



# Full wwPDB NMR Structure Validation Report ⓘ

Nov 7, 2023 – 07:12 pm GMT

PDB ID : 6R95  
BMRB ID : 34387  
Title : The solution NMR structure of cis-dicarba-brevinin-1BYa in 33% trifluoroethanol  
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Deposited on : 2019-04-02

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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:

Cyrange : Kirchner and Güntert (2011)  
NmrClust : Kelley et al. (1996)  
MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

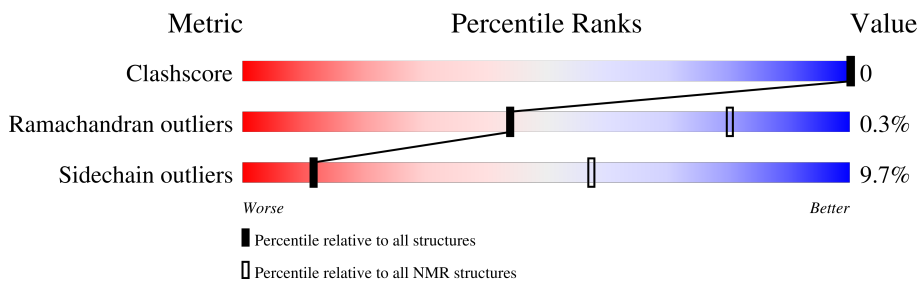
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 49%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	24	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

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:4-A:17, A:19-A:23 (19)	0.26	1

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 5 clusters and 5 single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 390 atoms, of which 208 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Brevinin-1BYa.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	24	390	128	208	28	26	0

There are 2 discrepancies between the modelled and reference sequences:

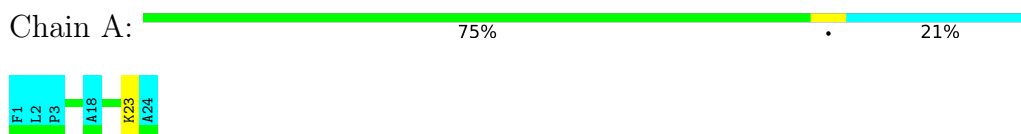
Chain	Residue	Modelled	Actual	Comment	Reference
A	18	ABA	CYS	conflict	UNP P84111
A	24	ABA	-	expression tag	UNP P84111

## 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: Brevinin-1BYa

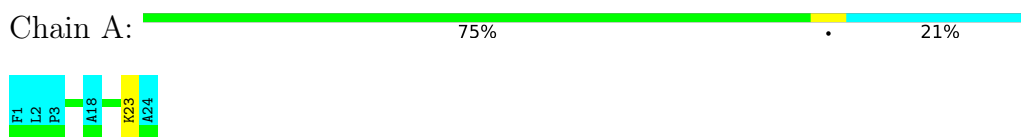


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

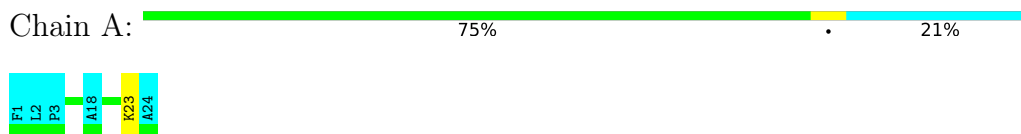
#### 4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Brevinin-1BYa



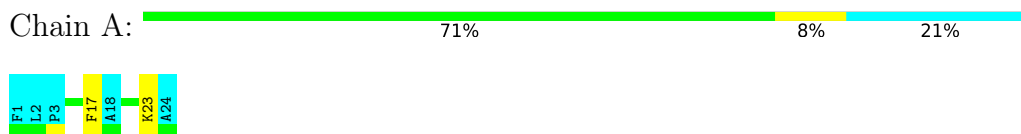
#### 4.2.2 Score per residue for model 2

- Molecule 1: Brevinin-1BYa



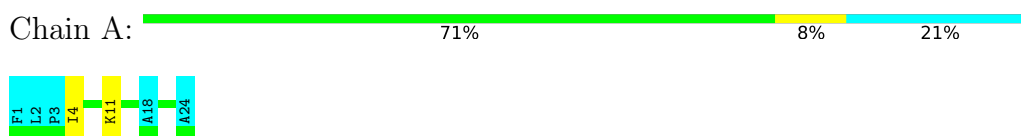
### 4.2.3 Score per residue for model 3

- Molecule 1: Brevinin-1BYa



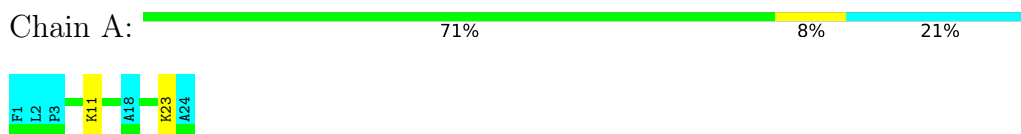
### 4.2.4 Score per residue for model 4

- Molecule 1: Brevinin-1BYa



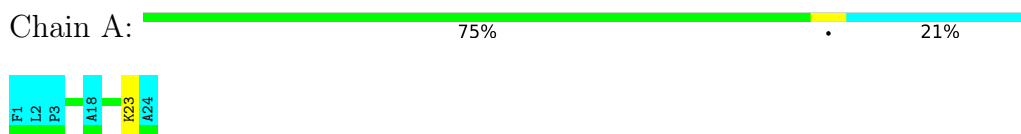
### 4.2.5 Score per residue for model 5

- Molecule 1: Brevinin-1BYa



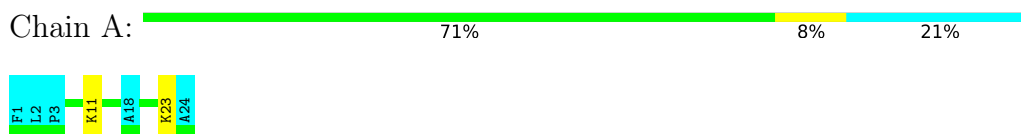
### 4.2.6 Score per residue for model 6

- Molecule 1: Brevinin-1BYa



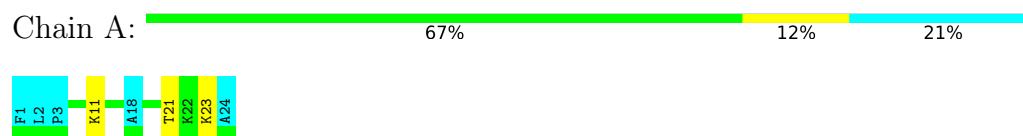
### 4.2.7 Score per residue for model 7

- Molecule 1: Brevinin-1BYa



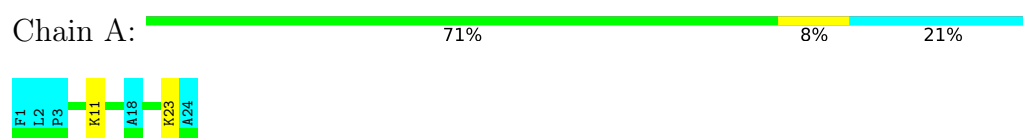
#### 4.2.8 Score per residue for model 8

- Molecule 1: Brevinin-1BYa



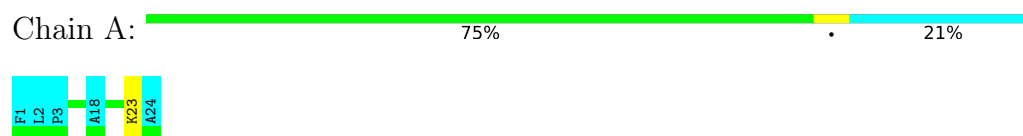
#### 4.2.9 Score per residue for model 9

- Molecule 1: Brevinin-1BYa



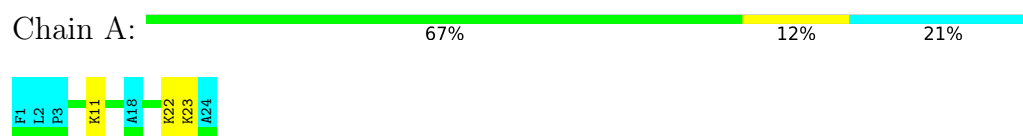
#### 4.2.10 Score per residue for model 10

- Molecule 1: Brevinin-1BYa



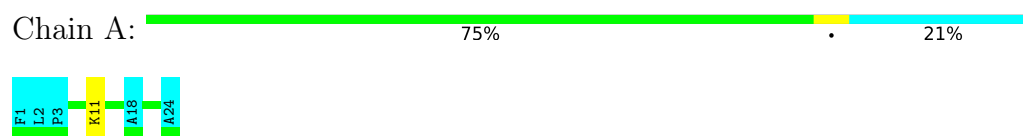
#### 4.2.11 Score per residue for model 11

- Molecule 1: Brevinin-1BYa




#### 4.2.12 Score per residue for model 12

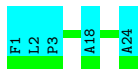
- Molecule 1: Brevinin-1BYa



#### 4.2.13 Score per residue for model 13


- Molecule 1: Brevinin-1BYa

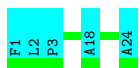
Chain A:  79% 21%



#### 4.2.14 Score per residue for model 14

- Molecule 1: Brevinin-1BYa

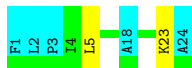
Chain A:  79% 21%



#### 4.2.15 Score per residue for model 15


- Molecule 1: Brevinin-1BYa

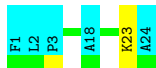
Chain A:  71% 8% 21%



#### 4.2.16 Score per residue for model 16


- Molecule 1: Brevinin-1BYa

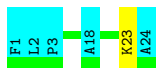
Chain A:  75% 1% 21%



#### 4.2.17 Score per residue for model 17

- Molecule 1: Brevinin-1BYa

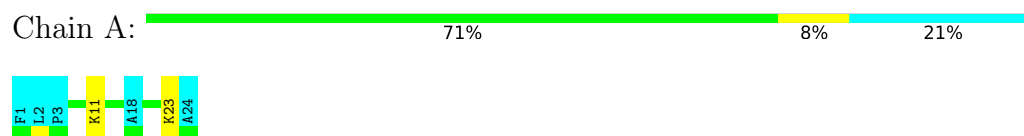
Chain A:  75% 1% 21%





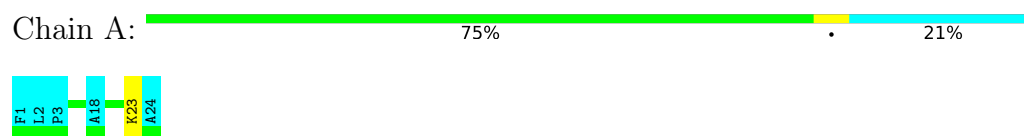
#### 4.2.18 Score per residue for model 18

- Molecule 1: Brevinin-1BYa



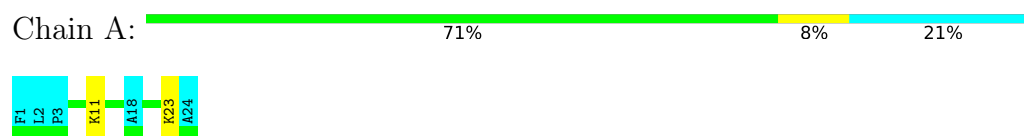
#### 4.2.19 Score per residue for model 19

- Molecule 1: Brevinin-1BYa



#### 4.2.20 Score per residue for model 20

- Molecule 1: Brevinin-1BYa



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
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	166
Number of shifts mapped to atoms	164
Number of unparsed shifts	0
Number of shifts with mapping errors	2
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	49%

## 6 Model quality [i](#)

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

Bond lengths and bond angles in the following residue types are not validated in this section:  
ABA

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
All	All	2880	3420	3420	-

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 -.

There are no clashes.

### 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	19/24 (79%)	17±1 (87±4%)	2±1 (13±4%)	0±0 (0±1%)	44 80
All	All	380/480 (79%)	331 (87%)	48 (13%)	1 (0%)	44 80

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	4	ILE	1

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	15/18 (83%)	14±1 (90±5%)	1±1 (10±5%)	12	57
All	All	300/360 (83%)	271 (90%)	29 (10%)	12	57

All 6 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	23	LYS	16
1	A	11	LYS	9
1	A	17	PHE	1
1	A	21	THR	1
1	A	22	LYS	1
1	A	5	LEU	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](#)

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
1	ABA	A	18	1	4,5,6	0.92±0.04	0±0 (0±0%)
1	ABA	A	24	1	4,5,6	0.92±0.05	0±0 (0±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
1	ABA	A	18	1	1,5,7	0.66±0.34	0±0 (0±0%)
1	ABA	A	24	1	1,5,7	0.35±0.49	0±0 (0±0%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	ABA	A	18	1	-	0±0,3,4,6	-
1	ABA	A	24	1	-	0±0,3,4,6	-

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 49% for the well-defined parts and 48% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *shifts.nmrstar*

#### 7.1.1 Bookkeeping [i](#)

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

Total number of shifts	166
Number of shifts mapped to atoms	164
Number of unparsed shifts	0
Number of shifts with mapping errors	2
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 2 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	18	ABA	HG3	5.354	0.002	.
1	A	24	ABA	HG3	5.353	0.002	.

#### 7.1.2 Chemical shift referencing [i](#)

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

#### 7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 49%, i.e. 135 atoms were assigned a chemical shift out of a possible 277. 0 out of 5 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	38/94 (40%)	38/38 (100%)	0/38 (0%)	0/18 (0%)
Sidechain	91/163 (56%)	91/109 (83%)	0/50 (0%)	0/4 (0%)
Aromatic	6/20 (30%)	6/10 (60%)	0/10 (0%)	0/0 (—%)
Overall	135/277 (49%)	135/157 (86%)	0/98 (0%)	0/22 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 48%, i.e. 156 atoms were assigned a chemical shift out of a possible 325. 0 out of 6 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	42/107 (39%)	42/43 (98%)	0/44 (0%)	0/20 (0%)
Sidechain	108/188 (57%)	108/126 (86%)	0/58 (0%)	0/4 (0%)
Aromatic	6/30 (20%)	6/15 (40%)	0/15 (0%)	0/0 (—%)
Overall	156/325 (48%)	156/184 (85%)	0/117 (0%)	0/24 (0%)

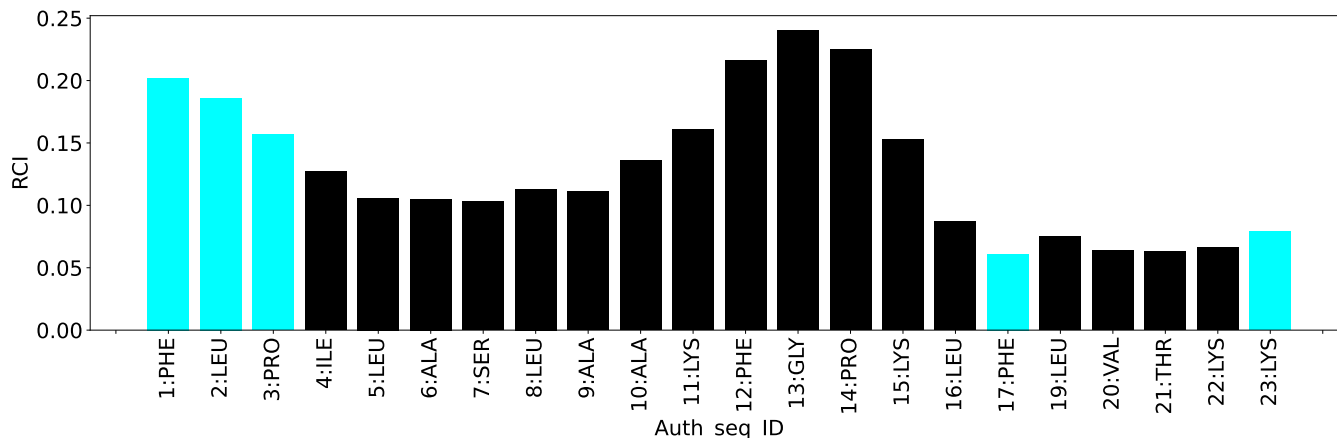
#### 7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:





## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	252
Intra-residue ( $ i-j =0$ )	104
Sequential ( $ i-j =1$ )	87
Medium range ( $ i-j >1$ and $ i-j <5$ )	59
Long range ( $ i-j \geq 5$ )	2
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	17
Number of restraints per residue	10.5
Number of long range restraints per residue <sup>1</sup>	0.1

<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)	3.3	0.2
0.2-0.5 (Medium)	14.5	0.5
>0.5 (Large)	34.2	2.76

### 8.2.2 Average number of dihedral-angle violations per model

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

## 9 Distance violation analysis

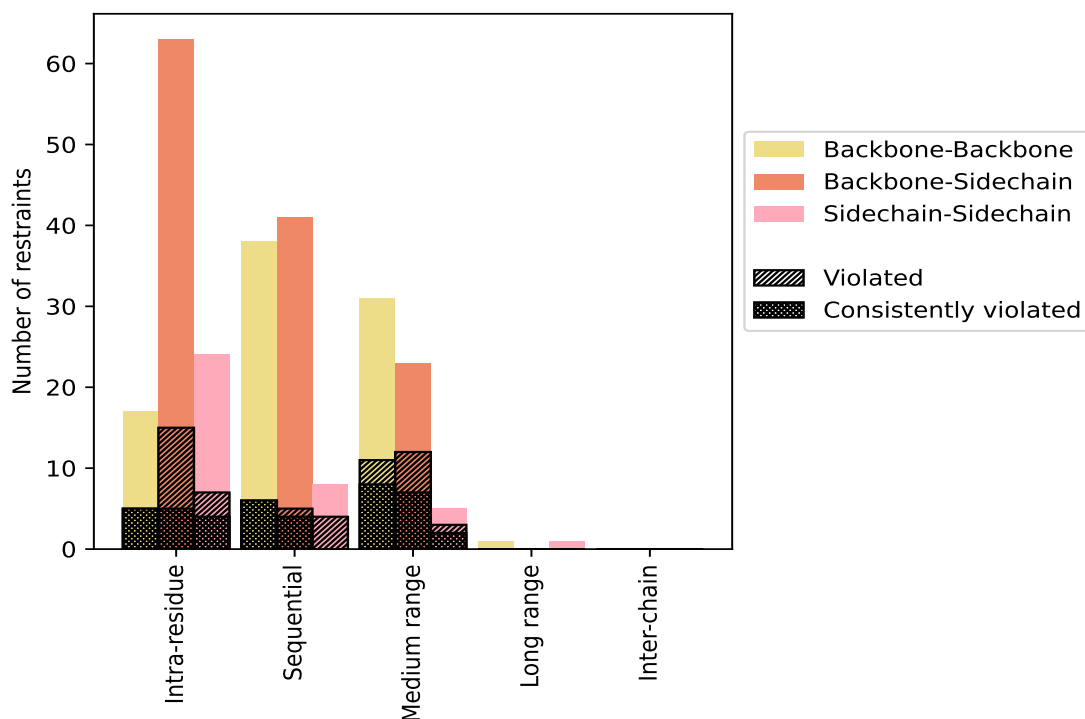
### 9.1 Summary of distance violations

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>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>104</b>	<b>41.3</b>	<b>27</b>	<b>26.0</b>	<b>10.7</b>	<b>14</b>	<b>13.5</b>	<b>5.6</b>
Backbone-Backbone	17	6.7	5	29.4	2.0	5	29.4	2.0
Backbone-Sidechain	63	25.0	15	23.8	6.0	5	7.9	2.0
Sidechain-Sidechain	24	9.5	7	29.2	2.8	4	16.7	1.6
<b>Sequential (<math> i-j =1</math>)</b>	<b>87</b>	<b>34.5</b>	<b>15</b>	<b>17.2</b>	<b>6.0</b>	<b>10</b>	<b>11.5</b>	<b>4.0</b>
Backbone-Backbone	38	15.1	6	15.8	2.4	6	15.8	2.4
Backbone-Sidechain	41	16.3	5	12.2	2.0	4	9.8	1.6
Sidechain-Sidechain	8	3.2	4	50.0	1.6	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>59</b>	<b>23.4</b>	<b>26</b>	<b>44.1</b>	<b>10.3</b>	<b>17</b>	<b>28.8</b>	<b>6.7</b>
Backbone-Backbone	31	12.3	11	35.5	4.4	8	25.8	3.2
Backbone-Sidechain	23	9.1	12	52.2	4.8	7	30.4	2.8
Sidechain-Sidechain	5	2.0	3	60.0	1.2	2	40.0	0.8
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>2</b>	<b>0.8</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	1	0.4	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	1	0.4	0	0.0	0.0	0	0.0	0.0
<b>Inter-chain</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
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
<b>Hydrogen bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>252</b>	<b>100.0</b>	<b>68</b>	<b>27.0</b>	<b>27.0</b>	<b>41</b>	<b>16.3</b>	<b>16.3</b>
Backbone-Backbone	87	34.5	22	25.3	8.7	19	21.8	7.5
Backbone-Sidechain	127	50.4	32	25.2	12.7	16	12.6	6.3
Sidechain-Sidechain	38	15.1	14	36.8	5.6	6	15.8	2.4

<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 disulfid bonds are counted in their appropriate category on the x-axis

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

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

Model ID	Number of violations					Total	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>					
1	19	12	22	0	0	53	0.85	2.52	0.48	0.78
2	20	11	21	0	0	52	0.87	2.43	0.53	0.77
3	19	12	21	0	0	52	0.77	1.92	0.46	0.67
4	21	12	19	0	0	52	0.83	1.68	0.45	0.77
5	19	13	22	0	0	54	0.82	2.52	0.5	0.68
6	18	11	22	0	0	51	0.88	2.76	0.57	0.81
7	18	12	21	0	0	51	0.84	2.64	0.52	0.8
8	16	11	24	0	0	51	0.83	2.7	0.51	0.72
9	19	12	19	0	0	50	0.81	1.69	0.45	0.72
10	19	11	20	0	0	50	0.84	2.28	0.5	0.8
11	18	13	18	0	0	49	0.84	1.74	0.47	0.72

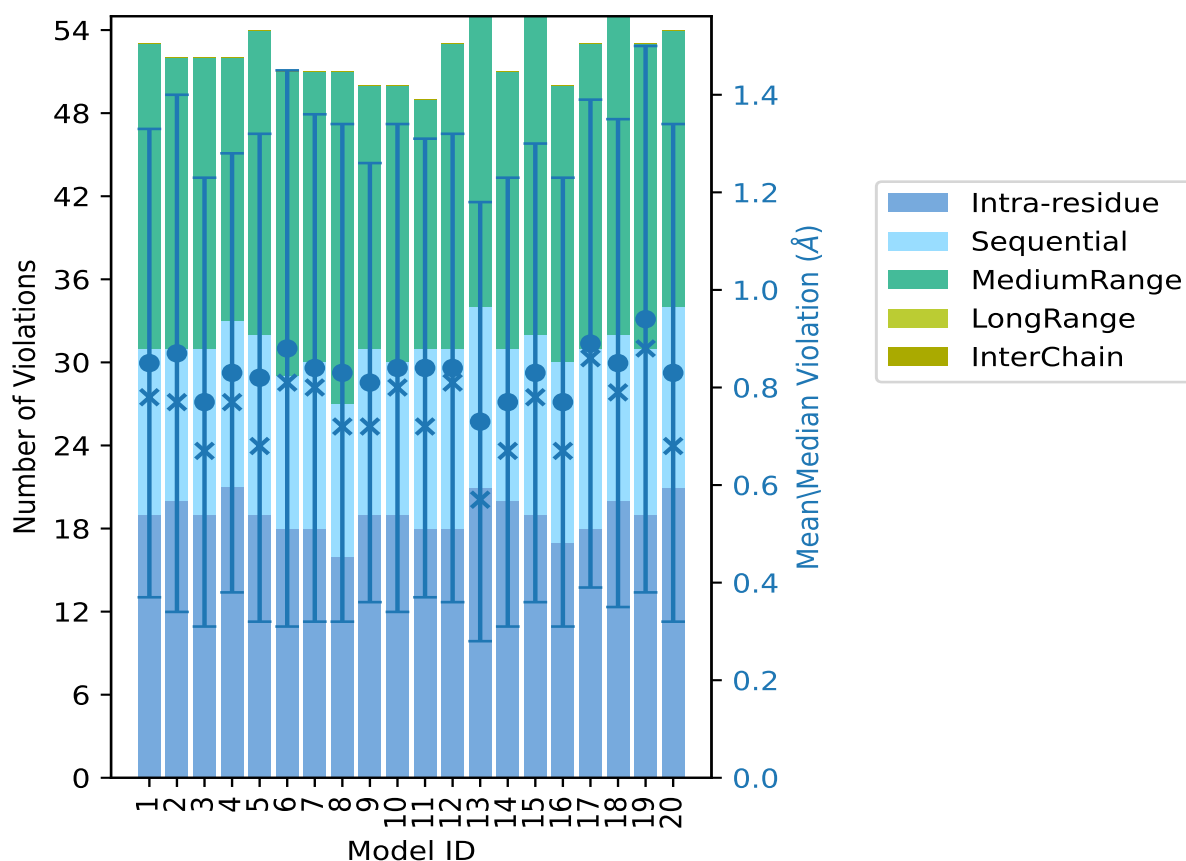
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>					
12	18	13	22	0	0	53	0.84	2.56	0.48	0.81
13	21	13	21	0	0	55	0.73	1.83	0.45	0.57
14	20	11	20	0	0	51	0.77	1.8	0.46	0.67
15	19	13	23	0	0	55	0.83	2.51	0.47	0.78
16	17	13	20	0	0	50	0.77	1.74	0.46	0.67
17	18	13	22	0	0	53	0.89	2.53	0.5	0.86
18	20	12	23	0	0	55	0.85	2.38	0.5	0.79
19	19	12	22	0	0	53	0.94	2.59	0.56	0.88
20	21	13	20	0	0	54	0.83	2.26	0.51	0.68

<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 [i](#)



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

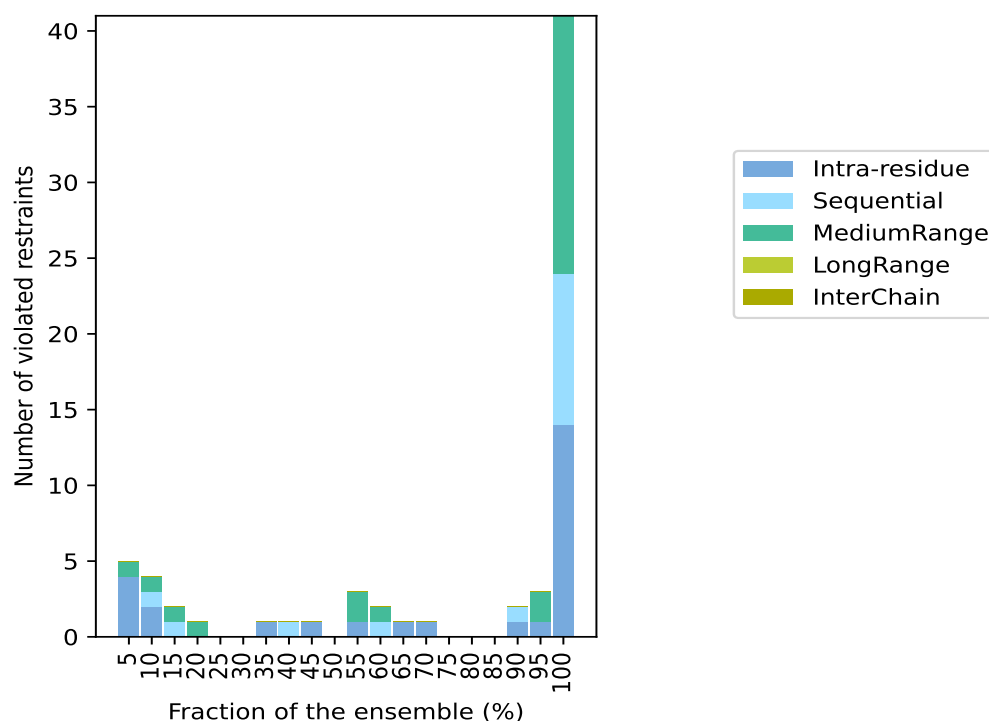
### 9.3 Distance violation statistics for the ensemble

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, 184(IR:77, SQ:72, MR:33, LR:2, 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>	%
4	0	1	0	0	5	1	5.0
2	1	1	0	0	4	2	10.0
0	1	1	0	0	2	3	15.0
0	0	1	0	0	1	4	20.0
0	0	0	0	0	0	5	25.0
0	0	0	0	0	0	6	30.0
1	0	0	0	0	1	7	35.0
0	1	0	0	0	1	8	40.0
1	0	0	0	0	1	9	45.0
0	0	0	0	0	0	10	50.0
1	0	2	0	0	3	11	55.0
0	1	1	0	0	2	12	60.0
1	0	0	0	0	1	13	65.0
1	0	0	0	0	1	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
1	1	0	0	0	2	18	90.0
1	0	2	0	0	3	19	95.0
14	10	17	0	0	41	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

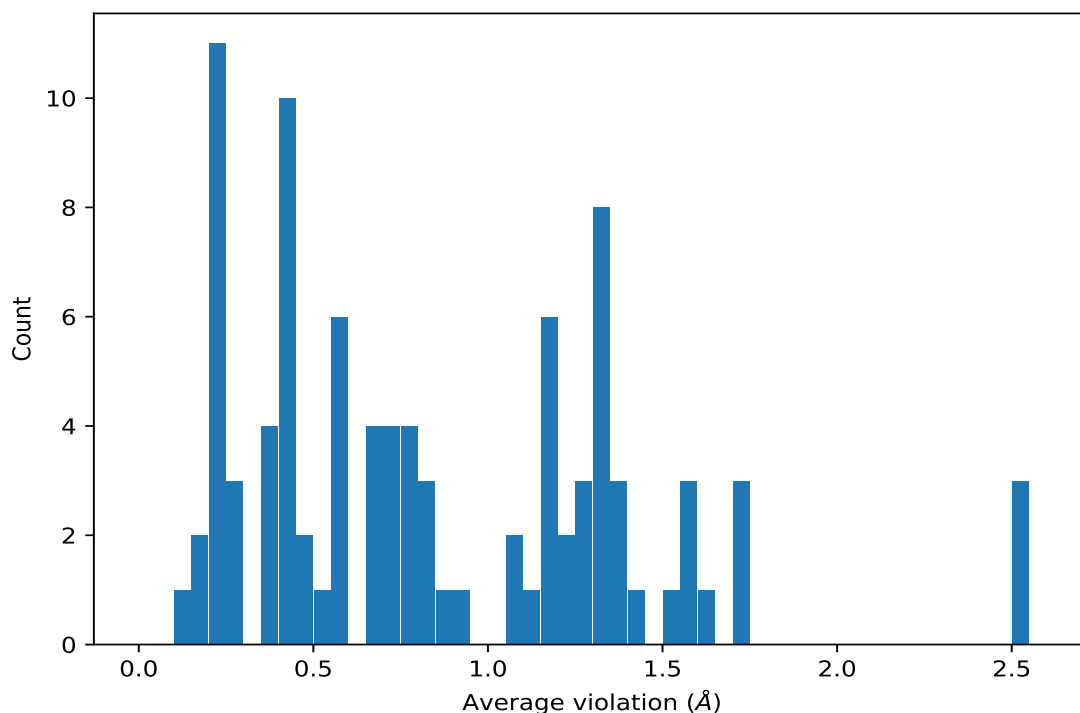
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 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)
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	20	1.71	0.08	1.7
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	20	1.71	0.08	1.7
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	20	1.71	0.08	1.7
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	20	1.62	0.19	1.56
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	20	1.58	0.09	1.6
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	20	1.58	0.09	1.6
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	20	1.58	0.09	1.6
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	20	1.42	0.01	1.42
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	20	1.36	0.06	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	20	1.36	0.06	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	20	1.36	0.06	1.37
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	20	1.34	0.02	1.35
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	20	1.32	0.21	1.34
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	20	1.28	0.06	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	20	1.28	0.06	1.28
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	20	1.25	0.02	1.25

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	20	1.24	0.74	1.19
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	20	1.24	0.74	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	20	1.2	0.01	1.2
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	20	1.2	0.2	1.15
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	20	1.18	0.13	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	20	1.18	0.02	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	20	1.18	0.02	1.17
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	20	1.17	0.02	1.17
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	20	1.12	0.05	1.13
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	20	1.09	0.02	1.09
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	20	1.09	0.05	1.07
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	20	0.9	0.53	0.82
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	20	0.88	0.01	0.88
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	20	0.84	0.09	0.86
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	20	0.84	0.46	0.68
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	20	0.84	0.46	0.68
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	20	0.77	0.07	0.77
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	20	0.74	0.13	0.72
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	20	0.72	0.18	0.78
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	20	0.72	0.18	0.78
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	20	0.72	0.18	0.78
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	20	0.66	0.12	0.68
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	20	0.65	0.01	0.65
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	20	0.6	0.08	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	20	0.6	0.08	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	20	0.6	0.08	0.6
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	20	0.59	0.13	0.62
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	20	0.56	0.01	0.56
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	20	0.44	0.1	0.46
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	20	0.43	0.15	0.44
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	20	0.43	0.05	0.41
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	20	0.43	0.02	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	20	0.42	0.01	0.42
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	20	0.4	0.05	0.41
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	20	0.39	0.03	0.4
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	20	0.36	0.01	0.35
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	20	0.27	0.03	0.28
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	20	0.13	0.02	0.12
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	19	0.5	0.03	0.5
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	19	0.44	0.11	0.41
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	19	0.18	0.05	0.17
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	18	0.76	0.44	0.73

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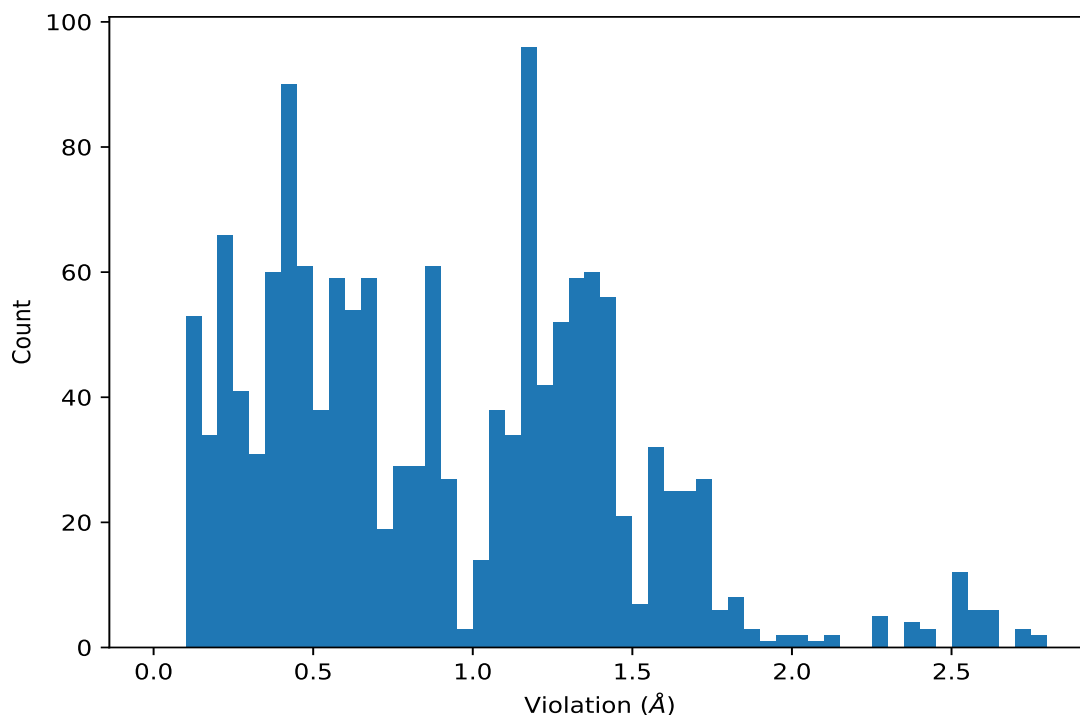
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	18	0.21	0.04	0.22
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	14	0.79	0.09	0.8
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	14	0.79	0.09	0.8
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	13	0.22	0.15	0.2
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	12	0.55	0.27	0.47
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	12	0.39	0.36	0.16
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	12	0.39	0.36	0.16
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	11	2.55	0.09	2.53
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	11	2.55	0.09	2.53
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	11	2.55	0.09	2.53
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	11	1.32	0.07	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	11	1.32	0.07	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	11	1.32	0.07	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	11	1.32	0.07	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	11	1.32	0.07	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	11	1.32	0.07	1.31
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	11	0.23	0.0	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	11	0.23	0.0	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	11	0.23	0.0	0.23
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	9	0.41	0.12	0.38
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	9	0.41	0.12	0.38
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	8	0.46	0.1	0.42
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	8	0.46	0.1	0.42
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	7	0.26	0.06	0.23
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	7	0.26	0.06	0.23
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB1	4	0.23	0.18	0.13
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB2	4	0.23	0.18	0.13
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB3	4	0.23	0.18	0.13
(1,244)	1:3:A:PRO:HB2	1:4:A:ILE:HG12	3	1.54	0.52	1.64
(1,156)	1:21:A:THR:HB	1:24:A:ABA:H	3	0.41	0.12	0.49
(1,178)	1:5:A:LEU:HB2	1:9:A:ALA:H	2	0.68	0.0	0.68
(1,221)	1:5:A:LEU:HA	1:5:A:LEU:HB2	2	0.66	0.01	0.66
(1,58)	1:10:A:ALA:HB1	1:11:A:LYS:H	2	0.2	0.08	0.2
(1,58)	1:10:A:ALA:HB2	1:11:A:LYS:H	2	0.2	0.08	0.2
(1,58)	1:10:A:ALA:HB3	1:11:A:LYS:H	2	0.2	0.08	0.2
(1,63)	1:16:A:LEU:H	1:16:A:LEU:HG	2	0.18	0.04	0.18

<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)
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	6	2.76
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	6	2.76
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	8	2.7
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	8	2.7
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	8	2.7
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	7	2.64
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	7	2.64
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	7	2.64
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	6	2.62
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	6	2.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	6	2.62
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	19	2.59
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	19	2.59
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	19	2.59
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	12	2.56
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	12	2.56
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	12	2.56
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	17	2.53
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	17	2.53
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	17	2.53
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	1	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	1	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	1	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	5	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	5	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	5	2.52
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	15	2.51
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	15	2.51
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	15	2.51
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	2	2.43
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	2	2.43
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	2	2.43
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	19	2.39
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG21	18	2.38
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG22	18	2.38
(1,224)	1:17:A:PHE:HA	1:20:A:VAL:HG23	18	2.38
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	10	2.28
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	10	2.28
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	20	2.26
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	2	2.25
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	2	2.25
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	18	2.14
(1,244)	1:3:A:PRO:HB2	1:4:A:ILE:HG12	19	2.12
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	20	2.05
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	17	2.04
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	17	2.04
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	19	1.96
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	19	1.96
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	3	1.92
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	20	1.88
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	20	1.88
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	20	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	18	1.84
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	18	1.84
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	18	1.84
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	13	1.83
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	13	1.82
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	13	1.82
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	13	1.82
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	14	1.8
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	8	1.78
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	8	1.78
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	8	1.78
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	5	1.75
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	5	1.75
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	5	1.75
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	11	1.74
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	11	1.74
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	10	1.74
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	10	1.74
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	10	1.74
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	16	1.74
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	16	1.74
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	16	1.74
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	15	1.73
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	15	1.73
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	15	1.73
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	5	1.73
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	3	1.72
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	3	1.72
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	3	1.72
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	17	1.71
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	17	1.71
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	17	1.71
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	3	1.7
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	3	1.7
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	3	1.7
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	7	1.7
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	7	1.7
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	7	1.7
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	14	1.7
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	14	1.7
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	14	1.7
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	9	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	9	1.69
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	9	1.69
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	11	1.69
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	11	1.69
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	11	1.69
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	14	1.69
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	14	1.69
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	14	1.69
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	11	1.69
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	11	1.69
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	11	1.69
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	16	1.69
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	1	1.68
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	1	1.68
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	1	1.68
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	4	1.68
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	4	1.68
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	4	1.68
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	15	1.68
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	11	1.68
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	8	1.67
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	9	1.66
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	9	1.66
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	9	1.66
(1,244)	1:3:A:PRO:HB2	1:4:A:ILE:HG12	16	1.64
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	4	1.64
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	4	1.64
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	4	1.64
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	6	1.64
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	6	1.64
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	6	1.64
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	6	1.63
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	6	1.63
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	6	1.63
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	20	1.63
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	20	1.63
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	1	1.62
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	2	1.6
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	2	1.6
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	2	1.6
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	8	1.6
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	8	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	8	1.6
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	16	1.6
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	16	1.6
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	16	1.6
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	20	1.6
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	20	1.6
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	20	1.6
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	18	1.59
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	18	1.59
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	18	1.59
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	4	1.58
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	10	1.58
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	5	1.58
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	5	1.58
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	5	1.58
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	2	1.58
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	2	1.58
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	2	1.58
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	19	1.58
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	19	1.58
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	19	1.58
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	9	1.57
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	9	1.57
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	18	1.57
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	10	1.57
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	12	1.56
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	12	1.56
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	12	1.56
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	19	1.56
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	19	1.56
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	19	1.56
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	7	1.55
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	7	1.55
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	7	1.55
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	17	1.55
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	17	1.55
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	17	1.55
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	11	1.55
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	12	1.55
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	10	1.54
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	10	1.54
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	10	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:9:A:ALA:HB1	1:12:A:PHE:H	12	1.54
(1,204)	1:9:A:ALA:HB2	1:12:A:PHE:H	12	1.54
(1,204)	1:9:A:ALA:HB3	1:12:A:PHE:H	12	1.54
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	17	1.53
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	2	1.49
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	1	1.48
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	1	1.48
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	1	1.48
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	13	1.48
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	13	1.48
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	13	1.48
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	5	1.48
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	5	1.48
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	11	1.47
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	11	1.47
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	11	1.47
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	4	1.47
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	11	1.47
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	7	1.46
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	7	1.46
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	4	1.46
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	4	1.46
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	2	1.46
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	7	1.45
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	19	1.45
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	6	1.44
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	20	1.44
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	13	1.44
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	4	1.43
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	4	1.43
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	2	1.43
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	9	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	1	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	2	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	5	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	11	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	12	1.43
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	15	1.43
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	14	1.42
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	14	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	4	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	6	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	7	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	8	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	9	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	10	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	17	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	18	1.42
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	20	1.42
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	3	1.41
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	3	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	6	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	6	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	6	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	10	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	10	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	10	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	17	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	17	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	17	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	20	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	20	1.41
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	20	1.41
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	3	1.41
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	14	1.41
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	16	1.41
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	13	1.41
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	7	1.4
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	7	1.4
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	7	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	7	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	7	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	7	1.4
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	8	1.4
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	8	1.4
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	8	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	8	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	8	1.4
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	8	1.4
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	6	1.4
(1,128)	1:3:A:PRO:HD2	1:3:A:PRO:HB2	19	1.4
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	8	1.39
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	8	1.39
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	8	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	14	1.39
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	14	1.39
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	14	1.39
(1,196)	1:4:A:ILE:HA	1:7:A:SER:H	19	1.39
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	9	1.39
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	19	1.38
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	19	1.38
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	19	1.38
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	19	1.38
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	19	1.38
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	19	1.38
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	17	1.38
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	4	1.38
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	7	1.38
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	3	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	3	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	3	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	9	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	9	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	9	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	13	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	13	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	13	1.37
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	6	1.37
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	6	1.37
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	6	1.37
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	6	1.37
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	6	1.37
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	6	1.37
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	19	1.37
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	19	1.37
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	19	1.37
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	9	1.37
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	14	1.37
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	2	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	2	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	2	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	7	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	7	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	7	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	16	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	16	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	16	1.36
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	12	1.36
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	3	1.36
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	6	1.36
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	7	1.36
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	10	1.36
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	18	1.36
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	4	1.35
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	4	1.35
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	4	1.35
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	2	1.35
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	4	1.35
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	5	1.35
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	8	1.35
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	18	1.35
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	16	1.34
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	16	1.34
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	18	1.34
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	18	1.34
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	18	1.34
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	10	1.34
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	1	1.34
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	12	1.34
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	13	1.34
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	15	1.34
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	20	1.34
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	10	1.34
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	12	1.33
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	12	1.33
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	12	1.33
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	12	1.33
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	12	1.33
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	12	1.33
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	5	1.33
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	11	1.33
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	19	1.33
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	6	1.33
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	5	1.32
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	5	1.32
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	8	1.31
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	8	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	1	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	1	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	1	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	12	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	12	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	12	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	15	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	15	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	15	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	19	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	19	1.31
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	19	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	1	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	1	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	1	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	1	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	1	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	1	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	15	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	15	1.31
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	15	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	15	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	15	1.31
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	15	1.31
(1,226)	1:4:A:ILE:HG21	1:7:A:SER:H	15	1.3
(1,226)	1:4:A:ILE:HG22	1:7:A:SER:H	15	1.3
(1,226)	1:4:A:ILE:HG23	1:7:A:SER:H	15	1.3
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	17	1.3
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	17	1.3
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	17	1.3
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	17	1.3
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	17	1.3
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	17	1.3
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	19	1.29
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	19	1.29
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	5	1.29
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	5	1.29
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	5	1.29
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	5	1.29
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	5	1.29
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	5	1.29
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	16	1.29
(1,115)	1:3:A:PRO:HD2	1:3:A:PRO:HB3	17	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	11	1.29
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	14	1.29
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	15	1.29
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	4	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	4	1.28
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	6	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	6	1.28
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	7	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	7	1.28
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	9	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	9	1.28
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	17	1.28
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	17	1.28
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	5	1.28
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	10	1.27
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	10	1.27
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	20	1.27
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	20	1.27
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	3	1.27
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	8	1.27
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	16	1.27
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	17	1.27
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	17	1.27
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	1	1.26
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	1	1.26
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	2	1.26
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	2	1.26
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	11	1.26
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	11	1.26
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	17	1.26
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	1	1.26
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	2	1.26
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	9	1.26
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	20	1.26
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	12	1.25
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	12	1.25
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	10	1.25
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	10	1.25
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	4	1.25
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	15	1.25
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	19	1.25
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	1	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	1	1.24
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	19	1.24
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	5	1.24
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	6	1.24
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	7	1.24
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	10	1.24
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	12	1.24
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	18	1.23
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	18	1.23
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	13	1.23
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	18	1.23
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	12	1.22
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	12	1.22
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	13	1.22
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	13	1.22
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	2	1.22
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	2	1.22
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	2	1.22
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	2	1.22
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	2	1.22
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	2	1.22
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	14	1.22
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	14	1.22
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	20	1.21
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	20	1.21
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	1	1.21
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	12	1.21
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	17	1.21
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	18	1.21
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	15	1.2
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	2	1.2
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	3	1.2
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	8	1.2
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	3	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	2	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	4	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	5	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	6	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	8	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	11	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	15	1.2
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	20	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	7	1.19
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	11	1.19
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	5	1.19
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	18	1.19
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	2	1.19
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	17	1.19
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	19	1.19
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	5	1.19
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	6	1.19
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	10	1.19
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	17	1.19
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	20	1.19
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	5	1.19
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	18	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	3	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	7	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	9	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	10	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	14	1.19
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	19	1.19
(1,238)	1:12:A:PHE:HD1	1:13:A:GLY:H	15	1.18
(1,238)	1:12:A:PHE:HD2	1:13:A:GLY:H	15	1.18
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	15	1.18
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	6	1.18
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	8	1.18
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	9	1.18
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	15	1.18
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	6	1.18
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	20	1.18
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	7	1.18
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	9	1.18
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	12	1.18
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	6	1.18
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	8	1.18
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	9	1.18
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	15	1.18
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	15	1.18
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	16	1.18
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	13	1.18
(1,111)	1:16:A:LEU:H	1:16:A:LEU:HB3	16	1.18
(1,70)	1:16:A:LEU:HB3	1:17:A:PHE:H	13	1.18
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	16	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	1	1.17
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	1	1.17
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG21	18	1.17
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG22	18	1.17
(1,225)	1:17:A:PHE:HB2	1:20:A:VAL:HG23	18	1.17
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG21	18	1.17
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG22	18	1.17
(1,225)	1:17:A:PHE:HB3	1:20:A:VAL:HG23	18	1.17
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	2	1.17
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	2	1.17
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	3	1.17
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	3	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	1	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	2	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	4	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	7	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	12	1.17
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	13	1.17
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	2	1.17
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	4	1.17
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	16	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	1	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	2	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	4	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	7	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	12	1.17
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	13	1.17
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	18	1.17
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	5	1.17
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	8	1.17
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	4	1.16
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	6	1.16
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	8	1.16
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	20	1.16
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	1	1.16
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	1	1.16
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	10	1.16
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	16	1.16
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	17	1.16
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	19	1.16
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	9	1.16
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	1	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	3	1.16
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	11	1.16
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	13	1.16
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	14	1.16
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	15	1.16
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	10	1.16
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	16	1.16
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	17	1.16
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	19	1.16
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	4	1.15
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	3	1.15
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	20	1.15
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	2	1.14
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB1	5	1.14
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB2	5	1.14
(1,231)	1:9:A:ALA:H	1:10:A:ALA:HB3	5	1.14
(1,211)	1:6:A:ALA:HA	1:7:A:SER:H	11	1.14
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	7	1.14
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	10	1.14
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	16	1.14
(1,172)	1:6:A:ALA:HA	1:7:A:SER:H	11	1.14
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	6	1.14
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	9	1.13
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	18	1.13
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	1	1.13
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	17	1.12
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	17	1.12
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	11	1.12
(1,193)	1:7:A:SER:HA	1:8:A:LEU:H	19	1.12
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	3	1.12
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	12	1.12
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	14	1.12
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	1	1.11
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	12	1.11
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	4	1.11
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	5	1.11
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	18	1.11
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	20	1.11
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	14	1.11
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	1	1.1
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	2	1.1
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	7	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	9	1.1
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	12	1.1
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	3	1.1
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	12	1.1
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	6	1.09
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	8	1.09
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	11	1.09
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	15	1.09
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	12	1.09
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	14	1.09
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	15	1.09
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	9	1.09
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	9	1.08
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	3	1.08
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	17	1.08
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	19	1.08
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	3	1.08
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	18	1.08
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	4	1.08
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	12	1.08
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	14	1.08
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	1	1.08
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	13	1.08
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	11	1.07
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	3	1.07
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	10	1.07
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	1	1.07
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	5	1.07
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	2	1.07
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	4	1.07
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	9	1.07
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	11	1.07
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	8	1.07
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	14	1.06
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	13	1.06
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	7	1.06
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	10	1.06
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	15	1.06
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	17	1.06
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	13	1.05
(1,213)	1:14:A:PRO:HB2	1:14:A:PRO:HD3	16	1.05
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	16	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	17	1.04
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	15	1.04
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	15	1.04
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	10	1.04
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	13	1.04
(1,199)	1:5:A:LEU:HA	1:6:A:ALA:H	8	1.04
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	7	1.04
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	18	1.04
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	14	1.03
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	19	1.03
(1,34)	1:8:A:LEU:HA	1:11:A:LYS:H	5	1.03
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	6	1.02
(1,229)	1:16:A:LEU:HA	1:19:A:LEU:H	16	1.01
(1,91)	1:7:A:SER:H	1:9:A:ALA:H	18	1.0
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	18	0.99
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	4	0.98
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	13	0.96
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	12	0.94
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	3	0.94
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	15	0.93
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	15	0.93
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	17	0.93
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	20	0.93
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	20	0.93
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	20	0.93
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	18	0.93
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	7	0.92
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	18	0.92
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	18	0.92
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	18	0.92
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	15	0.92
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	5	0.92
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	17	0.92
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	17	0.92
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	15	0.91
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	12	0.91
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	12	0.91
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	12	0.91
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	16	0.91
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	20	0.91
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	10	0.9
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	13	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	13	0.9
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	14	0.9
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	13	0.89
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	13	0.89
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	9	0.89
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	9	0.89
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	9	0.89
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	19	0.89
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	19	0.89
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	19	0.89
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	3	0.89
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	12	0.89
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	20	0.89
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	8	0.89
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	19	0.88
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	7	0.88
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	7	0.88
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	7	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	1	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	7	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	9	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	10	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	11	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	14	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	16	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	17	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	18	0.88
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	19	0.88
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	7	0.88
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	11	0.88
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	11	0.88
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	20	0.87
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	20	0.87
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	12	0.87
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	12	0.87
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	8	0.87
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	4	0.87
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	5	0.87
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	1	0.87
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	4	0.87
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	4	0.87
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	18	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	18	0.87
(1,244)	1:3:A:PRO:HB2	1:4:A:ILE:HG12	17	0.86
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	18	0.86
(1,140)	1:7:A:SER:HA	1:10:A:ALA:H	20	0.86
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	2	0.86
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	8	0.86
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	15	0.86
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	14	0.86
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	4	0.86
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	9	0.86
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	5	0.86
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	5	0.86
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	2	0.85
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	4	0.85
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	4	0.85
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	4	0.85
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	15	0.85
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	15	0.85
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	15	0.85
(1,139)	1:19:A:LEU:HA	1:20:A:VAL:H	6	0.85
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	10	0.85
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	16	0.84
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	13	0.84
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	14	0.84
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	1	0.84
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	1	0.84
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	1	0.84
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	17	0.84
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	14	0.84
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	14	0.84
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	6	0.83
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	19	0.83
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	20	0.82
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	14	0.81
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	10	0.81
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	6	0.81
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	6	0.81
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	3	0.81
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	6	0.81
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	8	0.81
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	11	0.81
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	12	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	10	0.8
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	10	0.8
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	10	0.8
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	7	0.8
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	3	0.8
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	3	0.8
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	19	0.8
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	19	0.8
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	8	0.79
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	8	0.79
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	18	0.79
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	18	0.79
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	17	0.79
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	8	0.79
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	8	0.79
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	8	0.79
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	13	0.79
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	5	0.78
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	1	0.78
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	18	0.78
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	9	0.78
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	2	0.78
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	2	0.78
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	15	0.78
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	15	0.78
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	3	0.77
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	6	0.77
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	1	0.77
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	1	0.77
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	7	0.76
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	2	0.76
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	2	0.76
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	2	0.76
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	2	0.76
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	11	0.75
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	3	0.75
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	15	0.75
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	16	0.73
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	2	0.73
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	9	0.73
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	8	0.72
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	5	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	11	0.72
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	11	0.72
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	11	0.72
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	15	0.72
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	17	0.72
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	9	0.71
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	12	0.71
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	19	0.71
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	18	0.71
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	4	0.7
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	1	0.7
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	1	0.7
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	1	0.7
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	1	0.7
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	5	0.69
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	5	0.69
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	20	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	3	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	7	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	8	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	9	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	10	0.69
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	14	0.69
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	17	0.69
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	17	0.69
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	17	0.69
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	6	0.69
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	6	0.69
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	6	0.69
(1,178)	1:5:A:LEU:HB2	1:9:A:ALA:H	20	0.69
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	11	0.69
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	16	0.69
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	16	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	1	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	2	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	4	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	5	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	6	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	11	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	12	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	13	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	15	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	17	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	18	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	19	0.68
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	20	0.68
(1,178)	1:5:A:LEU:HB2	1:9:A:ALA:H	19	0.68
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	10	0.68
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	11	0.67
(1,221)	1:5:A:LEU:HA	1:5:A:LEU:HB2	20	0.67
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	20	0.67
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	9	0.67
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	9	0.67
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	12	0.67
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	12	0.67
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	14	0.67
(1,221)	1:5:A:LEU:HA	1:5:A:LEU:HB2	19	0.66
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	16	0.66
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	6	0.66
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	3	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	5	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	6	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	9	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	11	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	12	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	14	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	15	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	17	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	18	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	19	0.65
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	20	0.65
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	2	0.65
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	4	0.65
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	18	0.64
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	18	0.64
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	18	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	1	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	2	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	7	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	8	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	10	0.64
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	13	0.64
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	19	0.64
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	17	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	17	0.63
(1,222)	1:4:A:ILE:HB	1:6:A:ALA:H	8	0.63
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	16	0.63
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	16	0.63
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	16	0.63
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	17	0.63
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	17	0.63
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	17	0.63
(1,123)	1:4:A:ILE:HA	1:4:A:ILE:HB	4	0.63
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	10	0.63
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	16	0.63
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	2	0.62
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	2	0.62
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	2	0.62
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	8	0.62
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	8	0.62
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	8	0.62
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	13	0.62
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	13	0.62
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	13	0.62
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	14	0.62
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	3	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	4	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	4	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	4	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	6	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	6	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	6	0.61
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	18	0.61
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	7	0.61
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	5	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	5	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	5	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	7	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	7	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	7	0.6
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	4	0.6
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	4	0.6
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	10	0.6
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	10	0.6
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	10	0.6
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	15	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	20	0.6
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	12	0.59
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	12	0.59
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	12	0.59
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	14	0.59
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	14	0.59
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	14	0.59
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	16	0.58
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	16	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	15	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	15	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	15	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	16	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	16	0.58
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	16	0.58
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	2	0.58
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	3	0.58
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	5	0.57
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	18	0.57
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	8	0.57
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	5	0.57
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	17	0.57
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD2	13	0.57
(1,68)	1:23:A:LYS:H	1:23:A:LYS:HD3	13	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	1	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	7	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	9	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	10	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	11	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	14	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	19	0.57
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	20	0.57
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	4	0.56
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	5	0.56
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	5	0.56
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	11	0.56
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	11	0.56
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	11	0.56
(1,77)	1:8:A:LEU:HG	1:9:A:ALA:H	13	0.56
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	13	0.56
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	20	0.56
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	6	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	16	0.56
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	17	0.56
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	15	0.55
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	15	0.55
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	15	0.55
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	18	0.55
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	18	0.55
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	3	0.55
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	3	0.55
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	3	0.55
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	3	0.55
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	3	0.55
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	3	0.55
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	17	0.55
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	18	0.55
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	4	0.55
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	12	0.55
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	13	0.55
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	1	0.54
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	12	0.54
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	9	0.54
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	9	0.54
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	9	0.54
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB1	5	0.54
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB2	5	0.54
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB3	5	0.54
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	17	0.54
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	5	0.54
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	8	0.54
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	15	0.54
(1,27)	1:23:A:LYS:H	1:23:A:LYS:HA	18	0.54
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	20	0.53
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	20	0.53
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	20	0.53
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	4	0.53
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	11	0.53
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	4	0.53
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	18	0.52
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	2	0.52
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	14	0.52
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	14	0.52
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	14	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	18	0.52
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	9	0.52
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	14	0.52
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	19	0.52
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	20	0.51
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	12	0.51
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	18	0.51
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	8	0.51
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	19	0.5
(1,156)	1:21:A:THR:HB	1:24:A:ABA:H	6	0.5
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	7	0.5
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	8	0.5
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	9	0.5
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	15	0.5
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	3	0.49
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	16	0.49
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	16	0.49
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	19	0.49
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	19	0.49
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	12	0.49
(1,156)	1:21:A:THR:HB	1:24:A:ABA:H	8	0.49
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	4	0.49
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	5	0.49
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	10	0.49
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	13	0.49
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	18	0.48
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	18	0.48
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	12	0.48
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	12	0.48
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	1	0.48
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	6	0.48
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	17	0.48
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	3	0.48
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	5	0.48
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	13	0.48
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	7	0.48
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	18	0.48
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	20	0.48
(1,84)	1:23:A:LYS:HA	1:24:A:ABA:H	5	0.48
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	3	0.48
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	11	0.48
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	12	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	19	0.47
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	19	0.47
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	19	0.47
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	20	0.47
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	20	0.47
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	9	0.47
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	2	0.47
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	4	0.47
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	5	0.47
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	6	0.47
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	20	0.47
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	11	0.47
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	3	0.47
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	11	0.47
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	10	0.46
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	9	0.46
(1,65)	1:15:A:LYS:H	1:15:A:LYS:HG2	1	0.46
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	8	0.46
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	8	0.45
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	8	0.45
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	13	0.45
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	13	0.45
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	15	0.45
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	15	0.45
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD21	13	0.45
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD22	13	0.45
(1,203)	1:5:A:LEU:HA	1:8:A:LEU:HD23	13	0.45
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	2	0.45
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	14	0.45
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	19	0.45
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	8	0.45
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	10	0.45
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	19	0.45
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	13	0.44
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	13	0.44
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	7	0.44
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	8	0.44
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	20	0.44
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	1	0.44
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	10	0.44
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	1	0.44
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	2	0.44
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	17	0.44
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	9	0.43
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	18	0.43
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	8	0.43
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	1	0.43
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	13	0.43
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	15	0.43
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	3	0.43
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	12	0.43
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	16	0.43
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	19	0.43
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	9	0.42
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	9	0.42
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	11	0.42
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	11	0.42
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	7	0.42
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	15	0.42
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	19	0.42
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	4	0.42
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	15	0.42
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	4	0.42
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	5	0.42
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	12	0.42
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	20	0.42
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	12	0.42
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	15	0.42
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	16	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	3	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	6	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	7	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	12	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	14	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	16	0.42
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	20	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	1	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	4	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	7	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	11	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	14	0.42
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	17	0.42
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	6	0.41
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	9	0.41
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	13	0.41
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	11	0.41
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	17	0.41
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	1	0.41
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	9	0.41
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	1	0.41
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	2	0.41
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	3	0.41
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	14	0.41
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	16	0.41
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	4	0.41
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	5	0.41
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	9	0.41
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	1	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	5	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	6	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	9	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	10	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	13	0.41
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	20	0.41
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	14	0.4
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	2	0.4
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	10	0.4
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	16	0.4
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	2	0.4
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	7	0.4
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	15	0.4
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	11	0.4
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	13	0.4
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	17	0.4
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	19	0.4
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	1	0.4
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	8	0.4
(1,26)	1:8:A:LEU:H	1:8:A:LEU:HA	18	0.4
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	2	0.4
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	15	0.4
(1,19)	1:6:A:ALA:H	1:6:A:ALA:HA	18	0.4
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	1	0.39
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	1	0.39
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	17	0.39
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	7	0.39
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	8	0.39
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	6	0.39
(1,109)	1:10:A:ALA:H	1:10:A:ALA:HA	10	0.39
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	11	0.38
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	11	0.38
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	2	0.38
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	2	0.38
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	1	0.38
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	11	0.38
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	16	0.38
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	16	0.38
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	6	0.38
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	11	0.38
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	17	0.38
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	19	0.38
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	12	0.38
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	4	0.37
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	4	0.37
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	12	0.37
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	12	0.37
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	11	0.37
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	3	0.37
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	13	0.37
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	3	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	3	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	8	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	13	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	14	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	16	0.37
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	19	0.37
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	10	0.36
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	15	0.36
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	2	0.36
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	14	0.36
(1,25)	1:5:A:LEU:HA	1:8:A:LEU:H	5	0.36
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	10	0.36
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	17	0.36
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	20	0.36
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	13	0.35
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	16	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	16	0.35
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	20	0.35
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	5	0.35
(1,154)	1:15:A:LYS:HA	1:18:A:ABA:HB3	15	0.35
(1,154)	1:15:A:LYS:HA	1:18:A:ABA:HB3	15	0.35
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	6	0.35
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	10	0.35
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	14	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	1	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	2	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	4	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	6	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	7	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	9	0.35
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	11	0.35
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	7	0.34
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	19	0.34
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	14	0.34
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	8	0.34
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	15	0.34
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	5	0.34
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	12	0.34
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	15	0.34
(1,17)	1:17:A:PHE:H	1:17:A:PHE:HA	18	0.34
(1,251)	1:5:A:LEU:HB2	1:8:A:LEU:HB3	5	0.33
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	20	0.33
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	20	0.33
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	8	0.33
(1,233)	1:2:A:LEU:HB2	1:3:A:PRO:HD2	5	0.33
(1,233)	1:2:A:LEU:HB3	1:3:A:PRO:HD2	5	0.33
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	17	0.33
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	17	0.33
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	16	0.33
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	3	0.32
(1,180)	1:5:A:LEU:HA	1:9:A:ALA:H	12	0.32
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	19	0.32
(1,116)	1:14:A:PRO:HD3	1:14:A:PRO:HB3	13	0.31
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	8	0.31
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	13	0.3
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	13	0.3
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	3	0.3
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	1	0.3
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	6	0.3
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	3	0.3
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	20	0.3
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	3	0.29
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	3	0.29
(1,142)	1:10:A:ALA:H	1:12:A:PHE:H	12	0.29
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	10	0.29
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	5	0.29
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	12	0.29
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	5	0.29
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB2	10	0.28
(1,195)	1:23:A:LYS:H	1:23:A:LYS:HB3	10	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	1	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	4	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	6	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	7	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	10	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	14	0.28
(1,58)	1:10:A:ALA:HB1	1:11:A:LYS:H	20	0.28
(1,58)	1:10:A:ALA:HB2	1:11:A:LYS:H	20	0.28
(1,58)	1:10:A:ALA:HB3	1:11:A:LYS:H	20	0.28
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	9	0.27
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	16	0.27
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	17	0.27
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	18	0.27
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	13	0.27
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	11	0.27
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	14	0.26
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	20	0.26
(1,220)	1:23:A:LYS:HA	1:23:A:LYS:HD2	4	0.26
(1,220)	1:23:A:LYS:HA	1:23:A:LYS:HD3	4	0.26
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	14	0.26
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	14	0.26
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	12	0.26
(1,29)	1:7:A:SER:H	1:7:A:SER:HB2	18	0.26
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	14	0.25
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	14	0.25
(1,156)	1:21:A:THR:HB	1:24:A:ABA:H	18	0.25
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	11	0.25
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	15	0.25
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	5	0.25
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	9	0.25
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	12	0.25
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	1	0.24
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	6	0.24
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	14	0.24
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	11	0.23
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	11	0.23
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	15	0.23
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	15	0.23
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	18	0.23
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	18	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	1	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	1	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	1	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	2	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	2	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	2	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	5	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	5	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	5	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	6	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	6	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	6	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	7	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	7	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	7	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	9	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	9	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	9	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	10	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	10	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	10	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	13	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	13	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	13	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	14	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	14	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	14	0.23
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	16	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	16	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:4:A:ILE:HG21	1:4:A:ILE:HG13	20	0.23
(1,246)	1:4:A:ILE:HG22	1:4:A:ILE:HG13	20	0.23
(1,246)	1:4:A:ILE:HG23	1:4:A:ILE:HG13	20	0.23
(1,96)	1:4:A:ILE:H	1:7:A:SER:H	17	0.23
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	2	0.23
(1,63)	1:16:A:LEU:H	1:16:A:LEU:HG	13	0.23
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	8	0.23
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	4	0.23
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	13	0.23
(1,249)	1:7:A:SER:HB2	1:11:A:LYS:HB2	3	0.22
(1,249)	1:7:A:SER:HB3	1:11:A:LYS:HB2	3	0.22
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	12	0.22
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	12	0.22
(1,247)	1:23:A:LYS:HG2	1:23:A:LYS:HE3	13	0.22
(1,247)	1:23:A:LYS:HG3	1:23:A:LYS:HE3	13	0.22
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	19	0.22
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	3	0.22
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	2	0.22
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	7	0.22
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	10	0.22
(1,67)	1:8:A:LEU:H	1:8:A:LEU:HG	13	0.21
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	3	0.21
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	4	0.21
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	14	0.21
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	7	0.2
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	9	0.2
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	14	0.2
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	13	0.19
(1,181)	1:10:A:ALA:HB1	1:13:A:GLY:H	5	0.19
(1,181)	1:10:A:ALA:HB2	1:13:A:GLY:H	5	0.19
(1,181)	1:10:A:ALA:HB3	1:13:A:GLY:H	5	0.19
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB2	7	0.18
(1,218)	1:21:A:THR:HA	1:23:A:LYS:HB3	7	0.18
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	13	0.18
(1,157)	1:16:A:LEU:HA	1:20:A:VAL:H	8	0.18
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	6	0.18
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	12	0.18
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	3	0.18
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	8	0.18
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	11	0.17
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	11	0.17
(1,217)	1:16:A:LEU:HA	1:19:A:LEU:HB2	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	1	0.17
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	16	0.17
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	16	0.17
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	2	0.16
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	2	0.16
(1,234)	1:2:A:LEU:HG	1:3:A:PRO:HD3	6	0.16
(1,166)	1:11:A:LYS:H	1:11:A:LYS:HG2	20	0.16
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	4	0.16
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	9	0.16
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	18	0.16
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	17	0.16
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	9	0.15
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	9	0.15
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	20	0.15
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	20	0.15
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	15	0.15
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	7	0.15
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	20	0.15
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	15	0.15
(1,242)	1:15:A:LYS:HG2	1:15:A:LYS:HE2	14	0.14
(1,242)	1:15:A:LYS:HG2	1:15:A:LYS:HE3	14	0.14
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	3	0.14
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	3	0.14
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB1	13	0.14
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB2	13	0.14
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB3	13	0.14
(1,63)	1:16:A:LEU:H	1:16:A:LEU:HG	15	0.14
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	6	0.14
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	10	0.14
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	4	0.13
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	4	0.13
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	5	0.13
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	5	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	1	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	3	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	7	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	10	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	12	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	14	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	20	0.13
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	13	0.13
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	4	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	5	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	6	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	8	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	9	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	16	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	17	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	18	0.12
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	19	0.12
(1,216)	1:15:A:LYS:HA	1:15:A:LYS:HB3	16	0.12
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB1	3	0.12
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB2	3	0.12
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB3	3	0.12
(1,58)	1:10:A:ALA:HB1	1:11:A:LYS:H	18	0.12
(1,58)	1:10:A:ALA:HB2	1:11:A:LYS:H	18	0.12
(1,58)	1:10:A:ALA:HB3	1:11:A:LYS:H	18	0.12
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	16	0.12
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	10	0.12
(1,240)	1:17:A:PHE:HB2	1:18:A:ABA:HB3	7	0.11
(1,240)	1:17:A:PHE:HB3	1:18:A:ABA:HB3	7	0.11
(1,236)	1:16:A:LEU:HA	1:16:A:LEU:HB3	11	0.11
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB1	8	0.11
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB2	8	0.11
(1,113)	1:6:A:ALA:HA	1:9:A:ALA:HB3	8	0.11
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	2	0.11
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	19	0.11
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	2	0.1
(1,57)	1:11:A:LYS:H	1:11:A:LYS:HB2	19	0.1
(1,47)	1:6:A:ALA:HA	1:9:A:ALA:H	17	0.1
(1,8)	1:5:A:LEU:H	1:5:A:LEU:HB2	18	0.1

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found