



# Full wwPDB NMR Structure Validation Report ⓘ

Sep 17, 2024 – 02:04 pm BST

PDB ID : 9G20  
BMRB ID : 34930  
Title : Trp-cage fortified Tc5b-Exenatide chimera (Ex4-Tc5bER) at 310K  
Authors : Horvath, D.  
Deposited on : 2024-07-10

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.38.2

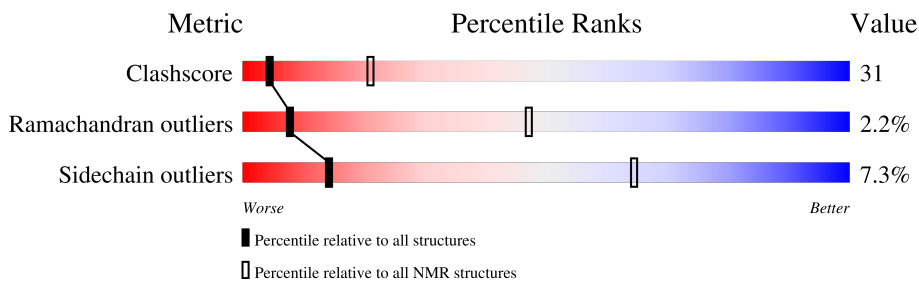
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 53%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	25	

## 2 Ensemble composition and analysis

This entry contains 10 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:2-A:16, A:22-A:24 (18)	0.46	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 2 clusters and 1 single-model cluster was found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 388 atoms, of which 191 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Exendin-4.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	25	388	124	191	34	39	0

There are 4 discrepancies between the modelled and reference sequences:

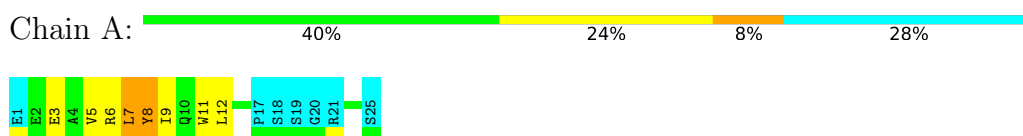
Chain	Residue	Modelled	Actual	Comment	Reference
A	8	TYR	PHE	engineered mutation	UNP P26349
A	10	GLN	GLU	engineered mutation	UNP P26349
A	14	GLU	ASN	engineered mutation	UNP P26349
A	21	ARG	ALA	engineered mutation	UNP P26349

## 4 Residue-property plots [i](#)

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

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

- Molecule 1: Exendin-4

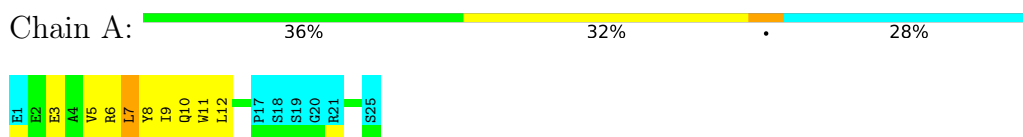


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

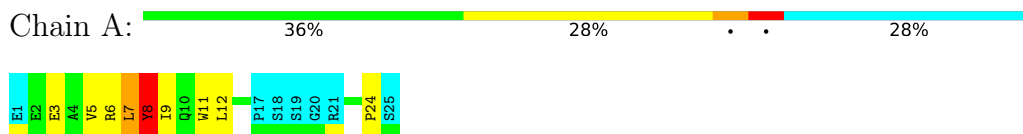
#### 4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Exendin-4



#### 4.2.2 Score per residue for model 2

- Molecule 1: Exendin-4



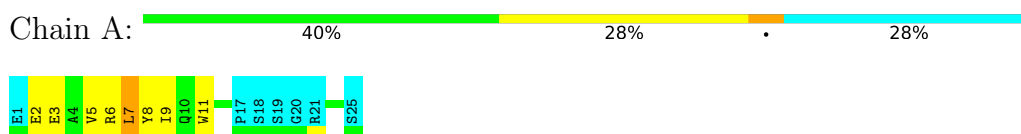
### 4.2.3 Score per residue for model 3

- Molecule 1: Exendin-4



### 4.2.4 Score per residue for model 4

- Molecule 1: Exendin-4



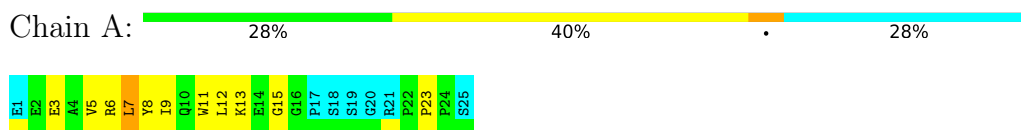
### 4.2.5 Score per residue for model 5

- Molecule 1: Exendin-4



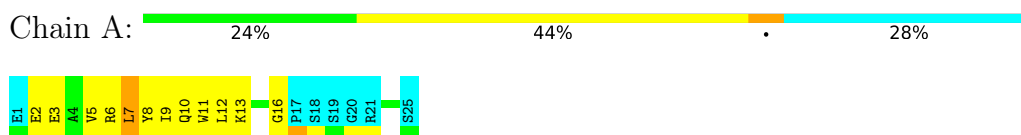
### 4.2.6 Score per residue for model 6

- Molecule 1: Exendin-4



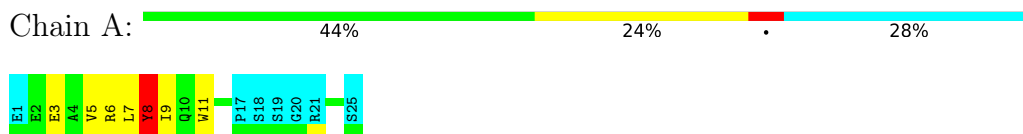
### 4.2.7 Score per residue for model 7

- Molecule 1: Exendin-4



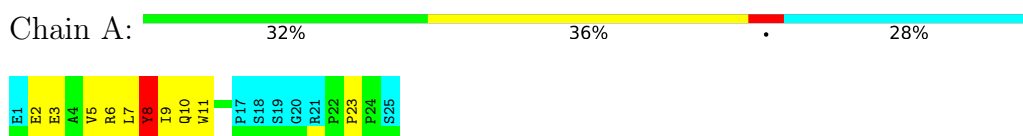
### 4.2.8 Score per residue for model 8

- Molecule 1: Exendin-4



### 4.2.9 Score per residue for model 9

- Molecule 1: Exendin-4



### 4.2.10 Score per residue for model 10

- Molecule 1: Exendin-4



## 5 Refinement protocol and experimental data overview

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

Of the 20 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CcpNmr Analysis Assign	refinement	2.4.1.
ARIA2alpha	structure calculation	2.3.1

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	170
Number of shifts mapped to atoms	170
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	53%



## 6 Model quality i

### 6.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.99±0.23	1±1/153 ( 0.5± 0.7%)	0.84±0.08	0±1/210 ( 0.1± 0.3%)
All	All	1.02	8/1530 ( 0.5%)	0.84	2/2100 ( 0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.4±0.5
All	All	0	4

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	8	TYR	CE1-CZ	13.04	1.55	1.38	3	3
1	A	8	TYR	CE2-CZ	-7.66	1.28	1.38	3	2
1	A	8	TYR	CZ-OH	5.48	1.47	1.37	3	3

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	8	TYR	CD1-CE1-CZ	-5.72	114.65	119.80	3	1
1	A	8	TYR	CE1-CZ-OH	-5.70	104.72	120.10	3	1

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	8	TYR	Sidechain	4

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	147	145	145	9±2
All	All	1470	1450	1450	90

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 31.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:5:VAL:O	1:A:9:ILE:HG12	0.69	1.87	9	10
1:A:8:TYR:O	1:A:11:TRP:HB3	0.63	1.92	8	6
1:A:9:ILE:O	1:A:13:LYS:HB3	0.63	1.93	6	1
1:A:6:ARG:O	1:A:9:ILE:HB	0.61	1.96	4	9
1:A:2:GLU:O	1:A:6:ARG:HB2	0.55	2.01	7	1
1:A:8:TYR:CE1	1:A:11:TRP:CZ3	0.54	2.96	8	3
1:A:8:TYR:CZ	1:A:12:LEU:HD11	0.54	2.37	7	6
1:A:3:GLU:O	1:A:7:LEU:HD12	0.53	2.04	7	9
1:A:5:VAL:O	1:A:8:TYR:HB3	0.53	2.03	7	9
1:A:9:ILE:HD13	1:A:9:ILE:N	0.48	2.23	7	6
1:A:8:TYR:CZ	1:A:11:TRP:CZ3	0.48	3.02	8	3
1:A:8:TYR:CE2	1:A:12:LEU:HD11	0.47	2.44	3	2
1:A:8:TYR:CA	1:A:24:PRO:HG2	0.46	2.41	2	1
1:A:5:VAL:CG1	1:A:6:ARG:N	0.46	2.78	10	8
1:A:11:TRP:CZ2	1:A:23:PRO:HG3	0.45	2.47	9	1
1:A:6:ARG:HD2	1:A:6:ARG:C	0.44	2.33	5	1
1:A:9:ILE:O	1:A:13:LYS:N	0.43	2.42	6	4
1:A:8:TYR:HA	1:A:24:PRO:HG2	0.42	1.91	2	1
1:A:5:VAL:HG13	1:A:6:ARG:N	0.42	2.28	7	6
1:A:8:TYR:OH	1:A:12:LEU:HD11	0.42	2.14	2	1
1:A:8:TYR:CE2	1:A:11:TRP:CZ3	0.42	3.07	8	1
1:A:11:TRP:CH2	1:A:23:PRO:HG3	0.41	2.51	6	1

## 6.3 Torsion angles [i](#)

### 6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	18/25 (72%)	13±2 (73±12%)	4±2 (24±11%)	0±0 (2±3%)	8	47
All	All	180/250 (72%)	132 (73%)	44 (24%)	4 (2%)	8	47

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	2	GLU	2
1	A	15	GLY	2

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	15/21 (71%)	14±1 (93±5%)	1±1 (7±5%)	14	64
All	All	150/210 (71%)	139 (93%)	11 (7%)	14	64

All 2 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	7	LEU	7
1	A	10	GLN	4

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

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

There are no chain breaks in this entry.

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

The completeness of assignment taking into account all chemical shift lists is 53% for the well-defined parts and 51% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *nef\_chemical\_shift\_list\_ShiftList\_1*

#### 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	170
Number of shifts mapped to atoms	170
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

#### 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 53%, i.e. 135 atoms were assigned a chemical shift out of a possible 255. 0 out of 3 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	34/86 (40%)	34/35 (97%)	0/36 (0%)	0/15 (0%)
Sidechain	91/148 (61%)	91/96 (95%)	0/47 (0%)	0/5 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	135/255 (53%)	135/141 (96%)	0/93 (0%)	0/21 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 51%, i.e. 170 atoms were assigned a chemical shift out of a possible 332. 0 out of 3 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	47/120 (39%)	47/49 (96%)	0/50 (0%)	0/21 (0%)
Sidechain	113/191 (59%)	113/123 (92%)	0/60 (0%)	0/8 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	170/332 (51%)	170/182 (93%)	0/120 (0%)	0/30 (0%)

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

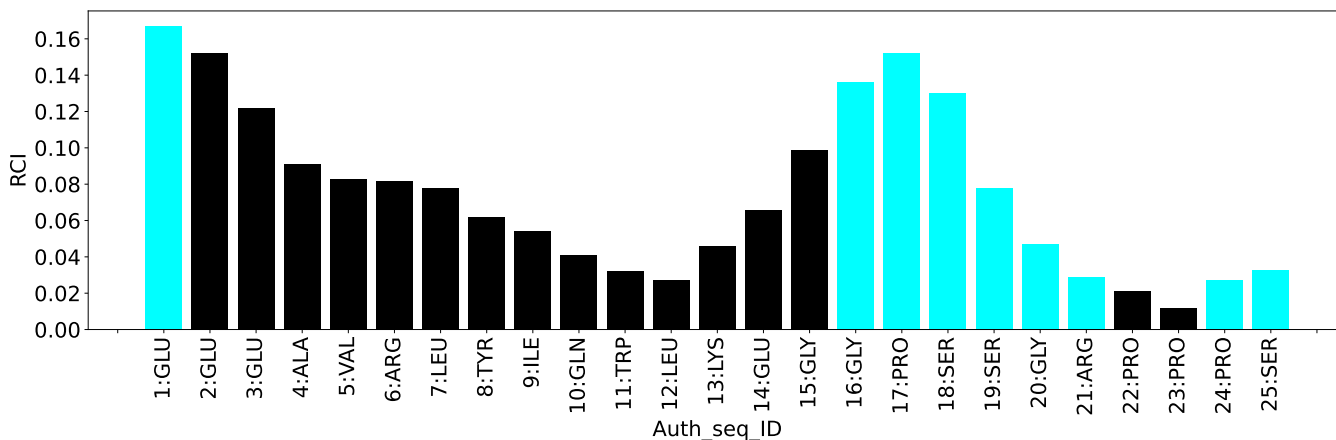
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	16	GLY	HA2	1.57	2.15 – 5.77	-6.6

### 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	1371
Intra-residue ( $ i-j =0$ )	777
Sequential ( $ i-j =1$ )	273
Medium range ( $ i-j >1$ and $ i-j <5$ )	201
Long range ( $ i-j \geq 5$ )	120
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	54.8
Number of long range restraints per residue <sup>1</sup>	4.8

<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)	69.8	0.2
0.2-0.5 (Medium)	136.8	0.5
>0.5 (Large)	107.0	3.09

### 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

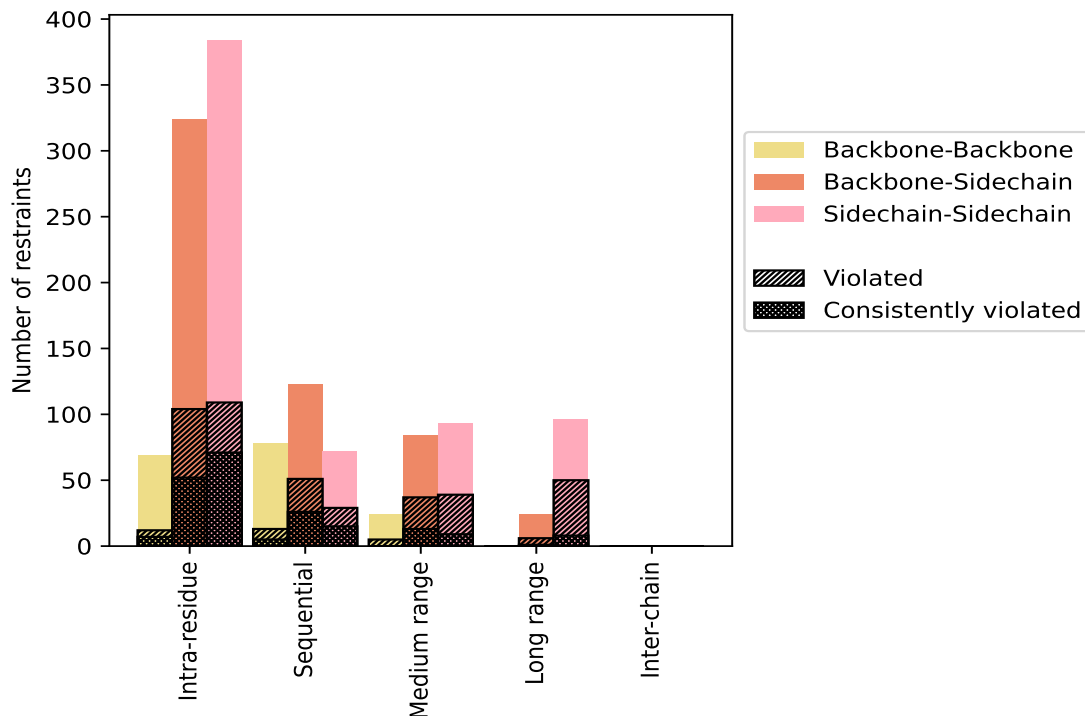
### 9.1 Summary of distance violations

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>777</b>	<b>56.7</b>	<b>225</b>	<b>29.0</b>	<b>16.4</b>	<b>130</b>	<b>16.7</b>	<b>9.5</b>
Backbone-Backbone	69	5.0	12	17.4	0.9	7	10.1	0.5
Backbone-Sidechain	324	23.6	104	32.1	7.6	52	16.0	3.8
Sidechain-Sidechain	384	28.0	109	28.4	8.0	71	18.5	5.2
<b>Sequential (<math> i-j =1</math>)</b>	<b>273</b>	<b>19.9</b>	<b>93</b>	<b>34.1</b>	<b>6.8</b>	<b>46</b>	<b>16.8</b>	<b>3.4</b>
Backbone-Backbone	78	5.7	13	16.7	0.9	5	6.4	0.4
Backbone-Sidechain	123	9.0	51	41.5	3.7	26	21.1	1.9
Sidechain-Sidechain	72	5.3	29	40.3	2.1	15	20.8	1.1
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>201</b>	<b>14.7</b>	<b>81</b>	<b>40.3</b>	<b>5.9</b>	<b>22</b>	<b>10.9</b>	<b>1.6</b>
Backbone-Backbone	24	1.8	5	20.8	0.4	0	0.0	0.0
Backbone-Sidechain	84	6.1	37	44.0	2.7	13	15.5	0.9
Sidechain-Sidechain	93	6.8	39	41.9	2.8	9	9.7	0.7
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>120</b>	<b>8.8</b>	<b>56</b>	<b>46.7</b>	<b>4.1</b>	<b>9</b>	<b>7.5</b>	<b>0.7</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	24	1.8	6	25.0	0.4	1	4.2	0.1
Sidechain-Sidechain	96	7.0	50	52.1	3.6	8	8.3	0.6
<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>1371</b>	<b>100.0</b>	<b>455</b>	<b>33.2</b>	<b>33.2</b>	<b>207</b>	<b>15.1</b>	<b>15.1</b>
Backbone-Backbone	171	12.5	30	17.5	2.2	12	7.0	0.9
Backbone-Sidechain	555	40.5	198	35.7	14.4	92	16.6	6.7
Sidechain-Sidechain	645	47.0	227	35.2	16.6	103	16.0	7.5

<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

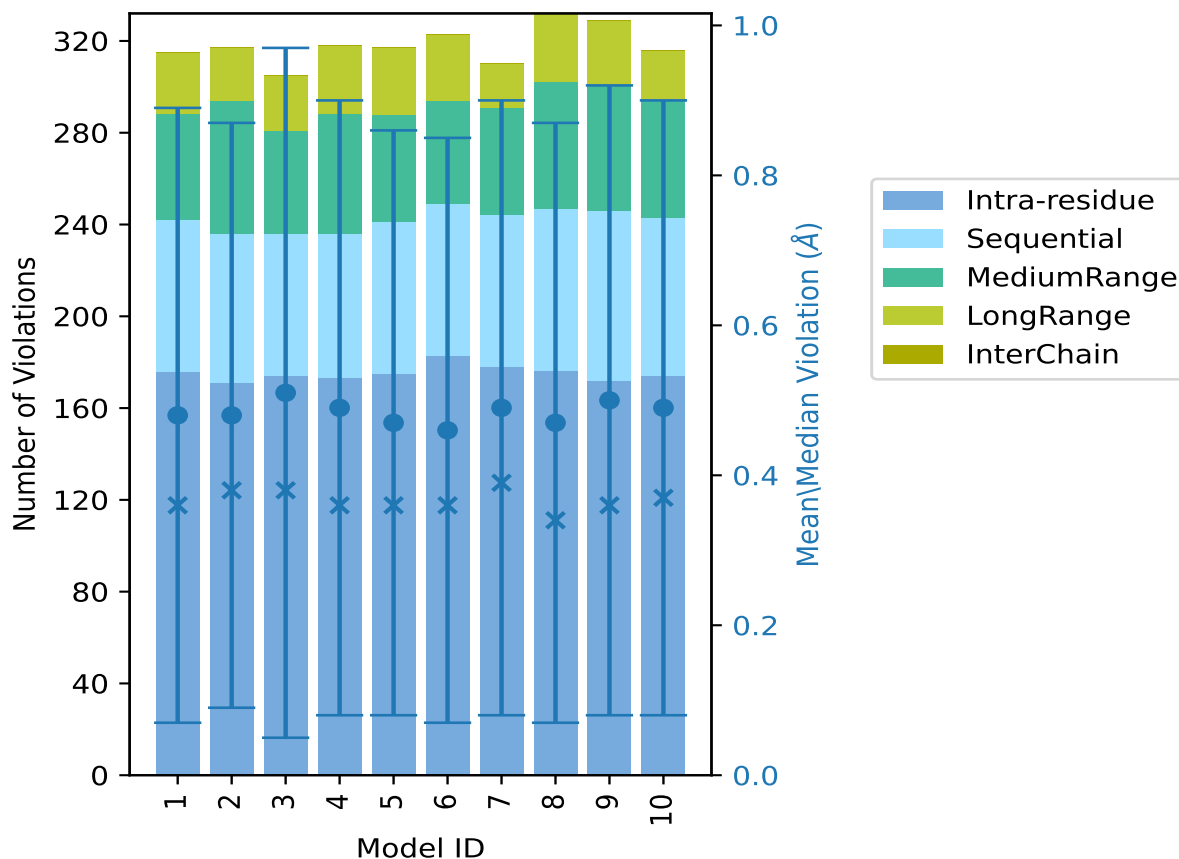
## 9.2 Distance violation statistics for each model [i](#)

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						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	176	66	46	27	0	315	0.48	3.02	0.41	0.36
2	171	65	58	23	0	317	0.48	3.09	0.39	0.38
3	174	62	45	24	0	305	0.51	2.99	0.46	0.38
4	173	63	52	30	0	318	0.49	2.82	0.41	0.36
5	175	66	47	29	0	317	0.47	2.84	0.39	0.36
6	183	66	45	29	0	323	0.46	2.95	0.39	0.36
7	178	66	47	19	0	310	0.49	3.03	0.41	0.39
8	176	71	55	30	0	332	0.47	2.69	0.4	0.34
9	172	74	55	28	0	329	0.5	2.81	0.42	0.36
10	174	69	51	22	0	316	0.49	3.06	0.41	0.37

<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 [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 916(IR:552, SQ:180, MR:120, LR:64, 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>	%
11	6	8	8	0	33	1	10.0
12	11	7	8	0	38	2	20.0
11	3	6	14	0	34	3	30.0

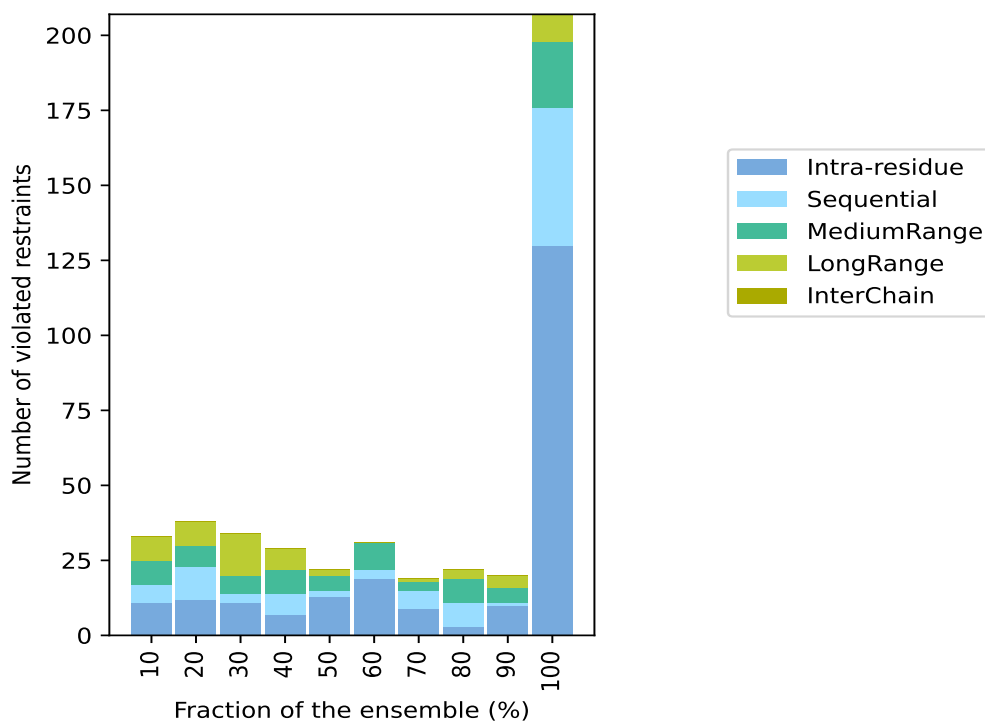
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
7	7	8	7	0	29	4	40.0
13	2	5	2	0	22	5	50.0
19	3	9	0	0	31	6	60.0
9	6	3	1	0	19	7	70.0
3	8	8	3	0	22	8	80.0
10	1	5	4	0	20	9	90.0
130	46	22	9	0	207	10	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](#)

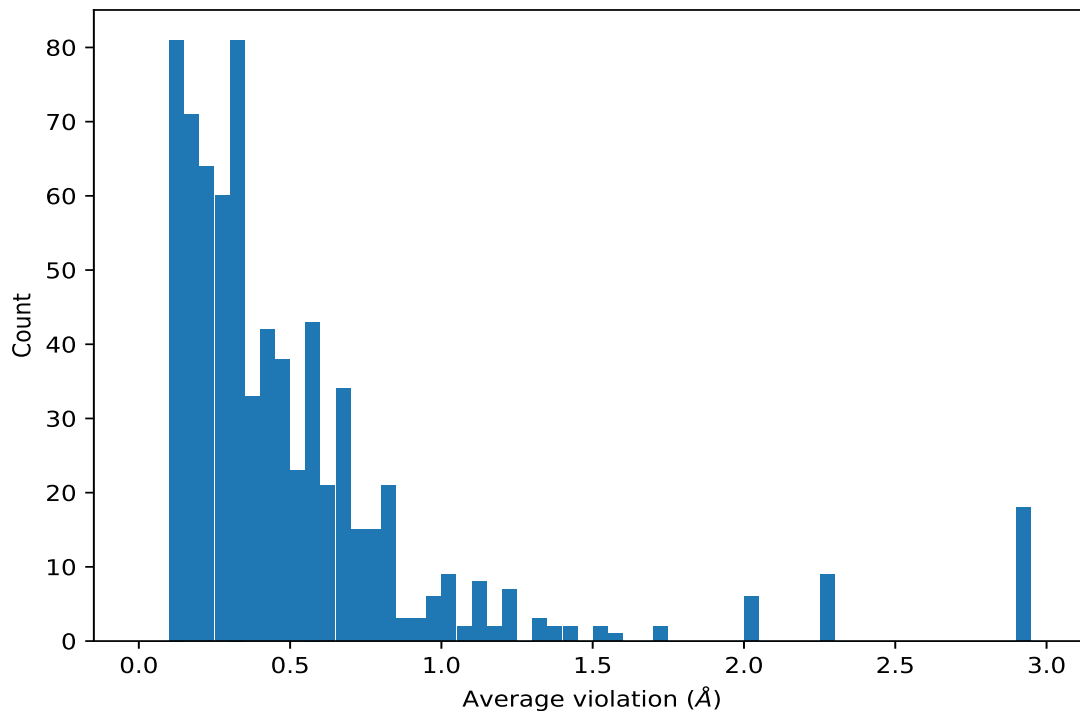


## 9.4 Most violated distance restraints in the ensemble [i](#)

### 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)
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	2.93	0.13	2.97

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	2.93	0.13	2.97
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	2.93	0.13	2.97
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	2.25	0.12	2.28
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	2.25	0.12	2.28
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	2.04	0.24	1.98
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	2.04	0.24	1.98
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	2.04	0.24	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	2.04	0.24	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	2.04	0.24	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	2.04	0.24	1.98
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	1.52	0.22	1.59
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	1.52	0.22	1.59
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.41	0.03	1.41
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.41	0.03	1.41
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	1.35	0.12	1.36
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	1.35	0.12	1.36
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	1.3	0.24	1.23
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	1.3	0.24	1.23
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	1.3	0.24	1.23
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	10	1.23	0.45	1.46
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	10	1.23	0.45	1.46
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	1.22	0.23	1.37
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	1.22	0.23	1.37
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	1.22	0.23	1.37
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	1.22	0.23	1.37
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	1.14	0.21	1.16
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	1.14	0.21	1.16
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	10	1.04	0.03	1.04
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	10	1.04	0.03	1.04
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	10	1.04	0.03	1.04
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	10	1.01	0.09	1.03
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	10	1.01	0.09	1.03
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	10	0.99	0.28	1.06
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	10	0.99	0.28	1.06

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.97	0.05	0.97
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.97	0.05	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.97	0.01	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.97	0.01	0.97
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	10	0.92	0.37	1.08
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	10	0.91	0.28	1.0
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.87	0.02	0.87
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.87	0.02	0.87
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.84	0.07	0.86
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	10	0.84	0.07	0.83
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	10	0.84	0.07	0.83
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	10	0.83	0.01	0.83
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	0.8	0.22	0.87
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	10	0.8	0.04	0.78
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	10	0.8	0.04	0.78
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	10	0.8	0.04	0.78
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	10	0.77	0.29	0.68
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	10	0.77	0.29	0.68
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	10	0.76	0.01	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	10	0.76	0.01	0.76
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.74	0.09	0.77
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.74	0.09	0.77
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.74	0.09	0.77
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.74	0.09	0.77
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.74	0.09	0.77
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.74	0.09	0.77
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.74	0.06	0.74
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	0.73	0.03	0.72
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	10	0.73	0.05	0.74
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	10	0.72	0.12	0.79
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	10	0.71	0.17	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	10	0.71	0.17	0.78
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	10	0.7	0.34	0.66
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	10	0.7	0.34	0.66
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	10	0.7	0.11	0.72
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	10	0.69	0.07	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	10	0.69	0.07	0.67
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	10	0.69	0.01	0.68
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	10	0.69	0.01	0.68
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	10	0.67	0.07	0.64
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	10	0.67	0.27	0.82
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.66	0.02	0.66

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.66	0.02	0.66
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.66	0.03	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.66	0.03	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.66	0.03	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.66	0.03	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.66	0.03	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.66	0.03	0.67
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	10	0.66	0.04	0.67
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	10	0.65	0.01	0.66
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	10	0.65	0.17	0.68
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	10	0.65	0.17	0.68
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	10	0.65	0.04	0.64
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	10	0.63	0.04	0.65
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.61	0.17	0.48
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.61	0.17	0.48
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.61	0.17	0.48
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.61	0.17	0.48
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.61	0.17	0.48
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.61	0.17	0.48
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	10	0.61	0.12	0.59
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	10	0.61	0.12	0.59
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	10	0.6	0.13	0.58
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	10	0.59	0.18	0.62
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	10	0.58	0.15	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	10	0.58	0.15	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	10	0.58	0.15	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	10	0.58	0.15	0.65
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.58	0.02	0.56
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	10	0.58	0.13	0.61
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	10	0.58	0.13	0.61
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	10	0.56	0.03	0.57
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	10	0.56	0.03	0.57
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.56	0.03	0.56
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.56	0.03	0.56
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.56	0.03	0.56
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.56	0.03	0.56
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.56	0.03	0.56
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.56	0.03	0.56
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	10	0.55	0.04	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	10	0.55	0.04	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	10	0.55	0.04	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	10	0.55	0.04	0.58

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	10	0.55	0.03	0.55
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	10	0.55	0.07	0.55
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	10	0.54	0.02	0.54
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	10	0.52	0.07	0.54
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	10	0.52	0.07	0.54
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	10	0.52	0.1	0.51
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	10	0.52	0.04	0.5
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	10	0.51	0.03	0.5
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	0.5	0.23	0.66
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	0.5	0.23	0.66
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	10	0.5	0.01	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	10	0.5	0.01	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	10	0.5	0.01	0.5
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	10	0.49	0.06	0.45
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	10	0.48	0.0	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	10	0.48	0.0	0.48
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	10	0.47	0.29	0.36
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	10	0.47	0.29	0.36
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	10	0.47	0.03	0.46
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	10	0.47	0.1	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	10	0.46	0.01	0.46
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.45	0.17	0.44
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.45	0.17	0.44
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	10	0.45	0.05	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.45	0.02	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.45	0.02	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.45	0.02	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.45	0.02	0.44
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	10	0.44	0.07	0.45
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.44	0.21	0.46
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	10	0.43	0.03	0.43
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	10	0.42	0.06	0.44
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	10	0.42	0.02	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	10	0.42	0.0	0.42
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.42	0.08	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.42	0.08	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.42	0.08	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.42	0.08	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.42	0.08	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.42	0.08	0.4
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	10	0.42	0.01	0.42
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	10	0.41	0.0	0.41

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	10	0.4	0.0	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	0.4	0.02	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	0.4	0.02	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	0.4	0.02	0.4
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	10	0.39	0.0	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	10	0.39	0.0	0.39
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	10	0.38	0.03	0.38
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	10	0.38	0.18	0.3
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	10	0.37	0.01	0.37
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	10	0.37	0.06	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	10	0.37	0.06	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.36	0.01	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.36	0.01	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.36	0.01	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.36	0.01	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.36	0.01	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.36	0.01	0.36
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	10	0.36	0.01	0.36
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	10	0.36	0.01	0.36
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	10	0.36	0.01	0.36
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	0.36	0.04	0.36
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	0.36	0.04	0.36
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	0.36	0.04	0.36
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	10	0.36	0.02	0.36
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	10	0.35	0.02	0.36
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	10	0.35	0.03	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	10	0.34	0.09	0.37
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	10	0.34	0.09	0.37
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	10	0.34	0.05	0.34
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	10	0.34	0.05	0.34
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	10	0.34	0.05	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	10	0.34	0.05	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	10	0.34	0.05	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	10	0.34	0.05	0.34
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	10	0.34	0.03	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	10	0.34	0.03	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	10	0.34	0.03	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	10	0.34	0.03	0.32
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	10	0.34	0.11	0.34
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	10	0.34	0.11	0.34
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	10	0.34	0.11	0.34
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	10	0.34	0.11	0.34

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	10	0.34	0.04	0.34
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	10	0.33	0.05	0.32
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.33	0.08	0.32
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	10	0.33	0.1	0.34
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	10	0.33	0.1	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	10	0.33	0.1	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	10	0.33	0.1	0.34
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	10	0.33	0.02	0.34
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	10	0.33	0.02	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	10	0.33	0.03	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	10	0.33	0.03	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	10	0.33	0.03	0.33
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	10	0.33	0.01	0.33
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	10	0.33	0.05	0.34
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	10	0.33	0.05	0.34
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	10	0.32	0.01	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	10	0.32	0.01	0.33
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.32	0.02	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.32	0.02	0.32
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	10	0.31	0.04	0.3
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	10	0.31	0.04	0.3
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	10	0.31	0.06	0.29
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	10	0.31	0.06	0.29
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	10	0.31	0.06	0.29
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	10	0.31	0.01	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	10	0.31	0.01	0.31

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	10	0.31	0.01	0.31
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	10	0.3	0.15	0.21
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	10	0.3	0.02	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	10	0.3	0.02	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	10	0.3	0.01	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	10	0.3	0.01	0.3
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.3	0.03	0.29
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.3	0.03	0.29
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	10	0.29	0.04	0.3
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	10	0.29	0.04	0.3
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	10	0.29	0.0	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	10	0.29	0.0	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	10	0.29	0.0	0.29
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	10	0.28	0.0	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	10	0.28	0.0	0.28
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	10	0.28	0.04	0.28
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	10	0.27	0.01	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	10	0.27	0.01	0.27
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	10	0.26	0.12	0.2
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	10	0.26	0.12	0.2
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	10	0.26	0.05	0.25
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	10	0.26	0.05	0.25
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.25	0.05	0.25
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.25	0.08	0.29
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.25	0.08	0.29
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.25	0.08	0.29
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	10	0.25	0.03	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	10	0.25	0.03	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	10	0.25	0.03	0.26
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	10	0.25	0.0	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	10	0.24	0.01	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	10	0.24	0.01	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	10	0.24	0.01	0.24
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	10	0.24	0.05	0.27
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	10	0.23	0.08	0.26
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	10	0.23	0.08	0.26
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	10	0.23	0.01	0.22
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.23	0.01	0.23
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	10	0.22	0.03	0.22
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	10	0.22	0.01	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	10	0.22	0.01	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	10	0.22	0.01	0.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	10	0.22	0.01	0.22
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	10	0.21	0.0	0.21
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	10	0.21	0.02	0.21
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	10	0.21	0.02	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.2	0.04	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.2	0.04	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.2	0.04	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.2	0.04	0.21
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	10	0.2	0.07	0.19
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	10	0.2	0.07	0.19
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	10	0.2	0.04	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	10	0.19	0.01	0.2
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	10	0.19	0.03	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	10	0.19	0.03	0.19
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	10	0.19	0.03	0.18
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	10	0.19	0.03	0.18
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.18	0.03	0.2
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	10	0.18	0.0	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	10	0.18	0.0	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	10	0.18	0.01	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	10	0.18	0.01	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	10	0.18	0.02	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	10	0.18	0.02	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	10	0.18	0.02	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	10	0.18	0.01	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	10	0.18	0.01	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	10	0.18	0.01	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	10	0.18	0.01	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	10	0.18	0.01	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	10	0.18	0.01	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	10	0.18	0.02	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	10	0.18	0.02	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	10	0.18	0.02	0.18
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	10	0.18	0.01	0.17
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	10	0.17	0.02	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	10	0.17	0.01	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	10	0.17	0.0	0.17

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	10	0.17	0.01	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	10	0.17	0.01	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	10	0.17	0.01	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	10	0.17	0.01	0.16
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	10	0.16	0.05	0.16
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	10	0.16	0.04	0.16
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	10	0.15	0.03	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	10	0.15	0.03	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	10	0.15	0.03	0.15
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	10	0.14	0.03	0.14
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	10	0.14	0.03	0.14
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.13	0.02	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	10	0.13	0.0	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	10	0.13	0.01	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	10	0.13	0.01	0.13
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	0.82	0.28	0.69
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	0.82	0.28	0.69
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	9	0.74	0.2	0.85
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	9	0.74	0.2	0.85
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	9	0.63	0.32	0.54
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	9	0.62	0.18	0.7
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	9	0.56	0.07	0.57
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	9	0.56	0.07	0.57
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	9	0.56	0.07	0.57
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	9	0.5	0.18	0.46
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	9	0.45	0.09	0.46
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	9	0.44	0.06	0.43
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	9	0.44	0.06	0.43
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	9	0.44	0.06	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	9	0.43	0.1	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	9	0.43	0.1	0.43
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	9	0.38	0.06	0.39
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	9	0.38	0.06	0.39
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	9	0.37	0.07	0.35
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	9	0.34	0.19	0.32
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	9	0.29	0.11	0.26
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	9	0.29	0.11	0.26
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	9	0.28	0.11	0.27
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	9	0.26	0.09	0.24
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	9	0.17	0.05	0.17
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	9	0.17	0.05	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	9	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	9	0.15	0.02	0.15
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	9	0.14	0.02	0.14
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	9	0.14	0.02	0.14
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	8	0.79	0.14	0.84
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	8	0.79	0.14	0.84
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	8	0.79	0.14	0.84
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	8	0.79	0.14	0.84
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	8	0.79	0.14	0.84
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	8	0.79	0.14	0.84
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	8	0.75	0.28	0.86
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	8	0.75	0.28	0.86
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	8	0.7	0.2	0.74
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.64	0.25	0.62
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.64	0.25	0.62
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	8	0.51	0.12	0.55
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	8	0.49	0.27	0.46
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	8	0.49	0.27	0.46
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	8	0.49	0.27	0.46
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	8	0.49	0.27	0.46
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	8	0.49	0.27	0.46
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	8	0.49	0.27	0.46
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	8	0.49	0.21	0.45
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	8	0.49	0.21	0.45
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	8	0.49	0.21	0.45
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	8	0.49	0.21	0.45
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	8	0.49	0.21	0.45
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	8	0.49	0.21	0.45
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	8	0.48	0.21	0.46
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	8	0.48	0.21	0.46
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	8	0.48	0.21	0.46
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	8	0.44	0.2	0.48
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	8	0.36	0.08	0.41
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	8	0.32	0.09	0.34
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	8	0.24	0.1	0.22
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	8	0.23	0.07	0.23
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	8	0.23	0.11	0.2
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.16	0.03	0.16
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.16	0.03	0.16
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.16	0.03	0.16
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.16	0.03	0.16
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	8	0.14	0.02	0.15
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	8	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	8	0.14	0.02	0.15
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	8	0.14	0.02	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	8	0.13	0.02	0.12
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	8	0.13	0.02	0.12
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	8	0.13	0.02	0.12
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	8	0.13	0.02	0.12
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	0.77	0.32	0.59
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	0.77	0.32	0.59
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	7	0.45	0.23	0.41
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	7	0.43	0.06	0.43
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	7	0.43	0.13	0.48
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	7	0.4	0.19	0.36
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	7	0.4	0.19	0.36
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.31	0.06	0.29
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.31	0.06	0.29
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	7	0.3	0.05	0.31
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	7	0.3	0.16	0.22
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	7	0.3	0.16	0.22
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	7	0.28	0.08	0.28
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	7	0.28	0.08	0.28
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	7	0.28	0.08	0.28
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	7	0.23	0.07	0.23
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	7	0.18	0.01	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	7	0.18	0.01	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	7	0.18	0.01	0.18
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	7	0.17	0.0	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	7	0.17	0.0	0.17
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	7	0.15	0.01	0.15
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.14	0.03	0.15
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.14	0.03	0.15
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	6	0.79	0.13	0.76
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	6	0.7	0.14	0.63
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	6	0.64	0.06	0.61
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	6	0.64	0.06	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	6	0.61	0.01	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	6	0.61	0.01	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	6	0.61	0.01	0.61

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	6	0.59	0.05	0.6
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	6	0.59	0.05	0.6
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	6	0.58	0.26	0.58
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	6	0.58	0.26	0.58
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	6	0.58	0.26	0.58
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	6	0.53	0.03	0.53
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	6	0.53	0.03	0.53
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	6	0.53	0.03	0.53
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	6	0.5	0.17	0.4
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	6	0.5	0.17	0.4
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	6	0.49	0.08	0.52
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	6	0.44	0.27	0.45
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	6	0.38	0.07	0.4
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	6	0.38	0.07	0.4
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	6	0.38	0.07	0.4
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	6	0.38	0.07	0.4
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	6	0.38	0.07	0.4
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	6	0.38	0.07	0.4
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	6	0.35	0.02	0.35
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	6	0.34	0.21	0.26
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	6	0.31	0.04	0.3
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	6	0.22	0.01	0.22
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	6	0.22	0.01	0.22
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	6	0.21	0.03	0.21
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	6	0.21	0.03	0.21
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	6	0.21	0.03	0.21
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	6	0.21	0.03	0.21
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	6	0.19	0.04	0.19
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	6	0.18	0.01	0.18
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	6	0.17	0.07	0.15
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	6	0.16	0.03	0.18
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	6	0.16	0.04	0.14
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	6	0.16	0.04	0.14
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	6	0.16	0.04	0.14
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	6	0.16	0.04	0.14
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	6	0.16	0.04	0.14
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	6	0.16	0.04	0.14
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	6	0.16	0.04	0.14
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	6	0.16	0.04	0.14
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	6	0.16	0.04	0.14
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	6	0.16	0.04	0.14
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	6	0.16	0.04	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	6	0.16	0.04	0.14
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	6	0.16	0.05	0.15
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	6	0.16	0.05	0.15
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	6	0.15	0.01	0.16
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.15	0.06	0.12
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.15	0.06	0.12
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.15	0.06	0.12
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.15	0.06	0.12
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	6	0.12	0.01	0.12
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	6	0.11	0.0	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	6	0.11	0.0	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	6	0.11	0.0	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	6	0.11	0.0	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	6	0.11	0.0	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	6	0.11	0.0	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	6	0.11	0.0	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	6	0.11	0.0	0.11
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	5	1.16	0.02	1.16
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	5	0.9	0.41	1.17
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	5	0.72	0.04	0.71
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	5	0.65	0.03	0.65
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	5	0.46	0.04	0.49
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	5	0.44	0.02	0.44
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	5	0.44	0.02	0.43
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	5	0.44	0.23	0.51
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	5	0.43	0.11	0.49
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	5	0.42	0.2	0.29
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	5	0.39	0.04	0.39
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	5	0.39	0.04	0.39
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	5	0.33	0.02	0.34
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	5	0.31	0.21	0.24
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	5	0.26	0.11	0.26
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	5	0.24	0.08	0.24
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	5	0.21	0.08	0.18
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	5	0.19	0.05	0.21
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	5	0.19	0.05	0.21
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	5	0.19	0.05	0.21
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	5	0.19	0.05	0.21
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	5	0.14	0.01	0.14
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	5	0.13	0.0	0.13
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	5	0.13	0.0	0.13
(2,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.72	0.42	1.71

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,407)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.72	0.42	1.71
(1,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.03	0.42	1.02
(1,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	4	1.02	0.39	1.13
(1,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	4	1.02	0.39	1.13
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD11	4	0.57	0.05	0.56
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD12	4	0.57	0.05	0.56
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD13	4	0.57	0.05	0.56
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD11	4	0.57	0.05	0.56
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD12	4	0.57	0.05	0.56
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD13	4	0.57	0.05	0.56
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG2	4	0.53	0.22	0.53
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG3	4	0.53	0.22	0.53
(1,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	4	0.43	0.07	0.44
(1,202)	1:14:A:GLU:H	1:14:A:GLU:HG2	4	0.4	0.25	0.4
(1,253)	1:11:A:TRP:HZ2	1:17:A:PRO:HA	4	0.38	0.18	0.4
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD11	4	0.34	0.04	0.34
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD12	4	0.34	0.04	0.34
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD13	4	0.34	0.04	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD11	4	0.34	0.04	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD12	4	0.34	0.04	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD13	4	0.34	0.04	0.34
(1,42)	1:21:A:ARG:H	1:21:A:ARG:HB2	4	0.34	0.07	0.32
(1,396)	1:11:A:TRP:HZ3	1:12:A:LEU:HG	4	0.32	0.07	0.32
(2,346)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	4	0.31	0.06	0.34
(3,327)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	4	0.31	0.06	0.34
(1,260)	1:8:A:TYR:HA	1:11:A:TRP:HE3	4	0.24	0.07	0.2
(1,443)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	4	0.23	0.12	0.21
(1,443)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	4	0.23	0.12	0.21
(1,443)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	4	0.23	0.12	0.21
(1,315)	1:11:A:TRP:HE3	1:12:A:LEU:H	4	0.22	0.04	0.22
(2,418)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(2,418)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(2,418)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(3,395)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(3,395)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(3,395)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	4	0.2	0.07	0.23
(1,335)	1:6:A:ARG:HA	1:9:A:ILE:HB	4	0.2	0.05	0.21
(2,118)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	4	0.19	0.01	0.2
(4,3)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	4	0.19	0.01	0.2
(1,288)	1:12:A:LEU:HB2	1:13:A:LYS:H	4	0.16	0.04	0.16
(2,450)	1:9:A:ILE:HG13	1:10:A:GLN:H	4	0.14	0.02	0.14
(3,423)	1:9:A:ILE:HG13	1:10:A:GLN:H	4	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	4	0.14	0.02	0.15
(3,228)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	4	0.14	0.02	0.15
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.1	0.0	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.1	0.0	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.1	0.0	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.1	0.0	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.1	0.0	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.1	0.0	0.1
(1,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	3	1.57	0.03	1.58
(1,40)	1:21:A:ARG:H	1:21:A:ARG:HG2	3	1.17	0.11	1.22
(1,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	3	1.02	0.31	1.21
(1,240)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	3	0.87	0.55	1.06
(1,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.81	0.06	0.83
(2,228)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	3	0.81	0.05	0.78
(2,228)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	3	0.81	0.05	0.78
(3,220)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	3	0.81	0.05	0.78
(3,220)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	3	0.81	0.05	0.78
(2,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.65	0.03	0.67
(3,237)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.65	0.03	0.67
(2,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	3	0.64	0.44	0.43
(3,404)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	3	0.64	0.44	0.43
(1,108)	1:6:A:ARG:HA	1:6:A:ARG:HG3	3	0.61	0.01	0.61
(2,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(2,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(2,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(3,337)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(3,337)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(3,337)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	3	0.6	0.26	0.78
(2,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	3	0.47	0.04	0.5
(3,229)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	3	0.47	0.04	0.5
(1,399)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	3	0.45	0.16	0.5
(1,399)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	3	0.45	0.16	0.5
(1,10)	1:16:A:GLY:H	1:16:A:GLY:HA3	3	0.34	0.04	0.35
(1,374)	1:12:A:LEU:HA	1:16:A:GLY:H	3	0.25	0.14	0.23
(2,119)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	3	0.23	0.0	0.23
(3,116)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	3	0.23	0.0	0.23
(2,117)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	3	0.22	0.0	0.22
(3,115)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	3	0.22	0.0	0.22
(1,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.21	0.06	0.24
(2,195)	1:14:A:GLU:HA	1:14:A:GLU:HG3	3	0.16	0.04	0.19
(3,188)	1:14:A:GLU:HA	1:14:A:GLU:HG3	3	0.16	0.04	0.19
(2,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	3	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	3	0.14	0.01	0.14
(2,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	3	0.13	0.02	0.13
(3,238)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	3	0.13	0.02	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	3	0.12	0.01	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	3	0.12	0.01	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	3	0.12	0.01	0.13
(1,325)	1:12:A:LEU:H	1:13:A:LYS:H	3	0.12	0.02	0.12
(2,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.11	0.0	0.11
(3,240)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.11	0.0	0.11
(1,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	2	1.23	0.13	1.23
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	2	1.13	0.05	1.13
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	2	1.13	0.05	1.13
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	2	1.13	0.05	1.13
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	2	1.13	0.05	1.13
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	2	1.13	0.05	1.13
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	2	1.13	0.05	1.13
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD2	2	1.08	0.16	1.08
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD3	2	1.08	0.16	1.08
(2,365)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(2,365)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(2,365)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(3,344)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(3,344)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(3,344)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	2	0.82	0.2	0.82
(2,441)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(2,441)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(2,441)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(3,416)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(3,416)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(3,416)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.68	0.18	0.68
(1,31)	1:21:A:ARG:HA	1:21:A:ARG:HG2	2	0.68	0.01	0.68
(1,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	2	0.54	0.02	0.54
(1,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	2	0.5	0.03	0.5
(1,109)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	2	0.5	0.04	0.5
(1,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	2	0.42	0.28	0.42
(1,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	2	0.42	0.28	0.42
(1,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	2	0.42	0.28	0.42
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	2	0.42	0.05	0.42
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	2	0.42	0.05	0.42
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	2	0.42	0.05	0.42
(2,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	2	0.3	0.02	0.3
(3,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	2	0.3	0.02	0.3

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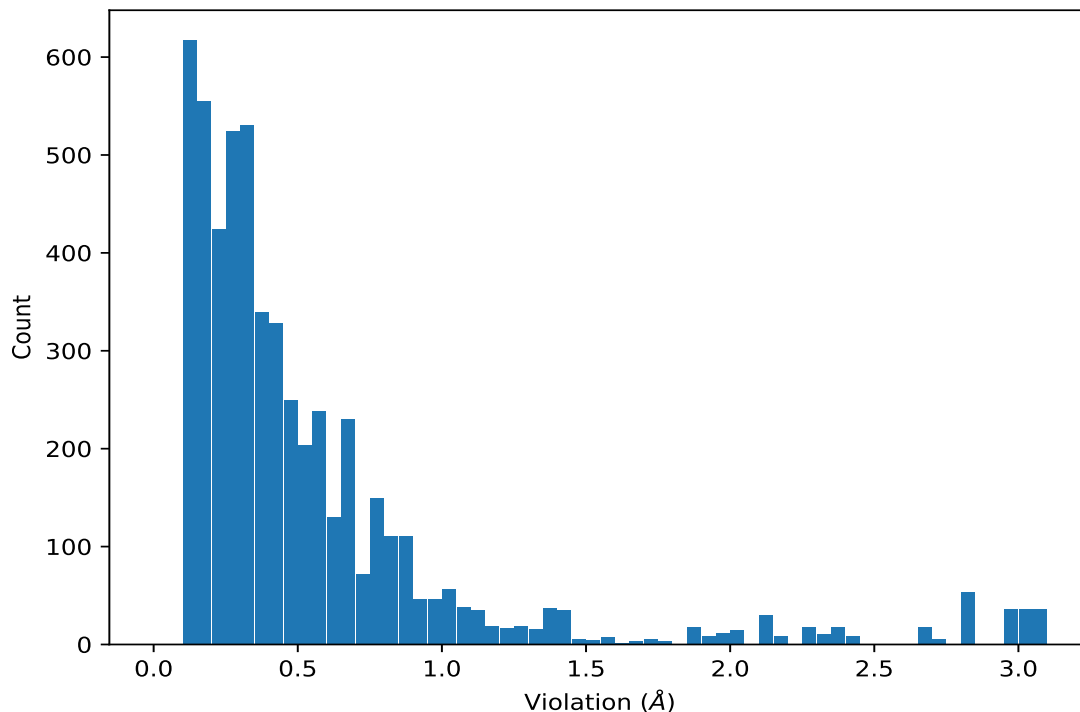
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(2,407)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	2	0.26	0.1	0.26
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	2	0.26	0.01	0.26
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	2	0.26	0.01	0.26
(3,384)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	2	0.26	0.1	0.26
(1,357)	1:12:A:LEU:HD21	1:17:A:PRO:HD2	2	0.26	0.02	0.26
(1,357)	1:12:A:LEU:HD22	1:17:A:PRO:HD2	2	0.26	0.02	0.26
(1,357)	1:12:A:LEU:HD23	1:17:A:PRO:HD2	2	0.26	0.02	0.26
(2,427)	1:2:A:GLU:HB2	1:4:A:ALA:H	2	0.23	0.05	0.23
(3,402)	1:2:A:GLU:HB2	1:4:A:ALA:H	2	0.23	0.05	0.23
(1,66)	1:22:A:PRO:HA	1:23:A:PRO:HD2	2	0.2	0.06	0.2
(1,305)	1:13:A:LYS:HB2	1:14:A:GLU:H	2	0.2	0.06	0.2
(1,305)	1:13:A:LYS:HB3	1:14:A:GLU:H	2	0.2	0.06	0.2
(1,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	2	0.2	0.06	0.2
(1,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	2	0.2	0.05	0.2
(1,199)	1:14:A:GLU:HB2	1:14:A:GLU:HG2	2	0.16	0.01	0.16
(1,242)	1:11:A:TRP:HE1	1:23:A:PRO:HA	2	0.15	0.02	0.15
(2,213)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	2	0.14	0.02	0.14
(3,206)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	2	0.14	0.02	0.14
(1,110)	1:6:A:ARG:HB2	1:6:A:ARG:HD3	2	0.14	0.01	0.14
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD1	2	0.12	0.01	0.12
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD2	2	0.12	0.01	0.12
(2,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	2	0.12	0.02	0.12
(3,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	2	0.12	0.02	0.12
(1,18)	1:25:A:SER:H	1:25:A:SER:HA	2	0.12	0.0	0.12
(2,423)	1:5:A:VAL:HG11	1:9:A:ILE:H	2	0.11	0.0	0.11
(2,423)	1:5:A:VAL:HG12	1:9:A:ILE:H	2	0.11	0.0	0.11
(2,423)	1:5:A:VAL:HG13	1:9:A:ILE:H	2	0.11	0.0	0.11
(3,399)	1:5:A:VAL:HG11	1:9:A:ILE:H	2	0.11	0.0	0.11
(3,399)	1:5:A:VAL:HG12	1:9:A:ILE:H	2	0.11	0.0	0.11
(3,399)	1:5:A:VAL:HG13	1:9:A:ILE:H	2	0.11	0.0	0.11

<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)
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	2	3.09
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	2	3.09
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	2	3.09
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	2	3.09
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	2	3.09
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	2	3.09
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	2	3.09
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	2	3.09
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	2	3.09
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	2	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	2	3.09
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	2	3.09
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	2	3.09
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	2	3.09
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	2	3.09
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	2	3.09
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	2	3.09
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	2	3.09
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	3.06
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	3.06
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	3.06
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	3.06
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	3.06
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	3.06
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	3.06
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	3.06
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	3.06
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	3.06
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	3.06
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	3.06
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	3.06
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	3.06
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	3.06
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	3.06
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	3.06
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	3.06
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	7	3.03
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	7	3.03
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	7	3.03
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	7	3.03
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	7	3.03
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	7	3.03
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	7	3.03
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	7	3.03
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	7	3.03
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	7	3.03
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	7	3.03
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	7	3.03
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	7	3.03
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	7	3.03
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	7	3.03
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	7	3.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	7	3.03
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	7	3.03
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	1	3.02
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	1	3.02
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	1	3.02
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	1	3.02
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	1	3.02
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	1	3.02
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	1	3.02
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	1	3.02
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	1	3.02
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	1	3.02
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	1	3.02
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	1	3.02
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	1	3.02
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	1	3.02
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	1	3.02
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	1	3.02
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	1	3.02
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	1	3.02
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	3	2.99
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	3	2.99
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	3	2.99
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	3	2.99
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	3	2.99
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	3	2.99
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	3	2.99
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	3	2.99
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	3	2.99
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	3	2.99
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	3	2.99
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	3	2.99
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	3	2.99
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	3	2.99
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	3	2.99
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	3	2.99
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	3	2.99
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	3	2.99
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	6	2.95
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	6	2.95
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	6	2.95
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	6	2.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	6	2.95
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	6	2.95
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	6	2.95
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	6	2.95
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	6	2.95
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	6	2.95
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	6	2.95
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	6	2.95
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	6	2.95
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	6	2.95
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	6	2.95
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	6	2.95
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	6	2.95
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	6	2.95
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	5	2.84
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	5	2.84
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	5	2.84
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	5	2.84
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	5	2.84
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	5	2.84
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	5	2.84
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	5	2.84
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	5	2.84
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	5	2.84
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	5	2.84
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	5	2.84
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	5	2.84
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	5	2.84
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	5	2.84
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	5	2.84
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	5	2.84
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	5	2.84
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	4	2.82
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	4	2.82
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	4	2.82
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	4	2.82
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	4	2.82
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	4	2.82
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	4	2.82
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	4	2.82
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	4	2.82
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	4	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	4	2.82
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	4	2.82
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	4	2.82
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	4	2.82
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	4	2.82
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	4	2.82
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	4	2.82
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	4	2.82
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	9	2.81
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	9	2.81
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	9	2.81
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	9	2.81
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	9	2.81
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	9	2.81
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	9	2.81
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	9	2.81
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	9	2.81
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	9	2.81
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	9	2.81
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	9	2.81
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	9	2.81
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	9	2.81
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	9	2.81
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	9	2.81
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	9	2.81
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	9	2.81
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	3	2.7
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	3	2.7
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	3	2.7
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	3	2.7
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	3	2.7
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	3	2.7
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	8	2.69
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	8	2.69
(4,26)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	8	2.69
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	8	2.69
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	8	2.69
(4,26)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	8	2.69
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	8	2.69
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	8	2.69
(4,26)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	8	2.69
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	8	2.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	8	2.69
(2,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	8	2.69
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	8	2.69
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	8	2.69
(2,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	8	2.69
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	8	2.69
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	8	2.69
(2,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	8	2.69
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	2	2.41
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	2	2.41
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	2	2.41
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	2	2.41
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	2	2.41
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	2	2.41
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	2	2.41
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	2	2.41
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	2	2.41
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	10	2.37
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	10	2.37
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	10	2.37
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	10	2.37
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	10	2.37
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	10	2.37
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	10	2.37
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	10	2.37
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	10	2.37
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	7	2.35
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	7	2.35
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	7	2.35
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	7	2.35
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	7	2.35
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	7	2.35
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	7	2.35
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	7	2.35
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	7	2.35
(3,407)	1:15:A:GLY:HA2	1:19:A:SER:HB2	3	2.34
(2,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	3	2.34
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	1	2.34
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	1	2.34
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	1	2.34
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	1	2.34
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	1	2.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	1	2.34
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	1	2.34
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	1	2.34
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	1	2.34
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	3	2.3
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	3	2.3
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	3	2.3
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	3	2.3
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	3	2.3
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	3	2.3
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	3	2.3
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	3	2.3
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	3	2.3
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	6	2.27
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	6	2.27
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	6	2.27
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	6	2.27
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	6	2.27
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	6	2.27
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	6	2.27
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	6	2.27
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	6	2.27
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	5	2.16
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	5	2.16
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	5	2.16
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	5	2.16
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	5	2.16
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	5	2.16
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	5	2.16
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	5	2.16
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	5	2.16
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	4	2.14
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	4	2.14
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	4	2.14
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	4	2.14
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	4	2.14
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	4	2.14
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	4	2.14
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	4	2.14
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	4	2.14
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	9	2.13
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	9	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	9	2.13
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	9	2.13
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	9	2.13
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	9	2.13
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	9	2.13
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	9	2.13
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	9	2.13
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	9	2.13
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	9	2.13
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	9	2.13
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	9	2.13
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	9	2.13
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	9	2.13
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	8	2.11
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	8	2.11
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	8	2.11
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	8	2.11
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	8	2.11
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	8	2.11
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD21	8	2.01
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD22	8	2.01
(1,445)	1:9:A:ILE:HD11	1:12:A:LEU:HD23	8	2.01
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD21	8	2.01
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD22	8	2.01
(1,445)	1:9:A:ILE:HD12	1:12:A:LEU:HD23	8	2.01
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD21	8	2.01
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD22	8	2.01
(1,445)	1:9:A:ILE:HD13	1:12:A:LEU:HD23	8	2.01
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	7	2.0
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	7	2.0
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	7	2.0
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	7	2.0
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	7	2.0
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	7	2.0
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	2	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	2	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	2	1.98
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	2	1.98
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	2	1.98
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	2	1.98
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	1	1.97
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	1	1.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	1	1.97
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	1	1.97
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	1	1.97
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	1	1.97
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	3	1.95
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	3	1.95
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	3	1.95
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	5	1.92
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	5	1.92
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	5	1.92
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	5	1.92
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	5	1.92
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	5	1.92
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	4	1.89
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	4	1.89
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	4	1.89
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	4	1.89
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	4	1.89
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	4	1.89
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	1.87
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	1.87
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	1.87
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	1.87
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	1.87
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	1.87
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD11	6	1.85
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD12	6	1.85
(4,20)	1:6:A:ARG:HA	1:7:A:LEU:HD13	6	1.85
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	6	1.85
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	6	1.85
(2,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	6	1.85
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	1.76
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	1.76
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	8	1.75
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	8	1.75
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	9	1.71
(3,407)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.71
(3,407)	1:15:A:GLY:HA2	1:19:A:SER:HB2	7	1.71
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	9	1.71
(2,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.71
(2,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	7	1.71
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	4	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	6	1.69
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	4	1.69
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	6	1.69
(1,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	3	1.64
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	9	1.59
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	8	1.59
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	9	1.59
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	8	1.59
(1,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	1	1.59
(1,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	4	1.58
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	9	1.57
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	9	1.57
(1,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	3	1.53
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	3	1.52
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	3	1.52
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	7	1.5
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	7	1.5
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	1	1.49
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	10	1.49
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	1	1.49
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	10	1.49
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	5	1.46
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	5	1.46
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	8	1.45
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	3	1.45
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	3	1.45
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	1.45
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	1.45
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	1	1.45
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	8	1.45
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	1.45
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	1.45
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	1	1.45
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	3	1.45
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	3	1.45
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	1.44
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	1.44
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	1.44
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	1.44
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.43
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	4	1.43
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	4	1.43
(1,240)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	9	1.43
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	3	1.42
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	1	1.42
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	1	1.42
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	3	1.42
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	1	1.42
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	1	1.42
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	4	1.41
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	2	1.41
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	2	1.41
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	4	1.41
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	2	1.41
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	2	1.41
(1,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	8	1.41
(1,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	8	1.41
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	7	1.39
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	7	1.39
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	7	1.39
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	1.39
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	1.39
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	1.39
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	7	1.39
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	1.39
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	1.39
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	1.39
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	7	1.39
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	7	1.39
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	9	1.39
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	9	1.39
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	9	1.39
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	1.38
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	1.38
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	1.38
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	1.38
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	1.38
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	1.38
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	1.38
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	1.38
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	5	1.37
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	5	1.37
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	8	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	8	1.37
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	8	1.37
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	6	1.36
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	6	1.36
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	2	1.36
(3,364)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	1.36
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	2	1.36
(2,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	1.36
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	6	1.36
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	6	1.36
(1,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	5	1.36
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	2	1.34
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	2	1.34
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	6	1.33
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	6	1.33
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	7	1.32
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	7	1.32
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	2	1.32
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	3	1.32
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	3	1.32
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	5	1.3
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	5	1.3
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	5	1.3
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	5	1.3
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	6	1.3
(1,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	4	1.3
(1,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	4	1.3
(1,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	7	1.28
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	10	1.27
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	4	1.27
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	4	1.27
(1,40)	1:21:A:ARG:H	1:21:A:ARG:HG2	1	1.27
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	9	1.26
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	9	1.26
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	7	1.26
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	7	1.26
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	7	1.26
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	8	1.25
(3,404)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	9	1.25
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	9	1.25
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	8	1.25
(2,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	9	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	9	1.25
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	8	1.25
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD2	7	1.25
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD3	7	1.25
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	9	1.24
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	2	1.24
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	2	1.24
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	2	1.24
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	1	1.23
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	1	1.23
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	1	1.23
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	1	1.23
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	1	1.23
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	5	1.22
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	5	1.22
(1,40)	1:21:A:ARG:H	1:21:A:ARG:HG2	4	1.22
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	7	1.21
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	7	1.21
(1,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	5	1.21
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	5	1.21
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	5	1.21
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	10	1.2
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	9	1.19
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	9	1.19
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	6	1.18
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	6	1.18
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	6	1.18
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	10	1.18
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	6	1.18
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	6	1.18
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	6	1.18
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	10	1.18
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	5	1.18
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	5	1.18
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	5	1.18
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	8	1.18
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	8	1.17
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	9	1.17
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	7	1.17
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	2	1.16
(3,408)	1:11:A:TRP:HA	1:14:A:GLU:HB3	3	1.15
(2,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	3	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,407)	1:15:A:GLY:HA2	1:19:A:SER:HB2	2	1.14
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	1.14
(2,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	2	1.14
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	1.14
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	3	1.14
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	7	1.14
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	4	1.14
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	4	1.14
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	4	1.14
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	10	1.14
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	9	1.14
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	9	1.14
(4,28)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	3	1.13
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	8	1.13
(2,454)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	3	1.13
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	8	1.13
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	1	1.13
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	10	1.13
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	10	1.13
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	10	1.13
(1,250)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	6	1.13
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	5	1.13
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	5	1.13
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD11	6	1.1
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD12	6	1.1
(1,354)	1:6:A:ARG:HA	1:7:A:LEU:HD13	6	1.1
(1,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	9	1.1
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	1	1.1
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	1	1.1
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	3	1.1
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	3	1.1
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	4	1.1
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	4	1.1
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	4	1.09
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	4	1.09
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	2	1.09
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	2	1.09
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	8	1.09
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	8	1.09
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	10	1.08
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	10	1.08
(3,397)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	10	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	10	1.08
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	10	1.08
(2,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	10	1.08
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	4	1.08
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	5	1.08
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	5	1.08
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	5	1.08
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	7	1.08
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	7	1.08
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	7	1.08
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	3	1.07
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	9	1.07
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	9	1.07
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	9	1.07
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	10	1.07
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	10	1.07
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	1	1.06
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	4	1.06
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	1	1.06
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	4	1.06
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	3	1.06
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	3	1.06
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	3	1.06
(1,240)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	5	1.06
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	8	1.06
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	10	1.05
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	10	1.05
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	10	1.05
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	10	1.05
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	1	1.04
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	9	1.04
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	1	1.04
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	9	1.04
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	10	1.04
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	1	1.04
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	1	1.04
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	4	1.03
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	4	1.03
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	8	1.03
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	4	1.03
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	2	1.03
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	2	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	2	1.03
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	8	1.02
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	8	1.02
(3,344)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	2	1.02
(3,344)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	2	1.02
(3,344)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	2	1.02
(2,365)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	2	1.02
(2,365)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	2	1.02
(2,365)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	2	1.02
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	8	1.02
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	8	1.02
(1,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	7	1.02
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	5	1.02
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	1	1.02
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	1	1.02
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	1	1.02
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	6	1.02
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	6	1.02
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	6	1.02
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	8	1.02
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	8	1.02
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	8	1.02
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	3	1.02
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	3	1.02
(1,40)	1:21:A:ARG:H	1:21:A:ARG:HG2	3	1.02
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	3	1.01
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	3	1.01
(1,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	4	1.01
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	7	1.01
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	7	1.01
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	7	1.01
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	2	1.01
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	2	1.01
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	1	1.0
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	1	1.0
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	6	1.0
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	6	1.0
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	6	1.0
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	6	1.0
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	6	1.0
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	6	1.0
(1,302)	1:5:A:VAL:HG11	1:6:A:ARG:H	4	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,302)	1:5:A:VAL:HG12	1:6:A:ARG:H	4	1.0
(1,302)	1:5:A:VAL:HG13	1:6:A:ARG:H	4	1.0
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	10	0.99
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	10	0.99
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	9	0.99
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	1	0.99
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	3	0.99
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	3	0.99
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	9	0.98
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	9	0.98
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	5	0.97
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	8	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	1	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	2	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	7	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	8	0.97
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.97
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	5	0.97
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	8	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	1	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	2	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	7	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	8	0.97
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.97
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	4	0.97
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	6	0.97
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	3	0.97
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	5	0.97
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	5	0.97
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	9	0.96
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.96
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	9	0.96
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	9	0.96
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	3	0.96
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	4	0.96
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	6	0.96
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	9	0.96
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.96
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	3	0.96
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	4	0.96
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	6	0.96
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	9	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	9	0.96
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	2	0.96
(1,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	9	0.96
(1,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	9	0.96
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	9	0.96
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	9	0.96
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	3	0.95
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	8	0.95
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	8	0.95
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	6	0.94
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	8	0.94
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.94
(3,234)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	5	0.94
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	6	0.94
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	8	0.94
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.94
(2,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	5	0.94
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	7	0.94
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	7	0.94
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	4	0.93
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	4	0.93
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	9	0.93
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	6	0.92
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	9	0.92
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	9	0.92
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	9	0.92
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	9	0.92
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	2	0.92
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	9	0.92
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	9	0.92
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	9	0.92
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	9	0.92
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	9	0.92
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	2	0.92
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	6	0.92
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	9	0.92
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	8	0.92
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD2	3	0.92
(1,182)	1:13:A:LYS:HA	1:13:A:LYS:HD3	3	0.92
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	7	0.92
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	7	0.92
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	2	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	2	0.91
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	8	0.9
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	8	0.9
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	8	0.9
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	8	0.9
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	8	0.9
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	8	0.9
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	6	0.9
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	6	0.9
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	9	0.9
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	4	0.89
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	4	0.89
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	4	0.89
(4,15)	1:21:A:ARG:H	1:22:A:PRO:HD2	7	0.89
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	4	0.89
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	4	0.89
(4,10)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	5	0.89
(4,10)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	5	0.89
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.89
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.89
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	4	0.89
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	4	0.89
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	4	0.89
(2,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	7	0.89
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	4	0.89
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	4	0.89
(2,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	5	0.89
(2,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	5	0.89
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	4	0.89
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	4	0.89
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	6	0.89
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	6	0.89
(1,36)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	10	0.89
(1,36)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	10	0.89
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	4	0.88
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	6	0.88
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	8	0.88
(3,220)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	6	0.88
(3,220)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	6	0.88
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	4	0.88
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	6	0.88
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	8	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,228)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	6	0.88
(2,228)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	6	0.88
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	1	0.88
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	1	0.88
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	1	0.88
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	1	0.88
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	1	0.88
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	1	0.88
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	9	0.88
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	9	0.88
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	9	0.88
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	9	0.88
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	9	0.88
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	9	0.88
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	10	0.88
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	6	0.88
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	1	0.88
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	1	0.88
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	2	0.88
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	2	0.88
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	2	0.88
(1,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.88
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	7	0.88
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	7	0.88
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	2	0.87
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	5	0.87
(3,416)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.87
(3,416)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.87
(3,416)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.87
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	5	0.87
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	7	0.87
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.87
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	2	0.87
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	5	0.87
(2,441)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.87
(2,441)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.87
(2,441)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.87
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	5	0.87
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	7	0.87
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.87
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.87
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.87
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.87
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.87
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.87
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	9	0.87
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	10	0.87
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	10	0.87
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	2	0.87
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	2	0.87
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	8	0.87
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	8	0.87
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	7	0.86
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	1	0.86
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	2	0.86
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	7	0.86
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	1	0.86
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	2	0.86
(1,417)	1:9:A:ILE:HG21	1:13:A:LYS:HB2	6	0.86
(1,417)	1:9:A:ILE:HG22	1:13:A:LYS:HB2	6	0.86
(1,417)	1:9:A:ILE:HG23	1:13:A:LYS:HB2	6	0.86
(1,417)	1:9:A:ILE:HG21	1:13:A:LYS:HB3	6	0.86
(1,417)	1:9:A:ILE:HG22	1:13:A:LYS:HB3	6	0.86
(1,417)	1:9:A:ILE:HG23	1:13:A:LYS:HB3	6	0.86
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	10	0.86
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	10	0.86
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	10	0.86
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	10	0.86
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	10	0.86
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	10	0.86
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	6	0.86
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.86
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	8	0.86
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	7	0.86
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	7	0.86
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	1	0.86
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	1	0.86
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	1	0.86
(3,244)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	3	0.85
(2,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	3	0.85
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	9	0.85
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	9	0.85
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	9	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	2	0.85
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	2	0.85
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	2	0.85
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	2	0.85
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	2	0.85
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	2	0.85
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	9	0.85
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	6	0.85
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	6	0.85
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	1	0.85
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	1	0.85
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	1	0.85
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	4	0.85
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	4	0.85
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	4	0.85
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	4	0.85
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	9	0.85
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	9	0.85
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	8	0.85
(4,30)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.84
(2,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.84
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	6	0.84
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	3	0.84
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	4	0.84
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	9	0.83
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	10	0.83
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	10	0.83
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	10	0.83
(1,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	1	0.83
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	2	0.83
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	2	0.83
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	8	0.83
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	8	0.83
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	10	0.83
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	10	0.83
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	7	0.83
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	7	0.83
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	3	0.83
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	3	0.83
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	4	0.83
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	4	0.83
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	1	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	2	0.83
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	6	0.83
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	7	0.83
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	6	0.83
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	8	0.82
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	8	0.82
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	8	0.82
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	8	0.82
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	8	0.82
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	8	0.82
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	7	0.82
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	2	0.82
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	2	0.82
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	2	0.82
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	2	0.82
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	2	0.82
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	2	0.82
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	4	0.82
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	4	0.82
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	4	0.82
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	4	0.82
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	4	0.82
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	4	0.82
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	1	0.82
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	1	0.82
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	9	0.82
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	9	0.82
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	1	0.82
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	2	0.82
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	5	0.82
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	9	0.82
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	2	0.82
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	1	0.81
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	8	0.81
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	1	0.81
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	8	0.81
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	3	0.81
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	10	0.81
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	10	0.81
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	5	0.81
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	1	0.81
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	8	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	10	0.81
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	4	0.81
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	8	0.81
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	6	0.8
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.8
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	6	0.8
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.8
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	6	0.8
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	2	0.8
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	3	0.8
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	7	0.8
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	5	0.8
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	4	0.8
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	4	0.8
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	4	0.8
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	9	0.8
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	9	0.8
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	9	0.8
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	2	0.8
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	10	0.8
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	3	0.8
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	5	0.8
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	5	0.79
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	5	0.79
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	5	0.79
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	8	0.79
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	8	0.79
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	8	0.79
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	9	0.79
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	9	0.79
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	9	0.79
(3,337)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	9	0.79
(3,337)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	9	0.79
(3,337)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	9	0.79
(2,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	9	0.79
(2,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	9	0.79
(2,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	9	0.79
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	5	0.79
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	5	0.79
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	5	0.79
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	8	0.79
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	8	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	8	0.79
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	9	0.79
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	9	0.79
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	9	0.79
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	5	0.79
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	5	0.79
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	5	0.79
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	5	0.79
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	5	0.79
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	5	0.79
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	6	0.79
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	6	0.79
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	8	0.79
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	5	0.79
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	6	0.79
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	4	0.79
(3,337)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	10	0.78
(3,337)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	10	0.78
(3,337)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	10	0.78
(3,220)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	8	0.78
(3,220)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	8	0.78
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	9	0.78
(2,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	10	0.78
(2,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	10	0.78
(2,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	10	0.78
(2,228)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	8	0.78
(2,228)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	8	0.78
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	9	0.78
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	1	0.78
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	3	0.78
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	3	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	1	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	1	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	1	0.78
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	1	0.78
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	1	0.78
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	1	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	7	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	7	0.78
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	7	0.78
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	7	0.78
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	7	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	7	0.78
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	3	0.78
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	3	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	2	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	2	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	4	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	4	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	8	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	8	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	10	0.78
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	10	0.78
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	4	0.78
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	9	0.78
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	2	0.78
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	8	0.78
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	3	0.78
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	6	0.77
(3,220)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	4	0.77
(3,220)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	4	0.77
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	1	0.77
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	5	0.77
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	8	0.77
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	10	0.77
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	6	0.77
(2,228)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	4	0.77
(2,228)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	4	0.77
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	1	0.77
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	5	0.77
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	8	0.77
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	10	0.77
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	2	0.77
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	1	0.77
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	0.77
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	5	0.77
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	7	0.77
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	3	0.77
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	3	0.77
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	7	0.77
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	7	0.77
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	7	0.77
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	8	0.77
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	8	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	8	0.77
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG2	1	0.77
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG3	1	0.77
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	6	0.77
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	6	0.77
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	3	0.77
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	10	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	2	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	4	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	6	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	7	0.76
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	10	0.76
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	2	0.76
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	4	0.76
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	6	0.76
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	7	0.76
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	0.76
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	0.76
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	4	0.76
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	4	0.76
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	4	0.76
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	4	0.76
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	4	0.76
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	4	0.76
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	7	0.76
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	10	0.76
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	3	0.76
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	3	0.76
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	3	0.76
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	2	0.76
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	8	0.76
(3,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	3	0.75
(2,52)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	3	0.75
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	8	0.75
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	0.75
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	8	0.75
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	7	0.75
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	7	0.75
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	5	0.75
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	5	0.75
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	5	0.75
(1,270)	1:4:A:ALA:HB1	1:5:A:VAL:H	6	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:4:A:ALA:HB2	1:5:A:VAL:H	6	0.75
(1,270)	1:4:A:ALA:HB3	1:5:A:VAL:H	6	0.75
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	8	0.75
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	9	0.75
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	0.74
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	6	0.74
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	5	0.74
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	5	0.74
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.74
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	3	0.74
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	3	0.74
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG2	9	0.74
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG3	9	0.74
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	4	0.74
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	6	0.74
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	3	0.74
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	7	0.74
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	3	0.73
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	3	0.73
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	6	0.73
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	5	0.73
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	5	0.73
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	5	0.73
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	5	0.73
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	5	0.73
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	5	0.73
(1,337)	1:3:A:GLU:HA	1:6:A:ARG:HB3	1	0.73
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	5	0.73
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	2	0.73
(1,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	4	0.73
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	3	0.73
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	3	0.73
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	3	0.73
(1,187)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	5	0.73
(1,187)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	5	0.73
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	1	0.73
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	4	0.73
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	3	0.72
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	2	0.72
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	2	0.72
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	1	0.72
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	1	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	8	0.72
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	5	0.72
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	10	0.72
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	7	0.72
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	1	0.72
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	1	0.72
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	4	0.71
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	9	0.71
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	2	0.71
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	7	0.71
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	2	0.71
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	7	0.71
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	4	0.71
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	9	0.71
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	0.71
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	0.71
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	0.71
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	6	0.71
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	6	0.71
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	6	0.71
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	6	0.71
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	6	0.71
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	6	0.71
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	4	0.71
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	9	0.71
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	9	0.71
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	5	0.71
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	5	0.71
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	5	0.71
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	10	0.71
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	10	0.71
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	1	0.71
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	6	0.71
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	10	0.71
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	5	0.7
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	8	0.7
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	5	0.7
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	5	0.7
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	5	0.7
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	4	0.7
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	2	0.7
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	4	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	5	0.7
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	8	0.7
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	2	0.7
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	5	0.7
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	5	0.7
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	5	0.7
(1,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	7	0.7
(1,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	7	0.7
(1,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	7	0.7
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	9	0.7
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	9	0.7
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	9	0.7
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	9	0.7
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	9	0.7
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	9	0.7
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	9	0.7
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	1	0.7
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	1	0.7
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	2	0.7
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	2	0.7
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	6	0.7
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	6	0.7
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	1	0.7
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	1	0.7
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	4	0.7
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	4	0.7
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	4	0.7
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	6	0.7
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	6	0.7
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	5	0.7
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	5	0.7
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	3	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	4	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	4	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	4	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.69
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.69
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	4	0.69
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	1	0.69
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	3	0.69
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	4	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	3	0.69
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	1	0.69
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	3	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	4	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	4	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	4	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.69
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.69
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	0.69
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	2	0.69
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	2	0.69
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	5	0.69
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	6	0.69
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	2	0.69
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	2	0.69
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	7	0.69
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	6	0.69
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	6	0.69
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	3	0.69
(1,31)	1:21:A:ARG:HA	1:21:A:ARG:HG2	9	0.69
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	1	0.68
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	2	0.68
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	6	0.68
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	7	0.68
(4,17)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	10	0.68
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	9	0.68
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	9	0.68
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	9	0.68
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	7	0.68
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.68
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	1	0.68
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	2	0.68
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	6	0.68
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	7	0.68
(2,311)	1:11:A:TRP:HZ2	1:11:A:TRP:HZ3	10	0.68
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	7	0.68
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.68
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	9	0.68
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	9	0.68
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	9	0.68
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	5	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	8	0.68
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	4	0.68
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	7	0.68
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	7	0.68
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	7	0.68
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	3	0.68
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	6	0.68
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	6	0.68
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	6	0.68
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	6	0.68
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	10	0.68
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	10	0.68
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	10	0.68
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	10	0.68
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	5	0.68
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	5	0.68
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	9	0.68
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	4	0.68
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	6	0.68
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	4	0.68
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	8	0.68
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	6	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	6	0.67
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	6	0.67
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	1	0.67
(3,237)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	1	0.67
(3,237)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.67
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	1	0.67
(2,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	1	0.67
(2,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	6	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	6	0.67
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	6	0.67
(1,386)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	0.67
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	5	0.67
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	2	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	2	0.67
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	2	0.67
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	4	0.67
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	7	0.67
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	7	0.67
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	10	0.67
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	10	0.67
(1,202)	1:14:A:GLU:H	1:14:A:GLU:HG2	5	0.67
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	2	0.67
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	7	0.67
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	7	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	1	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	1	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	7	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	7	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	10	0.67
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	10	0.67
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	1	0.67
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	10	0.67
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	2	0.67
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	5	0.67
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	7	0.67
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	10	0.67
(1,31)	1:21:A:ARG:HA	1:21:A:ARG:HG2	5	0.67
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	9	0.67
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	2	0.66
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	2	0.66
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	1	0.66
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	6	0.66
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	3	0.66
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	3	0.66
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	10	0.66
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	3	0.66
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	7	0.66
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	1	0.66
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	3	0.66
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	6	0.66
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	7	0.66
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	9	0.66
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	9	0.66
(1,32)	1:21:A:ARG:HA	1:21:A:ARG:HG3	2	0.66
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	6	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	6	0.65
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	9	0.65
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	6	0.65
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	6	0.65
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	9	0.65
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	6	0.65
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	5	0.65
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	1	0.65
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	1	0.65
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	8	0.65
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	8	0.65
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	8	0.65
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	8	0.65
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	8	0.65
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	8	0.65
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	4	0.65
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	7	0.65
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	2	0.65
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	8	0.65
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD11	5	0.65
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD12	5	0.65
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD13	5	0.65
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD11	5	0.65
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD12	5	0.65
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD13	5	0.65
(1,203)	1:14:A:GLU:H	1:14:A:GLU:HG3	4	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	1	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	1	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	1	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	1	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	2	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	2	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	2	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	2	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	5	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	5	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	5	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	5	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	8	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	8	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	8	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	9	0.65
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	9	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	9	0.65
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	9	0.65
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	7	0.65
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	7	0.65
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	1	0.65
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	2	0.65
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	2	0.65
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	9	0.65
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	9	0.65
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	2	0.65
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	7	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	7	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	7	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.64
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.64
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	1	0.64
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	4	0.64
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	8	0.64
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	1	0.64
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	4	0.64
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	8	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	7	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	7	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	7	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.64
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.64
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	3	0.64
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	3	0.64
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	3	0.64
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	2	0.64
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	2	0.64
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	1	0.64
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	9	0.64
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	1	0.64
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	3	0.64
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	6	0.64
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	6	0.64
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	6	0.64
(1,202)	1:14:A:GLU:H	1:14:A:GLU:HG2	10	0.64
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	4	0.64
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	4	0.64
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	4	0.64
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	4	0.64
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	9	0.64
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	4	0.64
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	2	0.64
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	10	0.64
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	5	0.64
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	8	0.64
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	9	0.64
(1,58)	1:23:A:PRO:HA	1:23:A:PRO:HB3	10	0.64
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	10	0.64
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	2	0.63
(3,250)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	5	0.63
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	2	0.63
(2,261)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	5	0.63
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	7	0.63
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	7	0.63
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	3	0.63
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	3	0.63
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	3	0.63
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	8	0.63
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	4	0.63
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	10	0.63
(1,275)	1:9:A:ILE:H	1:9:A:ILE:HG12	7	0.63
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	5	0.63
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	2	0.63
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	10	0.63
(1,108)	1:6:A:ARG:HA	1:6:A:ARG:HG3	10	0.63
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	8	0.63
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	1	0.62
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	1	0.62
(4,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,344)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	5	0.62
(3,344)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	5	0.62
(3,344)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	5	0.62
(2,365)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	5	0.62
(2,365)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	5	0.62
(2,365)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	5	0.62
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG21	1	0.62
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG22	1	0.62
(2,103)	1:5:A:VAL:H	1:5:A:VAL:HG23	1	0.62
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	7	0.62
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	4	0.62
(1,399)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	8	0.62
(1,399)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	8	0.62
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	10	0.62
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	10	0.62
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	10	0.62
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	10	0.62
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	10	0.62
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	4	0.62
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	2	0.62
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	5	0.62
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	7	0.62
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	10	0.62
(1,259)	1:11:A:TRP:HH2	1:17:A:PRO:HG2	7	0.62
(1,253)	1:11:A:TRP:HZ2	1:17:A:PRO:HA	5	0.62
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	10	0.62
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	10	0.62
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	10	0.62
(1,166)	1:11:A:TRP:HB3	1:12:A:LEU:H	3	0.62
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	8	0.62
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	3	0.61
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	0.61
(3,237)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.61
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	3	0.61
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	0.61
(2,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	1	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	1	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	1	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	6	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	6	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	6	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	7	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	7	0.61
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	7	0.61
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	3	0.61
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	3	0.61
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	3	0.61
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	7	0.61
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	4	0.61
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	4	0.61
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	9	0.61
(1,108)	1:6:A:ARG:HA	1:6:A:ARG:HG3	7	0.61
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	5	0.61
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	8	0.61
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	6	0.61
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	6	0.61
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	6	0.61
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	4	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	4	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	4	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	5	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	5	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	5	0.6
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	3	0.6
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	3	0.6
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	3	0.6
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	5	0.6
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	7	0.6
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	4	0.6
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	4	0.6
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	4	0.6
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	4	0.6
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	5	0.6
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	7	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	4	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	4	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	4	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	5	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	5	0.6
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	5	0.6
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	4	0.6
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	4	0.6
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	4	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	4	0.6
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	3	0.6
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	3	0.6
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	3	0.6
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	5	0.6
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	1	0.6
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	8	0.6
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	8	0.6
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	8	0.6
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	10	0.6
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD11	2	0.6
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD12	2	0.6
(1,359)	1:8:A:TYR:HB3	1:9:A:ILE:HD13	2	0.6
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	6	0.6
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	9	0.6
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	9	0.6
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	4	0.6
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	2	0.6
(1,264)	1:11:A:TRP:HE3	1:12:A:LEU:HG	2	0.6
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	8	0.6
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	1	0.6
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	1	0.6
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	9	0.6
(1,116)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	4	0.6
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	9	0.6
(1,108)	1:6:A:ARG:HA	1:6:A:ARG:HG3	6	0.6
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	8	0.6
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	8	0.59
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	8	0.59
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	8	0.59
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	2	0.59
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	1	0.59
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	2	0.59
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	4	0.59
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	6	0.59
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	8	0.59
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	8	0.59
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	8	0.59
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	2	0.59
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	1	0.59
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	2	0.59
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	6	0.59
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	5	0.59
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	5	0.59
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	5	0.59
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	9	0.59
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	5	0.59
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD11	9	0.59
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD12	9	0.59
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD13	9	0.59
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD11	9	0.59
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD12	9	0.59
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD13	9	0.59
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	6	0.59
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	10	0.59
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	9	0.58
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	9	0.58
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	9	0.58
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	10	0.58
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	3	0.58
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	10	0.58
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	9	0.58
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	9	0.58
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	9	0.58
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	3	0.58
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	2	0.58
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	2	0.58
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	2	0.58
(1,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	9	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	1	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	1	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	1	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	1	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	2	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	2	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	2	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	2	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	4	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	4	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	4	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	4	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	5	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	5	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	5	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	7	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	7	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	7	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	7	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	10	0.58
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	10	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	10	0.58
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	10	0.58
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	5	0.58
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	3	0.58
(1,298)	1:9:A:ILE:HB	1:10:A:GLN:H	10	0.58
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	7	0.58
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	7	0.58
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	7	0.58
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	7	0.58
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	7	0.58
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	6	0.58
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	6	0.58
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD1	7	0.58
(1,220)	1:8:A:TYR:HA	1:8:A:TYR:HD2	7	0.58
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	1	0.58
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	1	0.58
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB2	8	0.58
(1,83)	1:25:A:SER:HA	1:25:A:SER:HB3	8	0.58
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	8	0.58
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	6	0.58
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	7	0.58
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	2	0.58
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	6	0.57
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	6	0.57
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	6	0.57
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	6	0.57
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	8	0.57
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	6	0.57
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	6	0.57
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	6	0.57
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	6	0.57
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	8	0.57
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	10	0.57
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	10	0.57
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	10	0.57
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	6	0.57
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	6	0.57
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	6	0.57
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	6	0.57
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	3	0.57
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	3	0.57
(1,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	5	0.57
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	10	0.57
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	6	0.57
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	3	0.57
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	8	0.57
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	8	0.57
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	2	0.57
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	2	0.57
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	10	0.57
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	10	0.57
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	6	0.57
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	4	0.57
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	4	0.57
(1,71)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	8	0.57
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	10	0.57
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	6	0.57
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	4	0.57
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	5	0.57
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	8	0.57
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	4	0.56
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	4	0.56
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	4	0.56
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	9	0.56
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	9	0.56
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	9	0.56
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	1	0.56
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	6	0.56
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	6	0.56
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	8	0.56
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	8	0.56
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	9	0.56
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	2	0.56
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	6	0.56
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	7	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.56
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	1	0.56
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	9	0.56
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	2	0.56
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	2	0.56
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	5	0.56
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	5	0.56
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	8	0.56
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	7	0.56
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	7	0.56
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	7	0.56
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	10	0.56
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	7	0.55
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	7	0.55
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	7	0.55
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	5	0.55
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	7	0.55
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	5	0.55
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	7	0.55
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	7	0.55
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	7	0.55
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	7	0.55
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	8	0.55
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	9	0.55
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	3	0.55
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	6	0.55
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	6	0.55
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	6	0.55
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	5	0.55
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	7	0.55
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	1	0.55
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	1	0.55
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	1	0.55
(1,263)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	1	0.55
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	1	0.55
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	1	0.55
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	4	0.55
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	2	0.55
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	3	0.55
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	8	0.55
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	3	0.55
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	3	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	8	0.55
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	1	0.55
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	3	0.54
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	3	0.54
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	3	0.54
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	3	0.54
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	8	0.54
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	9	0.54
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	3	0.54
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	3	0.54
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	3	0.54
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	3	0.54
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	8	0.54
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	9	0.54
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	7	0.54
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	3	0.54
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	3	0.54
(1,363)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	3	0.54
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	3	0.54
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	3	0.54
(1,363)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	3	0.54
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	9	0.54
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	1	0.54
(1,318)	1:15:A:GLY:H	1:16:A:GLY:H	7	0.54
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	2	0.54
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	2	0.54
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	2	0.54
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	5	0.54
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	5	0.54
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	5	0.54
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD11	8	0.54
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD12	8	0.54
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD13	8	0.54
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD11	8	0.54
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD12	8	0.54
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD13	8	0.54
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	2	0.54
(1,67)	1:22:A:PRO:HA	1:23:A:PRO:HD3	9	0.54
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	9	0.54
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	1	0.54
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	9	0.54
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	3	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	10	0.53
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	10	0.53
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	8	0.53
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	8	0.53
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	10	0.53
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	10	0.53
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	1	0.53
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	1	0.53
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	1	0.53
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	8	0.53
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	1	0.53
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	8	0.53
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	8	0.53
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	8	0.53
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	4	0.53
(1,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	9	0.53
(1,109)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	10	0.53
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	5	0.53
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	2	0.53
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	3	0.53
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	4	0.53
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	7	0.53
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	1	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	1	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	1	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	2	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	2	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	2	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.52
(4,22)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.52
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	5	0.52
(3,320)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	1	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	1	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	1	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	2	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	2	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	2	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.52
(2,376)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	5	0.52
(2,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	0.52
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	3	0.52
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	2	0.52
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	5	0.52
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	5	0.52
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	5	0.52
(1,339)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	9	0.52
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	10	0.52
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	10	0.52
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	10	0.52
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	9	0.52
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	9	0.52
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	7	0.52
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	1	0.52
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	2	0.52
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	2	0.52
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	6	0.52
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	1	0.52
(1,13)	1:20:A:GLY:H	1:20:A:GLY:HA2	7	0.52
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	3	0.51
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	3	0.51
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	5	0.51
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	5	0.51
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	5	0.51
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	5	0.51
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	5	0.51
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	5	0.51
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	5	0.51
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	3	0.51
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	3	0.51
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	5	0.51
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	7	0.51
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	6	0.51
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	10	0.51
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	6	0.51
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	1	0.51
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	1	0.51
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	1	0.51
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	1	0.51
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	1	0.51
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	1	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	1	0.51
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	6	0.51
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	5	0.51
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	8	0.51
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	6	0.51
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	6	0.51
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	6	0.51
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	6	0.51
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	6	0.51
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	6	0.51
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD11	4	0.51
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD12	4	0.51
(1,236)	1:8:A:TYR:HE1	1:12:A:LEU:HD13	4	0.51
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD11	4	0.51
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD12	4	0.51
(1,236)	1:8:A:TYR:HE2	1:12:A:LEU:HD13	4	0.51
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	2	0.51
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	2	0.51
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	2	0.51
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	1	0.51
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	4	0.51
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	4	0.51
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	9	0.51
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	5	0.51
(1,27)	1:17:A:PRO:HA	1:17:A:PRO:HB3	5	0.51
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	9	0.51
(1,14)	1:20:A:GLY:H	1:20:A:GLY:HA3	10	0.51
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	2	0.5
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	2	0.5
(3,416)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	5	0.5
(3,416)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	5	0.5
(3,416)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	5	0.5
(3,229)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	3	0.5
(3,229)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	4	0.5
(2,441)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	5	0.5
(2,441)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	5	0.5
(2,441)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	5	0.5
(2,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	3	0.5
(2,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	4	0.5
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	2	0.5
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	2	0.5
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	9	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	9	0.5
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	8	0.5
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	8	0.5
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	8	0.5
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	8	0.5
(1,399)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	4	0.5
(1,399)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	4	0.5
(1,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	10	0.5
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	6	0.5
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	1	0.5
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	3	0.5
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	5	0.5
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	3	0.5
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	9	0.5
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	10	0.5
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	3	0.5
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	1	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	1	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	1	0.5
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	3	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	3	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	3	0.5
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	6	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	6	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	6	0.5
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	7	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	7	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	7	0.5
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	10	0.5
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	10	0.5
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	10	0.5
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	4	0.5
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	7	0.5
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	3	0.5
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	4	0.5
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	1	0.5
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	3	0.5
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	7	0.5
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.49
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.49
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.49
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,197)	1:14:A:GLU:H	1:14:A:GLU:HB3	10	0.49
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	4	0.49
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.49
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.49
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.49
(2,204)	1:14:A:GLU:H	1:14:A:GLU:HB3	10	0.49
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	7	0.49
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	3	0.49
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	3	0.49
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	3	0.49
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	3	0.49
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG2	9	0.49
(1,408)	1:1:A:GLU:HB2	1:1:A:GLU:HG3	9	0.49
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	9	0.49
(1,408)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	9	0.49
(1,379)	1:8:A:TYR:HD1	1:11:A:TRP:HE3	2	0.49
(1,379)	1:8:A:TYR:HD2	1:11:A:TRP:HE3	2	0.49
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	4	0.49
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	4	0.49
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	4	0.49
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	4	0.49
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	4	0.49
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	4	0.49
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	4	0.49
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	4	0.49
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	4	0.49
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	8	0.49
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	9	0.49
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	10	0.49
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	6	0.49
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	7	0.49
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	10	0.49
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD11	3	0.49
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD12	3	0.49
(1,286)	1:9:A:ILE:H	1:9:A:ILE:HD13	3	0.49
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	3	0.49
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	3	0.49
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	4	0.49
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	4	0.49
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	4	0.49
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	5	0.49
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	5	0.49
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	8	0.49
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	8	0.49
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	8	0.49
(1,177)	1:12:A:LEU:HD11	1:12:A:LEU:HG	9	0.49
(1,177)	1:12:A:LEU:HD12	1:12:A:LEU:HG	9	0.49
(1,177)	1:12:A:LEU:HD13	1:12:A:LEU:HG	9	0.49
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	5	0.49
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	8	0.49
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	9	0.49
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	7	0.49
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	7	0.49
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	7	0.49
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	5	0.49
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	1	0.49
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	3	0.49
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	6	0.49
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	9	0.49
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	1	0.49
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	2	0.48
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	2	0.48
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	2	0.48
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	3	0.48
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	3	0.48
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	9	0.48
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	9	0.48
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	9	0.48
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	7	0.48
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	10	0.48
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	2	0.48
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	2	0.48
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	2	0.48
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	7	0.48
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	10	0.48
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	3	0.48
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	3	0.48
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	9	0.48
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	9	0.48
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	9	0.48
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	3	0.48
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	1	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	2	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	3	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	4	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	5	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	6	0.48
(1,344)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	7	0.48
(1,330)	1:11:A:TRP:HA	1:11:A:TRP:HB2	2	0.48
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	7	0.48
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	2	0.48
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	1	0.48
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	2	0.48
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	7	0.48
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	4	0.48
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	7	0.48
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	8	0.48
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	8	0.48
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	9	0.48
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	1	0.48
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	4	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	1	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	2	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	3	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	4	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	5	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	6	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	7	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	8	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	9	0.48
(1,22)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	10	0.48
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	3	0.47
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	3	0.47
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	3	0.47
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	6	0.47
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	6	0.47
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	6	0.47
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	2	0.47
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	2	0.47
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	8	0.47
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	8	0.47
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	8	0.47
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	8	0.47
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	6	0.47
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	3	0.47
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	3	0.47
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	3	0.47
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	6	0.47
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	6	0.47
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	6	0.47
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	6	0.47
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	2	0.47
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	2	0.47
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	8	0.47
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	8	0.47
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	8	0.47
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	8	0.47
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	8	0.47
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	6	0.47
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	6	0.47
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	6	0.47
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	4	0.47
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	4	0.47
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	7	0.47
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	10	0.47
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.47
(1,248)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	5	0.47
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	6	0.47
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	6	0.47
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	6	0.47
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	6	0.47
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	6	0.47
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	6	0.47
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	7	0.47
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	5	0.47
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	6	0.47
(1,57)	1:23:A:PRO:HB2	1:23:A:PRO:HD2	4	0.47
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	10	0.47
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	8	0.47
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	8	0.47
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	1	0.46
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	1	0.46
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	1	0.46
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	1	0.46
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	9	0.46
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	2	0.46
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	1	0.46
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	2	0.46
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	1	0.46
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	1	0.46
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	1	0.46
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	9	0.46
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	9	0.46
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	4	0.46
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	7	0.46
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	9	0.46
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	9	0.46
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	8	0.46
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	8	0.46
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	9	0.46
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	9	0.46
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	9	0.46
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	9	0.46
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	9	0.46
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	9	0.46
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	7	0.46
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	7	0.46
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	7	0.46
(1,360)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	7	0.46
(1,360)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	7	0.46
(1,360)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	7	0.46
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	3	0.46
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	9	0.46
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	10	0.46
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	4	0.46
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	3	0.46
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	4	0.46
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	4	0.46
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	4	0.46
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	10	0.46
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	6	0.46
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	6	0.46
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	6	0.46
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	9	0.46
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	9	0.46
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	8	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	6	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	1	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	2	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	3	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	4	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	7	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	8	0.46
(1,59)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	10	0.46
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	8	0.46
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	1	0.45
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	1	0.45
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	5	0.45
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	1	0.45
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	5	0.45
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	1	0.45
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	1	0.45
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	1	0.45
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	7	0.45
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	7	0.45
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	2	0.45
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	3	0.45
(1,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	0.45
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	7	0.45
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	9	0.45
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	7	0.45
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	7	0.45
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	7	0.45
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	7	0.45
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	8	0.45
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	8	0.45
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	3	0.45
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	5	0.45
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	7	0.45
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	10	0.45
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	2	0.45
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	1	0.45
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	4	0.44
(4,16)	1:9:A:ILE:HD11	1:10:A:GLN:H	7	0.44
(4,16)	1:9:A:ILE:HD12	1:10:A:GLN:H	7	0.44
(4,16)	1:9:A:ILE:HD13	1:10:A:GLN:H	7	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	6	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	6	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	7	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	7	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.44
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.44
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	7	0.44
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	4	0.44
(2,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	7	0.44
(2,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	7	0.44
(2,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	7	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	6	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	6	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	7	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	7	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.44
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.44
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	7	0.44
(1,432)	1:15:A:GLY:HA2	1:19:A:SER:HB2	2	0.44
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	1	0.44
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	1	0.44
(1,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	8	0.44
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	6	0.44
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	10	0.44
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	10	0.44
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	10	0.44
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	10	0.44
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	10	0.44
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	10	0.44
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	10	0.44
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	1	0.44
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	1	0.44
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	3	0.44
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	5	0.44
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	3	0.44
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	3	0.44
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	5	0.44
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	5	0.44
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	9	0.44
(1,122)	1:7:A:LEU:HA	1:7:A:LEU:HG	3	0.44
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	9	0.44
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	8	0.44
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	2	0.44
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	2	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	1	0.44
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	6	0.44
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	3	0.44
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	6	0.44
(1,42)	1:21:A:ARG:H	1:21:A:ARG:HB2	10	0.44
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	7	0.44
(3,404)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	10	0.43
(3,371)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	6	0.43
(2,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	10	0.43
(2,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	6	0.43
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	9	0.43
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	8	0.43
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	8	0.43
(1,433)	1:11:A:TRP:HA	1:14:A:GLU:HB3	3	0.43
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	10	0.43
(1,374)	1:12:A:LEU:HA	1:16:A:GLY:H	3	0.43
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	5	0.43
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	5	0.43
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	5	0.43
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	1	0.43
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	2	0.43
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	6	0.43
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	1	0.43
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	7	0.43
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	2	0.43
(1,324)	1:7:A:LEU:H	1:8:A:TYR:H	3	0.43
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	8	0.43
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	8	0.43
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	8	0.43
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	6	0.43
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	2	0.43
(1,246)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	2	0.43
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	2	0.43
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	2	0.43
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	2	0.43
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	2	0.43
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	2	0.43
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	2	0.43
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	7	0.43
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	7	0.43
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	7	0.43
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	7	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	7	0.43
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	7	0.43
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	2	0.43
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	7	0.43
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	7	0.43
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	1	0.43
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	1	0.43
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	3	0.43
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	3	0.43
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	9	0.43
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	2	0.43
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	2	0.43
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	3	0.43
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	4	0.43
(1,48)	1:22:A:PRO:HB2	1:22:A:PRO:HD2	7	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	2	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	2	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	3	0.43
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	3	0.43
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	5	0.43
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	2	0.43
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	3	0.43
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	6	0.43
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.42
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	6	0.42
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.42
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	6	0.42
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	7	0.42
(1,396)	1:11:A:TRP:HZ3	1:12:A:LEU:HG	8	0.42
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	9	0.42
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	9	0.42
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	10	0.42
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	10	0.42
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	10	0.42
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	3	0.42
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	4	0.42
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	7	0.42
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	8	0.42
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	10	0.42
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	3	0.42
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	2	0.42
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:14:A:GLU:H	1:15:A:GLY:H	5	0.42
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	1	0.42
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	7	0.42
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	7	0.42
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	7	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	1	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	1	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	1	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	10	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	10	0.42
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	10	0.42
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	6	0.42
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	6	0.42
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	6	0.42
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	4	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	1	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	1	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	1	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	2	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	2	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	2	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	6	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	6	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	6	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	0.42
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	0.42
(1,80)	1:23:A:PRO:HA	1:24:A:PRO:HD3	10	0.42
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	7	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	1	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	2	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	3	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	4	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	5	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	6	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	7	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	8	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	9	0.42
(1,54)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	10	0.42
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	4	0.42
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	4	0.42
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	7	0.42
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	10	0.42
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	4	0.41
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	4	0.41
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	2	0.41
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	6	0.41
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	6	0.41
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	6	0.41
(3,229)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	1	0.41
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	2	0.41
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	6	0.41
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	6	0.41
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	6	0.41
(2,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	1	0.41
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	4	0.41
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	4	0.41
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	3	0.41
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	3	0.41
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	4	0.41
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	4	0.41
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	4	0.41
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	1	0.41
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	2	0.41
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	5	0.41
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	6	0.41
(1,347)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	9	0.41
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	2	0.41
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	4	0.41
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	2	0.41
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	9	0.41
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	9	0.41
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	9	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	1	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	2	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	3	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	4	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	5	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	6	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	7	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	8	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	9	0.41
(1,192)	1:13:A:LYS:HG2	1:13:A:LYS:HG3	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	5	0.41
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	5	0.41
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	5	0.41
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	5	0.41
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	3	0.41
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	3	0.41
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	3	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	8	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	8	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	8	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	9	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	9	0.41
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	9	0.41
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB2	3	0.41
(1,121)	1:3:A:GLU:H	1:3:A:GLU:HB3	3	0.41
(1,115)	1:6:A:ARG:HD3	1:6:A:ARG:HG3	5	0.41
(1,114)	1:6:A:ARG:HD2	1:6:A:ARG:HG2	5	0.41
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	9	0.41
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	9	0.41
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	5	0.41
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	8	0.41
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	2	0.41
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	2	0.41
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	1	0.4
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	1	0.4
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	1	0.4
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	2	0.4
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	2	0.4
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	2	0.4
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	6	0.4
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	6	0.4
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	5	0.4
(4,8)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	5	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	4	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	4	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	4	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	7	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	7	0.4
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	7	0.4
(3,355)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	9	0.4
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	10	0.4
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	10	0.4
(2,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	9	0.4
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	10	0.4
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	10	0.4
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	10	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	1	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	1	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	1	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	2	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	2	0.4
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	2	0.4
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	6	0.4
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	6	0.4
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	5	0.4
(2,225)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	5	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	4	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	4	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	4	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	7	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	7	0.4
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	7	0.4
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	8	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	1	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	2	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	3	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	4	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	5	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	6	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	7	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	8	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	9	0.4
(1,444)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	10	0.4
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	2	0.4
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	4	0.4
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	5	0.4
(1,338)	1:9:A:ILE:HA	1:12:A:LEU:HB2	2	0.4
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	2	0.4
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	9	0.4
(1,253)	1:11:A:TRP:HZ2	1:17:A:PRO:HA	6	0.4
(1,253)	1:11:A:TRP:HZ2	1:17:A:PRO:HA	7	0.4
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD11	5	0.4
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD12	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD13	5	0.4
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD11	5	0.4
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD12	5	0.4
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD13	5	0.4
(1,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	5	0.4
(1,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	5	0.4
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	2	0.4
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	8	0.4
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	6	0.4
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	6	0.4
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	6	0.4
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	6	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	7	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	7	0.4
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	7	0.4
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	6	0.4
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	6	0.4
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	8	0.4
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	6	0.4
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	8	0.4
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	7	0.4
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	6	0.4
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	6	0.4
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	9	0.4
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	9	0.4
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	9	0.4
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	8	0.4
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	10	0.4
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	4	0.39
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	4	0.39
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	5	0.39
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	5	0.39
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	5	0.39
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	2	0.39
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	4	0.39
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	4	0.39
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	5	0.39
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	5	0.39
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	5	0.39
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	2	0.39
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	7	0.39
(1,443)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,443)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	2	0.39
(1,443)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	2	0.39
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	1	0.39
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	1	0.39
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	5	0.39
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	9	0.39
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	6	0.39
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	9	0.39
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	1	0.39
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	1	0.39
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	2	0.39
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	4	0.39
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	5	0.39
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	7	0.39
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	7	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	1	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	2	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	3	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	4	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	5	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	6	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	7	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	8	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	9	0.39
(1,206)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	10	0.39
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	8	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	1	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	2	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	3	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	4	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	5	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	7	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	9	0.39
(1,151)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	10	0.39
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	5	0.39
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	5	0.39
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	5	0.39
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	9	0.39
(1,69)	1:24:A:PRO:HA	1:24:A:PRO:HB3	1	0.39
(1,30)	1:21:A:ARG:HA	1:21:A:ARG:HB3	9	0.39
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	3	0.39
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	4	0.38
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	4	0.38
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	3	0.38
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	3	0.38
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	6	0.38
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	6	0.38
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	6	0.38
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	4	0.38
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	4	0.38
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	4	0.38
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	3	0.38
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	3	0.38
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	6	0.38
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	6	0.38
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	6	0.38
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	2	0.38
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	2	0.38
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.38
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.38
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	6	0.38
(1,350)	1:24:A:PRO:HB2	1:24:A:PRO:HG2	8	0.38
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	8	0.38
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	10	0.38
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	10	0.38
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	10	0.38
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	1	0.38
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	9	0.38
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	7	0.38
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	6	0.38
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	8	0.38
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	2	0.38
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	5	0.38
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	5	0.38
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	5	0.38
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	5	0.38
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	5	0.38
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	2	0.38
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	2	0.38
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	3	0.38
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	3	0.38
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	3	0.38
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	3	0.38
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	5	0.38
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	5	0.38
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	3	0.38
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	10	0.38
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	9	0.38
(1,10)	1:16:A:GLY:H	1:16:A:GLY:HA3	8	0.38
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	6	0.38
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	7	0.38
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	8	0.38
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	2	0.37
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	6	0.37
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	10	0.37
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	10	0.37
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	10	0.37
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	10	0.37
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	10	0.37
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	7	0.37
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	7	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	4	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	4	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	4	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	5	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	5	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	5	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	8	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	8	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	8	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	9	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	9	0.37
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	9	0.37
(3,384)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	9	0.37
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	2	0.37
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	6	0.37
(2,407)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	9	0.37
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	10	0.37
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	10	0.37
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	10	0.37
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	10	0.37
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	10	0.37
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	7	0.37
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	4	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	4	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	4	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	5	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	5	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	5	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	8	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	8	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	8	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	9	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	9	0.37
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	9	0.37
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	8	0.37
(1,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	7	0.37
(1,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	7	0.37
(1,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	7	0.37
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD11	10	0.37
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD12	10	0.37
(1,421)	1:6:A:ARG:HD2	1:7:A:LEU:HD13	10	0.37
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	5	0.37
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	5	0.37
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	8	0.37
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	8	0.37
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	5	0.37
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	5	0.37
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	5	0.37
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	5	0.37
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	5	0.37
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	5	0.37
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	1	0.37
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	5	0.37
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	10	0.37
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	10	0.37
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	10	0.37
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	10	0.37
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	10	0.37
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	10	0.37
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	2	0.37
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	5	0.37
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	5	0.37
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	5	0.37
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	4	0.37
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	4	0.37
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	9	0.37
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	9	0.37
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	9	0.37
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	1	0.37
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	1	0.37
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	1	0.37
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	2	0.37
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	2	0.37
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	2	0.37
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	3	0.37
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	3	0.37
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	3	0.37
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	6	0.37
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	6	0.37
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	6	0.37
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	4	0.37
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	4	0.37
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	4	0.37
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	5	0.37
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	5	0.37
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	5	0.37
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	4	0.37
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	5	0.37
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	8	0.37
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	9	0.37
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG2	6	0.37
(1,85)	1:2:A:GLU:HA	1:2:A:GLU:HG3	6	0.37
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	1	0.37
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	7	0.37
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	8	0.37
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	8	0.37
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	10	0.37
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	10	0.37
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	1	0.37
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	2	0.37
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	9	0.37
(4,29)	1:7:A:LEU:HG	1:10:A:GLN:H	10	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	4	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	4	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	4	0.36
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	4	0.36
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	4	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	4	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	4	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	4	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	9	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	9	0.36
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	9	0.36
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	9	0.36
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	9	0.36
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	9	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	9	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	9	0.36
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	9	0.36
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	1	0.36
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	4	0.36
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	5	0.36
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	8	0.36
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	9	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	3	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	3	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	3	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	6	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	6	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	6	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.36
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.36
(2,455)	1:7:A:LEU:HG	1:10:A:GLN:H	10	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	4	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	4	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	4	0.36
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	4	0.36
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	4	0.36
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	4	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	4	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	4	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	4	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	9	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	9	0.36
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	9	0.36
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	9	0.36
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	9	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	9	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	9	0.36
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	9	0.36
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	1	0.36
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	4	0.36
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	5	0.36
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	8	0.36
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	9	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	3	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	3	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	3	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	6	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	6	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	6	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.36
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.36
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	1	0.36
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	4	0.36
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	10	0.36
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	10	0.36
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	5	0.36
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	3	0.36
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	7	0.36
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	6	0.36
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	6	0.36
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	4	0.36
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	9	0.36
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	7	0.36
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	7	0.36
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	1	0.36
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	3	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	1	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	1	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	3	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	3	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	4	0.36
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	4	0.36
(1,205)	1:14:A:GLU:H	1:14:A:GLU:HB2	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	4	0.36
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	6	0.36
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	10	0.36
(1,186)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	6	0.36
(1,186)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	6	0.36
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	10	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	4	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	4	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	7	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	7	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	8	0.36
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	8	0.36
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	5	0.36
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	7	0.36
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	7	0.36
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	7	0.36
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	9	0.36
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	9	0.36
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	9	0.36
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	10	0.36
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	10	0.36
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	10	0.36
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	7	0.36
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	2	0.36
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	7	0.36
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	7	0.36
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	10	0.36
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	10	0.36
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	1	0.36
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	4	0.36
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	5	0.36
(1,3)	1:3:A:GLU:H	1:3:A:GLU:HA	10	0.36
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	2	0.35
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	7	0.35
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	10	0.35
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	6	0.35
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	6	0.35
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	6	0.35
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	1	0.35
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	1	0.35
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	1	0.35
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	1	0.35
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	2	0.35
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	2	0.35
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	2	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	1	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	1	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	1	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	2	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	2	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	2	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	7	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	7	0.35
(4,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	7	0.35
(3,327)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.35
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.35
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	8	0.35
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	2	0.35
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	7	0.35
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	10	0.35
(2,346)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.35
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.35
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	6	0.35
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	6	0.35
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	6	0.35
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	1	0.35
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	1	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	1	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	1	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	1	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	2	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	2	0.35
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	2	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	1	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	1	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	1	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	2	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	2	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	2	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG11	7	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG12	7	0.35
(2,98)	1:5:A:VAL:HA	1:5:A:VAL:HG13	7	0.35
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,396)	1:11:A:TRP:HZ3	1:12:A:LEU:HG	9	0.35
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	9	0.35
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	2	0.35
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	5	0.35
(1,260)	1:8:A:TYR:HA	1:11:A:TRP:HE3	5	0.35
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	5	0.35
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	8	0.35
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	8	0.35
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	1	0.35
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	3	0.35
(1,194)	1:14:A:GLU:HA	1:14:A:GLU:HG2	8	0.35
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	9	0.35
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD21	8	0.35
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD22	8	0.35
(1,171)	1:12:A:LEU:HA	1:12:A:LEU:HD23	8	0.35
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	2	0.35
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	6	0.35
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	4	0.35
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	4	0.35
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	4	0.35
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	5	0.35
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	5	0.35
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	5	0.35
(1,150)	1:9:A:ILE:HD11	1:9:A:ILE:HG12	8	0.35
(1,150)	1:9:A:ILE:HD12	1:9:A:ILE:HG12	8	0.35
(1,150)	1:9:A:ILE:HD13	1:9:A:ILE:HG12	8	0.35
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	2	0.35
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	2	0.35
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	2	0.35
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	3	0.35
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	6	0.35
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	2	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	2	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	2	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	7	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	7	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	10	0.35
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	10	0.35
(1,10)	1:16:A:GLY:H	1:16:A:GLY:HA3	9	0.35
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	4	0.35
(1,9)	1:16:A:GLY:H	1:16:A:GLY:HA2	5	0.35
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	7	0.34
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	7	0.34
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	7	0.34
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	7	0.34
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	7	0.34
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	7	0.34
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	7	0.34
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	7	0.34
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	3	0.34
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	6	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	7	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	7	0.34
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	7	0.34
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	7	0.34
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	7	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	2	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	2	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	6	0.34
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	6	0.34
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.34
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.34
(4,4)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.34
(3,327)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	7	0.34
(3,327)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	10	0.34
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.34
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.34
(3,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	10	0.34
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	7	0.34
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	7	0.34
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	7	0.34
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	7	0.34
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	7	0.34
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	7	0.34
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	7	0.34
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	7	0.34
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	7	0.34
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	3	0.34
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	6	0.34
(2,346)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	7	0.34
(2,346)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	10	0.34
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.34
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	7	0.34
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	7	0.34
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.34
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	7	0.34
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	7	0.34
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	2	0.34
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	2	0.34
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	6	0.34
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	6	0.34
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.34
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.34
(2,124)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.34
(2,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	10	0.34
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	2	0.34
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	2	0.34
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	2	0.34
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	2	0.34
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	2	0.34
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	2	0.34
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	1	0.34
(1,310)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	6	0.34
(1,310)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	6	0.34
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	1	0.34
(1,274)	1:12:A:LEU:H	1:12:A:LEU:HB2	8	0.34
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD11	8	0.34
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD12	8	0.34
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD13	8	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD11	8	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD12	8	0.34
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD13	8	0.34
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	3	0.34
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	4	0.34
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	10	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	2	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	2	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	2	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	7	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	7	0.34
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	7	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	7	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	7	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	10	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	10	0.34
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	10	0.34
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	5	0.34
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	1	0.34
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	3	0.34
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	4	0.34
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	1	0.34
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	5	0.33
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	5	0.33
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	5	0.33
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	5	0.33
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	5	0.33
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	5	0.33
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	5	0.33
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	5	0.33
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	5	0.33
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	9	0.33
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	9	0.33
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	9	0.33
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.33
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	9	0.33
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	5	0.33
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	5	0.33
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	5	0.33
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	5	0.33
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	5	0.33
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	5	0.33
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	5	0.33
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	5	0.33
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	5	0.33
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	9	0.33
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	9	0.33
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	9	0.33
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.33
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	9	0.33
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	5	0.33
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	5	0.33
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	5	0.33
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	6	0.33
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	6	0.33
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	2	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	2	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	2	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	2	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	3	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	3	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	3	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	7	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	7	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	7	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.33
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.33
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	2	0.33
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	7	0.33
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	6	0.33
(1,323)	1:8:A:TYR:H	1:9:A:ILE:H	5	0.33
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	8	0.33
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	3	0.33
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	4	0.33
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	9	0.33
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD11	4	0.33
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD12	4	0.33
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD13	4	0.33
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD11	4	0.33
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD12	4	0.33
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD13	4	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	2	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	2	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	5	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	5	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	6	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	6	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	8	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	8	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	9	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	9	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	10	0.33
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	10	0.33
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	6	0.33
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	10	0.33
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	7	0.33
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	7	0.33
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	7	0.33
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	7	0.33
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	7	0.33
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	4	0.33
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	10	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	6	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	6	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	6	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	0.33
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	1	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	1	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	1	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	4	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	4	0.33
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	4	0.33
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	1	0.33
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	2	0.33
(1,97)	1:5:A:VAL:HA	1:5:A:VAL:HB	10	0.33
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	7	0.33
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	10	0.33
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	10	0.33
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	2	0.33
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	6	0.33
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	7	0.33
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	4	0.33
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	4	0.33
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	8	0.33
(1,42)	1:21:A:ARG:H	1:21:A:ARG:HB2	9	0.33
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	1	0.33
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	1	0.33
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	8	0.33
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	1	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	1	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	1	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	1	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	1	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	1	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	1	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	1	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	8	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	8	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	8	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	8	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	8	0.32
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	8	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	8	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	8	0.32
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	8	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	5	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	5	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	5	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	8	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	8	0.32
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	8	0.32
(3,324)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	3	0.32
(3,290)	1:24:A:PRO:HB3	1:25:A:SER:H	9	0.32
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	5	0.32
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	6	0.32
(3,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	5	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	1	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	1	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	1	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	1	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	1	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	1	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	1	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	1	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	1	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	8	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	8	0.32
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	8	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	8	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	8	0.32
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	8	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	8	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	8	0.32
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	8	0.32
(2,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	3	0.32
(2,306)	1:24:A:PRO:HB3	1:25:A:SER:H	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	5	0.32
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	5	0.32
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	5	0.32
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	8	0.32
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	8	0.32
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	8	0.32
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	5	0.32
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	6	0.32
(2,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	5	0.32
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	2	0.32
(1,394)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	1	0.32
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	8	0.32
(1,332)	1:8:A:TYR:HA	1:11:A:TRP:HB2	10	0.32
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	4	0.32
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	7	0.32
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	10	0.32
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	2	0.32
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	10	0.32
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	1	0.32
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	8	0.32
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	8	0.32
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD11	2	0.32
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD12	2	0.32
(1,283)	1:7:A:LEU:H	1:7:A:LEU:HD13	2	0.32
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	7	0.32
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	3	0.32
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG2	7	0.32
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG3	7	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	1	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	1	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	3	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	3	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	4	0.32
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	4	0.32
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	6	0.32
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	6	0.32
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	9	0.32
(1,208)	1:19:A:SER:HA	1:19:A:SER:HB2	7	0.32
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	2	0.32
(1,197)	1:14:A:GLU:HA	1:14:A:GLU:HB3	9	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	1	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	1	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	1	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	2	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	2	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	2	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	2	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	3	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	3	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	3	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	3	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	4	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	4	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	4	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	4	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	7	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	7	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	7	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	7	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	8	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	8	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	8	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	8	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	9	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	9	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	9	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	9	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	10	0.32
(1,185)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	10	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	10	0.32
(1,185)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	10	0.32
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	2	0.32
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	2	0.32
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	2	0.32
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	7	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	6	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	6	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	6	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	8	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	8	0.32
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	8	0.32
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	5	0.32
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	9	0.32
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	6	0.32
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	6	0.32
(1,42)	1:21:A:ARG:H	1:21:A:ARG:HB2	8	0.32
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	9	0.32
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	9	0.32
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	6	0.31
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	6	0.31
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	6	0.31
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	6	0.31
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	6	0.31
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	6	0.31
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	6	0.31
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	6	0.31
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	6	0.31
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	5	0.31
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	8	0.31
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	5	0.31
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	5	0.31
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	1	0.31
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	1	0.31
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	7	0.31
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	6	0.31
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	6	0.31
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	6	0.31
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	6	0.31
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	6	0.31
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	6	0.31
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	6	0.31
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	6	0.31
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	6	0.31
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	5	0.31
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	8	0.31
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	1	0.31
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	7	0.31
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	5	0.31
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	5	0.31
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	1	0.31
(1,443)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	10	0.31
(1,443)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	10	0.31
(1,443)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	10	0.31
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	8	0.31
(1,412)	1:8:A:TYR:HA	1:24:A:PRO:HG2	9	0.31
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	9	0.31
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	1	0.31
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	1	0.31
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	1	0.31
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	8	0.31
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	8	0.31
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	5	0.31
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	6	0.31
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	8	0.31
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	5	0.31
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	4	0.31
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	9	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	4	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	4	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	5	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	5	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	10	0.31
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	10	0.31
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	5	0.31
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	2	0.31
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	2	0.31
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB2	6	0.31
(1,207)	1:18:A:SER:HA	1:18:A:SER:HB3	6	0.31
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	2	0.31
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	2	0.31
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	8	0.31
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	8	0.31
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	1	0.31
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	1	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	1	0.31
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	1	0.31
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	3	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	3	0.31
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	3	0.31
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	6	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	6	0.31
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	6	0.31
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	7	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	7	0.31
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	10	0.31
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	10	0.31
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	10	0.31
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	9	0.31
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	9	0.31
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	9	0.31
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	3	0.31
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	9	0.31
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	2	0.31
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	4	0.31
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	6	0.31
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	8	0.31
(1,63)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	10	0.31
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	10	0.31
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	6	0.31
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	6	0.31
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	4	0.31
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	3	0.3
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	3	0.3
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	3	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	3	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	3	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	3	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	3	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	3	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	3	0.3
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.3
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.3
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.3
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.3
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.3
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	9	0.3
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	6	0.3
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	6	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	3	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	3	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	3	0.3
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	3	0.3
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	3	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	3	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	3	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	3	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.3
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.3
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.3
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.3
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.3
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.3
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	6	0.3
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	9	0.3
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	6	0.3
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	6	0.3
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	6	0.3
(1,397)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	9	0.3
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	1	0.3
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	1	0.3
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	1	0.3
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	6	0.3
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD11	9	0.3
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD12	9	0.3
(1,233)	1:8:A:TYR:HD1	1:12:A:LEU:HD13	9	0.3
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD11	9	0.3
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD12	9	0.3
(1,233)	1:8:A:TYR:HD2	1:12:A:LEU:HD13	9	0.3
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	8	0.3
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	8	0.3
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG2	4	0.3
(1,217)	1:1:A:GLU:HA	1:1:A:GLU:HG3	4	0.3
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	7	0.3
(1,214)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	7	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	2	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	2	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	5	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	5	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	8	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	9	0.3
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	9	0.3
(1,209)	1:19:A:SER:HA	1:19:A:SER:HB3	8	0.3
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	9	0.3
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	4	0.3
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	4	0.3
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	4	0.3
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	5	0.3
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	5	0.3
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	5	0.3
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	8	0.3
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	8	0.3
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	8	0.3
(1,176)	1:12:A:LEU:HD21	1:12:A:LEU:HG	9	0.3
(1,176)	1:12:A:LEU:HD22	1:12:A:LEU:HG	9	0.3
(1,176)	1:12:A:LEU:HD23	1:12:A:LEU:HG	9	0.3
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	4	0.3
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	8	0.3
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	9	0.3
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD11	1	0.3
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD12	1	0.3
(1,145)	1:9:A:ILE:HA	1:9:A:ILE:HD13	1	0.3
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	1	0.3
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	4	0.3
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	6	0.3
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	5	0.3
(1,74)	1:24:A:PRO:HD3	1:24:A:PRO:HG3	8	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	2	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	2	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	3	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	3	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	6	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	6	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	7	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	7	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	8	0.3
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	8	0.3
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	5	0.3
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	5	0.3
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	2	0.3
(4,23)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	4	0.29
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	2	0.29
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	7	0.29
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	10	0.29
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	2	0.29
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	10	0.29
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	1	0.29
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.29
(2,388)	1:11:A:TRP:HB3	1:11:A:TRP:HZ3	4	0.29
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	1	0.29
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	2	0.29
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	7	0.29
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	10	0.29
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	1	0.29
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.29
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	2	0.29
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	10	0.29
(1,396)	1:11:A:TRP:HZ3	1:12:A:LEU:HG	4	0.29
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	2	0.29
(1,365)	1:7:A:LEU:HD11	1:24:A:PRO:HB2	2	0.29
(1,365)	1:7:A:LEU:HD12	1:24:A:PRO:HB2	2	0.29
(1,365)	1:7:A:LEU:HD13	1:24:A:PRO:HB2	2	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	1	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	2	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	3	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	4	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	5	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	7	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	8	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	9	0.29
(1,331)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	10	0.29
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	3	0.29
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	9	0.29
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	9	0.29
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	4	0.29
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	6	0.29
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	10	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	7	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	7	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	7	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	10	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	10	0.29
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	1	0.29
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	1	0.29
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	1	0.29
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	1	0.29
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	1	0.29
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	1	0.29
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD1	3	0.29
(1,232)	1:5:A:VAL:HG21	1:8:A:TYR:HD2	3	0.29
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD1	3	0.29
(1,232)	1:5:A:VAL:HG22	1:8:A:TYR:HD2	3	0.29
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD1	3	0.29
(1,232)	1:5:A:VAL:HG23	1:8:A:TYR:HD2	3	0.29
(1,226)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	10	0.29
(1,226)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	10	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	1	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	1	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	3	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	3	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	10	0.29
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	10	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	1	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	2	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	3	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	4	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	5	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	6	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	7	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	8	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	9	0.29
(1,210)	1:19:A:SER:HB2	1:19:A:SER:HB3	10	0.29
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	1	0.29
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	3	0.29
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	5	0.29
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	5	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	1	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	2	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	3	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	5	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	6	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	7	0.29
(1,163)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	10	0.29
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	3	0.29
(1,154)	1:10:A:GLN:H	1:10:A:GLN:HB2	4	0.29
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	7	0.29
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	6	0.29
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	6	0.29
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	6	0.29
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	8	0.29
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	4	0.29
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	10	0.29
(1,78)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	6	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	1	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	1	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	4	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	4	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	5	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	5	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	9	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	9	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG2	10	0.29
(1,50)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	10	0.29
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	5	0.29
(1,33)	1:21:A:ARG:HB2	1:21:A:ARG:HD3	5	0.29
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	6	0.29
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	7	0.29
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	2	0.28
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	2	0.28
(4,27)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	2	0.28
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	2	0.28
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	2	0.28
(4,27)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	2	0.28
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	2	0.28
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	2	0.28
(4,27)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	2	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	3	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	4	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	5	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	6	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	8	0.28
(4,18)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	9	0.28
(3,402)	1:2:A:GLU:HB2	1:4:A:ALA:H	9	0.28
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.28
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	3	0.28
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	3	0.28
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	2	0.28
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	2	0.28
(2,448)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	2	0.28
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	2	0.28
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	2	0.28
(2,448)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	2	0.28
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	2	0.28
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	2	0.28
(2,448)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	2	0.28
(2,427)	1:2:A:GLU:HB2	1:4:A:ALA:H	9	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	3	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	4	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	5	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	6	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	8	0.28
(2,312)	1:11:A:TRP:HE3	1:11:A:TRP:HZ3	9	0.28
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.28
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	3	0.28
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	3	0.28
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	3	0.28
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	9	0.28
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	9	0.28
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	8	0.28
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	8	0.28
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	8	0.28
(1,368)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	8	0.28
(1,368)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	8	0.28
(1,368)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	8	0.28
(1,336)	1:3:A:GLU:HA	1:6:A:ARG:HB2	8	0.28
(1,315)	1:11:A:TRP:HE3	1:12:A:LEU:H	8	0.28
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	1	0.28
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	1	0.28
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	2	0.28
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	2	0.28
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	7	0.28
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	1	0.28
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	1	0.28
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	1	0.28
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	4	0.28
(1,211)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	4	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	1	0.28
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	1	0.28
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	4	0.28
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	4	0.28
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	5	0.28
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	2	0.28
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	6	0.28
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	1	0.28
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	2	0.28
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	2	0.28
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	1	0.28
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	7	0.28
(1,10)	1:16:A:GLY:H	1:16:A:GLY:HA3	10	0.28
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	3	0.28
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	8	0.27
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	8	0.27
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	3	0.27
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	6	0.27
(4,5)	1:9:A:ILE:HA	1:9:A:ILE:HG13	7	0.27
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	7	0.27
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.27
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.27
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	2	0.27
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	9	0.27
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	9	0.27
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	9	0.27
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	9	0.27
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	9	0.27
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	9	0.27
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	2	0.27
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	2	0.27
(3,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	9	0.27
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	7	0.27
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.27
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.27
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	2	0.27
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	9	0.27
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	9	0.27
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	9	0.27
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	9	0.27
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	9	0.27
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	2	0.27
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	2	0.27
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	8	0.27
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	8	0.27
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	3	0.27
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	6	0.27
(2,143)	1:9:A:ILE:HA	1:9:A:ILE:HG13	7	0.27
(2,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	9	0.27
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	6	0.27
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	6	0.27
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	6	0.27
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	6	0.27
(1,357)	1:12:A:LEU:HD21	1:17:A:PRO:HD2	9	0.27
(1,357)	1:12:A:LEU:HD22	1:17:A:PRO:HD2	9	0.27
(1,357)	1:12:A:LEU:HD23	1:17:A:PRO:HD2	9	0.27
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	3	0.27
(1,269)	1:3:A:GLU:HB3	1:4:A:ALA:H	1	0.27
(1,200)	1:14:A:GLU:HB3	1:14:A:GLU:HG2	4	0.27
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	4	0.27
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	3	0.27
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	10	0.27
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	3	0.27
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	3	0.27
(1,133)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	3	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	2	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	2	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	2	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	10	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	10	0.27
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	10	0.27
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	2	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	3	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	3	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	5	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	5	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	6	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	6	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	7	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	7	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	8	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	8	0.27
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	10	0.27
(1,66)	1:22:A:PRO:HA	1:23:A:PRO:HD2	9	0.27
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	10	0.26
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	10	0.26
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	10	0.26
(3,395)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	4	0.26
(3,395)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	4	0.26
(3,395)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	4	0.26
(3,395)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	6	0.26
(3,395)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	6	0.26
(3,395)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	6	0.26
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.26
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.26
(3,264)	1:12:A:LEU:H	1:12:A:LEU:HB3	3	0.26
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	10	0.26
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	8	0.26
(3,227)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	8	0.26
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	8	0.26
(3,227)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	8	0.26
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	8	0.26
(3,227)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	8	0.26
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	10	0.26
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	10	0.26
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	10	0.26
(2,418)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	4	0.26
(2,418)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	4	0.26
(2,418)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	4	0.26
(2,418)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	6	0.26
(2,418)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	6	0.26
(2,418)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	6	0.26
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.26
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.26
(2,277)	1:12:A:LEU:H	1:12:A:LEU:HB3	3	0.26
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	10	0.26
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	8	0.26
(2,237)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	8	0.26
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	8	0.26
(2,237)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	8	0.26
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	8	0.26
(2,237)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	8	0.26
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	9	0.26
(1,452)	1:7:A:LEU:HA	1:10:A:GLN:HB2	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.26
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	4	0.26
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	4	0.26
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	3	0.26
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	3	0.26
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	9	0.26
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	5	0.26
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	2	0.26
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	4	0.26
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	5	0.26
(1,305)	1:13:A:LYS:HB2	1:14:A:GLU:H	10	0.26
(1,305)	1:13:A:LYS:HB3	1:14:A:GLU:H	10	0.26
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	9	0.26
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	8	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	2	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	2	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	2	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	3	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	3	0.26
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	3	0.26
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	7	0.26
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	7	0.26
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	6	0.26
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	6	0.26
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	9	0.26
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	9	0.26
(1,190)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	10	0.26
(1,190)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	10	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	1	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	1	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	1	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	4	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	4	0.26
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	4	0.26
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	7	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	1	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	1	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	1	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	2	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	2	0.26
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	2	0.26
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	1	0.26
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	4	0.26
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	4	0.26
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	4	0.26
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	3	0.26
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	3	0.26
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	1	0.26
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	1	0.26
(1,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	4	0.26
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	4	0.26
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	1	0.25
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	1	0.25
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	1	0.25
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	9	0.25
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	9	0.25
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.25
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.25
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	8	0.25
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	8	0.25
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	1	0.25
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	1	0.25
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	1	0.25
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	8	0.25
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	8	0.25
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	9	0.25
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	9	0.25
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.25
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.25
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB2	7	0.25
(1,436)	1:10:A:GLN:HA	1:13:A:LYS:HB3	7	0.25
(1,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	10	0.25
(1,335)	1:6:A:ARG:HA	1:9:A:ILE:HB	4	0.25
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	1	0.25
(1,309)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	9	0.25
(1,309)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	9	0.25
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	5	0.25
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	8	0.25
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	8	0.25
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	3	0.25
(1,189)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	3	0.25
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	3	0.25
(1,189)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	5	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	5	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	5	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	7	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	7	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	7	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	8	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	8	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	8	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	9	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	9	0.25
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	9	0.25
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	10	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	4	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	4	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	4	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	8	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	8	0.25
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	8	0.25
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB2	9	0.25
(1,91)	1:3:A:GLU:HA	1:3:A:GLU:HB3	9	0.25
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	6	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	1	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	2	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	3	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	4	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	5	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	6	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	7	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	8	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	9	0.25
(1,53)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	10	0.25
(1,42)	1:21:A:ARG:H	1:21:A:ARG:HB2	5	0.25
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	1	0.25
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	3	0.25
(1,29)	1:21:A:ARG:HA	1:21:A:ARG:HB2	4	0.25
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	5	0.25
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	6	0.24
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	7	0.24
(3,404)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	2	0.24
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	4	0.24
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	8	0.24
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	4	0.24
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	4	0.24
(2,429)	1:10:A:GLN:HE21	1:14:A:GLU:HG2	2	0.24
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	6	0.24
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	7	0.24
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	4	0.24
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	4	0.24
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	8	0.24
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	4	0.24
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	4	0.24
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	8	0.24
(1,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	4	0.24
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	4	0.24
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	4	0.24
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	5	0.24
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	5	0.24
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	10	0.24
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	10	0.24
(1,390)	1:24:A:PRO:HB2	1:25:A:SER:H	1	0.24
(1,357)	1:12:A:LEU:HD21	1:17:A:PRO:HD2	8	0.24
(1,357)	1:12:A:LEU:HD22	1:17:A:PRO:HD2	8	0.24
(1,357)	1:12:A:LEU:HD23	1:17:A:PRO:HD2	8	0.24
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	4	0.24
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	6	0.24
(1,315)	1:11:A:TRP:HE3	1:12:A:LEU:H	9	0.24
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	6	0.24
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	4	0.24
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.24
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	3	0.24
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	3	0.24
(1,280)	1:7:A:LEU:H	1:7:A:LEU:HB2	9	0.24
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	9	0.24
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	9	0.24
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	9	0.24
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	9	0.24
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	5	0.24
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	5	0.24
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	2	0.24
(1,184)	1:13:A:LYS:HA	1:13:A:LYS:HG3	8	0.24
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	4	0.24
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	8	0.24
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	9	0.24
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	2	0.24
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	1	0.24
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	10	0.24
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	3	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	3	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	3	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	3	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	5	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	5	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	5	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	6	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	6	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	6	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	10	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	10	0.24
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	10	0.24
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	6	0.24
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	6	0.24
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	1	0.24
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	1	0.24
(1,2)	1:21:A:ARG:H	1:21:A:ARG:HA	9	0.24
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	2	0.23
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	2	0.23
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	2	0.23
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	8	0.23
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	8	0.23
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	8	0.23
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	2	0.23
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	8	0.23
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	9	0.23
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	9	0.23
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	9	0.23
(3,337)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	8	0.23
(3,337)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	8	0.23
(3,337)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	8	0.23
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	5	0.23
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	5	0.23
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	4	0.23
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	5	0.23
(3,116)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,116)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	7	0.23
(3,116)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	10	0.23
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	8	0.23
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	2	0.23
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	2	0.23
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	2	0.23
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	2	0.23
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	8	0.23
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	9	0.23
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	9	0.23
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	9	0.23
(2,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	8	0.23
(2,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	8	0.23
(2,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	8	0.23
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	5	0.23
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	5	0.23
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	4	0.23
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	5	0.23
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	8	0.23
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	8	0.23
(2,119)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	6	0.23
(2,119)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	7	0.23
(2,119)	1:6:A:ARG:HB3	1:6:A:ARG:HG3	10	0.23
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	6	0.23
(1,411)	1:8:A:TYR:HA	1:24:A:PRO:HG3	5	0.23
(1,399)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	9	0.23
(1,399)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	9	0.23
(1,396)	1:11:A:TRP:HZ3	1:12:A:LEU:HG	5	0.23
(1,374)	1:12:A:LEU:HA	1:16:A:GLY:H	7	0.23
(1,362)	1:2:A:GLU:HG2	1:5:A:VAL:HG11	3	0.23
(1,362)	1:2:A:GLU:HG2	1:5:A:VAL:HG12	3	0.23
(1,362)	1:2:A:GLU:HG2	1:5:A:VAL:HG13	3	0.23
(1,362)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	3	0.23
(1,362)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	3	0.23
(1,362)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	3	0.23
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	8	0.23
(1,300)	1:6:A:ARG:H	1:6:A:ARG:HB2	3	0.23
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB2	7	0.23
(1,287)	1:13:A:LYS:H	1:13:A:LYS:HB3	7	0.23
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	1	0.23
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	2	0.23
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	8	0.23
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	0.23
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	6	0.23
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	6	0.23
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	5	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	7	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	7	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	7	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG21	9	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG22	9	0.23
(1,99)	1:5:A:VAL:HA	1:5:A:VAL:HG23	9	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	1	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	1	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	1	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	5	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	5	0.23
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	5	0.23
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	5	0.23
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	1	0.23
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	5	0.23
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	6	0.23
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	7	0.23
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	9	0.23
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	3	0.23
(1,47)	1:22:A:PRO:HA	1:22:A:PRO:HG3	3	0.23
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	6	0.23
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	3	0.22
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	2	0.22
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	2	0.22
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	2	0.22
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	5	0.22
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	5	0.22
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	1	0.22
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	3	0.22
(3,386)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	4	0.22
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	5	0.22
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	3	0.22
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	9	0.22
(3,275)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.22
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	3	0.22
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	3	0.22
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	3	0.22
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	3	0.22
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	3	0.22
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	1	0.22
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	1	0.22
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	5	0.22
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	5	0.22
(3,115)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	6	0.22
(3,115)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	7	0.22
(3,115)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	10	0.22
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	3	0.22
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	1	0.22
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	3	0.22
(2,409)	1:14:A:GLU:HB3	1:14:A:GLU:HG3	4	0.22
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	5	0.22
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	2	0.22
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	2	0.22
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	2	0.22
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	3	0.22
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	9	0.22
(2,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.22
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	3	0.22
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	3	0.22
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	3	0.22
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	3	0.22
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	3	0.22
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	3	0.22
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	5	0.22
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	5	0.22
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	1	0.22
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	1	0.22
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	5	0.22
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	5	0.22
(2,117)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	6	0.22
(2,117)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	7	0.22
(2,117)	1:6:A:ARG:HB2	1:6:A:ARG:HG2	10	0.22
(1,404)	1:8:A:TYR:HA	1:24:A:PRO:HD2	9	0.22
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	10	0.22
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	10	0.22
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	3	0.22
(1,288)	1:12:A:LEU:HB2	1:13:A:LYS:H	9	0.22
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	4	0.22
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	6	0.22
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	7	0.22
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	7	0.22
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	10	0.22
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	10	0.22
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	7	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	1	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	2	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	3	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	6	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	7	0.22
(1,173)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	10	0.22
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	7	0.22
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	8	0.22
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	10	0.22
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	3	0.22
(1,111)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	5	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	2	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	2	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	2	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	7	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	7	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	7	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	10	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	10	0.22
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	10	0.22
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.22
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	1	0.22
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	1	0.22
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	2	0.22
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	3	0.22
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	4	0.22
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	2	0.22
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	2	0.22
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	8	0.22
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	10	0.22
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	6	0.21
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	6	0.21
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	6	0.21
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	7	0.21
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	7	0.21
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD21	3	0.21
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD22	3	0.21
(4,14)	1:7:A:LEU:H	1:7:A:LEU:HD23	3	0.21
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	9	0.21
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	3	0.21
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	3	0.21
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	5	0.21
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	5	0.21
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	9	0.21
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	9	0.21
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	6	0.21
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	7	0.21
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	2	0.21
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	2	0.21
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	2	0.21
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	2	0.21
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	2	0.21
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	2	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	6	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	6	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	7	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	7	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.21
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.21
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	9	0.21
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	6	0.21
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	6	0.21
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	6	0.21
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	7	0.21
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	7	0.21
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	7	0.21
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	3	0.21
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	3	0.21
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	5	0.21
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	5	0.21
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	9	0.21
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	9	0.21
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	6	0.21
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	7	0.21
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD21	3	0.21
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD22	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,284)	1:7:A:LEU:H	1:7:A:LEU:HD23	3	0.21
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	2	0.21
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	2	0.21
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	2	0.21
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	2	0.21
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	2	0.21
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	2	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	6	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	6	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	7	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	7	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.21
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.21
(1,430)	1:8:A:TYR:HE1	1:12:A:LEU:HG	5	0.21
(1,430)	1:8:A:TYR:HE2	1:12:A:LEU:HG	5	0.21
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	1	0.21
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	1	0.21
(1,335)	1:6:A:ARG:HA	1:9:A:ILE:HB	3	0.21
(1,335)	1:6:A:ARG:HA	1:9:A:ILE:HB	8	0.21
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	4	0.21
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	8	0.21
(1,254)	1:11:A:TRP:HH2	1:17:A:PRO:HA	5	0.21
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	1	0.21
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	1	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	2	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	3	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	4	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	5	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	6	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	8	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	9	0.21
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	10	0.21
(1,113)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	6	0.21
(1,107)	1:6:A:ARG:HA	1:6:A:ARG:HG2	7	0.21
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	1	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	3	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	3	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	3	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	4	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	4	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	4	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	6	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	6	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	9	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	9	0.21
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	9	0.21
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	8	0.21
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	2	0.21
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	7	0.21
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.21
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	8	0.21
(1,62)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	10	0.21
(1,44)	1:21:A:ARG:HA	1:22:A:PRO:HD3	5	0.21
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	2	0.21
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	8	0.21
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	8	0.21
(4,3)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	2	0.2
(4,3)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	5	0.2
(3,395)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	8	0.2
(3,395)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	8	0.2
(3,395)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	8	0.2
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	6	0.2
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	6	0.2
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	8	0.2
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	8	0.2
(3,327)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	8	0.2
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	3	0.2
(2,418)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	8	0.2
(2,418)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	8	0.2
(2,418)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	8	0.2
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	6	0.2
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	6	0.2
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	8	0.2
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	8	0.2
(2,346)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	8	0.2
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	3	0.2
(2,118)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	2	0.2
(2,118)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	5	0.2
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	7	0.2
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	7	0.2
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	7	0.2
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	7	0.2
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	10	0.2
(1,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	9	0.2
(1,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	9	0.2
(1,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	9	0.2
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	3	0.2
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	3	0.2
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	4	0.2
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	6	0.2
(1,260)	1:8:A:TYR:HA	1:11:A:TRP:HE3	4	0.2
(1,260)	1:8:A:TYR:HA	1:11:A:TRP:HE3	8	0.2
(1,245)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	5	0.2
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	10	0.2
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	10	0.2
(1,215)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	1	0.2
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	6	0.2
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	1	0.2
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	1	0.2
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	1	0.2
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	6	0.2
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	10	0.2
(1,112)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	2	0.2
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	5	0.2
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	5	0.2
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	5	0.2
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB1	8	0.2
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB2	8	0.2
(1,94)	1:4:A:ALA:H	1:4:A:ALA:HB3	8	0.2
(1,87)	1:2:A:GLU:HA	1:2:A:GLU:HB3	9	0.2
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	3	0.2
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	4	0.2
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	5	0.2
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	6	0.2
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	8	0.2
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	7	0.2
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	7	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	1	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	3	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	4	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	6	0.2
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	7	0.2
(1,19)	1:15:A:GLY:H	1:15:A:GLY:HA2	9	0.2
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	4	0.19
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	5	0.19
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	9	0.19
(4,9)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	4	0.19
(4,9)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	4	0.19
(4,3)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	1	0.19
(3,422)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	6	0.19
(3,422)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	6	0.19
(3,422)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	6	0.19
(3,412)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	10	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	1	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	1	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	1	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	4	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	4	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	4	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	9	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	9	0.19
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	9	0.19
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.19
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.19
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	9	0.19
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	9	0.19
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	8	0.19
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	1	0.19
(3,188)	1:14:A:GLU:HA	1:14:A:GLU:HG3	5	0.19
(3,188)	1:14:A:GLU:HA	1:14:A:GLU:HG3	10	0.19
(2,449)	1:9:A:ILE:HG21	1:13:A:LYS:HG3	6	0.19
(2,449)	1:9:A:ILE:HG22	1:13:A:LYS:HG3	6	0.19
(2,449)	1:9:A:ILE:HG23	1:13:A:LYS:HG3	6	0.19
(2,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	10	0.19
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	5	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	1	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	1	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	1	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	4	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	4	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	4	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	9	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	9	0.19
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	9	0.19
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.19
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	9	0.19
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	9	0.19
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	4	0.19
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	5	0.19
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	9	0.19
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	8	0.19
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	1	0.19
(2,229)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	4	0.19
(2,229)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	4	0.19
(2,195)	1:14:A:GLU:HA	1:14:A:GLU:HG3	5	0.19
(2,195)	1:14:A:GLU:HA	1:14:A:GLU:HG3	10	0.19
(2,118)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	1	0.19
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	1	0.19
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	7	0.19
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	9	0.19
(1,343)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	9	0.19
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	8	0.19
(1,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	2	0.19
(1,315)	1:11:A:TRP:HE3	1:12:A:LEU:H	5	0.19
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	1	0.19
(1,308)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	1	0.19
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	6	0.19
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	2	0.19
(1,289)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.19
(1,260)	1:8:A:TYR:HA	1:11:A:TRP:HE3	9	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	1	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	1	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	6	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	6	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	8	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	8	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	9	0.19
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	9	0.19
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	9	0.19
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	9	0.19
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	7	0.19
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	10	0.19
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	10	0.19
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	10	0.19
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	2	0.19
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	10	0.19
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	8	0.19
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	6	0.19
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	6	0.19
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	6	0.19
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	10	0.19
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	5	0.19
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	9	0.19
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	10	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	2	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	2	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	5	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	5	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	6	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	6	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	7	0.19
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	7	0.19
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	1	0.19
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	7	0.19
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	9	0.19
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	2	0.19
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	5	0.19
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	9	0.19
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	8	0.18
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	4	0.18
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	4	0.18
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	4	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	1	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	1	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	1	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	3	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	3	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	3	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	4	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	4	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	4	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	5	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	5	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	5	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	6	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	6	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	7	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	7	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	7	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	8	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	8	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	8	0.18
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	10	0.18
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	10	0.18
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	10	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	1	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	2	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	3	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	6	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	7	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	8	0.18
(4,19)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	10	0.18
(3,402)	1:2:A:GLU:HB2	1:4:A:ALA:H	8	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	2	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	2	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	2	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	3	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	3	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	3	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	5	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	5	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	5	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	7	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	7	0.18
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	7	0.18
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	4	0.18
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	2	0.18
(3,282)	1:5:A:VAL:HB	1:6:A:ARG:H	10	0.18
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	8	0.18
(2,427)	1:2:A:GLU:HB2	1:4:A:ALA:H	8	0.18
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	8	0.18
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	4	0.18
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	4	0.18
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	4	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	2	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	2	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	2	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	3	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	3	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	5	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	5	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	5	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	7	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	7	0.18
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	7	0.18
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	4	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	1	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	1	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	1	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	3	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	3	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	3	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	4	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	4	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	4	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	5	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	5	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	5	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	6	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	6	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	6	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	7	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	7	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	7	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	8	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	8	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	8	0.18
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	10	0.18
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	10	0.18
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	10	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	1	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	2	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	3	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	6	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	7	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	8	0.18
(2,314)	1:11:A:TRP:HH2	1:11:A:TRP:HZ2	10	0.18
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	2	0.18
(2,297)	1:5:A:VAL:HB	1:6:A:ARG:H	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	8	0.18
(1,441)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.18
(1,441)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.18
(1,441)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.18
(1,426)	1:3:A:GLU:HG2	1:4:A:ALA:H	1	0.18
(1,426)	1:3:A:GLU:HG3	1:4:A:ALA:H	1	0.18
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	5	0.18
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	9	0.18
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	5	0.18
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	6	0.18
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	4	0.18
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	4	0.18
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	3	0.18
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	3	0.18
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	2	0.18
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	2	0.18
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	5	0.18
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	6	0.18
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	1	0.18
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	7	0.18
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	6	0.18
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	10	0.18
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	2	0.18
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	2	0.18
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	2	0.18
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	5	0.18
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	8	0.18
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	5	0.18
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	5	0.18
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	5	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	4	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	4	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	4	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	8	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	8	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	8	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	9	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	9	0.18
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	9	0.18
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	2	0.18
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	6	0.18
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	3	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	3	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	8	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	8	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	9	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	9	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	10	0.18
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	10	0.18
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	3	0.18
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	4	0.18
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	9	0.18
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	9	0.18
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	9	0.18
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	4	0.18
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	8	0.18
(1,24)	1:23:A:PRO:HB2	1:23:A:PRO:HG3	10	0.18
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	1	0.17
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	2	0.17
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	4	0.17
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	9	0.17
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	9	0.17
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	9	0.17
(4,3)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	4	0.17
(3,423)	1:9:A:ILE:HG13	1:10:A:GLN:H	10	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	6	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	6	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	6	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	8	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	8	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	8	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD11	10	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD12	10	0.17
(3,380)	1:6:A:ARG:H	1:9:A:ILE:HD13	10	0.17
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	4	0.17
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	4	0.17
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	1	0.17
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	1	0.17
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	1	0.17
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	4	0.17
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	4	0.17
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	8	0.17
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	8	0.17
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	8	0.17
(2,450)	1:9:A:ILE:HG13	1:10:A:GLN:H	10	0.17
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	1	0.17
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	2	0.17
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	4	0.17
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	9	0.17
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	9	0.17
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	9	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	6	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	6	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	6	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	8	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	8	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	8	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD11	10	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD12	10	0.17
(2,403)	1:6:A:ARG:H	1:9:A:ILE:HD13	10	0.17
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	4	0.17
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	4	0.17
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	1	0.17
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	1	0.17
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	1	0.17
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	4	0.17
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	4	0.17
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	8	0.17
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	8	0.17
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	8	0.17
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	8	0.17
(2,118)	1:6:A:ARG:HB3	1:6:A:ARG:HG2	4	0.17
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	8	0.17
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	8	0.17
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	8	0.17
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	6	0.17
(1,333)	1:7:A:LEU:HA	1:10:A:GLN:HB3	4	0.17
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	8	0.17
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	5	0.17
(1,315)	1:11:A:TRP:HE3	1:12:A:LEU:H	4	0.17
(1,291)	1:21:A:ARG:H	1:22:A:PRO:HD2	7	0.17
(1,288)	1:12:A:LEU:HB2	1:13:A:LYS:H	8	0.17
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	8	0.17
(1,242)	1:11:A:TRP:HE1	1:23:A:PRO:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:8:A:TYR:HD1	1:12:A:LEU:HB3	5	0.17
(1,231)	1:8:A:TYR:HD2	1:12:A:LEU:HB3	5	0.17
(1,228)	1:8:A:TYR:HD1	1:24:A:PRO:HG3	6	0.17
(1,228)	1:8:A:TYR:HD2	1:24:A:PRO:HG3	6	0.17
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	5	0.17
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	5	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	2	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	2	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	4	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	4	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG2	5	0.17
(1,216)	1:17:A:PRO:HB2	1:17:A:PRO:HG3	5	0.17
(1,202)	1:14:A:GLU:H	1:14:A:GLU:HG2	7	0.17
(1,199)	1:14:A:GLU:HB2	1:14:A:GLU:HG2	7	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	1	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	2	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	3	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	4	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	7	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	8	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	9	0.17
(1,198)	1:14:A:GLU:HG2	1:14:A:GLU:HG3	10	0.17
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	6	0.17
(1,160)	1:11:A:TRP:H	1:11:A:TRP:HB2	3	0.17
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	1	0.17
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	2	0.17
(1,146)	1:9:A:ILE:HB	1:9:A:ILE:HG12	3	0.17
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	4	0.17
(1,137)	1:8:A:TYR:HA	1:8:A:TYR:HB2	9	0.17
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	2	0.17
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	2	0.17
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	2	0.17
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	7	0.17
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	7	0.17
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	7	0.17
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	8	0.17
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	8	0.17
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	8	0.17
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	10	0.17
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	10	0.17
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	10	0.17
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD11	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD12	3	0.17
(1,128)	1:7:A:LEU:HB2	1:7:A:LEU:HD13	3	0.17
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	6	0.17
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	7	0.17
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	7	0.17
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	7	0.17
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	7	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	1	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	1	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	6	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	6	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	9	0.17
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	9	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	1	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	1	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	2	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	2	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	4	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	4	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	5	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	5	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	7	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	7	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG2	10	0.17
(1,88)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	10	0.17
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	2	0.17
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	2	0.17
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	8	0.17
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	8	0.17
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	2	0.17
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	7	0.17
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	4	0.17
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	4	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	2	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	5	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	6	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	7	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	8	0.17
(1,46)	1:22:A:PRO:HA	1:22:A:PRO:HB3	10	0.17
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	6	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	1	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	3	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	5	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	6	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	7	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	8	0.17
(1,28)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	10	0.17
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	10	0.16
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	5	0.16
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	5	0.16
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	5	0.16
(3,423)	1:9:A:ILE:HG13	1:10:A:GLN:H	2	0.16
(3,384)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	8	0.16
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.16
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.16
(3,356)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	2	0.16
(3,356)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	2	0.16
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	2	0.16
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	2	0.16
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	2	0.16
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	4	0.16
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	4	0.16
(3,238)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	8	0.16
(3,228)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	1	0.16
(3,228)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	4	0.16
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	6	0.16
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	6	0.16
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	6	0.16
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	6	0.16
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	6	0.16
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	6	0.16
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	9	0.16
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	9	0.16
(3,206)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	7	0.16
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	4	0.16
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	9	0.16
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	7	0.16
(2,450)	1:9:A:ILE:HG13	1:10:A:GLN:H	2	0.16
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	10	0.16
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	5	0.16
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	5	0.16
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	5	0.16
(2,407)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.16
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.16
(2,378)	1:8:A:TYR:HD1	1:11:A:TRP:HZ3	2	0.16
(2,378)	1:8:A:TYR:HD2	1:11:A:TRP:HZ3	2	0.16
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	2	0.16
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	2	0.16
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	2	0.16
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	4	0.16
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	4	0.16
(2,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	8	0.16
(2,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	1	0.16
(2,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	4	0.16
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	6	0.16
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	6	0.16
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	6	0.16
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	6	0.16
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	6	0.16
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	6	0.16
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	9	0.16
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	9	0.16
(2,213)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	7	0.16
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	4	0.16
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	9	0.16
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	7	0.16
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	2	0.16
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	5	0.16
(1,455)	1:7:A:LEU:HG	1:10:A:GLN:H	7	0.16
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	4	0.16
(1,414)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	7	0.16
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	3	0.16
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	3	0.16
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	3	0.16
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	1	0.16
(1,375)	1:15:A:GLY:HA3	1:16:A:GLY:H	2	0.16
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	4	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	5	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	5	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	5	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	9	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	9	0.16
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	9	0.16
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	6	0.16
(1,199)	1:14:A:GLU:HB2	1:14:A:GLU:HG2	6	0.16
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	2	0.16
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	7	0.16
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	10	0.16
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	6	0.16
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	6	0.16
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	6	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	1	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	1	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	1	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	3	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	3	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	3	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	4	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	4	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	4	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	6	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	6	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	6	0.16
(1,131)	1:7:A:LEU:HD21	1:7:A:LEU:HG	9	0.16
(1,131)	1:7:A:LEU:HD22	1:7:A:LEU:HG	9	0.16
(1,131)	1:7:A:LEU:HD23	1:7:A:LEU:HG	9	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	1	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	3	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	4	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	5	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	6	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	7	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	8	0.16
(1,126)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	9	0.16
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	7	0.16
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	10	0.16
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG11	3	0.16
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG12	3	0.16
(1,102)	1:5:A:VAL:H	1:5:A:VAL:HG13	3	0.16
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	8	0.16
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	8	0.16
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	1	0.16
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	4	0.16
(1,82)	1:25:A:SER:H	1:25:A:SER:HB2	9	0.16
(1,82)	1:25:A:SER:H	1:25:A:SER:HB3	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	8	0.16
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	1	0.16
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	3	0.16
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	6	0.16
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	1	0.16
(1,49)	1:22:A:PRO:HD2	1:22:A:PRO:HG3	1	0.16
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	4	0.16
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	4	0.16
(4,25)	1:9:A:ILE:H	1:9:A:ILE:HG13	9	0.15
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	3	0.15
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	3	0.15
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	3	0.15
(4,24)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	8	0.15
(4,24)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	8	0.15
(4,24)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	8	0.15
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG2	1	0.15
(4,6)	1:10:A:GLN:H	1:10:A:GLN:HG3	1	0.15
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	1	0.15
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	1	0.15
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	8	0.15
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	9	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	1	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	1	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	2	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	2	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	7	0.15
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	7	0.15
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	5	0.15
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	5	0.15
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	5	0.15
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	8	0.15
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	8	0.15
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	8	0.15
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	9	0.15
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	9	0.15
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	9	0.15
(3,321)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	5	0.15
(3,315)	1:2:A:GLU:HB2	1:3:A:GLU:HA	3	0.15
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	9	0.15
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	5	0.15
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	5	0.15
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	9	0.15
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	5	0.15
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	4	0.15
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	4	0.15
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	5	0.15
(3,217)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	5	0.15
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	5	0.15
(3,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	6	0.15
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	2	0.15
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	6	0.15
(3,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	3	0.15
(2,424)	1:9:A:ILE:H	1:9:A:ILE:HG13	9	0.15
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	3	0.15
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	3	0.15
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	3	0.15
(2,419)	1:9:A:ILE:HG21	1:10:A:GLN:HB2	8	0.15
(2,419)	1:9:A:ILE:HG22	1:10:A:GLN:HB2	8	0.15
(2,419)	1:9:A:ILE:HG23	1:10:A:GLN:HB2	8	0.15
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	1	0.15
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	1	0.15
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	8	0.15
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	9	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	1	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	1	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	2	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	2	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	7	0.15
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	7	0.15
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	5	0.15
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	5	0.15
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	5	0.15
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	8	0.15
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	8	0.15
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	8	0.15
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	9	0.15
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	9	0.15
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	9	0.15
(2,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	5	0.15
(2,334)	1:2:A:GLU:HB2	1:3:A:GLU:HA	3	0.15
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	9	0.15
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	5	0.15
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	9	0.15
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	9	0.15
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	5	0.15
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	4	0.15
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	4	0.15
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	5	0.15
(2,224)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	5	0.15
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	5	0.15
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG2	1	0.15
(2,153)	1:10:A:GLN:H	1:10:A:GLN:HG3	1	0.15
(2,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	6	0.15
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	2	0.15
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	6	0.15
(2,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	3	0.15
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	3	0.15
(1,373)	1:5:A:VAL:HA	1:8:A:TYR:H	8	0.15
(1,304)	1:9:A:ILE:HD11	1:10:A:GLN:H	4	0.15
(1,304)	1:9:A:ILE:HD12	1:10:A:GLN:H	4	0.15
(1,304)	1:9:A:ILE:HD13	1:10:A:GLN:H	4	0.15
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	10	0.15
(1,183)	1:13:A:LYS:HA	1:13:A:LYS:HG2	7	0.15
(1,181)	1:13:A:LYS:HA	1:13:A:LYS:HB2	6	0.15
(1,181)	1:13:A:LYS:HA	1:13:A:LYS:HB3	6	0.15
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	3	0.15
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	4	0.15
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG2	10	0.15
(1,156)	1:10:A:GLN:HA	1:10:A:GLN:HG3	10	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	3	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	3	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	3	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	7	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	7	0.15
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	7	0.15
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	7	0.15
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	5	0.15
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	4	0.15
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	4	0.15
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	9	0.15
(1,64)	1:23:A:PRO:HB3	1:23:A:PRO:HG2	4	0.15
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	3	0.15
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	3	0.15
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	5	0.15
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	3	0.15
(1,34)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	3	0.15
(4,21)	1:5:A:VAL:HG21	1:6:A:ARG:HA	9	0.14
(4,21)	1:5:A:VAL:HG22	1:6:A:ARG:HA	9	0.14
(4,21)	1:5:A:VAL:HG23	1:6:A:ARG:HA	9	0.14
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	7	0.14
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	7	0.14
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	10	0.14
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	10	0.14
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	10	0.14
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	4	0.14
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	4	0.14
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	4	0.14
(3,348)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.14
(3,348)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.14
(3,348)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.14
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	2	0.14
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	2	0.14
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	2	0.14
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	7	0.14
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	7	0.14
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	4	0.14
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	8	0.14
(3,228)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	5	0.14
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	3	0.14
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	3	0.14
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	8	0.14
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.14
(3,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	1	0.14
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	7	0.14
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	7	0.14
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	10	0.14
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	10	0.14
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	10	0.14
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	4	0.14
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	4	0.14
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	4	0.14
(2,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.14
(2,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.14
(2,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.14
(2,355)	1:5:A:VAL:HG21	1:6:A:ARG:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,355)	1:5:A:VAL:HG22	1:6:A:ARG:HA	9	0.14
(2,355)	1:5:A:VAL:HG23	1:6:A:ARG:HA	9	0.14
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	2	0.14
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	2	0.14
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	2	0.14
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	7	0.14
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	7	0.14
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	4	0.14
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	8	0.14
(2,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	5	0.14
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	3	0.14
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	3	0.14
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	8	0.14
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.14
(2,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	1	0.14
(1,456)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.14
(1,427)	1:2:A:GLU:HB2	1:4:A:ALA:H	3	0.14
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	4	0.14
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	4	0.14
(1,371)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	4	0.14
(1,369)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	3	0.14
(1,369)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	3	0.14
(1,369)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	3	0.14
(1,341)	1:5:A:VAL:HA	1:8:A:TYR:HB3	1	0.14
(1,340)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.14
(1,325)	1:12:A:LEU:H	1:13:A:LYS:H	3	0.14
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	2	0.14
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	10	0.14
(1,305)	1:13:A:LYS:HB2	1:14:A:GLU:H	9	0.14
(1,305)	1:13:A:LYS:HB3	1:14:A:GLU:H	9	0.14
(1,288)	1:12:A:LEU:HB2	1:13:A:LYS:H	5	0.14
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	8	0.14
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	8	0.14
(1,267)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	8	0.14
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	4	0.14
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	6	0.14
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	8	0.14
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	4	0.14
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	4	0.14
(1,202)	1:14:A:GLU:H	1:14:A:GLU:HG2	6	0.14
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	1	0.14
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	5	0.14
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	8	0.14
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	9	0.14
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	4	0.14
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	4	0.14
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	4	0.14
(1,110)	1:6:A:ARG:HB2	1:6:A:ARG:HD3	6	0.14
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	9	0.14
(1,66)	1:22:A:PRO:HA	1:23:A:PRO:HD2	8	0.14
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	4	0.14
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	6	0.14
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	9	0.14
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	1	0.14
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	1	0.14
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	6	0.14
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	6	0.14
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	4	0.14
(1,43)	1:21:A:ARG:HA	1:22:A:PRO:HD2	5	0.14
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	1	0.14
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	1	0.14
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	2	0.13
(3,308)	1:11:A:TRP:H	1:11:A:TRP:HD1	8	0.13
(3,238)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	10	0.13
(3,149)	1:10:A:GLN:H	1:10:A:GLN:HB3	1	0.13
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	4	0.13
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	1	0.13
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	3	0.13
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	4	0.13
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	5	0.13
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	2	0.13
(2,327)	1:11:A:TRP:H	1:11:A:TRP:HD1	8	0.13
(2,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	10	0.13
(2,155)	1:10:A:GLN:H	1:10:A:GLN:HB3	1	0.13
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	4	0.13
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	1	0.13
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	3	0.13
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	4	0.13
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	5	0.13
(1,451)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	9	0.13
(1,437)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	1	0.13
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	2	0.13
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:11:A:TRP:HZ3	1:17:A:PRO:HD3	4	0.13
(1,380)	1:20:A:GLY:HA2	1:21:A:ARG:H	4	0.13
(1,372)	1:15:A:GLY:HA2	1:16:A:GLY:H	3	0.13
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	6	0.13
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	6	0.13
(1,366)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	6	0.13
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	9	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	2	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	2	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	2	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	6	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	6	0.13
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	6	0.13
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	5	0.13
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	7	0.13
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	10	0.13
(1,242)	1:11:A:TRP:HE1	1:23:A:PRO:HA	9	0.13
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	4	0.13
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	4	0.13
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD1	9	0.13
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD2	9	0.13
(1,172)	1:12:A:LEU:HB2	1:12:A:LEU:HG	3	0.13
(1,110)	1:6:A:ARG:HB2	1:6:A:ARG:HD3	10	0.13
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	4	0.13
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	3	0.13
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	3	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	1	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	2	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	3	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	5	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	7	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	8	0.13
(1,65)	1:23:A:PRO:HG2	1:23:A:PRO:HG3	10	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	2	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	2	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	4	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	4	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	5	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	5	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	7	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	7	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	8	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	10	0.13
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	10	0.13
(1,39)	1:21:A:ARG:H	1:21:A:ARG:HG3	3	0.13
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	5	0.13
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	8	0.13
(3,423)	1:9:A:ILE:HG13	1:10:A:GLN:H	1	0.12
(3,423)	1:9:A:ILE:HG13	1:10:A:GLN:H	6	0.12
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	3	0.12
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	6	0.12
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	7	0.12
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	1	0.12
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	1	0.12
(3,332)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	1	0.12
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	1	0.12
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	1	0.12
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	3	0.12
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	3	0.12
(3,260)	1:8:A:TYR:HB2	1:9:A:ILE:H	9	0.12
(3,240)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	6	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	1	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	1	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	1	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	1	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	1	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	1	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	7	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	7	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	7	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	7	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	7	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	7	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	10	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	10	0.12
(3,224)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	10	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	10	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	10	0.12
(3,224)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	10	0.12
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	9	0.12
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	9	0.12
(3,206)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	6	0.12
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	5	0.12
(3,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	9	0.12
(2,450)	1:9:A:ILE:HG13	1:10:A:GLN:H	1	0.12
(2,450)	1:9:A:ILE:HG13	1:10:A:GLN:H	6	0.12
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	3	0.12
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	6	0.12
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	7	0.12
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB1	1	0.12
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB2	1	0.12
(2,351)	1:2:A:GLU:HB2	1:4:A:ALA:HB3	1	0.12
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	1	0.12
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	1	0.12
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	3	0.12
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	3	0.12
(2,272)	1:8:A:TYR:HB2	1:9:A:ILE:H	9	0.12
(2,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	6	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	1	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	1	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	1	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	1	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	1	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	1	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	7	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	7	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	7	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	7	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	7	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	7	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	10	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	10	0.12
(2,234)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	10	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	10	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	10	0.12
(2,234)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	10	0.12
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	9	0.12
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	9	0.12
(2,213)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	6	0.12
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	1	0.12
(2,47)	1:22:A:PRO:HA	1:22:A:PRO:HG2	5	0.12
(2,38)	1:21:A:ARG:HB2	1:21:A:ARG:HG2	9	0.12
(1,377)	1:11:A:TRP:HE1	1:23:A:PRO:HD2	6	0.12
(1,358)	1:12:A:LEU:HD21	1:16:A:GLY:HA2	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:12:A:LEU:HD22	1:16:A:GLY:HA2	4	0.12
(1,358)	1:12:A:LEU:HD23	1:16:A:GLY:HA2	4	0.12
(1,342)	1:5:A:VAL:HA	1:8:A:TYR:HB2	2	0.12
(1,335)	1:6:A:ARG:HA	1:9:A:ILE:HB	6	0.12
(1,325)	1:12:A:LEU:H	1:13:A:LYS:H	2	0.12
(1,295)	1:7:A:LEU:HA	1:10:A:GLN:H	1	0.12
(1,292)	1:7:A:LEU:HB2	1:8:A:TYR:H	7	0.12
(1,288)	1:12:A:LEU:HB2	1:13:A:LYS:H	1	0.12
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	1	0.12
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	6	0.12
(1,279)	1:6:A:ARG:HB3	1:7:A:LEU:H	10	0.12
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	1	0.12
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	2	0.12
(1,240)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	1	0.12
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	2	0.12
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	2	0.12
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD1	8	0.12
(1,222)	1:8:A:TYR:HB2	1:8:A:TYR:HD2	8	0.12
(1,169)	1:12:A:LEU:HA	1:12:A:LEU:HB3	6	0.12
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	6	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	5	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	5	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	5	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	8	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	8	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	8	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG21	9	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG22	9	0.12
(1,144)	1:9:A:ILE:HA	1:9:A:ILE:HG23	9	0.12
(1,135)	1:8:A:TYR:H	1:8:A:TYR:HB2	1	0.12
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	3	0.12
(1,101)	1:5:A:VAL:H	1:5:A:VAL:HB	6	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	5	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	5	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	7	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	7	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG2	10	0.12
(1,90)	1:3:A:GLU:HA	1:3:A:GLU:HG3	10	0.12
(1,41)	1:21:A:ARG:H	1:21:A:ARG:HB3	2	0.12
(1,35)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	3	0.12
(1,35)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	3	0.12
(1,18)	1:25:A:SER:H	1:25:A:SER:HA	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	3	0.12
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	9	0.12
(3,399)	1:5:A:VAL:HG11	1:9:A:ILE:H	2	0.11
(3,399)	1:5:A:VAL:HG12	1:9:A:ILE:H	2	0.11
(3,399)	1:5:A:VAL:HG13	1:9:A:ILE:H	2	0.11
(3,399)	1:5:A:VAL:HG11	1:9:A:ILE:H	10	0.11
(3,399)	1:5:A:VAL:HG12	1:9:A:ILE:H	10	0.11
(3,399)	1:5:A:VAL:HG13	1:9:A:ILE:H	10	0.11
(3,375)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	5	0.11
(3,375)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	5	0.11
(3,368)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	1	0.11
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	5	0.11
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	5	0.11
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	8	0.11
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	8	0.11
(3,309)	1:8:A:TYR:HD1	1:12:A:LEU:H	2	0.11
(3,309)	1:8:A:TYR:HD2	1:12:A:LEU:H	2	0.11
(3,240)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	2	0.11
(3,240)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	9	0.11
(3,238)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	6	0.11
(3,221)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	8	0.11
(3,221)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	8	0.11
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	7	0.11
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	7	0.11
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	8	0.11
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	8	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	1	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	1	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	1	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	1	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	2	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	2	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	2	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	2	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	3	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	3	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	3	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	3	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	6	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	6	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	6	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	7	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	7	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	7	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	7	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	10	0.11
(3,212)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	10	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	10	0.11
(3,212)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	10	0.11
(3,175)	1:13:A:LYS:HA	1:13:A:LYS:HD2	6	0.11
(3,175)	1:13:A:LYS:HA	1:13:A:LYS:HD3	6	0.11
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	5	0.11
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	5	0.11
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	5	0.11
(2,423)	1:5:A:VAL:HG11	1:9:A:ILE:H	2	0.11
(2,423)	1:5:A:VAL:HG12	1:9:A:ILE:H	2	0.11
(2,423)	1:5:A:VAL:HG13	1:9:A:ILE:H	2	0.11
(2,423)	1:5:A:VAL:HG11	1:9:A:ILE:H	10	0.11
(2,423)	1:5:A:VAL:HG12	1:9:A:ILE:H	10	0.11
(2,423)	1:5:A:VAL:HG13	1:9:A:ILE:H	10	0.11
(2,398)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	5	0.11
(2,398)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	5	0.11
(2,391)	1:11:A:TRP:HE3	1:12:A:LEU:HB3	1	0.11
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	5	0.11
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	5	0.11
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	8	0.11
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	8	0.11
(2,328)	1:8:A:TYR:HD1	1:12:A:LEU:H	2	0.11
(2,328)	1:8:A:TYR:HD2	1:12:A:LEU:H	2	0.11
(2,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	2	0.11
(2,251)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	9	0.11
(2,249)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	6	0.11
(2,230)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	8	0.11
(2,230)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	8	0.11
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	7	0.11
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	7	0.11
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	8	0.11
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	8	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	1	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	1	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	1	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	1	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	2	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	2	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	2	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	3	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	3	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	3	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	3	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	6	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	6	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	6	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	6	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	7	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	7	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	7	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	7	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE1	10	0.11
(2,219)	1:8:A:TYR:HD1	1:8:A:TYR:HE2	10	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE1	10	0.11
(2,219)	1:8:A:TYR:HD2	1:8:A:TYR:HE2	10	0.11
(2,182)	1:13:A:LYS:HA	1:13:A:LYS:HD2	6	0.11
(2,182)	1:13:A:LYS:HA	1:13:A:LYS:HD3	6	0.11
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	5	0.11
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	5	0.11
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	5	0.11
(1,443)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	1	0.11
(1,443)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	1	0.11
(1,443)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	1	0.11
(1,443)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	6	0.11
(1,443)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	6	0.11
(1,443)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	6	0.11
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	1	0.11
(1,255)	1:11:A:TRP:HZ2	1:23:A:PRO:HD2	3	0.11
(1,253)	1:11:A:TRP:HZ2	1:17:A:PRO:HA	3	0.11
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	8	0.11
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	8	0.11
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD1	9	0.11
(1,223)	1:8:A:TYR:HB3	1:8:A:TYR:HD2	9	0.11
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	9	0.11
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	9	0.11
(1,157)	1:10:A:GLN:HA	1:10:A:GLN:HB2	2	0.11
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	1	0.11
(1,105)	1:6:A:ARG:HA	1:6:A:ARG:HB2	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:24:A:PRO:HA	1:25:A:SER:H	1	0.11
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	9	0.11
(1,55)	1:22:A:PRO:HB2	1:22:A:PRO:HG3	9	0.11
(1,18)	1:25:A:SER:H	1:25:A:SER:HA	8	0.11
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	4	0.11
(3,403)	1:10:A:GLN:HA	1:13:A:LYS:H	6	0.1
(3,395)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	7	0.1
(3,395)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	7	0.1
(3,395)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	7	0.1
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	3	0.1
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	3	0.1
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB2	4	0.1
(3,366)	1:10:A:GLN:H	1:13:A:LYS:HB3	4	0.1
(3,286)	1:6:A:ARG:H	1:6:A:ARG:HG2	5	0.1
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB2	2	0.1
(3,265)	1:12:A:LEU:H	1:13:A:LYS:HB3	2	0.1
(3,228)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	3	0.1
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.1
(3,214)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.1
(3,188)	1:14:A:GLU:HA	1:14:A:GLU:HG3	6	0.1
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	1	0.1
(3,159)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	8	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	8	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	8	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	9	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	9	0.1
(3,144)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	9	0.1
(3,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	8	0.1
(3,75)	1:24:A:PRO:HB3	1:24:A:PRO:HD3	8	0.1
(3,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	5	0.1
(2,428)	1:10:A:GLN:HA	1:13:A:LYS:H	6	0.1
(2,418)	1:7:A:LEU:HD21	1:24:A:PRO:HG3	7	0.1
(2,418)	1:7:A:LEU:HD22	1:24:A:PRO:HG3	7	0.1
(2,418)	1:7:A:LEU:HD23	1:24:A:PRO:HG3	7	0.1
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	3	0.1
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	3	0.1
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB2	4	0.1
(2,389)	1:10:A:GLN:H	1:13:A:LYS:HB3	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,301)	1:6:A:ARG:H	1:6:A:ARG:HG2	5	0.1
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB2	2	0.1
(2,278)	1:12:A:LEU:H	1:13:A:LYS:HB3	2	0.1
(2,238)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	3	0.1
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.1
(2,221)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.1
(2,195)	1:14:A:GLU:HA	1:14:A:GLU:HG3	6	0.1
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	1	0.1
(2,165)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	8	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	8	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	8	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	9	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	9	0.1
(2,149)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	9	0.1
(2,81)	1:23:A:PRO:HA	1:24:A:PRO:HD2	8	0.1
(2,75)	1:24:A:PRO:HB3	1:24:A:PRO:HD3	8	0.1
(2,51)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	5	0.1
(1,395)	1:8:A:TYR:HD1	1:12:A:LEU:HG	6	0.1
(1,395)	1:8:A:TYR:HD2	1:12:A:LEU:HG	6	0.1
(1,382)	1:14:A:GLU:HA	1:15:A:GLY:H	1	0.1
(1,374)	1:12:A:LEU:HA	1:16:A:GLY:H	8	0.1
(1,325)	1:12:A:LEU:H	1:13:A:LYS:H	7	0.1
(1,319)	1:13:A:LYS:H	1:14:A:GLU:H	10	0.1
(1,317)	1:5:A:VAL:H	1:6:A:ARG:H	7	0.1
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	0.1
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	0.1
(1,266)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	0.1
(1,239)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	10	0.1
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG2	3	0.1
(1,212)	1:17:A:PRO:HA	1:17:A:PRO:HG3	3	0.1
(1,167)	1:12:A:LEU:HA	1:12:A:LEU:HB2	3	0.1
(1,84)	1:2:A:GLU:HA	1:3:A:GLU:H	9	0.1
(1,16)	1:6:A:ARG:H	1:6:A:ARG:HA	6	0.1

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found