:A:VAL:HG11	1:112:A:VAL:H	20	0.1
(1,1573)	1:111:A:VAL:HG12	1:112:A:VAL:H	20	0.1
(1,1573)	1:111:A:VAL:HG13	1:112:A:VAL:H	20	0.1
(1,1573)	1:111:A:VAL:HG21	1:112:A:VAL:H	20	0.1
(1,1573)	1:111:A:VAL:HG22	1:112:A:VAL:H	20	0.1
(1,1573)	1:111:A:VAL:HG23	1:112:A:VAL:H	20	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG11	19	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG12	19	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG13	19	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG21	19	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG22	19	0.1
(1,1568)	1:109:A:THR:HB	1:111:A:VAL:HG23	19	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG11	6	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG12	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG13	6	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG21	6	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG22	6	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG23	6	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG11	13	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG12	13	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG13	13	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG21	13	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG22	13	0.1
(1,1567)	1:109:A:THR:H	1:111:A:VAL:HG23	13	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG11	8	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG12	8	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG13	8	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG21	8	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG22	8	0.1
(1,1545)	1:105:A:PHE:HD1	1:112:A:VAL:HG23	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG11	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG12	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG13	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG21	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG22	8	0.1
(1,1545)	1:105:A:PHE:HD2	1:112:A:VAL:HG23	8	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG2	6	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG3	6	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG2	10	0.1
(1,1512)	1:84:A:GLU:HA	1:84:A:GLU:HG3	10	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD11	2	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD12	2	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD13	2	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD21	2	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD22	2	0.1
(1,1502)	1:81:A:ALA:HA	1:90:A:LEU:HD23	2	0.1
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD11	6	0.1
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD11	1:120:A:ILE:HD13	6	0.1
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD11	6	0.1
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD12	1:120:A:ILE:HD13	6	0.1
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD11	6	0.1
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD13	1:120:A:ILE:HD13	6	0.1
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD11	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD21	1:120:A:ILE:HD13	6	0.1
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD11	6	0.1
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD22	1:120:A:ILE:HD13	6	0.1
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD11	6	0.1
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD12	6	0.1
(1,1491)	1:77:A:LEU:HD23	1:120:A:ILE:HD13	6	0.1
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE2	10	0.1
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE3	10	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE2	10	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE3	10	0.1
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE2	11	0.1
(1,1435)	1:62:A:SER:HB2	1:65:A:LYS:HE3	11	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE2	11	0.1
(1,1435)	1:62:A:SER:HB3	1:65:A:LYS:HE3	11	0.1
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD11	1:60:A:ARG:HB3	18	0.1
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD12	1:60:A:ARG:HB3	18	0.1
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD13	1:60:A:ARG:HB3	18	0.1
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD21	1:60:A:ARG:HB3	18	0.1
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD22	1:60:A:ARG:HB3	18	0.1
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB2	18	0.1
(1,1420)	1:55:A:LEU:HD23	1:60:A:ARG:HB3	18	0.1
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB2	8	0.1
(1,1375)	1:41:A:LEU:HD11	1:45:A:ALA:HB3	8	0.1
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB2	8	0.1
(1,1375)	1:41:A:LEU:HD12	1:45:A:ALA:HB3	8	0.1
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB2	8	0.1
(1,1375)	1:41:A:LEU:HD13	1:45:A:ALA:HB3	8	0.1
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB2	8	0.1
(1,1375)	1:41:A:LEU:HD21	1:45:A:ALA:HB3	8	0.1
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB2	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:41:A:LEU:HD22	1:45:A:ALA:HB3	8	0.1
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB1	8	0.1
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB2	8	0.1
(1,1375)	1:41:A:LEU:HD23	1:45:A:ALA:HB3	8	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	3	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	3	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	3	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD11	5	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD12	5	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD13	5	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD21	5	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD22	5	0.1
(1,1343)	1:35:A:ALA:HB1	1:38:A:LEU:HD23	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD11	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD12	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD13	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD21	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD22	5	0.1
(1,1343)	1:35:A:ALA:HB2	1:38:A:LEU:HD23	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD11	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD12	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD13	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD21	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD22	5	0.1
(1,1343)	1:35:A:ALA:HB3	1:38:A:LEU:HD23	5	0.1
(1,1303)	1:27:A:LEU:HD11	1:38:A:LEU:HA	16	0.1
(1,1303)	1:27:A:LEU:HD12	1:38:A:LEU:HA	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1303)	1:27:A:LEU:HD13	1:38:A:LEU:HA	16	0.1
(1,1303)	1:27:A:LEU:HD21	1:38:A:LEU:HA	16	0.1
(1,1303)	1:27:A:LEU:HD22	1:38:A:LEU:HA	16	0.1
(1,1303)	1:27:A:LEU:HD23	1:38:A:LEU:HA	16	0.1
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	3	0.1
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	4	0.1
(1,1295)	1:27:A:LEU:HD11	1:28:A:SER:HA	13	0.1
(1,1295)	1:27:A:LEU:HD12	1:28:A:SER:HA	13	0.1
(1,1295)	1:27:A:LEU:HD13	1:28:A:SER:HA	13	0.1
(1,1295)	1:27:A:LEU:HD21	1:28:A:SER:HA	13	0.1
(1,1295)	1:27:A:LEU:HD22	1:28:A:SER:HA	13	0.1
(1,1295)	1:27:A:LEU:HD23	1:28:A:SER:HA	13	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD11	16	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD12	16	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD13	16	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD21	16	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD22	16	0.1
(1,1271)	1:23:A:PHE:HD1	1:24:A:LEU:HD23	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD11	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD12	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD13	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD21	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD22	16	0.1
(1,1271)	1:23:A:PHE:HD2	1:24:A:LEU:HD23	16	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD11	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD12	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD13	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD21	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD22	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD23	8	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD11	8	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD12	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD13	8	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD21	8	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD22	8	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD23	8	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD11	13	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD12	13	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD13	13	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD21	13	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD22	13	0.1
(1,1242)	1:19:A:PHE:HD1	1:20:A:LEU:HD23	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD11	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD12	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD13	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD21	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD22	13	0.1
(1,1242)	1:19:A:PHE:HD2	1:20:A:LEU:HD23	13	0.1
(1,1166)	1:105:A:PHE:HB3	1:112:A:VAL:HG11	8	0.1
(1,1166)	1:105:A:PHE:HB3	1:112:A:VAL:HG12	8	0.1
(1,1166)	1:105:A:PHE:HB3	1:112:A:VAL:HG13	8	0.1
(1,1141)	1:77:A:LEU:HD21	1:97:A:ILE:HG21	9	0.1
(1,1141)	1:77:A:LEU:HD21	1:97:A:ILE:HG22	9	0.1
(1,1141)	1:77:A:LEU:HD21	1:97:A:ILE:HG23	9	0.1
(1,1141)	1:77:A:LEU:HD22	1:97:A:ILE:HG21	9	0.1
(1,1141)	1:77:A:LEU:HD22	1:97:A:ILE:HG22	9	0.1
(1,1141)	1:77:A:LEU:HD22	1:97:A:ILE:HG23	9	0.1
(1,1141)	1:77:A:LEU:HD23	1:97:A:ILE:HG21	9	0.1
(1,1141)	1:77:A:LEU:HD23	1:97:A:ILE:HG22	9	0.1
(1,1141)	1:77:A:LEU:HD23	1:97:A:ILE:HG23	9	0.1
(1,1132)	1:33:A:PHE:H	1:97:A:ILE:HD11	18	0.1
(1,1132)	1:33:A:PHE:H	1:97:A:ILE:HD12	18	0.1
(1,1132)	1:33:A:PHE:H	1:97:A:ILE:HD13	18	0.1
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB1	7	0.1
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB2	7	0.1
(1,1072)	1:90:A:LEU:HD11	1:128:A:ALA:HB3	7	0.1
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB1	7	0.1
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB2	7	0.1
(1,1072)	1:90:A:LEU:HD12	1:128:A:ALA:HB3	7	0.1
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB1	7	0.1
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB2	7	0.1
(1,1072)	1:90:A:LEU:HD13	1:128:A:ALA:HB3	7	0.1
(1,1030)	1:44:A:ILE:HG21	1:48:A:LEU:HD11	1	0.1
(1,1030)	1:44:A:ILE:HG21	1:48:A:LEU:HD12	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:44:A:ILE:HG21	1:48:A:LEU:HD13	1	0.1
(1,1030)	1:44:A:ILE:HG22	1:48:A:LEU:HD11	1	0.1
(1,1030)	1:44:A:ILE:HG22	1:48:A:LEU:HD12	1	0.1
(1,1030)	1:44:A:ILE:HG22	1:48:A:LEU:HD13	1	0.1
(1,1030)	1:44:A:ILE:HG23	1:48:A:LEU:HD11	1	0.1
(1,1030)	1:44:A:ILE:HG23	1:48:A:LEU:HD12	1	0.1
(1,1030)	1:44:A:ILE:HG23	1:48:A:LEU:HD13	1	0.1
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD1	1	0.1
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD2	1	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD1	1	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD2	1	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD1	1	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD2	1	0.1
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD1	19	0.1
(1,1021)	1:44:A:ILE:HG21	1:73:A:PHE:HD2	19	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD1	19	0.1
(1,1021)	1:44:A:ILE:HG22	1:73:A:PHE:HD2	19	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD1	19	0.1
(1,1021)	1:44:A:ILE:HG23	1:73:A:PHE:HD2	19	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG21	5	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG22	5	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG23	5	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG21	5	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG22	5	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG23	5	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG21	13	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG22	13	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG23	13	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG21	13	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG22	13	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG23	13	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG21	15	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG22	15	0.1
(1,1020)	1:116:A:PHE:HD1	1:117:A:ILE:HG23	15	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG21	15	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG22	15	0.1
(1,1020)	1:116:A:PHE:HD2	1:117:A:ILE:HG23	15	0.1
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG21	17	0.1
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG22	17	0.1
(1,976)	1:77:A:LEU:HD11	1:97:A:ILE:HG23	17	0.1
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG21	17	0.1
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG22	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:77:A:LEU:HD12	1:97:A:ILE:HG23	17	0.1
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG21	17	0.1
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG22	17	0.1
(1,976)	1:77:A:LEU:HD13	1:97:A:ILE:HG23	17	0.1
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD11	6	0.1
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD12	6	0.1
(1,870)	1:74:A:ALA:HB1	1:120:A:ILE:HD13	6	0.1
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD11	6	0.1
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD12	6	0.1
(1,870)	1:74:A:ALA:HB2	1:120:A:ILE:HD13	6	0.1
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD11	6	0.1
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD12	6	0.1
(1,870)	1:74:A:ALA:HB3	1:120:A:ILE:HD13	6	0.1
(1,850)	1:97:A:ILE:HD11	1:124:A:VAL:H	18	0.1
(1,850)	1:97:A:ILE:HD12	1:124:A:VAL:H	18	0.1
(1,850)	1:97:A:ILE:HD13	1:124:A:VAL:H	18	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	3	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	3	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	3	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	3	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	3	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	3	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	3	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	3	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	3	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD21	16	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD22	16	0.1
(1,807)	1:98:A:ALA:HB1	1:101:A:LEU:HD23	16	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD21	16	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD22	16	0.1
(1,807)	1:98:A:ALA:HB2	1:101:A:LEU:HD23	16	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD21	16	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD22	16	0.1
(1,807)	1:98:A:ALA:HB3	1:101:A:LEU:HD23	16	0.1
(1,780)	1:78:A:ALA:HB1	1:127:A:PHE:HA	3	0.1
(1,780)	1:78:A:ALA:HB2	1:127:A:PHE:HA	3	0.1
(1,780)	1:78:A:ALA:HB3	1:127:A:PHE:HA	3	0.1
(1,579)	1:78:A:ALA:HA	1:128:A:ALA:HB1	8	0.1
(1,579)	1:78:A:ALA:HA	1:128:A:ALA:HB2	8	0.1
(1,579)	1:78:A:ALA:HA	1:128:A:ALA:HB3	8	0.1
(1,421)	1:8:A:THR:HG21	1:11:A:THR:H	14	0.1
(1,421)	1:8:A:THR:HG22	1:11:A:THR:H	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:8:A:THR:HG23	1:11:A:THR:H	14	0.1

## 10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found