



# Full wwPDB NMR Structure Validation Report ⓘ

Sep 16, 2024 – 01:30 pm BST

PDB ID : 9G2O  
BMRB ID : 34934  
Title : Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bDR) at 299K  
Authors : Horvath, D.  
Deposited on : 2024-07-11

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)

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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

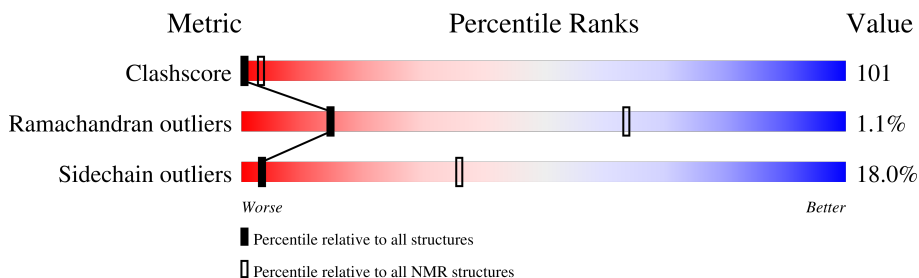
# 1 Overall quality at a glance

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 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:17, A:23-A:24 (18)	0.17	5

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, 5, 7, 8
2	9, 10
Single-model clusters	6

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 385 atoms, of which 189 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	385	123	189	34	39	0

There are 4 discrepancies between the modelled and reference sequences:

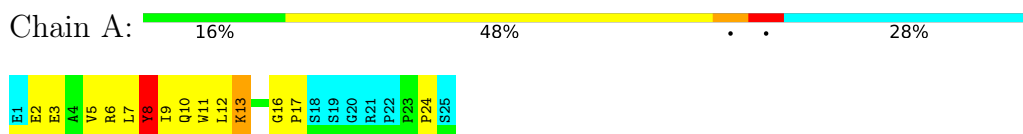
Chain	Residue	Modelled	Actual	Comment	Reference
A	8	TYR	PHE	engineered mutation	UNP P26349
A	10	GLN	GLU	engineered mutation	UNP P26349
A	14	ASP	ASN	engineered mutation	UNP P26349
A	21	ARG	ALA	engineered mutation	UNP P26349

## 4 Residue-property plots

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

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

- Molecule 1: Exendin-4

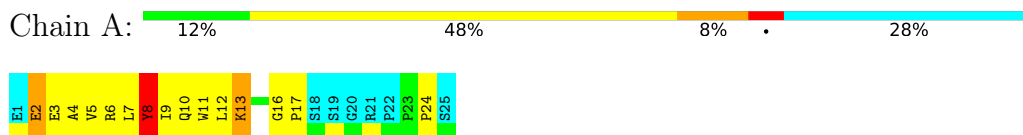


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

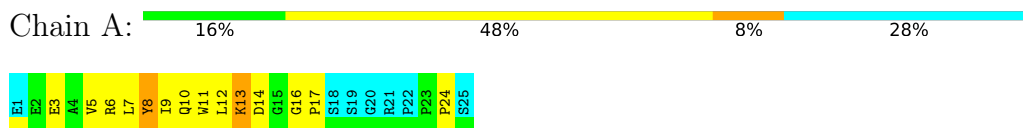
#### 4.2.1 Score per residue for model 1

- Molecule 1: Exendin-4



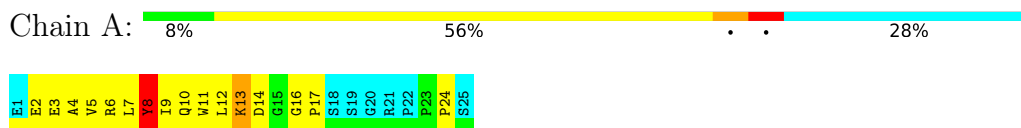
#### 4.2.2 Score per residue for model 2

- Molecule 1: Exendin-4



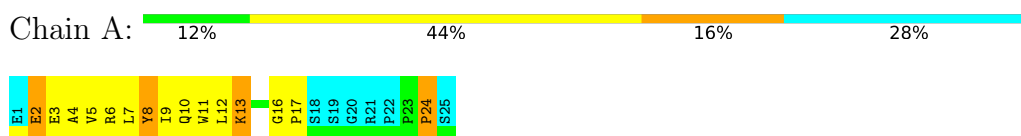
### 4.2.3 Score per residue for model 3

- Molecule 1: Exendin-4



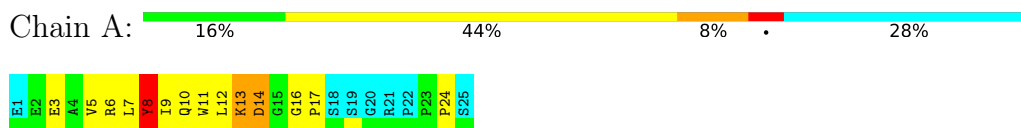
### 4.2.4 Score per residue for model 4

- Molecule 1: Exendin-4



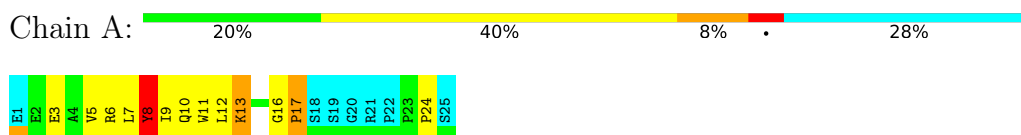
### 4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: Exendin-4



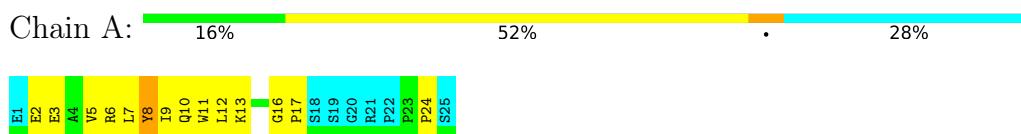
### 4.2.6 Score per residue for model 6

- Molecule 1: Exendin-4



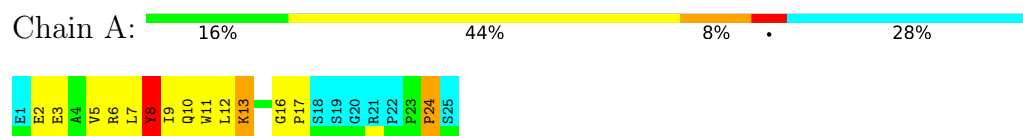
### 4.2.7 Score per residue for model 7

- Molecule 1: Exendin-4



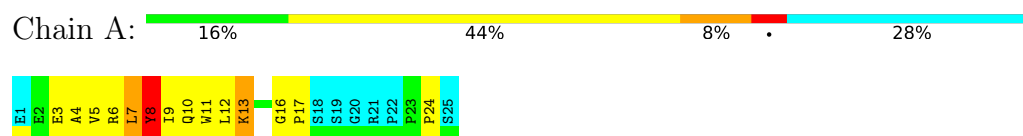
#### 4.2.8 Score per residue for model 8

- Molecule 1: Exendin-4



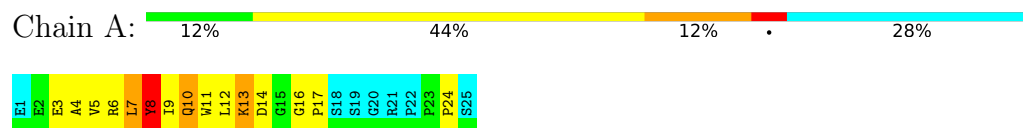
#### 4.2.9 Score per residue for model 9

- 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	168
Number of shifts mapped to atoms	168
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	1.41±0.04	1±0/152 ( 0.7± 0.0%)	1.23±0.02	0±0/208 ( 0.0± 0.0%)
All	All	1.41	10/1520 ( 0.7%)	1.23	0/2080 ( 0.0%)

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	0.1±0.3
All	All	0	1

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	8	TYR	CB-CG	-6.47	1.42	1.51	8	10

There are no bond-angle outliers.

There are no chirality outliers.

All unique planar outliers are listed below.

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

### 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	146	143	143	29±3
All	All	1460	1430	1430	293

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 101.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:TYR:CD1	1:A:24:PRO:HG2	0.86	2.05	10	9
1:A:5:VAL:HA	1:A:8:TYR:HB2	0.73	1.61	1	10
1:A:5:VAL:HA	1:A:8:TYR:CB	0.70	2.16	4	10
1:A:12:LEU:HD23	1:A:16:GLY:CA	0.70	2.17	6	1
1:A:12:LEU:HA	1:A:16:GLY:N	0.69	2.02	3	10
1:A:12:LEU:HD23	1:A:16:GLY:HA3	0.68	1.64	9	9
1:A:8:TYR:CG	1:A:24:PRO:HG2	0.67	2.24	10	9
1:A:9:ILE:O	1:A:13:LYS:HD2	0.67	1.89	7	10
1:A:8:TYR:O	1:A:11:TRP:HB3	0.65	1.90	1	10
1:A:12:LEU:HD23	1:A:16:GLY:HA2	0.65	1.66	6	1
1:A:6:ARG:HA	1:A:9:ILE:HD12	0.64	1.69	9	10
1:A:11:TRP:CH2	1:A:17:PRO:HD3	0.64	2.28	2	10
1:A:7:LEU:H	1:A:7:LEU:CD2	0.60	2.07	10	1
1:A:11:TRP:CD2	1:A:16:GLY:HA2	0.59	2.32	4	9
1:A:7:LEU:HD23	1:A:7:LEU:N	0.59	2.13	9	2
1:A:12:LEU:CD2	1:A:16:GLY:HA3	0.57	2.30	10	9
1:A:6:ARG:O	1:A:10:GLN:HB3	0.56	1.99	10	1
1:A:7:LEU:O	1:A:10:GLN:HB3	0.56	1.99	7	8
1:A:11:TRP:CE3	1:A:12:LEU:HG	0.55	2.35	6	10
1:A:8:TYR:CA	1:A:24:PRO:HG2	0.55	2.30	8	1
1:A:12:LEU:CD2	1:A:16:GLY:HA2	0.55	2.31	6	1
1:A:8:TYR:HA	1:A:24:PRO:HG2	0.55	1.79	8	1
1:A:7:LEU:CD2	1:A:7:LEU:H	0.54	2.10	9	1
1:A:7:LEU:H	1:A:7:LEU:HD23	0.54	1.61	10	1
1:A:5:VAL:HG22	1:A:9:ILE:CD1	0.54	2.33	1	10
1:A:9:ILE:HG22	1:A:13:LYS:CE	0.54	2.33	1	10
1:A:8:TYR:HA	1:A:24:PRO:HG3	0.53	1.80	6	8
1:A:3:GLU:O	1:A:3:GLU:HG2	0.53	2.03	10	9
1:A:9:ILE:HG22	1:A:13:LYS:HE3	0.53	1.81	2	7
1:A:3:GLU:O	1:A:7:LEU:HD21	0.53	2.04	10	2
1:A:7:LEU:HD23	1:A:7:LEU:H	0.51	1.65	9	1
1:A:7:LEU:HD12	1:A:24:PRO:CB	0.50	2.37	10	1
1:A:8:TYR:HA	1:A:24:PRO:CG	0.48	2.38	7	9
1:A:9:ILE:HG22	1:A:13:LYS:HE2	0.48	1.85	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:GLN:HA	1:A:13:LYS:CD	0.48	2.39	1	6
1:A:7:LEU:O	1:A:11:TRP:N	0.47	2.47	10	10
1:A:8:TYR:O	1:A:12:LEU:HD12	0.47	2.08	6	10
1:A:8:TYR:CE2	1:A:11:TRP:CZ3	0.47	3.01	10	6
1:A:4:ALA:HA	1:A:7:LEU:HD11	0.47	1.87	10	2
1:A:5:VAL:CA	1:A:8:TYR:HB2	0.47	2.38	10	4
1:A:4:ALA:HA	1:A:7:LEU:HD12	0.47	1.86	4	2
1:A:2:GLU:HG3	1:A:5:VAL:HG11	0.46	1.87	7	3
1:A:6:ARG:O	1:A:10:GLN:CB	0.46	2.63	10	2
1:A:6:ARG:O	1:A:10:GLN:HB2	0.46	2.10	2	5
1:A:3:GLU:O	1:A:7:LEU:HG	0.46	2.10	4	1
1:A:2:GLU:HG3	1:A:5:VAL:CG1	0.44	2.42	4	1
1:A:11:TRP:CZ3	1:A:17:PRO:HD3	0.44	2.47	1	4
1:A:5:VAL:O	1:A:8:TYR:HB3	0.44	2.12	4	5
1:A:9:ILE:O	1:A:13:LYS:N	0.44	2.50	9	5
1:A:5:VAL:O	1:A:9:ILE:N	0.44	2.48	10	4
1:A:3:GLU:HA	1:A:6:ARG:HB2	0.44	1.89	7	8
1:A:2:GLU:HG2	1:A:5:VAL:HG11	0.43	1.90	1	1
1:A:7:LEU:CA	1:A:10:GLN:HB3	0.43	2.44	9	1
1:A:10:GLN:HA	1:A:13:LYS:HD2	0.43	1.90	1	2
1:A:5:VAL:HG22	1:A:9:ILE:HD11	0.42	1.91	1	1
1:A:8:TYR:CA	1:A:24:PRO:HG3	0.42	2.45	7	3
1:A:4:ALA:CA	1:A:7:LEU:HD12	0.41	2.45	4	1
1:A:11:TRP:CZ2	1:A:17:PRO:HA	0.41	2.50	6	1
1:A:5:VAL:O	1:A:8:TYR:CB	0.41	2.68	10	1
1:A:4:ALA:O	1:A:7:LEU:HD12	0.40	2.17	3	1

## 6.3 Torsion angles [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	18/25 (72%)	15±1 (83±8%)	3±1 (16±7%)	0±0 (1±2%)	15	64
All	All	180/250 (72%)	150 (83%)	28 (16%)	2 (1%)	15	64

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	17	PRO	1
1	A	24	PRO	1

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	15/21 (71%)	12±1 (82±8%)	3±1 (18±8%)	3	36
All	All	150/210 (71%)	123 (82%)	27 (18%)	3	36

All 7 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	13	LYS	9
1	A	8	TYR	7
1	A	14	ASP	4
1	A	2	GLU	3
1	A	7	LEU	2
1	A	24	PRO	1
1	A	10	GLN	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

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

There are no chain breaks in this entry.

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

The completeness of assignment taking into account all chemical shift lists is 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	168
Number of shifts mapped to atoms	168
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

#### 7.1.2 Chemical shift referencing [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. 133 atoms were assigned a chemical shift out of a possible 252. 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	89/145 (61%)	89/94 (95%)	0/46 (0%)	0/5 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	133/252 (53%)	133/139 (96%)	0/92 (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. 168 atoms were assigned a chemical shift out of a possible 329. 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	111/188 (59%)	111/121 (92%)	0/59 (0%)	0/8 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	168/329 (51%)	168/180 (93%)	0/119 (0%)	0/30 (0%)

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

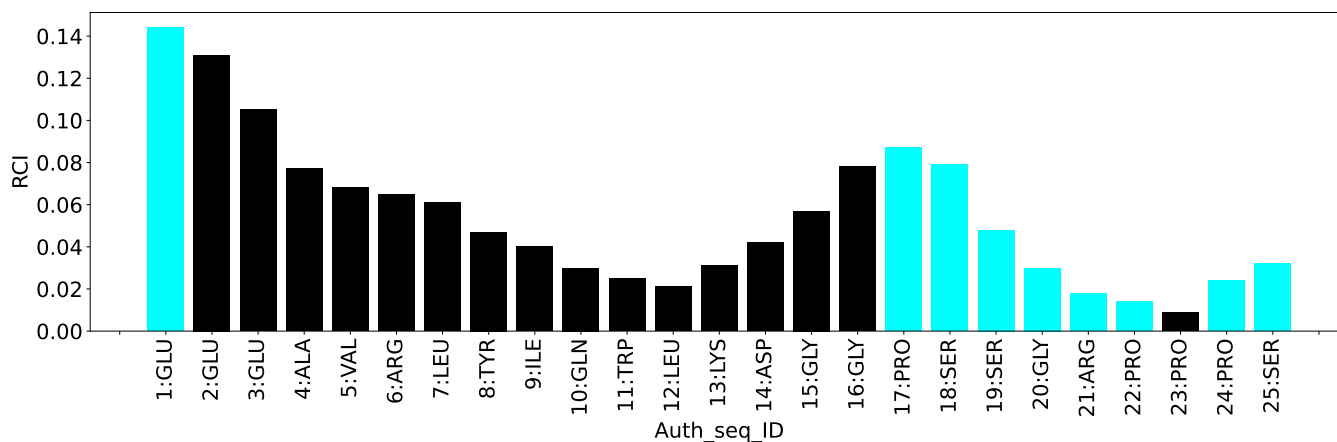
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	16	GLY	HA2	0.89	2.15 – 5.77	-8.5
1	A	23	PRO	HA	2.61	2.78 – 6.00	-5.5

### 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	1202
Intra-residue ( $ i-j =0$ )	592
Sequential ( $ i-j =1$ )	242
Medium range ( $ i-j >1$ and $ i-j <5$ )	230
Long range ( $ i-j \geq 5$ )	138
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	48.1
Number of long range restraints per residue <sup>1</sup>	5.5

<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)	59.0	0.2
0.2-0.5 (Medium)	83.0	0.5
>0.5 (Large)	113.8	3.25



### 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 [i](#)

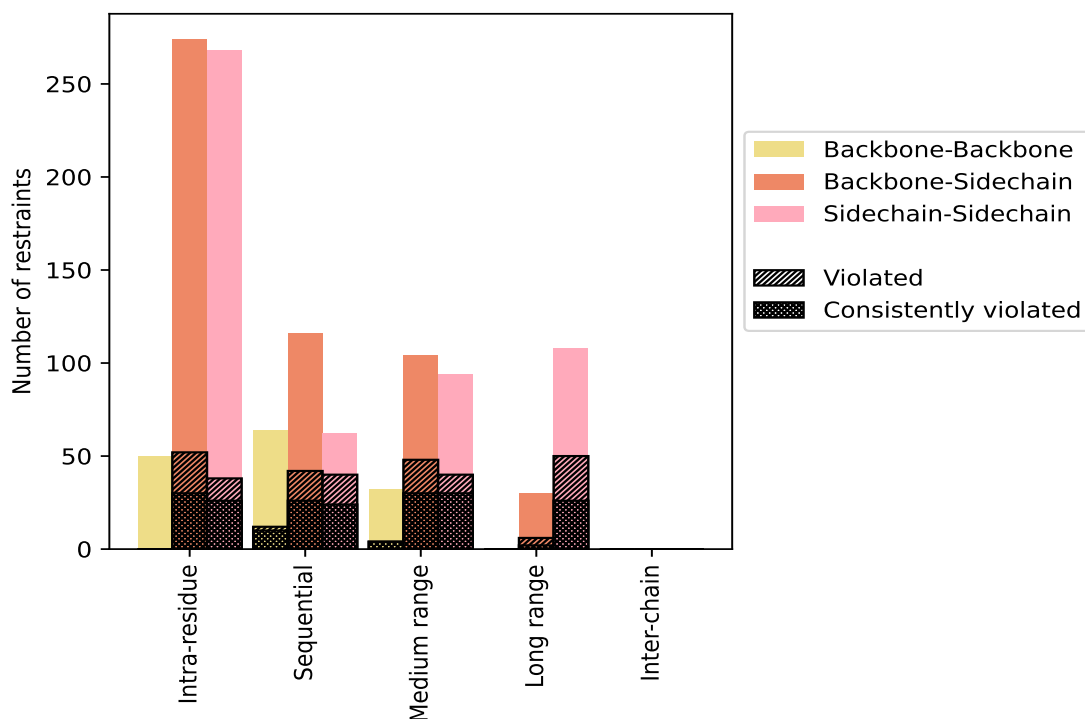
### 9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% <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>592</b>	<b>49.3</b>	<b>90</b>	<b>15.2</b>	<b>7.5</b>	<b>56</b>	<b>9.5</b>	<b>4.7</b>
Backbone-Backbone	50	4.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	274	22.8	52	19.0	4.3	30	10.9	2.5
Sidechain-Sidechain	268	22.3	38	14.2	3.2	26	9.7	2.2
<b>Sequential (<math> i-j =1</math>)</b>	<b>242</b>	<b>20.1</b>	<b>94</b>	<b>38.8</b>	<b>7.8</b>	<b>60</b>	<b>24.8</b>	<b>5.0</b>
Backbone-Backbone	64	5.3	12	18.8	1.0	10	15.6	0.8
Backbone-Sidechain	116	9.7	42	36.2	3.5	26	22.4	2.2
Sidechain-Sidechain	62	5.2	40	64.5	3.3	24	38.7	2.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>230</b>	<b>19.1</b>	<b>92</b>	<b>40.0</b>	<b>7.7</b>	<b>64</b>	<b>27.8</b>	<b>5.3</b>
Backbone-Backbone	32	2.7	4	12.5	0.3	4	12.5	0.3
Backbone-Sidechain	104	8.7	48	46.2	4.0	30	28.8	2.5
Sidechain-Sidechain	94	7.8	40	42.6	3.3	30	31.9	2.5
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>138</b>	<b>11.5</b>	<b>56</b>	<b>40.6</b>	<b>4.7</b>	<b>28</b>	<b>20.3</b>	<b>2.3</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	30	2.5	6	20.0	0.5	2	6.7	0.2
Sidechain-Sidechain	108	9.0	50	46.3	4.2	26	24.1	2.2
<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>1202</b>	<b>100.0</b>	<b>332</b>	<b>27.6</b>	<b>27.6</b>	<b>208</b>	<b>17.3</b>	<b>17.3</b>
Backbone-Backbone	146	12.1	16	11.0	1.3	14	9.6	1.2
Backbone-Sidechain	524	43.6	148	28.2	12.3	88	16.8	7.3
Sidechain-Sidechain	532	44.3	168	31.6	14.0	106	19.9	8.8

<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

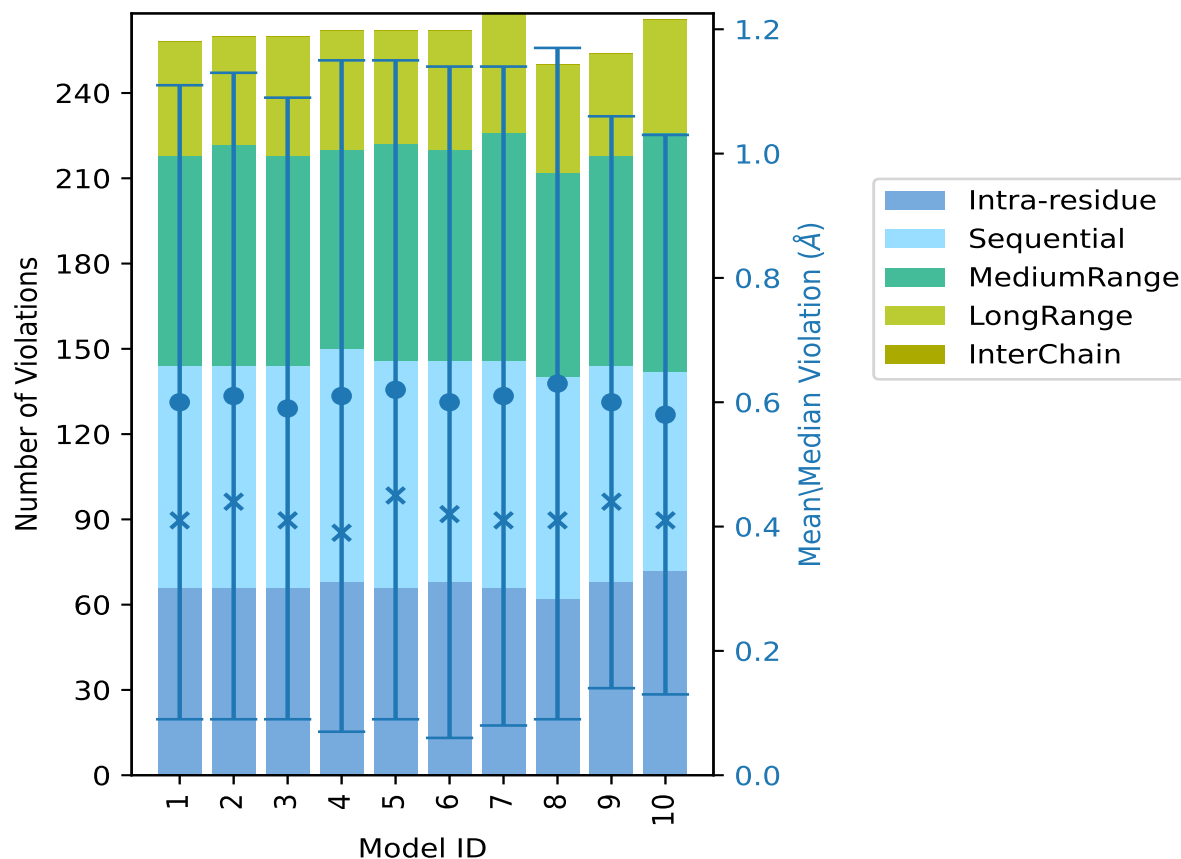
## 9.2 Distance violation statistics for each model [i](#)

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	66	78	74	40	0	258	0.6	2.9	0.51	0.41
2	66	78	78	38	0	260	0.61	2.86	0.52	0.44
3	66	78	74	42	0	260	0.59	2.87	0.5	0.41
4	68	82	70	42	0	262	0.61	3.0	0.54	0.39
5	66	80	76	40	0	262	0.62	3.06	0.53	0.45
6	68	78	74	42	0	262	0.6	3.25	0.54	0.42
7	66	80	80	42	0	268	0.61	3.03	0.53	0.41
8	62	78	72	38	0	250	0.63	2.9	0.54	0.41
9	68	76	74	36	0	254	0.6	2.17	0.46	0.44
10	72	70	84	40	0	266	0.58	2.16	0.45	0.41

<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, 870(IR:502, SQ:148, MR:138, LR:82, 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>	%
8	4	4	4	0	20	1	10.0
16	4	6	6	0	32	2	20.0
0	0	2	4	0	6	3	30.0

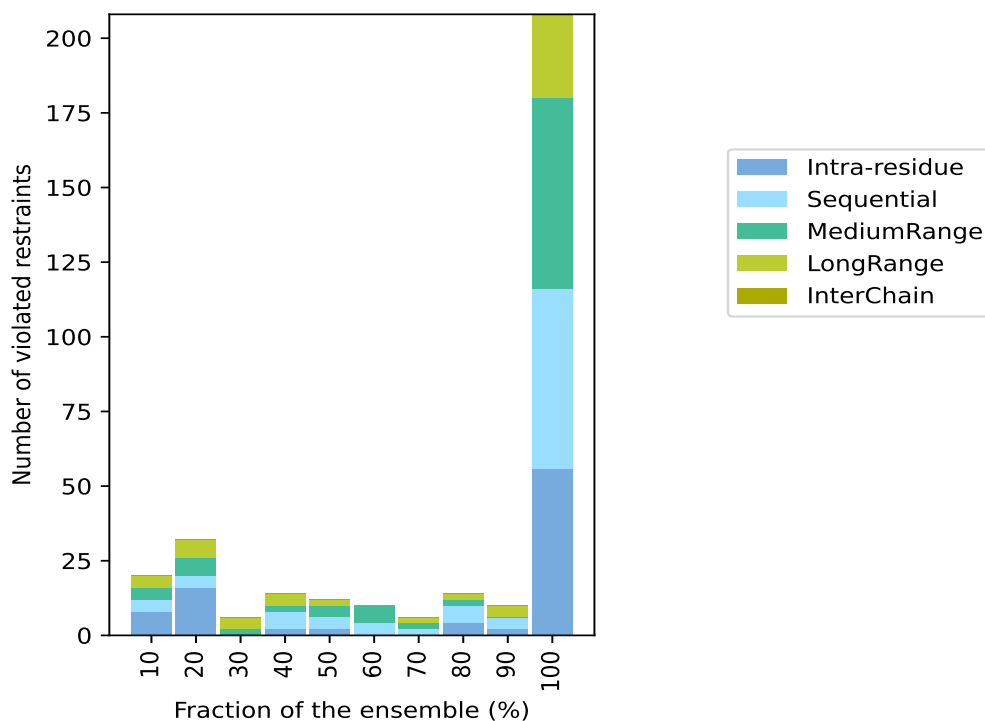
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
2	6	2	4	0	14	4	40.0
2	4	4	2	0	12	5	50.0
0	4	6	0	0	10	6	60.0
0	2	2	2	0	6	7	70.0
4	6	2	2	0	14	8	80.0
2	4	0	4	0	10	9	90.0
56	60	64	28	0	208	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 [\(i\)](#)

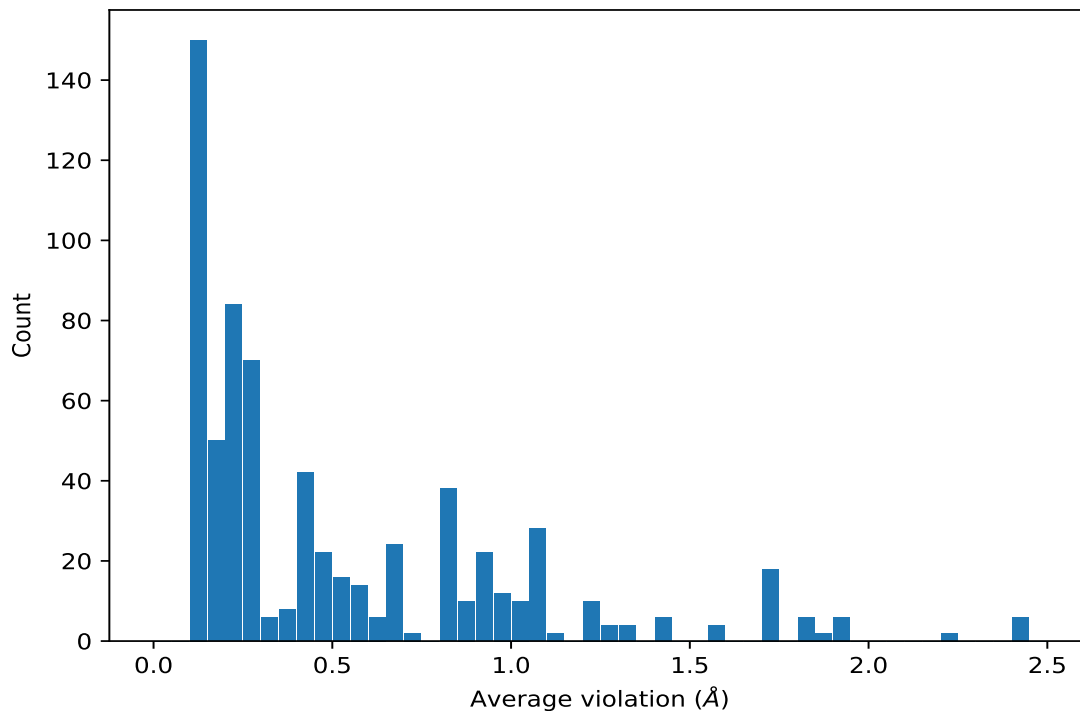


## 9.4 Most violated distance restraints in the ensemble [\(i\)](#)

### 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)
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	10	2.44	1.09	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	10	2.44	1.09	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	10	2.44	1.09	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	10	2.44	1.09	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	10	2.44	1.09	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	10	2.44	1.09	2.9
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	10	2.22	0.29	2.2
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	10	2.22	0.29	2.2
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	10	1.92	0.02	1.92
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	10	1.92	0.02	1.92
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	10	1.92	0.02	1.92
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	10	1.92	0.02	1.92
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	10	1.92	0.02	1.92
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	10	1.92	0.02	1.92
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.9	0.01	1.9

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.9	0.01	1.9
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	10	1.84	0.05	1.86
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	10	1.73	0.39	1.91
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	10	1.73	0.39	1.91
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	10	1.59	0.01	1.59
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	10	1.59	0.01	1.59
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	10	1.58	0.01	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	10	1.58	0.01	1.58
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	10	1.45	0.06	1.44
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	10	1.45	0.06	1.44
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	10	1.45	0.06	1.44
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	10	1.45	0.06	1.44
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	10	1.45	0.06	1.44
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	10	1.45	0.06	1.44
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	10	1.34	0.36	1.52
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	10	1.34	0.36	1.52
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	10	1.31	0.37	1.42
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	10	1.31	0.37	1.42
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	10	1.29	0.05	1.31
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	10	1.29	0.05	1.31
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	10	1.29	0.05	1.31

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	10	1.29	0.05	1.31
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	10	1.23	0.06	1.25
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	10	1.23	0.06	1.25
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	10	1.23	0.06	1.25
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	10	1.23	0.06	1.25
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	10	1.23	0.06	1.25
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	10	1.23	0.06	1.25
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	10	1.23	0.36	1.34
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	10	1.23	0.36	1.34
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	1.21	0.01	1.21
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	1.21	0.01	1.21
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	1.13	0.1	1.12
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	1.13	0.1	1.12
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	1.08	0.09	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	1.08	0.09	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	1.08	0.09	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	1.08	0.09	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	1.08	0.09	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	1.08	0.09	1.04
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	10	1.08	0.54	1.36
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	10	1.08	0.54	1.36
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	1.07	0.01	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	1.07	0.01	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	1.07	0.01	1.06
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	10	1.07	0.11	1.04
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	10	1.07	0.11	1.04
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	1.07	0.01	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	1.07	0.01	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	1.07	0.01	1.06
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	10	1.06	0.36	1.21
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	10	1.06	0.36	1.21
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	10	1.04	0.03	1.04

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	10	1.04	0.03	1.04
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	1.01	0.13	0.94
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	1.01	0.13	0.94
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	10	1.01	0.35	1.17
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	0.99	0.17	1.06
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	10	0.99	0.37	0.86
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	10	0.99	0.37	0.86
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	10	0.98	0.15	1.04
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	10	0.98	0.15	1.04
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	10	0.98	0.15	1.04
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	10	0.98	0.15	1.04
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	10	0.95	0.06	0.98
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	10	0.95	0.06	0.98
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.94	0.02	0.93
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.92	0.08	0.87
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	0.92	0.08	0.87
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	10	0.92	0.13	0.86
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	10	0.9	0.43	1.17
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	10	0.9	0.43	1.17
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.9	0.02	0.89
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.9	0.02	0.89
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	10	0.89	0.24	0.96

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	10	0.89	0.24	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	10	0.89	0.24	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	10	0.89	0.24	0.96
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	10	0.89	0.05	0.88
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	10	0.89	0.05	0.88
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.88	0.03	0.88
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.88	0.03	0.88
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.88	0.03	0.88
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.88	0.03	0.88
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	10	0.84	0.04	0.85
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	10	0.84	0.04	0.85
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	10	0.84	0.15	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	10	0.84	0.15	0.77
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.83	0.07	0.86
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.83	0.07	0.86
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	10	0.82	0.11	0.85

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	10	0.82	0.11	0.85
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	10	0.81	0.13	0.87
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	10	0.81	0.13	0.87
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.8	0.05	0.79
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.8	0.05	0.79
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	10	0.73	0.02	0.72
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	10	0.73	0.02	0.72
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.69	0.13	0.74
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.69	0.13	0.74
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.69	0.13	0.74
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.69	0.13	0.74
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.69	0.13	0.74
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.69	0.13	0.74
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	10	0.69	0.06	0.72
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	10	0.69	0.06	0.72
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.68	0.01	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.68	0.01	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.68	0.01	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.68	0.01	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.68	0.01	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.68	0.01	0.68
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.67	0.01	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.67	0.01	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.67	0.01	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.67	0.01	0.67
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	10	0.62	0.05	0.66
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	10	0.62	0.05	0.66
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.62	0.01	0.62
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.62	0.01	0.62
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	10	0.58	0.01	0.59
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	10	0.58	0.01	0.59
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	10	0.57	0.18	0.48
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	10	0.57	0.18	0.48
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	10	0.56	0.11	0.52
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	10	0.56	0.11	0.52
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	10	0.56	0.11	0.52
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	10	0.56	0.11	0.52
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	10	0.56	0.11	0.52
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	10	0.56	0.11	0.52
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	10	0.53	0.05	0.55
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	10	0.53	0.05	0.55
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.53	0.04	0.52

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.53	0.04	0.52
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	10	0.53	0.08	0.55
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	10	0.53	0.08	0.55
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	10	0.5	0.13	0.46
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	10	0.5	0.13	0.46
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	0.49	0.17	0.42
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	0.49	0.17	0.42
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	0.49	0.17	0.42
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	0.49	0.17	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	10	0.48	0.23	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	10	0.48	0.23	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	10	0.48	0.23	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	10	0.48	0.23	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	10	0.48	0.23	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	10	0.48	0.23	0.42
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.45	0.02	0.45
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.45	0.02	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.45	0.01	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.45	0.01	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.45	0.01	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.45	0.01	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.45	0.01	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.45	0.01	0.44
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	10	0.43	0.08	0.44
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	10	0.43	0.08	0.44
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	10	0.43	0.08	0.44
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	10	0.43	0.08	0.44
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	10	0.42	0.03	0.41
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	10	0.42	0.03	0.41
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	10	0.42	0.03	0.41
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	10	0.42	0.03	0.41
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	10	0.42	0.03	0.41
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	10	0.42	0.03	0.41
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	10	0.41	0.07	0.41
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	10	0.41	0.07	0.41
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	10	0.41	0.07	0.41
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	10	0.41	0.07	0.41
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	10	0.41	0.01	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	10	0.41	0.01	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	10	0.41	0.01	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	10	0.41	0.01	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	10	0.41	0.01	0.4

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	10	0.41	0.01	0.4
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.4	0.01	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.4	0.01	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.4	0.01	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.4	0.01	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.4	0.01	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.4	0.01	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.4	0.01	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.4	0.01	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.4	0.01	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.4	0.01	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.4	0.01	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.4	0.01	0.4
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	10	0.4	0.1	0.36
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	10	0.4	0.1	0.36
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	10	0.4	0.1	0.36
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	10	0.4	0.1	0.36
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	10	0.38	0.03	0.38
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	10	0.38	0.03	0.38
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.37	0.0	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.37	0.0	0.37
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	10	0.33	0.02	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	10	0.33	0.02	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	10	0.33	0.02	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	10	0.33	0.02	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	10	0.33	0.02	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	10	0.33	0.02	0.34
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	0.3	0.04	0.29
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	10	0.3	0.04	0.29
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	10	0.3	0.04	0.29
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	10	0.3	0.04	0.29
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	0.3	0.04	0.29
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	10	0.3	0.04	0.29
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	10	0.3	0.04	0.29
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	10	0.3	0.04	0.29
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	10	0.29	0.05	0.29
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	10	0.29	0.01	0.29

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	10	0.29	0.01	0.29
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	10	0.29	0.01	0.29
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	10	0.29	0.01	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	10	0.29	0.01	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	10	0.29	0.01	0.29
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.28	0.07	0.29
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.28	0.07	0.29
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.28	0.07	0.29
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.28	0.07	0.29
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	10	0.27	0.06	0.3
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	10	0.27	0.06	0.3
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	10	0.27	0.06	0.3
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	10	0.27	0.06	0.3
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	10	0.27	0.06	0.3
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	10	0.27	0.06	0.3
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	10	0.27	0.06	0.3
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	10	0.27	0.01	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	10	0.27	0.01	0.27
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	10	0.27	0.01	0.26
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	10	0.27	0.01	0.26
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	10	0.27	0.02	0.26
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.27	0.0	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.27	0.0	0.27
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.26	0.02	0.25
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.26	0.02	0.25
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.26	0.02	0.25
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.26	0.02	0.25
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	10	0.25	0.06	0.27
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	10	0.25	0.06	0.27
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	10	0.25	0.06	0.27
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	10	0.25	0.06	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	10	0.24	0.05	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	10	0.24	0.05	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	10	0.24	0.05	0.26
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	10	0.23	0.04	0.24
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	10	0.23	0.04	0.24
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	10	0.22	0.03	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	10	0.22	0.03	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	10	0.22	0.03	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	10	0.22	0.03	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	10	0.22	0.03	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	10	0.22	0.03	0.21
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	10	0.22	0.03	0.22
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	10	0.22	0.03	0.22
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	10	0.22	0.03	0.22
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	10	0.22	0.03	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	0.21	0.02	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	0.21	0.02	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	0.21	0.02	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	0.21	0.02	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	0.21	0.02	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	0.21	0.02	0.21
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	10	0.2	0.06	0.18
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	10	0.2	0.06	0.18
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.2	0.07	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.2	0.07	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.2	0.07	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.2	0.07	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.2	0.07	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.2	0.07	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.2	0.07	0.2
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	10	0.2	0.05	0.19
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	10	0.2	0.05	0.19
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	10	0.2	0.05	0.19
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	10	0.2	0.05	0.19
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	10	0.2	0.05	0.19
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	10	0.2	0.05	0.19
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	10	0.2	0.05	0.19
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	10	0.2	0.02	0.2
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	10	0.19	0.03	0.18
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	10	0.19	0.03	0.18
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	10	0.19	0.03	0.18
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	10	0.19	0.03	0.18
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	10	0.19	0.03	0.18
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	10	0.19	0.03	0.18
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	10	0.18	0.04	0.18
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	10	0.18	0.04	0.18
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	10	0.18	0.04	0.18
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	10	0.18	0.04	0.18
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	10	0.18	0.04	0.18
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	10	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	10	0.18	0.04	0.18
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	10	0.18	0.04	0.18
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	10	0.18	0.04	0.18
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	10	0.18	0.08	0.15
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	10	0.18	0.08	0.15
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	10	0.17	0.02	0.18
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	10	0.17	0.02	0.18
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.15	0.01	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.15	0.01	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.15	0.01	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.15	0.01	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.15	0.01	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.15	0.01	0.15
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	10	0.15	0.02	0.15
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	10	0.14	0.01	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	10	0.14	0.01	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	10	0.14	0.01	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	10	0.14	0.01	0.14
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.14	0.01	0.14
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.14	0.01	0.14
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.14	0.03	0.13
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.14	0.03	0.13
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	10	0.13	0.01	0.13
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	10	0.13	0.01	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	10	0.13	0.0	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	10	0.13	0.0	0.13
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	10	0.12	0.01	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	10	0.12	0.01	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	10	0.12	0.01	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	10	0.12	0.01	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	10	0.12	0.01	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	10	0.12	0.01	0.12
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	10	0.12	0.01	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	10	0.12	0.01	0.12
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.57	0.02	0.56
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.57	0.02	0.56
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.5	0.03	0.48

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.5	0.03	0.48
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.26	0.05	0.27
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.26	0.05	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.26	0.05	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.26	0.05	0.27
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	9	0.25	0.01	0.25
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	9	0.25	0.01	0.25
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	9	0.16	0.02	0.17
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	9	0.16	0.02	0.17
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	9	0.16	0.02	0.17
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	9	0.16	0.02	0.17
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	8	0.26	0.06	0.27
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	8	0.26	0.06	0.27
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	8	0.26	0.06	0.27
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	8	0.26	0.06	0.27
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	8	0.24	0.02	0.24
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	8	0.24	0.02	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	8	0.24	0.02	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	8	0.24	0.02	0.24
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	8	0.21	0.01	0.2
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	8	0.21	0.01	0.2
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	8	0.21	0.01	0.2
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	8	0.21	0.01	0.2
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	8	0.21	0.01	0.2
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	8	0.21	0.01	0.2
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	8	0.16	0.01	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	8	0.16	0.01	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	8	0.16	0.01	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	8	0.16	0.01	0.16
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	8	0.14	0.02	0.14
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	8	0.14	0.02	0.14
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	8	0.14	0.02	0.14
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	8	0.14	0.02	0.14
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	8	0.14	0.02	0.14
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	8	0.14	0.02	0.14
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	8	0.14	0.02	0.14
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	8	0.14	0.02	0.14
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	8	0.12	0.01	0.12
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	8	0.12	0.01	0.12
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	8	0.12	0.01	0.12
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	8	0.12	0.01	0.12
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	8	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	8	0.12	0.01	0.12
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	7	0.92	0.16	0.99
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	7	0.92	0.16	0.99
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	7	0.53	0.66	0.11
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	7	0.12	0.01	0.12
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	7	0.12	0.01	0.12
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	6	0.59	0.21	0.68
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	6	0.59	0.21	0.68
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	6	0.24	0.02	0.24
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	6	0.24	0.02	0.24
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	6	0.2	0.02	0.2
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	6	0.2	0.02	0.2
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	6	0.2	0.02	0.2
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	6	0.2	0.02	0.2
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	6	0.16	0.06	0.12
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	6	0.16	0.06	0.12
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	6	0.16	0.06	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	6	0.16	0.06	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	6	0.16	0.06	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	6	0.16	0.06	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	6	0.12	0.02	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	6	0.12	0.02	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	6	0.12	0.02	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	6	0.12	0.02	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	6	0.12	0.02	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	6	0.12	0.02	0.12
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	5	0.62	0.27	0.72
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	5	0.62	0.27	0.72
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	5	0.45	0.17	0.53
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	5	0.45	0.17	0.53
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	5	0.19	0.05	0.2
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	5	0.19	0.05	0.2
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	5	0.13	0.01	0.14
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	5	0.13	0.01	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	5	0.13	0.01	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	5	0.13	0.01	0.14
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	5	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	5	0.12	0.01	0.12
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	5	0.12	0.01	0.12
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	5	0.12	0.01	0.12
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	5	0.11	0.0	0.11
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	5	0.11	0.0	0.11
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	5	0.11	0.0	0.11
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	5	0.11	0.0	0.11
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	5	0.11	0.0	0.11
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	5	0.11	0.0	0.11
(1,238)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	4	0.7	0.01	0.7
(2,219)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	4	0.7	0.01	0.7
(1,485)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	4	0.68	0.2	0.68
(2,420)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	4	0.68	0.2	0.68
(1,448)	1:23:A:PRO:HB3	1:25:A:SER:H	4	0.41	0.27	0.33
(2,386)	1:23:A:PRO:HB3	1:25:A:SER:H	4	0.41	0.27	0.33
(1,477)	1:14:A:ASP:HB2	1:19:A:SER:HB2	4	0.18	0.04	0.18
(2,414)	1:14:A:ASP:HB2	1:19:A:SER:HB2	4	0.18	0.04	0.18
(1,306)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.18	0.06	0.18
(2,283)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.18	0.06	0.18
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	4	0.14	0.01	0.14
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	4	0.14	0.01	0.14
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	4	0.14	0.01	0.14
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	4	0.14	0.01	0.14
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	4	0.12	0.01	0.12
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	4	0.12	0.01	0.12
(1,282)	1:11:A:TRP:HE1	1:19:A:SER:HB2	3	0.17	0.05	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,263)	1:11:A:TRP:HE1	1:19:A:SER:HB2	3	0.17	0.05	0.21
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	3	0.11	0.01	0.11
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	3	0.11	0.01	0.11
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	3	0.11	0.01	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	3	0.11	0.01	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	3	0.11	0.01	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	3	0.11	0.01	0.11
(1,344)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	3	0.11	0.0	0.11
(1,344)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	3	0.11	0.0	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	3	0.11	0.01	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	3	0.11	0.01	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	3	0.11	0.01	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	3	0.11	0.01	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	3	0.11	0.01	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	3	0.11	0.01	0.11
(2,308)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	3	0.11	0.0	0.11
(2,308)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	3	0.11	0.0	0.11
(1,514)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	2	0.68	0.13	0.68
(2,447)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	2	0.68	0.13	0.68
(1,57)	1:7:A:LEU:HA	1:7:A:LEU:HG	2	0.46	0.01	0.46
(3,4)	1:7:A:LEU:HA	1:7:A:LEU:HG	2	0.46	0.01	0.46
(1,214)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	2	0.42	0.09	0.42
(2,197)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	2	0.42	0.09	0.42
(1,69)	1:7:A:LEU:H	1:7:A:LEU:HB2	2	0.4	0.01	0.4
(3,6)	1:7:A:LEU:H	1:7:A:LEU:HB2	2	0.4	0.01	0.4
(1,215)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	2	0.36	0.15	0.36
(2,198)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	2	0.36	0.15	0.36
(1,197)	1:19:A:SER:HA	1:19:A:SER:HB3	2	0.36	0.0	0.36
(3,17)	1:19:A:SER:HA	1:19:A:SER:HB3	2	0.36	0.0	0.36
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE2	2	0.26	0.01	0.26
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE3	2	0.26	0.01	0.26
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE2	2	0.26	0.01	0.26
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE3	2	0.26	0.01	0.26
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	2	0.16	0.01	0.16
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	2	0.16	0.01	0.16
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	2	0.16	0.01	0.16
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	2	0.16	0.01	0.16
(1,508)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	2	0.14	0.02	0.14
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	2	0.14	0.02	0.14

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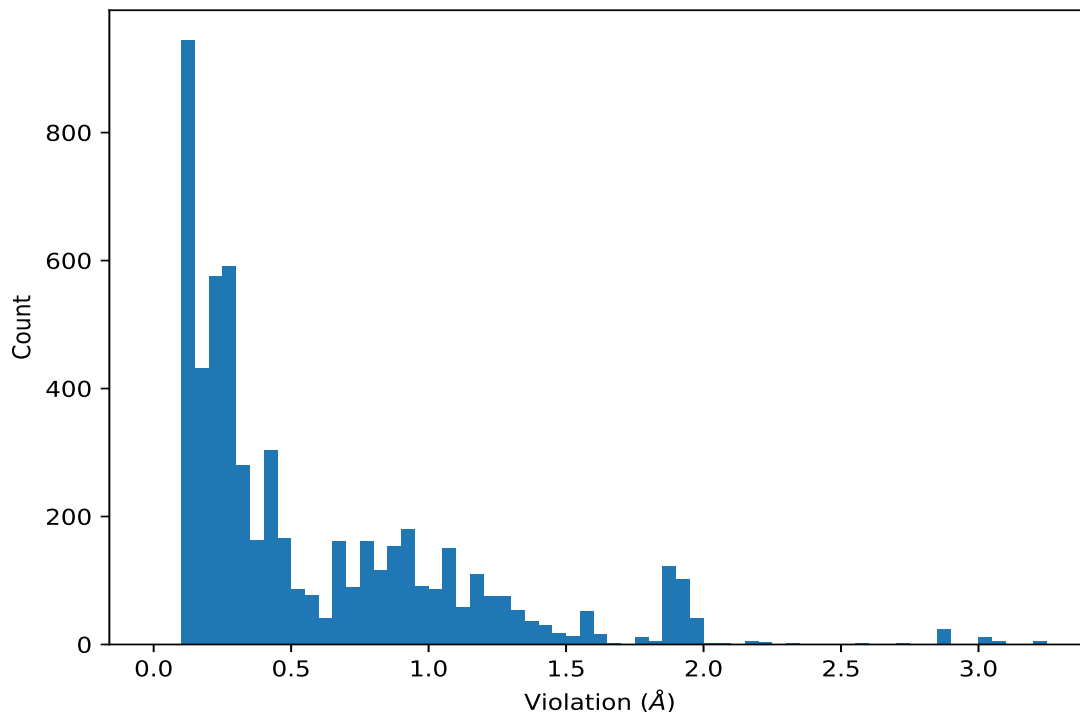
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	2	0.14	0.02	0.14
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	2	0.14	0.02	0.14
(2,441)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	2	0.14	0.02	0.14
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	2	0.14	0.02	0.14
(1,70)	1:7:A:LEU:H	1:7:A:LEU:HG	2	0.13	0.0	0.13
(3,7)	1:7:A:LEU:H	1:7:A:LEU:HG	2	0.13	0.0	0.13
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD21	2	0.12	0.02	0.12
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD22	2	0.12	0.02	0.12
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD23	2	0.12	0.02	0.12
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD21	2	0.12	0.02	0.12
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD22	2	0.12	0.02	0.12
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD23	2	0.12	0.02	0.12
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	2	0.12	0.01	0.12
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	2	0.12	0.01	0.12
(1,534)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(1,534)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(1,534)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	2	0.12	0.01	0.12
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	2	0.12	0.01	0.12
(2,463)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(2,463)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(2,463)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	2	0.12	0.0	0.12
(1,440)	1:4:A:ALA:HB1	1:6:A:ARG:H	2	0.11	0.0	0.11
(1,440)	1:4:A:ALA:HB2	1:6:A:ARG:H	2	0.11	0.0	0.11
(1,440)	1:4:A:ALA:HB3	1:6:A:ARG:H	2	0.11	0.0	0.11
(1,598)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	2	0.11	0.0	0.11
(1,598)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	2	0.11	0.0	0.11
(1,598)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	2	0.11	0.0	0.11
(2,382)	1:4:A:ALA:HB1	1:6:A:ARG:H	2	0.11	0.0	0.11
(2,382)	1:4:A:ALA:HB2	1:6:A:ARG:H	2	0.11	0.0	0.11
(2,382)	1:4:A:ALA:HB3	1:6:A:ARG:H	2	0.11	0.0	0.11
(2,507)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	2	0.11	0.0	0.11
(2,507)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	2	0.11	0.0	0.11
(2,507)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	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)
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	6	3.25
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	6	3.25
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	6	3.25
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	6	3.25
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	6	3.25
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	6	3.25
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	5	3.06
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	5	3.06
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	5	3.06
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	5	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	5	3.06
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	5	3.06
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	7	3.03
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	7	3.03
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	7	3.03
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	7	3.03
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	7	3.03
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	7	3.03
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	4	3.0
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	4	3.0
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	4	3.0
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	4	3.0
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	4	3.0
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	4	3.0
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	1	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	1	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	1	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	8	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	8	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	8	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	1	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	1	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	1	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	8	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	8	2.9
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	8	2.9
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	3	2.87
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	3	2.87
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	3	2.87
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	3	2.87
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	3	2.87
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	3	2.87
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	2	2.86
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	2	2.86
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	2	2.86
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	2	2.86
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	2	2.86
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	2	2.86
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	4	2.73
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	4	2.73
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	6	2.56
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	6	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	7	2.31
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	7	2.31
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	5	2.24
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	5	2.24
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	2	2.2
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	2	2.2
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	8	2.19
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	8	2.19
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	9	2.17
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	9	2.17
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	10	2.16
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	10	2.16
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	8	2.09
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	8	2.09
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	1	2.01
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	1	2.01
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	8	1.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	8	1.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	8	1.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	8	1.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	8	1.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	8	1.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	8	1.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	8	1.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	8	1.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	8	1.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	8	1.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	8	1.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	8	1.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	8	1.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	8	1.97
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	8	1.97
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	8	1.97
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	8	1.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	6	1.96
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	6	1.96
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	6	1.96
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	6	1.96
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	6	1.96
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	6	1.96
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	6	1.96
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	6	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	6	1.96
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	10	1.96
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	10	1.96
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	10	1.96
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	6	1.96
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	6	1.96
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	6	1.96
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	6	1.96
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	6	1.96
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	6	1.96
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	6	1.96
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	6	1.96
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	6	1.96
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	10	1.96
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	10	1.96
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	10	1.96
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	5	1.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	5	1.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	5	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	5	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	5	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	5	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	5	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	5	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	5	1.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	7	1.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	7	1.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	7	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	7	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	7	1.95
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	7	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	7	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	7	1.95
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	7	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	5	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	5	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	5	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	5	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	5	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	5	1.95
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	5	1.95
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	5	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	5	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	7	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	7	1.95
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	7	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	7	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	7	1.95
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	7	1.95
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	7	1.95
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	7	1.95
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	7	1.95
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	9	1.94
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	9	1.94
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	9	1.94
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	9	1.94
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	9	1.94
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	9	1.94
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	2	1.92
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	2	1.92
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	2	1.92
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	2	1.92
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	2	1.92
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	2	1.92
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	2	1.92
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	2	1.92
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	2	1.92
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	1	1.92
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	1	1.92
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	1	1.92
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	3	1.92
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	3	1.92
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	3	1.92
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	8	1.92
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	8	1.92
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	8	1.92
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	2	1.92
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	2	1.92
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	2	1.92
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	2	1.92
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	2	1.92
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	2	1.92
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	2	1.92
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	2	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	2	1.92
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	1	1.92
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	1	1.92
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	1	1.92
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	3	1.92
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	3	1.92
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	3	1.92
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	8	1.92
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	8	1.92
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	8	1.92
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	2	1.91
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	2	1.91
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	2	1.91
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	5	1.91
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	5	1.91
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	5	1.91
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	6	1.91
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	6	1.91
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	6	1.91
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	7	1.91
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	7	1.91
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	7	1.91
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	2	1.91
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	2	1.91
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	2	1.91
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	5	1.91
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	5	1.91
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	5	1.91
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	6	1.91
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	6	1.91
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	6	1.91
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	7	1.91
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	7	1.91
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	7	1.91
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	3	1.9
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	3	1.9
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	3	1.9
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	3	1.9
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	3	1.9
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	3	1.9
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	3	1.9
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	3	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	3	1.9
(3,68)	1:5:A:VAL:HG11	1:8:A:TYR:HA	4	1.9
(3,68)	1:5:A:VAL:HG12	1:8:A:TYR:HA	4	1.9
(3,68)	1:5:A:VAL:HG13	1:8:A:TYR:HA	4	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	1.9
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	1.9
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	3	1.9
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	3	1.9
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	3	1.9
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	3	1.9
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	3	1.9
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	3	1.9
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	3	1.9
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	3	1.9
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	3	1.9
(1,519)	1:5:A:VAL:HG11	1:8:A:TYR:HA	4	1.9
(1,519)	1:5:A:VAL:HG12	1:8:A:TYR:HA	4	1.9
(1,519)	1:5:A:VAL:HG13	1:8:A:TYR:HA	4	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	1.9
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	1.9
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	7	1.89
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	7	1.89
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	7	1.89
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	1.89
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	1.89
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	7	1.89
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	7	1.89
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	7	1.89
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	1.89
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	1.89
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	2	1.88
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	2	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	2	1.88
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	8	1.88
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	8	1.88
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	8	1.88
(3,38)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.88
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	2	1.88
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	2	1.88
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	2	1.88
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	8	1.88
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	8	1.88
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	8	1.88
(1,352)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	1.88
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	4	1.87
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	4	1.87
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	4	1.87
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	4	1.87
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	4	1.87
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	4	1.87
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	4	1.87
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	4	1.87
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	4	1.87
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	6	1.87
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	6	1.87
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	6	1.87
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	4	1.87
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	4	1.87
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	4	1.87
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	4	1.87
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	4	1.87
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	4	1.87
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	4	1.87
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	4	1.87
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	4	1.87
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	6	1.87
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	6	1.87
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	6	1.87
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	1	1.86
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	1	1.86
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	1	1.86
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	1	1.86
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	1	1.86
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	1	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	1	1.86
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	1	1.86
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	1	1.86
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	3	1.86
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	3	1.86
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	3	1.86
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	4	1.86
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	4	1.86
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	4	1.86
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	1	1.86
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	1	1.86
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	1	1.86
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	1	1.86
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	1	1.86
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	1	1.86
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	1	1.86
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	1	1.86
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	1	1.86
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	3	1.86
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	3	1.86
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	3	1.86
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	4	1.86
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	4	1.86
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	4	1.86
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	5	1.85
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	5	1.85
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	5	1.85
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	5	1.85
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	5	1.85
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	5	1.85
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	1	1.81
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	1	1.81
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	1	1.81
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	1	1.81
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	1	1.81
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	1	1.81
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	10	1.77
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	10	1.77
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	10	1.77
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	10	1.77
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	10	1.77
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	10	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,74)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	9	1.75
(3,74)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	9	1.75
(3,74)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	9	1.75
(1,542)	1:5:A:VAL:HG21	1:6:A:ARG:HB3	9	1.75
(1,542)	1:5:A:VAL:HG22	1:6:A:ARG:HB3	9	1.75
(1,542)	1:5:A:VAL:HG23	1:6:A:ARG:HB3	9	1.75
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	2	1.68
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	2	1.68
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	3	1.64
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	3	1.64
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	1	1.6
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	4	1.6
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	8	1.6
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	9	1.6
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	7	1.6
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	7	1.6
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	7	1.6
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	7	1.6
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	7	1.6
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	7	1.6
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	1	1.6
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	4	1.6
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	8	1.6
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	9	1.6
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	6	1.59
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	6	1.59
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	6	1.59
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	2	1.59
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	5	1.59
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	7	1.59
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	10	1.59
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	9	1.59
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	6	1.59
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	6	1.59
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	6	1.59
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	2	1.59
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	5	1.59
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	7	1.59
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	10	1.59
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	9	1.59
(3,48)	1:1:A:GLU:HB3	1:4:A:ALA:H	3	1.58
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	3	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	7	1.58
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	10	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	1	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	2	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	3	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	4	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	6	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	8	1.58
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	9	1.58
(1,399)	1:1:A:GLU:HB3	1:4:A:ALA:H	3	1.58
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	3	1.58
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	7	1.58
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	10	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	1	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	2	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	3	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	4	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	6	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	8	1.58
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	9	1.58
(3,46)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	6	1.57
(3,44)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	5	1.57
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	5	1.57
(1,384)	1:11:A:TRP:HE3	1:11:A:TRP:HH2	6	1.57
(1,382)	1:11:A:TRP:HD1	1:11:A:TRP:HZ2	5	1.57
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	5	1.57
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	4	1.56
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	4	1.56
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	9	1.55
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	9	1.55
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	9	1.55
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	9	1.55
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	9	1.55
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	9	1.55
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	2	1.53
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	5	1.53
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	5	1.53
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	2	1.53
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	8	1.52
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	8	1.52
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	3	1.51
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	3	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	1	1.5
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	9	1.5
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	10	1.5
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	9	1.5
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	10	1.5
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	1	1.5
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	5	1.49
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	5	1.49
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	5	1.49
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	5	1.49
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	5	1.49
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	5	1.49
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	8	1.48
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	8	1.48
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	7	1.47
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	4	1.47
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	4	1.47
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	7	1.47
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	9	1.46
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	9	1.46
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	9	1.46
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	9	1.46
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	9	1.46
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	9	1.46
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	1	1.45
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	1	1.45
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	1	1.45
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	4	1.45
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	4	1.45
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	4	1.45
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	1	1.45
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	1	1.45
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	1	1.45
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	4	1.45
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	4	1.45
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	4	1.45
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	2	1.44
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	2	1.44
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	2	1.44
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	2	1.44
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	2	1.44
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	2	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	4	1.43
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	4	1.43
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	7	1.42
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	7	1.42
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	7	1.42
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	7	1.42
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	7	1.42
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	7	1.42
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	7	1.41
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	8	1.41
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	8	1.41
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	7	1.41
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	3	1.39
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	3	1.39
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	3	1.39
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	8	1.39
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	8	1.39
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	8	1.39
(3,83)	1:12:A:LEU:HD11	1:16:A:GLY:H	10	1.39
(3,83)	1:12:A:LEU:HD12	1:16:A:GLY:H	10	1.39
(3,83)	1:12:A:LEU:HD13	1:16:A:GLY:H	10	1.39
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	6	1.39
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	1	1.39
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	3	1.39
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	3	1.39
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	3	1.39
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	8	1.39
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	8	1.39
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	8	1.39
(1,565)	1:12:A:LEU:HD11	1:16:A:GLY:H	10	1.39
(1,565)	1:12:A:LEU:HD12	1:16:A:GLY:H	10	1.39
(1,565)	1:12:A:LEU:HD13	1:16:A:GLY:H	10	1.39
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	6	1.39
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	1	1.39
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	10	1.38
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	6	1.38
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	8	1.38
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	6	1.38
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	10	1.38
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	8	1.38
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	5	1.37
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	5	1.37
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	4	1.37
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	6	1.35
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	5	1.35
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	6	1.35
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	5	1.35
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	2	1.34
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	2	1.34
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	2	1.34
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	3	1.34
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	7	1.34
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	2	1.34
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	2	1.34
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	2	1.34
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	3	1.34
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	7	1.34
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	1	1.32
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	1	1.32
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	1	1.32
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	3	1.32
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	3	1.32
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	4	1.32
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	4	1.32
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	5	1.32
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	5	1.32
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	9	1.32
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	1	1.32
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	1	1.32
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	1	1.32
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	3	1.32
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	3	1.32
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	4	1.32
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	4	1.32
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	5	1.32
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	5	1.32
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	9	1.32
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	4	1.31
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	4	1.31
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	4	1.31
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	4	1.31
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	4	1.31
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	4	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	7	1.31
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	7	1.31
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	6	1.31
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	6	1.31
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	7	1.31
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	7	1.31
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	6	1.31
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	6	1.31
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	4	1.31
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	4	1.31
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	4	1.31
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	4	1.31
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	4	1.31
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	4	1.31
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	6	1.3
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	6	1.3
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	6	1.3
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	6	1.3
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	10	1.29
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	10	1.29
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	10	1.29
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	1	1.29
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	1	1.29
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	1	1.29
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	1	1.29
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	1	1.29
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	1	1.29
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	2	1.29
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	2	1.29
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	2	1.29
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	2	1.29
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	2	1.29
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	2	1.29
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	8	1.29
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	8	1.29
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	1	1.29
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	10	1.29
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	10	1.29
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	10	1.29
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	8	1.29
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	8	1.29
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	1	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	1	1.29
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	1	1.29
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	1	1.29
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	1	1.29
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	1	1.29
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	1	1.29
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	2	1.29
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	2	1.29
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	2	1.29
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	2	1.29
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	2	1.29
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	2	1.29
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	9	1.28
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	9	1.28
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	9	1.28
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	1	1.28
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	1	1.28
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	7	1.28
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	10	1.28
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	9	1.28
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	9	1.28
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	9	1.28
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	1	1.28
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	1	1.28
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	7	1.28
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	10	1.28
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	2	1.26
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	2	1.26
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	2	1.26
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	4	1.26
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	4	1.26
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	4	1.26
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	1	1.26
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	2	1.26
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	2	1.26
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	2	1.26
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	4	1.26
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	4	1.26
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	4	1.26
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	1	1.26
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	9	1.25
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	9	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	9	1.25
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	1.25
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	1.25
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	9	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	9	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	9	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	1.25
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	1.25
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	7	1.24
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	7	1.24
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	7	1.24
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	7	1.24
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	7	1.24
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	7	1.24
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	7	1.24
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	7	1.24
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	7	1.24
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	7	1.24
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	7	1.24
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	7	1.24
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	3	1.23
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	3	1.23
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	3	1.23
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	3	1.23
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	3	1.23
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	3	1.23
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	8	1.22
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	2	1.22
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	4	1.22
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	5	1.22
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	7	1.22
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	3	1.22
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	3	1.22
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	3	1.22
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	3	1.22
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	3	1.22
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	3	1.22
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	8	1.22
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	2	1.22
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	4	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	5	1.22
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	7	1.22
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	3	1.22
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	3	1.22
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	3	1.22
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	3	1.22
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	3	1.22
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	3	1.22
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	1	1.21
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	1	1.21
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	1	1.21
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	3	1.21
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	3	1.21
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	3	1.21
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	3	1.21
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	8	1.21
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	10	1.21
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	10	1.21
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	10	1.21
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	6	1.21
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	6	1.21
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	6	1.21
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	6	1.21
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	6	1.21
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	6	1.21
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	6	1.21
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	1	1.21
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	1	1.21
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	1	1.21
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	3	1.21
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	3	1.21
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	3	1.21
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	3	1.21
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	8	1.21
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	10	1.21
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	10	1.21
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	10	1.21
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	6	1.21
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	6	1.21
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	6	1.21
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	6	1.21
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	6	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	6	1.21
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	6	1.21
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	7	1.2
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	10	1.2
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	9	1.2
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	1.2
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	10	1.2
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	10	1.2
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	7	1.2
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	10	1.2
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	9	1.2
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	10	1.2
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	10	1.2
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	10	1.2
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	8	1.19
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	8	1.19
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	8	1.19
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	1	1.19
(3,86)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	6	1.19
(2,488)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	9	1.19
(2,488)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	9	1.19
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	8	1.19
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	8	1.19
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	8	1.19
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	1	1.19
(1,574)	1:11:A:TRP:HB3	1:11:A:TRP:HD1	6	1.19
(1,573)	1:8:A:TYR:HD1	1:11:A:TRP:HB2	9	1.19
(1,573)	1:8:A:TYR:HD2	1:11:A:TRP:HB2	9	1.19
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	4	1.18
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	4	1.18
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	4	1.18
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	5	1.18
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	5	1.18
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	5	1.18
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	7	1.18
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	7	1.18
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	7	1.18
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	5	1.18
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	5	1.18
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	5	1.18
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	7	1.18
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	7	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	7	1.18
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	5	1.18
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	4	1.18
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	4	1.18
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	4	1.18
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	5	1.18
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	5	1.18
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	5	1.18
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	7	1.18
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	7	1.18
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	7	1.18
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	5	1.18
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	5	1.18
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	5	1.18
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	7	1.18
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	7	1.18
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	7	1.18
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	5	1.18
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	2	1.17
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	2	1.17
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	2	1.17
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	8	1.17
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	8	1.17
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	8	1.17
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	2	1.17
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	2	1.17
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	2	1.17
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	8	1.17
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	8	1.17
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	8	1.17
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	6	1.16
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	6	1.16
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	6	1.16
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	9	1.16
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	4	1.16
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	4	1.16
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	4	1.16
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	5	1.16
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	5	1.16
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	5	1.16
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	5	1.16
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	5	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	5	1.16
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	8	1.16
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	8	1.16
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	8	1.16
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	8	1.16
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	8	1.16
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	8	1.16
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	2	1.16
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	6	1.16
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	6	1.16
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	6	1.16
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	9	1.16
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	2	1.16
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	4	1.16
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	4	1.16
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	4	1.16
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	5	1.16
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	5	1.16
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	5	1.16
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	5	1.16
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	5	1.16
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	5	1.16
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	8	1.16
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	8	1.16
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	8	1.16
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	8	1.16
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	8	1.16
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	8	1.16
(3,90)	1:5:A:VAL:HG11	1:9:A:ILE:HB	6	1.14
(3,90)	1:5:A:VAL:HG12	1:9:A:ILE:HB	6	1.14
(3,90)	1:5:A:VAL:HG13	1:9:A:ILE:HB	6	1.14
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	5	1.14
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	1.14
(1,591)	1:5:A:VAL:HG11	1:9:A:ILE:HB	6	1.14
(1,591)	1:5:A:VAL:HG12	1:9:A:ILE:HB	6	1.14
(1,591)	1:5:A:VAL:HG13	1:9:A:ILE:HB	6	1.14
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	5	1.14
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	10	1.14
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	10	1.13
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	10	1.13
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	10	1.13
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	10	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	10	1.13
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	10	1.13
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	10	1.13
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	10	1.13
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	10	1.13
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	10	1.13
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	10	1.13
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	10	1.13
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	9	1.11
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	9	1.11
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	9	1.11
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	1.11
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	1.11
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	1.11
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	2	1.11
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	2	1.11
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	9	1.11
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	9	1.11
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	9	1.11
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	2	1.11
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	2	1.11
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	10	1.11
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	10	1.11
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	10	1.11
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	1	1.1
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	1	1.1
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	1	1.1
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	5	1.1
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	1.1
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	8	1.1
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	4	1.1
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	4	1.1
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	3	1.1
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	4	1.1
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	1	1.1
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	1	1.1
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	1	1.1
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	7	1.1
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	8	1.1
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	5	1.1
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	4	1.1
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	4	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	3	1.1
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	4	1.1
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	9	1.09
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	9	1.09
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	9	1.09
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	1.09
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	5	1.09
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	6	1.09
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	8	1.09
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	8	1.09
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	5	1.09
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	6	1.09
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	9	1.09
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	9	1.09
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	9	1.09
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	10	1.09
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	8	1.09
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	8	1.09
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	4	1.08
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	4	1.08
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	4	1.08
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	5	1.08
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	5	1.08
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	5	1.08
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	4	1.08
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	2	1.08
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	9	1.08
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	9	1.08
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	9	1.08
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	9	1.08
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	9	1.08
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	9	1.08
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	9	1.08
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	9	1.08
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	9	1.08
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	9	1.08
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	9	1.08
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	4	1.08
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	4	1.08
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	4	1.08
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	5	1.08
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	5	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	5	1.08
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	4	1.08
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	2	1.08
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	9	1.08
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	9	1.08
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	9	1.08
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	9	1.08
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	9	1.08
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	9	1.08
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	9	1.08
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	9	1.08
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	9	1.08
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	7	1.07
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	7	1.07
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	7	1.07
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	1	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	1	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	1	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	1	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	2	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	2	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	2	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	3	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	3	1.07
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	3	1.07
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	7	1.07
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	7	1.07
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	7	1.07
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	7	1.07
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	7	1.07
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	1	1.07
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	7	1.07
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	7	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	1	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	1	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	1	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	2	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	2	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	2	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	3	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	3	1.07
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	3	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	4	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	4	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	4	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	5	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	5	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	5	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	6	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	6	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	6	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	7	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	7	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	7	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD11	8	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD12	8	1.06
(3,9)	1:9:A:ILE:HA	1:9:A:ILE:HD13	8	1.06
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	3	1.06
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	3	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	4	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	4	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	4	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	5	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	5	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	5	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	6	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	6	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	6	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	7	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	7	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	7	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD11	8	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD12	8	1.06
(1,87)	1:9:A:ILE:HA	1:9:A:ILE:HD13	8	1.06
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	8	1.05
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	8	1.05
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	8	1.05
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	9	1.05
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	2	1.05
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	3	1.05
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	9	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	5	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	5	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	5	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	7	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	7	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	7	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	8	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	8	1.05
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	8	1.05
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	4	1.05
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	5	1.05
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	8	1.05
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	8	1.05
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	8	1.05
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	4	1.05
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	9	1.05
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	2	1.05
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	3	1.05
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	9	1.05
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	5	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	5	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	5	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	5	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	7	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	7	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	7	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	8	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	8	1.05
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	8	1.05
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	10	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	3	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	3	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	3	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	6	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	6	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	6	1.04
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	3	1.04
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	3	1.04
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	5	1.04
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	5	1.04
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	1	1.04
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	2	1.04
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	7	1.04
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	10	1.04
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	3	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	3	1.04
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	5	1.04
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	5	1.04
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	1	1.04
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	2	1.04
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	7	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	3	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	3	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	3	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	6	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	6	1.04
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	6	1.04
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	2	1.03
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	2	1.03
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	2	1.03
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	4	1.03
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	4	1.03
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	4	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	2	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	2	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	2	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	4	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	4	1.03
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	4	1.03
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	7	1.02
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD11	1	1.02
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD12	1	1.02
(3,5)	1:7:A:LEU:HA	1:7:A:LEU:HD13	1	1.02
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	6	1.02
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	6	1.02
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	9	1.02
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	7	1.02
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	6	1.02
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	6	1.02
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	9	1.02
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD11	1	1.02
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD12	1	1.02
(1,59)	1:7:A:LEU:HA	1:7:A:LEU:HD13	1	1.02
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	1	1.01
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	4	1.01
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	6	1.01
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	8	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	10	1.01
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	10	1.01
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	1	1.01
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	4	1.01
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	10	1.01
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	10	1.01
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	6	1.01
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	8	1.01
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	6	1.0
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	2	1.0
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	2	1.0
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	2	1.0
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	1.0
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	1.0
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	1.0
(3,54)	1:5:A:VAL:HB	1:6:A:ARG:H	5	1.0
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	3	1.0
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	3	1.0
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	6	1.0
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	2	1.0
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	2	1.0
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	2	1.0
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	1.0
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	1.0
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	1.0
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	3	1.0
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	3	1.0
(1,428)	1:5:A:VAL:HB	1:6:A:ARG:H	5	1.0
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	10	0.99
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	9	0.99
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	9	0.99
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	9	0.99
(2,424)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	9	0.99
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	10	0.99
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	9	0.99
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	9	0.99
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	9	0.99
(1,489)	1:21:A:ARG:HB2	1:22:A:PRO:HD3	9	0.99
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	2	0.98
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	7	0.98
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	8	0.98
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	8	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	8	0.98
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	7	0.98
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	7	0.98
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	7	0.98
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	2	0.98
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	7	0.98
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	7	0.98
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	7	0.98
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	7	0.98
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	8	0.98
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	8	0.98
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	8	0.98
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	5	0.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	9	0.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	9	0.97
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	9	0.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	9	0.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	9	0.97
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	9	0.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	9	0.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	9	0.97
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	9	0.97
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	3	0.97
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	3	0.97
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	3	0.97
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	1	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	2	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	2	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	5	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	5	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	9	0.97
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	9	0.97
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	3	0.97
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	6	0.97
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	5	0.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	9	0.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	9	0.97
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	9	0.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	9	0.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	9	0.97
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	9	0.97
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	9	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	9	0.97
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	9	0.97
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	3	0.97
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	3	0.97
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	3	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	2	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	2	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	5	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	5	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	9	0.97
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	9	0.97
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	1	0.97
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	3	0.97
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	6	0.97
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	3	0.96
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.96
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.96
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	1	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	1	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	4	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	4	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	7	0.96
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	7	0.96
(2,261)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	10	0.96
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	3	0.96
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	10	0.96
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	10	0.96
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	10	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	1	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	1	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	4	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	4	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	7	0.96
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	7	0.96
(1,280)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	10	0.96
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	2	0.95
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	2	0.95
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	10	0.94
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	10	0.94
(3,81)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	10	0.94
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	10	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	10	0.94
(3,81)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	10	0.94
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	10	0.94
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	10	0.94
(3,81)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	10	0.94
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	10	0.94
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	8	0.94
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	4	0.94
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	9	0.94
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	1	0.94
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	1	0.94
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	1	0.94
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	8	0.94
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	8	0.94
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	1	0.94
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	1	0.94
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	6	0.94
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	6	0.94
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	1	0.94
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	1	0.94
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	1	0.94
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD21	10	0.94
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD22	10	0.94
(1,559)	1:4:A:ALA:HB1	1:7:A:LEU:HD23	10	0.94
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD21	10	0.94
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD22	10	0.94
(1,559)	1:4:A:ALA:HB2	1:7:A:LEU:HD23	10	0.94
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD21	10	0.94
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD22	10	0.94
(1,559)	1:4:A:ALA:HB3	1:7:A:LEU:HD23	10	0.94
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	8	0.94
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	8	0.94
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	10	0.94
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	8	0.94
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	4	0.94
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	9	0.94
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	1	0.94
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	1	0.94
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	6	0.94
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	6	0.94
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	2	0.93
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	8	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	1	0.93
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	1	0.93
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	1	0.93
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	1	0.93
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	1	0.93
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	1	0.93
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	1	0.93
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	1	0.93
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	1	0.93
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	2	0.93
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	2	0.93
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	2	0.93
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	3	0.93
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	3	0.93
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	3	0.93
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	5	0.93
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	5	0.93
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	5	0.93
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	6	0.93
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	6	0.93
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	6	0.93
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	8	0.93
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	6	0.93
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.93
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	2	0.93
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	8	0.93
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	2	0.93
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	2	0.93
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	2	0.93
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	3	0.93
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	3	0.93
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	3	0.93
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	5	0.93
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	5	0.93
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	5	0.93
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	6	0.93
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	6	0.93
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	6	0.93
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	1	0.93
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	1	0.93
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	1	0.93
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	1	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	1	0.93
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	1	0.93
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	1	0.93
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	1	0.93
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	1	0.93
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	8	0.93
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	6	0.93
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.93
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	4	0.92
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	3	0.92
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	8	0.92
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	1	0.92
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	1	0.92
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	1	0.92
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	1	0.92
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	1	0.92
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	1	0.92
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	4	0.92
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	4	0.92
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	4	0.92
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	4	0.92
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.92
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	4	0.92
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	4	0.92
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	4	0.92
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	4	0.92
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	3	0.92
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	8	0.92
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	4	0.92
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	1	0.92
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	1	0.92
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	1	0.92
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	1	0.92
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	1	0.92
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	1	0.92
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.92
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	10	0.91
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	5	0.91
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	3	0.91
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	4	0.91
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	5	0.91
(2,479)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	8	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,479)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	8	0.91
(2,479)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	8	0.91
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	5	0.91
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	5	0.91
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.91
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.91
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	10	0.91
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	3	0.91
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	4	0.91
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	5	0.91
(1,561)	1:9:A:ILE:HG21	1:13:A:LYS:HG2	8	0.91
(1,561)	1:9:A:ILE:HG22	1:13:A:LYS:HG2	8	0.91
(1,561)	1:9:A:ILE:HG23	1:13:A:LYS:HG2	8	0.91
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	5	0.91
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	5	0.91
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	5	0.91
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	8	0.91
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	8	0.91
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	9	0.9
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	9	0.9
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	9	0.9
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	9	0.9
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	9	0.9
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	9	0.9
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	9	0.9
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	9	0.9
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	9	0.9
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	9	0.9
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	9	0.9
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	7	0.9
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	9	0.9
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	9	0.9
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.9
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	9	0.9
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	9	0.9
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	9	0.9
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	9	0.9
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	9	0.9
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	9	0.9
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	9	0.9
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	9	0.9
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	9	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	9	0.9
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	9	0.9
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	7	0.9
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	9	0.9
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	9	0.9
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.9
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	3	0.89
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	10	0.89
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	5	0.89
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	2	0.89
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	10	0.89
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	1	0.89
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	1	0.89
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.89
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	3	0.89
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.89
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.89
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	3	0.89
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	2	0.89
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	10	0.89
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	5	0.89
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	10	0.89
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	1	0.89
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	1	0.89
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	2	0.89
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	3	0.89
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.89
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.89
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	5	0.88
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	4	0.88
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	4	0.88
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	4	0.88
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	3	0.88
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	3	0.88
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	3	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	3	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	3	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	3	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	3	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	3	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	3	0.88
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.88
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.88
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.88
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.88
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	6	0.88
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	7	0.88
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	2	0.88
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	7	0.88
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	10	0.88
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	7	0.88
(2,420)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	6	0.88
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	1	0.88
(2,138)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.88
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	5	0.88
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	10	0.88
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	7	0.88
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	4	0.88
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	4	0.88
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	4	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	3	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	3	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	3	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	3	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	3	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	3	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	3	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	3	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	3	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	10	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	10	0.88
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	10	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	10	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	10	0.88
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	10	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	10	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	10	0.88
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	10	0.88
(1,485)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	6	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	6	0.88
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	7	0.88
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	2	0.88
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	7	0.88
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	1	0.88
(1,152)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.88
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	6	0.87
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	6	0.87
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	6	0.87
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	4	0.87
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	4	0.87
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	4	0.87
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	4	0.87
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	4	0.87
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	4	0.87
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	4	0.87
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	4	0.87
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	4	0.87
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	2	0.87
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	3	0.87
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	5	0.87
(3,52)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.87
(2,420)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	1	0.87
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	9	0.87
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	4	0.87
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	4	0.87
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	6	0.87
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	6	0.87
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	6	0.87
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	4	0.87
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	4	0.87
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	4	0.87
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	4	0.87
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	4	0.87
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	4	0.87
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	4	0.87
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	4	0.87
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	4	0.87
(1,485)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	1	0.87
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	2	0.87
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	3	0.87
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	5	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,418)	1:21:A:ARG:H	1:22:A:PRO:HD2	10	0.87
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	9	0.87
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	4	0.87
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	4	0.87
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	9	0.86
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.86
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.86
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.86
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	6	0.86
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	7	0.86
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	9	0.86
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	9	0.86
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	7	0.86
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	1	0.86
(2,386)	1:23:A:PRO:HB3	1:25:A:SER:H	8	0.86
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	2	0.86
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	2	0.86
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	7	0.86
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	7	0.86
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	1	0.86
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	9	0.86
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	2	0.86
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	2	0.86
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	2	0.86
(1,448)	1:23:A:PRO:HB3	1:25:A:SER:H	8	0.86
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	6	0.86
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	7	0.86
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	9	0.86
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	9	0.86
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	2	0.86
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	2	0.86
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	7	0.86
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	7	0.86
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	7	0.86
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	1	0.85
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	2	0.85
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	4	0.85
(3,87)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	10	0.85
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	7	0.85
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	7	0.85
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	7	0.85
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	2	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	2	0.85
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	2	0.85
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	2	0.85
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	2	0.85
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	2	0.85
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	2	0.85
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	2	0.85
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	2	0.85
(3,57)	1:7:A:LEU:HB2	1:10:A:GLN:H	8	0.85
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	4	0.85
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	8	0.85
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.85
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	1	0.85
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	3	0.85
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	3	0.85
(2,276)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.85
(2,276)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.85
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	1	0.85
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	2	0.85
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	4	0.85
(1,575)	1:8:A:TYR:HB3	1:11:A:TRP:HE3	10	0.85
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	7	0.85
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	7	0.85
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	7	0.85
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	2	0.85
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	2	0.85
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	2	0.85
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	2	0.85
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	2	0.85
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	2	0.85
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	2	0.85
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	2	0.85
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	2	0.85
(1,435)	1:7:A:LEU:HB2	1:10:A:GLN:H	8	0.85
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	4	0.85
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	8	0.85
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	1	0.85
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	3	0.85
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	3	0.85
(1,299)	1:8:A:TYR:HD1	1:24:A:PRO:HD3	10	0.85
(1,299)	1:8:A:TYR:HD2	1:24:A:PRO:HD3	10	0.85
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	10	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	7	0.84
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	3	0.84
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	0.84
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	0.84
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	6	0.84
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	8	0.84
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	5	0.84
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	5	0.84
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	7	0.84
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	5	0.84
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	3	0.84
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	5	0.84
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	0.84
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	0.84
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	6	0.84
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	8	0.84
(3,89)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	6	0.83
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	6	0.83
(2,305)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	7	0.83
(1,584)	1:8:A:TYR:HB3	1:24:A:PRO:HG3	6	0.83
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	6	0.83
(1,341)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	7	0.83
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	1	0.82
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	1	0.82
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	1	0.82
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	6	0.82
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	7	0.82
(2,447)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	10	0.82
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	7	0.82
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	1	0.82
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	1	0.82
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	1	0.82
(1,514)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	10	0.82
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	6	0.82
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	5	0.81
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	5	0.81
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	5	0.81
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	2	0.81
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	9	0.81
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	9	0.81
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	5	0.81
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	5	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	5	0.81
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	2	0.81
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	9	0.81
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	9	0.81
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	6	0.8
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	6	0.8
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	6	0.8
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	5	0.8
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	5	0.8
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	5	0.8
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	5	0.8
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	5	0.8
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	5	0.8
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	6	0.8
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	6	0.8
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	6	0.8
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	6	0.8
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	6	0.8
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	5	0.8
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	5	0.8
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	5	0.8
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	5	0.8
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	5	0.8
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	5	0.8
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	5	0.79
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	5	0.79
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	5	0.79
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	10	0.79
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	10	0.79
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	2	0.79
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	3	0.79
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	4	0.79
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	5	0.79
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	5	0.79
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	5	0.79
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	10	0.79
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	10	0.79
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	2	0.79
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	3	0.79
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	4	0.79
(3,78)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	3	0.78
(3,78)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	3	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,78)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	3	0.78
(3,42)	1:11:A:TRP:H	1:11:A:TRP:HD1	1	0.78
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	9	0.78
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	9	0.78
(1,554)	1:7:A:LEU:HD21	1:24:A:PRO:HB2	3	0.78
(1,554)	1:7:A:LEU:HD22	1:24:A:PRO:HB2	3	0.78
(1,554)	1:7:A:LEU:HD23	1:24:A:PRO:HB2	3	0.78
(1,371)	1:11:A:TRP:H	1:11:A:TRP:HD1	1	0.78
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	9	0.78
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	9	0.78
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	4	0.77
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	4	0.77
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	4	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	3	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	3	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	3	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	3	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	3	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	3	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	8	0.77
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	8	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	8	0.77
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	8	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	8	0.77
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	8	0.77
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	9	0.77
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	2	0.77
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	7	0.77
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	8	0.77
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	9	0.77
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	2	0.77
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	7	0.77
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	4	0.77
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	4	0.77
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	4	0.77
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	8	0.77
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	3	0.77
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	3	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	3	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	3	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	3	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	3	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	8	0.77
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	8	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	8	0.77
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	8	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	8	0.77
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	8	0.77
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	5	0.76
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	5	0.76
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	5	0.76
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	5	0.76
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	5	0.76
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	5	0.76
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	5	0.76
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	5	0.76
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	5	0.76
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	9	0.76
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	2	0.76
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	2	0.76
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	2	0.76
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	5	0.76
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	4	0.76
(2,275)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	1	0.76
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	4	0.76
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	5	0.76
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	5	0.76
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	5	0.76
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	5	0.76
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	5	0.76
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	5	0.76
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	5	0.76
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	5	0.76
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	5	0.76
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	9	0.76
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	2	0.76
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	2	0.76
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	2	0.76
(1,298)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	1	0.76
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	5	0.76
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	7	0.75
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	7	0.75
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	7	0.75
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	7	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	7	0.75
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	7	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	7	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	7	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	7	0.75
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	8	0.75
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	8	0.75
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	8	0.75
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	8	0.75
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	8	0.75
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	8	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	8	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	8	0.75
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	8	0.75
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	7	0.75
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	7	0.75
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	7	0.75
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	1	0.75
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	1	0.75
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	1	0.75
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	7	0.75
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	7	0.75
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	7	0.75
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	7	0.75
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	7	0.75
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	7	0.75
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	9	0.75
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	4	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	7	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	7	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	7	0.75
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	7	0.75
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	7	0.75
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	7	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	7	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	7	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	7	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	8	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	8	0.75
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	8	0.75
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	8	0.75
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	8	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	8	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	8	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	8	0.75
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	8	0.75
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	7	0.75
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	7	0.75
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	7	0.75
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	1	0.75
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	1	0.75
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	1	0.75
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	4	0.75
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	7	0.75
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	7	0.75
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	7	0.75
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	7	0.75
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	7	0.75
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	7	0.75
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	9	0.75
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	3	0.74
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	3	0.74
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	3	0.74
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	8	0.74
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	8	0.74
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	8	0.74
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	9	0.74
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	8	0.74
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	10	0.74
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	3	0.74
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	5	0.74
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	8	0.74
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	10	0.74
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	3	0.74
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	3	0.74
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	3	0.74
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	8	0.74
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	8	0.74
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	8	0.74
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	9	0.74
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	3	0.74
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	5	0.74
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	6	0.73
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	6	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	6	0.73
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	6	0.73
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	6	0.73
(3,76)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	6	0.73
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	6	0.73
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	6	0.73
(3,76)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	6	0.73
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	6	0.73
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	6	0.73
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	6	0.73
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	6	0.73
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	6	0.73
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	6	0.73
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	6	0.73
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	1	0.73
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG21	6	0.73
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG22	6	0.73
(1,546)	1:4:A:ALA:HB1	1:5:A:VAL:HG23	6	0.73
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG21	6	0.73
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG22	6	0.73
(1,546)	1:4:A:ALA:HB2	1:5:A:VAL:HG23	6	0.73
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG21	6	0.73
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG22	6	0.73
(1,546)	1:4:A:ALA:HB3	1:5:A:VAL:HG23	6	0.73
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	6	0.73
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	1	0.73
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	6	0.73
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	6	0.73
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	6	0.73
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	6	0.73
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	6	0.73
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	6	0.73
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	3	0.72
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	2	0.72
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	1	0.72
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	5	0.72
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	9	0.72
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	10	0.72
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	2	0.72
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	7	0.72
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	2	0.72
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	3	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	1	0.72
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	5	0.72
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	9	0.72
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	10	0.72
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	2	0.72
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	7	0.72
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	9	0.71
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	9	0.71
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	9	0.71
(2,496)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	7	0.71
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	7	0.71
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	8	0.71
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	6	0.71
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	10	0.71
(2,219)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	1	0.71
(1,585)	1:1:A:GLU:HB3	1:2:A:GLU:HG2	7	0.71
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	7	0.71
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	8	0.71
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	9	0.71
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	9	0.71
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	9	0.71
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	6	0.71
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	10	0.71
(1,238)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	1	0.71
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	2	0.7
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	2	0.7
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	2	0.7
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	2	0.7
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	2	0.7
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	2	0.7
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	4	0.7
(3,29)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	4	0.7
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	4	0.7
(3,29)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	4	0.7
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	4	0.7
(3,29)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	4	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	4	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	4	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	4	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	6	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	6	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	6	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	7	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	7	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	7	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.7
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.7
(2,219)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	2	0.7
(2,219)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	6	0.7
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	2	0.7
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	2	0.7
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	2	0.7
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	2	0.7
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	2	0.7
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	2	0.7
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE1	4	0.7
(1,317)	1:5:A:VAL:HG21	1:8:A:TYR:HE2	4	0.7
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE1	4	0.7
(1,317)	1:5:A:VAL:HG22	1:8:A:TYR:HE2	4	0.7
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE1	4	0.7
(1,317)	1:5:A:VAL:HG23	1:8:A:TYR:HE2	4	0.7
(1,238)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	2	0.7
(1,238)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	6	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	4	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	4	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	4	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	6	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	6	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	6	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	7	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	7	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	7	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.7
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.7
(3,16)	1:24:A:PRO:HA	1:25:A:SER:H	1	0.69
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	5	0.69
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	5	0.69
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	5	0.69
(2,293)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	9	0.69
(2,219)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	5	0.69
(1,324)	1:11:A:TRP:HZ2	1:23:A:PRO:HB2	9	0.69
(1,238)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:24:A:PRO:HA	1:25:A:SER:H	1	0.69
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	5	0.69
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	5	0.69
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	5	0.69
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	1	0.68
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	1	0.68
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	1	0.68
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	1	0.68
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	1	0.68
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.68
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	9	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	9	0.68
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	9	0.68
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	2	0.68
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	3	0.68
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	1	0.68
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	1	0.68
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	1	0.68
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	2	0.68
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	1	0.68
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	1	0.68
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	10	0.68
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	10	0.68
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	3	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	9	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	9	0.68
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	9	0.68
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	2	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	2	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	4	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	4	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	6	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	6	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	7	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	7	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	9	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	9	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.67
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.67
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	1	0.67
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	10	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	2	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	2	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	4	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	4	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	6	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	6	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	7	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	7	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	9	0.67
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	9	0.67
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	1	0.67
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	10	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	10	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	10	0.67
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	10	0.67
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	5	0.66
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	5	0.66
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	8	0.66
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	8	0.66
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG21	1	0.66
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG22	1	0.66
(3,2)	1:5:A:VAL:H	1:5:A:VAL:HG23	1	0.66
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	4	0.66
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	9	0.66
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	5	0.66
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	5	0.66
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	8	0.66
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	8	0.66
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	4	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	9	0.66
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG21	1	0.66
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG22	1	0.66
(1,28)	1:5:A:VAL:H	1:5:A:VAL:HG23	1	0.66
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	1	0.65
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	4	0.65
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	4	0.65
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	4	0.65
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	3	0.65
(3,23)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	3	0.65
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	2	0.65
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	1	0.65
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	4	0.65
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	4	0.65
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	4	0.65
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE1	3	0.65
(1,297)	1:8:A:TYR:HB3	1:8:A:TYR:HE2	3	0.65
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	2	0.65
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	1	0.63
(3,35)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	6	0.63
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	8	0.63
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	8	0.63
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	8	0.63
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	3	0.63
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	2	0.63
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	4	0.63
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	6	0.63
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	8	0.63
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	7	0.63
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	3	0.63
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	2	0.63
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	4	0.63
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	6	0.63
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	8	0.63
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	1	0.63
(1,336)	1:11:A:TRP:HZ2	1:21:A:ARG:HB3	6	0.63
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	8	0.63
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	8	0.63
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	8	0.63
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	7	0.63
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	1	0.62
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	3	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	5	0.62
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	7	0.62
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	1	0.62
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	3	0.62
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	5	0.62
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	7	0.62
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	5	0.61
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	10	0.61
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.61
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	9	0.61
(2,281)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	10	0.61
(2,281)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	10	0.61
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	5	0.61
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	10	0.61
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	10	0.61
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	9	0.61
(1,304)	1:8:A:TYR:HE1	1:24:A:PRO:HB3	10	0.61
(1,304)	1:8:A:TYR:HE2	1:24:A:PRO:HB3	10	0.61
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	3	0.6
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	2	0.6
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	5	0.6
(2,315)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.6
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	3	0.6
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	3	0.6
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	2	0.6
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	5	0.6
(1,353)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.6
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	3	0.6
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	7	0.59
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	9	0.59
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	4	0.59
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	6	0.59
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.59
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	8	0.59
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	7	0.59
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	9	0.59
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	4	0.59
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	6	0.59
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.59
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	8	0.59
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	7	0.58
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	3	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	1	0.58
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	8	0.58
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	7	0.58
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	3	0.58
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	1	0.58
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	8	0.58
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	6	0.57
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	8	0.57
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	5	0.57
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	1	0.57
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	3	0.57
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	10	0.57
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	7	0.57
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	6	0.57
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	8	0.57
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	5	0.57
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	1	0.57
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	3	0.57
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	10	0.57
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	7	0.57
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	4	0.56
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	4	0.56
(2,344)	1:11:A:TRP:HB2	1:12:A:LEU:H	9	0.56
(2,298)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	4	0.56
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	2	0.56
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	5	0.56
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	4	0.56
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	4	0.56
(1,390)	1:11:A:TRP:HB2	1:12:A:LEU:H	9	0.56
(1,332)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	4	0.56
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	2	0.56
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	5	0.56
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	1	0.55
(2,447)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	9	0.55
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	10	0.55
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	1	0.55
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	2	0.55
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.55
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	2	0.55
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	5	0.55
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	8	0.55
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	9	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	10	0.55
(1,514)	1:7:A:LEU:HB3	1:24:A:PRO:HB2	9	0.55
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	10	0.55
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	1	0.55
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	2	0.55
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	9	0.55
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	1	0.55
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	2	0.55
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	5	0.55
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	8	0.55
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	9	0.55
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	10	0.55
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	10	0.54
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	10	0.54
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	10	0.54
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	3	0.54
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	6	0.54
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	7	0.54
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	6	0.54
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	6	0.54
(2,48)	1:6:A:ARG:H	1:6:A:ARG:HB3	6	0.54
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	3	0.54
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	6	0.54
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	7	0.54
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	10	0.54
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	10	0.54
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	10	0.54
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	6	0.54
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	6	0.54
(1,51)	1:6:A:ARG:H	1:6:A:ARG:HB3	6	0.54
(3,56)	1:3:A:GLU:HB3	1:6:A:ARG:H	4	0.53
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	3	0.53
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	3	0.53
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	6	0.53
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	6	0.53
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	2	0.53
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	2	0.53
(2,413)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.53
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	8	0.53
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	9	0.53
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	9	0.53
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	10	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	10	0.53
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	10	0.53
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	2	0.53
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	2	0.53
(1,476)	1:16:A:GLY:HA2	1:17:A:PRO:HD2	8	0.53
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	8	0.53
(1,432)	1:3:A:GLU:HB3	1:6:A:ARG:H	4	0.53
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	3	0.53
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	3	0.53
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	6	0.53
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	6	0.53
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	9	0.53
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	9	0.53
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	10	0.53
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	10	0.53
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	10	0.53
(2,495)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	8	0.52
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	2	0.52
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	5	0.52
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	7	0.52
(1,583)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	8	0.52
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	2	0.52
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	5	0.52
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	7	0.52
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	2	0.51
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	2	0.51
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	5	0.51
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	5	0.51
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.51
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	3	0.51
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	6	0.51
(2,198)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	1	0.51
(2,197)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	6	0.51
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	9	0.51
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	3	0.51
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	6	0.51
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	2	0.51
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	2	0.51
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	5	0.51
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	5	0.51
(1,215)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	1	0.51
(1,214)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	6	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,72)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	6	0.5
(3,72)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	6	0.5
(3,72)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	6	0.5
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	1	0.5
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	3	0.5
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	9	0.5
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	1	0.5
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	1	0.5
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	3	0.5
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	9	0.5
(1,536)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	6	0.5
(1,536)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	6	0.5
(1,536)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	6	0.5
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	1	0.5
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	7	0.49
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	8	0.49
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	6	0.49
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	6	0.49
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	6	0.49
(2,420)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	5	0.49
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	3	0.49
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	3	0.49
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	4	0.49
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	4	0.49
(1,485)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	5	0.49
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	7	0.49
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	8	0.49
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	6	0.49
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	6	0.49
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	6	0.49
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	3	0.49
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	3	0.49
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	4	0.49
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	4	0.49
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	4	0.48
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	5	0.48
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	5	0.48
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	3	0.48
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	3	0.48
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	3	0.48
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	2	0.48
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	5	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	1	0.48
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	5	0.48
(2,420)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	2	0.48
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	1	0.48
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	5	0.48
(1,485)	1:21:A:ARG:HB2	1:22:A:PRO:HD2	2	0.48
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	4	0.48
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	5	0.48
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	5	0.48
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	3	0.48
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	3	0.48
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	3	0.48
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	2	0.48
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	5	0.48
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	9	0.47
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	9	0.47
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	9	0.47
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.47
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.47
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.47
(3,65)	1:6:A:ARG:HA	1:10:A:GLN:HB3	10	0.47
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	3	0.47
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	6	0.47
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	4	0.47
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	4	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	5	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	5	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	5	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	7	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	7	0.47
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	7	0.47
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	4	0.47
(2,402)	1:3:A:GLU:HA	1:6:A:ARG:HB3	4	0.47
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	5	0.47
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	5	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	9	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	9	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	9	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	10	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	10	0.47
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	10	0.47
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	4	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	1:6:A:ARG:HA	1:10:A:GLN:HB3	10	0.47
(1,464)	1:3:A:GLU:HA	1:6:A:ARG:HB3	4	0.47
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	3	0.47
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	6	0.47
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	4	0.47
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	4	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	5	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	5	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	5	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	7	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	7	0.47
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	7	0.47
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	5	0.47
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	5	0.47
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	10	0.46
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	10	0.46
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	10	0.46
(3,59)	1:7:A:LEU:HB3	1:10:A:GLN:H	2	0.46
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	7	0.46
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	8	0.46
(3,4)	1:7:A:LEU:HA	1:7:A:LEU:HG	9	0.46
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	7	0.46
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	10	0.46
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	10	0.46
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	10	0.46
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	7	0.46
(1,441)	1:7:A:LEU:HB3	1:10:A:GLN:H	2	0.46
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	7	0.46
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	8	0.46
(1,57)	1:7:A:LEU:HA	1:7:A:LEU:HG	9	0.46
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	1	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	1	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	1	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	2	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	2	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	2	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	4	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	4	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	4	0.45
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	1	0.45
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	1	0.45
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	1	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	5	0.45
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	5	0.45
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	5	0.45
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	9	0.45
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	9	0.45
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	9	0.45
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	4	0.45
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	6	0.45
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	2	0.45
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	2	0.45
(3,32)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	2	0.45
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	3	0.45
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	4	0.45
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	7	0.45
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	9	0.45
(3,4)	1:7:A:LEU:HA	1:7:A:LEU:HG	10	0.45
(2,421)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	8	0.45
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	2	0.45
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	2	0.45
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	4	0.45
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	4	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	1	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	1	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	1	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	2	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	2	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	2	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	4	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	4	0.45
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	4	0.45
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	1	0.45
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	1	0.45
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	1	0.45
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	5	0.45
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	5	0.45
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	5	0.45
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	9	0.45
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	9	0.45
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	9	0.45
(1,486)	1:16:A:GLY:HA2	1:17:A:PRO:HD3	8	0.45
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	4	0.45
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	6	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	2	0.45
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	2	0.45
(1,326)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	2	0.45
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	2	0.45
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	2	0.45
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	4	0.45
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	4	0.45
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	3	0.45
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	4	0.45
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	7	0.45
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	9	0.45
(1,57)	1:7:A:LEU:HA	1:7:A:LEU:HG	10	0.45
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	3	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	3	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	3	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	5	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	5	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	5	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	6	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	6	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	6	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	7	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	7	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	7	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG21	8	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG22	8	0.44
(3,92)	1:9:A:ILE:H	1:9:A:ILE:HG23	8	0.44
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	9	0.44
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	9	0.44
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	9	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	1	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	1	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	1	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	3	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	3	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	3	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	7	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	7	0.44
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	7	0.44
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	1	0.44
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	1	0.44
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.44
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	6	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	3	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	3	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	3	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	5	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	5	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	5	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	6	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	6	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	6	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	7	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	7	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	7	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG21	8	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG22	8	0.44
(1,600)	1:9:A:ILE:H	1:9:A:ILE:HG23	8	0.44
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	9	0.44
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	9	0.44
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	9	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	1	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	1	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	1	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	3	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	3	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	3	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	7	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	7	0.44
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	7	0.44
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	1	0.44
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	1	0.44
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	8	0.44
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	10	0.44
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	6	0.44
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	3	0.43
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	3	0.43
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	1	0.43
(3,19)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	6	0.43
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	5	0.43
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	5	0.43
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	3	0.43
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	1	0.43
(1,237)	1:22:A:PRO:HB3	1:22:A:PRO:HD2	6	0.43
(3,61)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.42
(3,61)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.42
(3,61)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	2	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	2	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	2	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	6	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	6	0.42
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	6	0.42
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	6	0.42
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	6	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	3	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	3	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	3	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	5	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	5	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	5	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	6	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	6	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	6	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	10	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	10	0.42
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	10	0.42
(2,483)	1:6:A:ARG:HB3	1:7:A:LEU:H	10	0.42
(1,566)	1:6:A:ARG:HB3	1:7:A:LEU:H	10	0.42
(1,446)	1:9:A:ILE:HD11	1:10:A:GLN:H	10	0.42
(1,446)	1:9:A:ILE:HD12	1:10:A:GLN:H	10	0.42
(1,446)	1:9:A:ILE:HD13	1:10:A:GLN:H	10	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	2	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	2	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	2	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	6	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	6	0.42
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	6	0.42
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	6	0.42
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	6	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	3	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	3	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	3	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	5	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	5	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	6	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	6	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	6	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	10	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	10	0.42
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	10	0.42
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	3	0.41
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	3	0.41
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	3	0.41
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	8	0.41
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	8	0.41
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	8	0.41
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	1	0.41
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	8	0.41
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	8	0.41
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	8	0.41
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	5	0.41
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	5	0.41
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	2	0.41
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	2	0.41
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	2	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	1	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	1	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	1	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	2	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	2	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	2	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	3	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	3	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	3	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	5	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	5	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	5	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	6	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	6	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	6	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	7	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	7	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	7	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	8	0.41
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	8	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	5	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	5	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	5	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	6	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	6	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	6	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	9	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	9	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	9	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.41
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.41
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	3	0.41
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	3	0.41
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	7	0.41
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	7	0.41
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	8	0.41
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	8	0.41
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	3	0.41
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	3	0.41
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	3	0.41
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	8	0.41
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	8	0.41
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	8	0.41
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	1	0.41
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	8	0.41
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	8	0.41
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	8	0.41
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	5	0.41
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	5	0.41
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	3	0.41
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	3	0.41
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	7	0.41
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	7	0.41
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	8	0.41
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	8	0.41
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	2	0.41
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	2	0.41
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	2	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	1	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	1	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	1	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	2	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	2	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	2	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	3	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	3	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	3	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	5	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	5	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	5	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	6	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	6	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	6	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	7	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	7	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	7	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	8	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	8	0.41
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	8	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	5	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	5	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	5	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	6	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	6	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	6	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	9	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	9	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	9	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	10	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	10	0.41
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	10	0.41
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	4	0.4
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	4	0.4
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	4	0.4
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	6	0.4
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	6	0.4
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	6	0.4
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	7	0.4
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	7	0.4
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	7	0.4
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	7	0.4
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	7	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	7	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	7	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	7	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	8	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	8	0.4
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	8	0.4
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	4	0.4
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	4	0.4
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	4	0.4
(3,6)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	1	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	1	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	1	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	2	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	2	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	2	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	3	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	3	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	3	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	7	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	7	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	7	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	8	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	8	0.4
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	8	0.4
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	4	0.4
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	4	0.4
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	4	0.4
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	6	0.4
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	6	0.4
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	6	0.4
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	7	0.4
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	7	0.4
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	7	0.4
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	2	0.4
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	7	0.4
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	7	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	7	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	7	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	8	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	8	0.4
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	8	0.4
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	4	0.4
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	4	0.4
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	4	0.4
(1,69)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	1	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	1	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	1	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	2	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	2	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	2	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	3	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	3	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	3	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	7	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	7	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	7	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	8	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	8	0.4
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	8	0.4
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	10	0.39
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	10	0.39
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	10	0.39
(3,69)	1:5:A:VAL:HG21	1:8:A:TYR:HA	2	0.39
(3,69)	1:5:A:VAL:HG22	1:8:A:TYR:HA	2	0.39
(3,69)	1:5:A:VAL:HG23	1:8:A:TYR:HA	2	0.39
(3,55)	1:10:A:GLN:HB2	1:11:A:TRP:H	3	0.39
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	5	0.39
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	5	0.39
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	5	0.39
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	8	0.39
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	8	0.39
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	3	0.39
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	3	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	1	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	1	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	1	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	4	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	4	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD21	9	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD22	9	0.39
(3,13)	1:12:A:LEU:H	1:12:A:LEU:HD23	9	0.39
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.39
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.39
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.39
(3,6)	1:7:A:LEU:H	1:7:A:LEU:HB2	9	0.39
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG11	4	0.39
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG12	4	0.39
(3,1)	1:5:A:VAL:HA	1:5:A:VAL:HG13	4	0.39
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	3	0.39
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	4	0.39
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	8	0.39
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	9	0.39
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	10	0.39
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	10	0.39
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	10	0.39
(1,520)	1:5:A:VAL:HG21	1:8:A:TYR:HA	2	0.39
(1,520)	1:5:A:VAL:HG22	1:8:A:TYR:HA	2	0.39
(1,520)	1:5:A:VAL:HG23	1:8:A:TYR:HA	2	0.39
(1,429)	1:10:A:GLN:HB2	1:11:A:TRP:H	3	0.39
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	5	0.39
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	5	0.39
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	5	0.39
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	8	0.39
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	8	0.39
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	3	0.39
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	3	0.39
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	3	0.39
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	4	0.39
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	8	0.39
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	9	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	1	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	1	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	1	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	4	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	4	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	4	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD21	9	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD22	9	0.39
(1,134)	1:12:A:LEU:H	1:12:A:LEU:HD23	9	0.39
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	10	0.39
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	10	0.39
(1,69)	1:7:A:LEU:H	1:7:A:LEU:HB2	9	0.39
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG11	4	0.39
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG12	4	0.39
(1,22)	1:5:A:VAL:HA	1:5:A:VAL:HG13	4	0.39
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	8	0.38
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	8	0.38
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	4	0.38
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	4	0.38
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	7	0.38
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	7	0.38
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	9	0.38
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	9	0.38
(3,10)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	9	0.38
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	6	0.38
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	7	0.38
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	6	0.38
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	8	0.38
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	8	0.38
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	4	0.38
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	4	0.38
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	7	0.38
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	7	0.38
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	7	0.38
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG21	9	0.38
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG22	9	0.38
(1,93)	1:9:A:ILE:HG13	1:9:A:ILE:HG23	9	0.38
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	9	0.37
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	9	0.37
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	9	0.37
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	9	0.37
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	9	0.37
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	9	0.37
(3,27)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	2	0.37
(3,27)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	2	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	3	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	5	0.37
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	9	0.37
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	5	0.37
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	5	0.37
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	10	0.37
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	5	0.37
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	5	0.37
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	9	0.37
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	9	0.37
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	9	0.37
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	9	0.37
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	9	0.37
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	9	0.37
(1,313)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	2	0.37
(1,313)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	2	0.37
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	10	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	3	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	5	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.37
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	9	0.37
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	4	0.36
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	7	0.36
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	7	0.36
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	7	0.36
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	7	0.36
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	9	0.36
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	9	0.36
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	9	0.36
(3,17)	1:19:A:SER:HA	1:19:A:SER:HB3	3	0.36
(3,17)	1:19:A:SER:HA	1:19:A:SER:HB3	10	0.36
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	6	0.36
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.36
(3,12)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.36
(2,386)	1:23:A:PRO:HB3	1:25:A:SER:H	6	0.36
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	6	0.36
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	6	0.36
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	1	0.36
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	1	0.36
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	3	0.36
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	7	0.36
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	7	0.36
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	7	0.36
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	7	0.36
(1,448)	1:23:A:PRO:HB3	1:25:A:SER:H	6	0.36
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	9	0.36
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	9	0.36
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	9	0.36
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	6	0.36
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	6	0.36
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	1	0.36
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	1	0.36
(1,197)	1:19:A:SER:HA	1:19:A:SER:HB3	3	0.36
(1,197)	1:19:A:SER:HA	1:19:A:SER:HB3	10	0.36
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	3	0.36
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	6	0.36
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.36
(1,132)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.36
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	9	0.35
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	9	0.35
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	9	0.35
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	9	0.35
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	9	0.35
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	9	0.35
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	4	0.35
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	4	0.35
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	4	0.35
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	4	0.35
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	8	0.35
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	8	0.35
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	8	0.35
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	8	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	1	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	1	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	1	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	4	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	4	0.35
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	4	0.35
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG21	10	0.35
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG22	10	0.35
(3,51)	1:4:A:ALA:H	1:5:A:VAL:HG23	10	0.35
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	1	0.35
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	10	0.35
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	10	0.35
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	5	0.35
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	5	0.35
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	6	0.35
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	6	0.35
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	1	0.35
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	1	0.35
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	1	0.35
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	2	0.35
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	9	0.35
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	9	0.35
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	9	0.35
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	9	0.35
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	9	0.35
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	9	0.35
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	4	0.35
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	4	0.35
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	4	0.35
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	4	0.35
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	8	0.35
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	8	0.35
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	8	0.35
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	8	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	1	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	1	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	1	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	4	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	4	0.35
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	4	0.35
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG21	10	0.35
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG22	10	0.35
(1,408)	1:4:A:ALA:H	1:5:A:VAL:HG23	10	0.35
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	1	0.35
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	1	0.35
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	10	0.35
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	10	0.35
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	1	0.35
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	1	0.35
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	5	0.35
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	5	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	6	0.35
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	6	0.35
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	1	0.35
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	2	0.35
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	3	0.34
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	3	0.34
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	3	0.34
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	10	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	2	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	2	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	2	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	5	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	5	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	5	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	7	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	7	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	7	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	8	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	8	0.34
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	8	0.34
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	10	0.34
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	10	0.34
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	10	0.34
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	10	0.34
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	10	0.34
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	10	0.34
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	2	0.34
(2,206)	1:21:A:ARG:H	1:21:A:ARG:HB3	5	0.34
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	3	0.34
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	3	0.34
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	3	0.34
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	2	0.34
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	10	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	2	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	2	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	2	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	5	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	5	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	5	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	7	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	7	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	8	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	8	0.34
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	8	0.34
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	10	0.34
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	10	0.34
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	10	0.34
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	10	0.34
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	10	0.34
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	10	0.34
(1,224)	1:21:A:ARG:H	1:21:A:ARG:HB3	5	0.34
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	9	0.33
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	9	0.33
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	9	0.33
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	3	0.33
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	3	0.33
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	3	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	3	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	3	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	3	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	3	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	3	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	3	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	9	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	9	0.33
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	9	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	9	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	9	0.33
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	9	0.33
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	2	0.33
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	2	0.33
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	9	0.33
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	9	0.33
(2,197)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	1	0.33
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	6	0.33
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	9	0.33
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	9	0.33
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	9	0.33
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	3	0.33
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	3	0.33
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	3	0.33
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	3	0.33
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	3	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	3	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	3	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	3	0.33
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	9	0.33
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	9	0.33
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	9	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	9	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	9	0.33
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	9	0.33
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	2	0.33
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	2	0.33
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	9	0.33
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	9	0.33
(1,214)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	1	0.33
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	6	0.33
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	9	0.32
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	9	0.32
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	9	0.32
(3,91)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	10	0.32
(3,91)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	10	0.32
(3,91)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	10	0.32
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	10	0.32
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	10	0.32
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	10	0.32
(3,43)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	9	0.32
(3,43)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	9	0.32
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	5	0.32
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	5	0.32
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	5	0.32
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	5	0.32
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	5	0.32
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	5	0.32
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	10	0.32
(3,30)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	10	0.32
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	10	0.32
(3,30)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	10	0.32
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	10	0.32
(3,30)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	10	0.32
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	7	0.32
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	7	0.32
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	4	0.32
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	9	0.32
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	9	0.32
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	9	0.32
(1,595)	1:7:A:LEU:HD21	1:8:A:TYR:HB2	10	0.32
(1,595)	1:7:A:LEU:HD22	1:8:A:TYR:HB2	10	0.32
(1,595)	1:7:A:LEU:HD23	1:8:A:TYR:HB2	10	0.32
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	10	0.32
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	10	0.32
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	10	0.32
(1,377)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	9	0.32
(1,377)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	9	0.32
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	5	0.32
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	5	0.32
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	5	0.32
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	5	0.32
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	5	0.32
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	5	0.32
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD1	10	0.32
(1,318)	1:7:A:LEU:HD11	1:8:A:TYR:HD2	10	0.32
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD1	10	0.32
(1,318)	1:7:A:LEU:HD12	1:8:A:TYR:HD2	10	0.32
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD1	10	0.32
(1,318)	1:7:A:LEU:HD13	1:8:A:TYR:HD2	10	0.32
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	7	0.32
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	7	0.32
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	4	0.32
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	4	0.32
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	10	0.31
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	10	0.31
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	10	0.31
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	9	0.31
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	9	0.31
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	9	0.31
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	10	0.31
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	10	0.31
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	10	0.31
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	1	0.31
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	1	0.31
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	1	0.31
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	2	0.31
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	2	0.31
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	9	0.31
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	9	0.31
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	9	0.31
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	9	0.31
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	6	0.31
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	6	0.31
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	6	0.31
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	6	0.31
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	6	0.31
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	6	0.31
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	2	0.31
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	2	0.31
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	7	0.31
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	7	0.31
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	7	0.31
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	10	0.31
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	10	0.31
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	10	0.31
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	9	0.31
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	9	0.31
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	9	0.31
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	10	0.31
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	10	0.31
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	10	0.31
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	1	0.31
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	1	0.31
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	1	0.31
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	2	0.31
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	2	0.31
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	2	0.31
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	9	0.31
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	9	0.31
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	9	0.31
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	9	0.31
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	6	0.31
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	6	0.31
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	6	0.31
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	6	0.31
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	6	0.31
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	6	0.31
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	2	0.31
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	7	0.31
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	7	0.31
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	7	0.31
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	3	0.3
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	3	0.3
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	3	0.3
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	3	0.3
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	6	0.3
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.3
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.3
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	2	0.3
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	2	0.3
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	5	0.3
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	5	0.3
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.3
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.3
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.3
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.3
(2,386)	1:23:A:PRO:HB3	1:25:A:SER:H	7	0.3
(2,351)	1:3:A:GLU:HB2	1:4:A:ALA:H	4	0.3
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	2	0.3
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	2	0.3
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	7	0.3
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	7	0.3
(2,277)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	10	0.3
(2,277)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	10	0.3
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	9	0.3
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	9	0.3
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	9	0.3
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	10	0.3
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	10	0.3
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	10	0.3
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	3	0.3
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	3	0.3
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	3	0.3
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	3	0.3
(1,448)	1:23:A:PRO:HB3	1:25:A:SER:H	7	0.3
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	6	0.3
(1,398)	1:3:A:GLU:HB2	1:4:A:ALA:H	4	0.3
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	2	0.3
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	7	0.3
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	7	0.3
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.3
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.3
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	2	0.3
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	2	0.3
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	5	0.3
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	5	0.3
(1,300)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	10	0.3
(1,300)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	10	0.3
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	10	0.3
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	10	0.3
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	6	0.3
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	6	0.3
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	9	0.3
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	9	0.3
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	9	0.3
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	10	0.3
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	10	0.3
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	10	0.3
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	1	0.29
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	8	0.29
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	8	0.29
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	8	0.29
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	8	0.29
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	8	0.29
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	8	0.29
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	8	0.29
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	8	0.29
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	8	0.29
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.29
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.29
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.29
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.29
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.29
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.29
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	4	0.29
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	4	0.29
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	4	0.29
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	6	0.29
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	6	0.29
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD11	9	0.29
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD12	9	0.29
(3,60)	1:11:A:TRP:H	1:12:A:LEU:HD13	9	0.29
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	4	0.29
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	4	0.29
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	9	0.29
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	9	0.29
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	3	0.29
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	3	0.29
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	5	0.29
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	5	0.29
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	3	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	3	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	3	0.29
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	5	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	5	0.29
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	5	0.29
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	2	0.29
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	2	0.29
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	3	0.29
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	3	0.29
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	1	0.29
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	8	0.29
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	8	0.29
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	8	0.29
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	8	0.29
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	8	0.29
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	8	0.29
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	8	0.29
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	8	0.29
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	8	0.29
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	10	0.29
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	10	0.29
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	10	0.29
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	10	0.29
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	10	0.29
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	10	0.29
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	4	0.29
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	4	0.29
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	4	0.29
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	6	0.29
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	6	0.29
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD11	9	0.29
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD12	9	0.29
(1,444)	1:11:A:TRP:H	1:12:A:LEU:HD13	9	0.29
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	4	0.29
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	4	0.29
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	9	0.29
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	9	0.29
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	3	0.29
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	3	0.29
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	5	0.29
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	5	0.29
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	3	0.29
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	3	0.29
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	3	0.29
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	5	0.29
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	5	0.29
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	5	0.29
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	2	0.29
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	2	0.29
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	3	0.29
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	3	0.29
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	4	0.28
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	5	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	9	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	9	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	9	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	9	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	9	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	9	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	9	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	9	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	9	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	10	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	10	0.28
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	10	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	10	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	10	0.28
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	10	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	10	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	10	0.28
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	9	0.28
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	10	0.28
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	2	0.28
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	2	0.28
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	2	0.28
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	2	0.28
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	2	0.28
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	2	0.28
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	8	0.28
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	8	0.28
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	1	0.28
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	1	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	1	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	1	0.28
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	2	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	2	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	2	0.28
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	6	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	6	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	6	0.28
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	8	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	8	0.28
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	8	0.28
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	1	0.28
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	1	0.28
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	4	0.28
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	5	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	9	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	9	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	9	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	9	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	9	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	9	0.28
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	9	0.28
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	9	0.28
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	9	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	10	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	10	0.28
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	10	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	10	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	10	0.28
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	10	0.28
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	10	0.28
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	10	0.28
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	9	0.28
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	1	0.28
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	10	0.28
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	2	0.28
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	2	0.28
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	2	0.28
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	2	0.28
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	2	0.28
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	2	0.28
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	1	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	1	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	1	0.28
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	2	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	2	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	2	0.28
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	6	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	6	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	6	0.28
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	8	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	8	0.28
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	8	0.28
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	8	0.28
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	8	0.28
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	1	0.28
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	1	0.28
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	9	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	1	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	3	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	4	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	7	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	8	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	9	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	10	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	5	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	5	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	5	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	5	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	5	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	5	0.27
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	5	0.27
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	5	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	7	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	7	0.27
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	7	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	7	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	7	0.27
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	7	0.27
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	7	0.27
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	7	0.27
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	7	0.27
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	5	0.27
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	5	0.27
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	5	0.27
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	7	0.27
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	7	0.27
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	7	0.27
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	8	0.27
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	8	0.27
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	8	0.27
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	7	0.27
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	7	0.27
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	7	0.27
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	8	0.27
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	8	0.27
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	8	0.27
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	10	0.27
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	10	0.27
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	10	0.27
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	10	0.27
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	10	0.27
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	10	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	2	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	2	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	2	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	2	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	5	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	5	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	5	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	5	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	6	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	6	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	6	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	0.27
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	10	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	10	0.27
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	10	0.27
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	1	0.27
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	3	0.27
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	5	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	2	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	3	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	4	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	7	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	9	0.27
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.27
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	4	0.27
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	4	0.27
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	8	0.27
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	8	0.27
(2,292)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	8	0.27
(2,292)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	8	0.27
(2,127)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	4	0.27
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	4	0.27
(2,127)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	4	0.27
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE2	9	0.27
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE3	9	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	6	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	6	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	8	0.27
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	8	0.27
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	9	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	1	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	3	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	4	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	7	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	8	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	9	0.27
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	10	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	5	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	5	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	5	0.27
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	5	0.27
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	5	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	5	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	5	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	5	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	7	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	7	0.27
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	7	0.27
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	7	0.27
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	7	0.27
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	7	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	7	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	7	0.27
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	7	0.27
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	5	0.27
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	5	0.27
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	5	0.27
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	7	0.27
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	7	0.27
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	7	0.27
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	8	0.27
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	8	0.27
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	8	0.27
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	7	0.27
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	7	0.27
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	7	0.27
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	8	0.27
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	8	0.27
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	8	0.27
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	10	0.27
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	10	0.27
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	10	0.27
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	10	0.27
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	10	0.27
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	10	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	2	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	2	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	2	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	2	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	5	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	5	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	5	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	6	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	6	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	6	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	6	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	10	0.27
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	10	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	10	0.27
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	10	0.27
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	1	0.27
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	3	0.27
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	5	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	2	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	3	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	4	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	7	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	9	0.27
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	10	0.27
(1,323)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	8	0.27
(1,323)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	8	0.27
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	4	0.27
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	4	0.27
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	8	0.27
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	8	0.27
(1,141)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	4	0.27
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	4	0.27
(1,141)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	4	0.27
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE2	9	0.27
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE3	9	0.27
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	6	0.27
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	6	0.27
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	8	0.27
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	8	0.27
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	2	0.26
(3,85)	1:7:A:LEU:HA	1:8:A:TYR:H	6	0.26
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	9	0.26
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	9	0.26
(3,82)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	9	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	6	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	6	0.26
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	6	0.26
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	6	0.26
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	6	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	6	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	6	0.26
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	6	0.26
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	1	0.26
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	1	0.26
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	1	0.26
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	3	0.26
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	3	0.26
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	3	0.26
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	6	0.26
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	6	0.26
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	6	0.26
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	9	0.26
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	9	0.26
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	9	0.26
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	9	0.26
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	9	0.26
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	9	0.26
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	6	0.26
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	6	0.26
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	9	0.26
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	9	0.26
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	2	0.26
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	4	0.26
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	8	0.26
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	9	0.26
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	1	0.26
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	5	0.26
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	6	0.26
(3,49)	1:9:A:ILE:H	1:9:A:ILE:HG12	8	0.26
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	3	0.26
(3,26)	1:8:A:TYR:HE1	1:24:A:PRO:HG2	8	0.26
(3,26)	1:8:A:TYR:HE2	1:24:A:PRO:HG2	8	0.26
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	1	0.26
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	1	0.26
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	7	0.26
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	7	0.26
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	6	0.26
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	3	0.26
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	9	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	4	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	4	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	5	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	5	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	7	0.26
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	7	0.26
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	2	0.26
(1,570)	1:7:A:LEU:HA	1:8:A:TYR:H	6	0.26
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	9	0.26
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	9	0.26
(1,560)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	9	0.26
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	6	0.26
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	6	0.26
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	6	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	6	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	6	0.26
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	6	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	6	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	6	0.26
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	6	0.26
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	1	0.26
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	1	0.26
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	1	0.26
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	3	0.26
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	3	0.26
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	3	0.26
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	6	0.26
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	6	0.26
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	6	0.26
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	9	0.26
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	9	0.26
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	9	0.26
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	9	0.26
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	9	0.26
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	9	0.26
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	3	0.26
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	6	0.26
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	6	0.26
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	9	0.26
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	2	0.26
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	4	0.26
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	8	0.26
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	9	0.26
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	1	0.26
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	5	0.26
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	6	0.26
(1,401)	1:9:A:ILE:H	1:9:A:ILE:HG12	8	0.26
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	3	0.26
(1,311)	1:8:A:TYR:HE1	1:24:A:PRO:HG2	8	0.26
(1,311)	1:8:A:TYR:HE2	1:24:A:PRO:HG2	8	0.26
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	1	0.26
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	1	0.26
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	7	0.26
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	7	0.26
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	9	0.26
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	6	0.26
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	6	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	4	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	4	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	5	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	5	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	7	0.26
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	7	0.26
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	10	0.25
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	1	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	9	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	9	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	9	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	10	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	10	0.25
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	10	0.25
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	7	0.25
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	7	0.25
(3,53)	1:14:A:ASP:H	1:15:A:GLY:HA2	7	0.25
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	1	0.25
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	4	0.25
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	7	0.25
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	8	0.25
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	6	0.25
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	6	0.25
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	8	0.25
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	8	0.25
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	9	0.25
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	9	0.25
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	7	0.25
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	7	0.25
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	8	0.25
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	8	0.25
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	10	0.25
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	10	0.25
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	10	0.25
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	4	0.25
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	1	0.25
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	2	0.25
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE2	7	0.25
(2,123)	1:13:A:LYS:HA	1:13:A:LYS:HE3	7	0.25
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	10	0.25
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	1	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	9	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	9	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	9	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	10	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	10	0.25
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	10	0.25
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	7	0.25
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	7	0.25
(1,421)	1:14:A:ASP:H	1:15:A:GLY:HA2	7	0.25
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	10	0.25
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	10	0.25
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	10	0.25
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	1	0.25
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	4	0.25
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	7	0.25
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	8	0.25
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	6	0.25
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	6	0.25
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	6	0.25
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	8	0.25
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	8	0.25
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	9	0.25
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	9	0.25
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	7	0.25
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	7	0.25
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	8	0.25
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	8	0.25
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	1	0.25
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	2	0.25
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE2	7	0.25
(1,136)	1:13:A:LYS:HA	1:13:A:LYS:HE3	7	0.25
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	4	0.24
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	4	0.24
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	4	0.24
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	1	0.24
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	1	0.24
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	1	0.24
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	1	0.24
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	1	0.24
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	1	0.24
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	4	0.24
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	4	0.24
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	4	0.24
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	5	0.24
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	5	0.24
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	5	0.24
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	5	0.24
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	5	0.24
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	5	0.24
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	1	0.24
(3,67)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	1	0.24
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	1	0.24
(3,67)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	1	0.24
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	10	0.24
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	10	0.24
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	10	0.24
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	2	0.24
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	5	0.24
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	9	0.24
(3,39)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	10	0.24
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	1	0.24
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	1	0.24
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	1	0.24
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	1	0.24
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	1	0.24
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	7	0.24
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	7	0.24
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	7	0.24
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	7	0.24
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	7	0.24
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	7	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	4	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	4	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	5	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	5	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	6	0.24
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	6	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	1	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	1	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	4	0.24
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	4	0.24
(2,414)	1:14:A:ASP:HB2	1:19:A:SER:HB2	5	0.24
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	4	0.24
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	5	0.24
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	9	0.24
(2,283)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	7	0.24
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	4	0.24
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	8	0.24
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	4	0.24
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	4	0.24
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	4	0.24
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	1	0.24
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	1	0.24
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	1	0.24
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	1	0.24
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	1	0.24
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	1	0.24
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	4	0.24
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	4	0.24
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	4	0.24
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	5	0.24
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	5	0.24
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	5	0.24
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	5	0.24
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	5	0.24
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD2	1	0.24
(1,491)	1:22:A:PRO:HG2	1:23:A:PRO:HD3	1	0.24
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD2	1	0.24
(1,491)	1:22:A:PRO:HG3	1:23:A:PRO:HD3	1	0.24
(1,477)	1:14:A:ASP:HB2	1:19:A:SER:HB2	5	0.24
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	4	0.24
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	5	0.24
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	9	0.24
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	10	0.24
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	10	0.24
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	10	0.24
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	2	0.24
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	5	0.24
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	9	0.24
(1,354)	1:11:A:TRP:HH2	1:17:A:PRO:HD2	10	0.24
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	1	0.24
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	1	0.24
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	1	0.24
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	1	0.24
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	1	0.24
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	1	0.24
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	7	0.24
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	7	0.24
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	7	0.24
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	7	0.24
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	7	0.24
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	7	0.24
(1,306)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	7	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	4	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	4	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	5	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	5	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	6	0.24
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	6	0.24
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	4	0.24
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	8	0.24
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	1	0.24
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	1	0.24
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	4	0.24
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	4	0.24
(3,88)	1:1:A:GLU:HB2	1:3:A:GLU:HA	3	0.23
(3,79)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,79)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	2	0.23
(3,79)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	2	0.23
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	8	0.23
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	8	0.23
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	4	0.23
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	9	0.23
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	9	0.23
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	9	0.23
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	4	0.23
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	4	0.23
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	4	0.23
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	4	0.23
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	4	0.23
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	4	0.23
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	4	0.23
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	4	0.23
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	7	0.23
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	7	0.23
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	9	0.23
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	9	0.23
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	2	0.23
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	2	0.23
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	3	0.23
(3,22)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	3	0.23
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	5	0.23
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	5	0.23
(2,485)	1:16:A:GLY:H	1:19:A:SER:HB3	10	0.23
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	4	0.23
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	4	0.23
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	4	0.23
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	9	0.23
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	9	0.23
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	9	0.23
(2,283)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	10	0.23
(1,578)	1:1:A:GLU:HB2	1:3:A:GLU:HA	3	0.23
(1,568)	1:16:A:GLY:H	1:19:A:SER:HB3	10	0.23
(1,555)	1:7:A:LEU:HD21	1:10:A:GLN:HB3	2	0.23
(1,555)	1:7:A:LEU:HD22	1:10:A:GLN:HB3	2	0.23
(1,555)	1:7:A:LEU:HD23	1:10:A:GLN:HB3	2	0.23
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	8	0.23
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	8	0.23
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	9	0.23
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	9	0.23
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	9	0.23
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	4	0.23
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	4	0.23
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	4	0.23
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	4	0.23
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	4	0.23
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	9	0.23
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	9	0.23
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	9	0.23
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	4	0.23
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	4	0.23
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	4	0.23
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	4	0.23
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	4	0.23
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	4	0.23
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	7	0.23
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	7	0.23
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	9	0.23
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	9	0.23
(1,306)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	10	0.23
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	2	0.23
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	2	0.23
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE1	3	0.23
(1,296)	1:8:A:TYR:HB2	1:8:A:TYR:HE2	3	0.23
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	5	0.23
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	5	0.23
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	2	0.22
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	2	0.22
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	2	0.22
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	2	0.22
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	2	0.22
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	2	0.22
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	2	0.22
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	2	0.22
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	2	0.22
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	5	0.22
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	5	0.22
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	5	0.22
(3,75)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	6	0.22
(3,75)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,75)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	6	0.22
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	4	0.22
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	4	0.22
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	7	0.22
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	7	0.22
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	8	0.22
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	8	0.22
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	8	0.22
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	5	0.22
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	5	0.22
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	8	0.22
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	8	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	2	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	2	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	2	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	5	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	5	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	5	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	7	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	7	0.22
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	7	0.22
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	8	0.22
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	8	0.22
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	8	0.22
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	8	0.22
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	8	0.22
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	8	0.22
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	8	0.22
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	8	0.22
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	8	0.22
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	8	0.22
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	8	0.22
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	8	0.22
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	8	0.22
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	8	0.22
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	3	0.22
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.22
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	3	0.22
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	3	0.22
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	2	0.22
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	2	0.22
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	4	0.22
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	4	0.22
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	4	0.22
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	3	0.22
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	3	0.22
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	3	0.22
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	3	0.22
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	4	0.22
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	4	0.22
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	4	0.22
(2,198)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	6	0.22
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	2	0.22
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	2	0.22
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	2	0.22
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	2	0.22
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	2	0.22
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	2	0.22
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	2	0.22
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	2	0.22
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	2	0.22
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	5	0.22
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	5	0.22
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	5	0.22
(1,543)	1:5:A:VAL:HG21	1:6:A:ARG:HG3	6	0.22
(1,543)	1:5:A:VAL:HG22	1:6:A:ARG:HG3	6	0.22
(1,543)	1:5:A:VAL:HG23	1:6:A:ARG:HG3	6	0.22
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	2	0.22
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	2	0.22
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	2	0.22
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	4	0.22
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	4	0.22
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	4	0.22
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	4	0.22
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	4	0.22
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	7	0.22
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	7	0.22
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	3	0.22
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	8	0.22
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	8	0.22
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	8	0.22
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	5	0.22
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	8	0.22
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	8	0.22
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	3	0.22
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	3	0.22
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	3	0.22
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	4	0.22
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	4	0.22
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	4	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	2	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	2	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	2	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	5	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	5	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	5	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	7	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	7	0.22
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	7	0.22
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	8	0.22
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	8	0.22
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	8	0.22
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	8	0.22
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	8	0.22
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	8	0.22
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	8	0.22
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	8	0.22
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	8	0.22
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	8	0.22
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	8	0.22
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	8	0.22
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	8	0.22
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	8	0.22
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	3	0.22
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	3	0.22
(1,215)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	6	0.22
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	3	0.22
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	3	0.22
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	3	0.21
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	3	0.21
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	3	0.21
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	3	0.21
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	3	0.21
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	3	0.21
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	3	0.21
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	3	0.21
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	4	0.21
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	4	0.21
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	4	0.21
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	4	0.21
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	4	0.21
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	4	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	5	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	5	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	5	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	6	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	6	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	6	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	7	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	7	0.21
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	7	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	3	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	3	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	3	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	9	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	9	0.21
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	9	0.21
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	7	0.21
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	7	0.21
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	7	0.21
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	7	0.21
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	7	0.21
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	7	0.21
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	1	0.21
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	1	0.21
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	2	0.21
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	2	0.21
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	6	0.21
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	6	0.21
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	6	0.21
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	7	0.21
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	7	0.21
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	7	0.21
(2,414)	1:14:A:ASP:HB2	1:19:A:SER:HB2	6	0.21
(2,404)	1:11:A:TRP:HA	1:14:A:ASP:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	1	0.21
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	1	0.21
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	1	0.21
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	2	0.21
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	2	0.21
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	2	0.21
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	5	0.21
(2,263)	1:11:A:TRP:HE1	1:19:A:SER:HB2	3	0.21
(2,263)	1:11:A:TRP:HE1	1:19:A:SER:HB2	4	0.21
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	3	0.21
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	10	0.21
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	3	0.21
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	3	0.21
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	3	0.21
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	3	0.21
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	3	0.21
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	3	0.21
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	3	0.21
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	3	0.21
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	3	0.21
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	4	0.21
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	4	0.21
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	4	0.21
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	4	0.21
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	4	0.21
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	4	0.21
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	6	0.21
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	6	0.21
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	6	0.21
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	7	0.21
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	7	0.21
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	7	0.21
(1,477)	1:14:A:ASP:HB2	1:19:A:SER:HB2	6	0.21
(1,466)	1:11:A:TRP:HA	1:14:A:ASP:HB3	6	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	5	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	5	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	5	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	6	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	6	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	6	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	7	0.21
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	7	0.21
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	1	0.21
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	1	0.21
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	1	0.21
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	2	0.21
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	2	0.21
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	2	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	3	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	3	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	3	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	9	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	9	0.21
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	9	0.21
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	7	0.21
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	7	0.21
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	7	0.21
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	7	0.21
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	7	0.21
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	7	0.21
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	5	0.21
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	1	0.21
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	1	0.21
(1,282)	1:11:A:TRP:HE1	1:19:A:SER:HB2	3	0.21
(1,282)	1:11:A:TRP:HE1	1:19:A:SER:HB2	4	0.21
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	3	0.21
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	10	0.21
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	2	0.21
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	2	0.21
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	1	0.2
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	2	0.2
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	3	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	2	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	2	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	2	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	2	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	2	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	2	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	3	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	3	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	3	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	3	0.2
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	3	0.2
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	7	0.2
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	7	0.2
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	7	0.2
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	7	0.2
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	7	0.2
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	7	0.2
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	1	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	1	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	1	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	1	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	2	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	2	0.2
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	2	0.2
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	1	0.2
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	1	0.2
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	8	0.2
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	8	0.2
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	8	0.2
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	8	0.2
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	4	0.2
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	4	0.2
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	4	0.2
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	4	0.2
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	4	0.2
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	4	0.2
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD2	10	0.2
(3,14)	1:13:A:LYS:HA	1:13:A:LYS:HD3	10	0.2
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	1	0.2
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	1	0.2
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	1	0.2
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	3	0.2
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	3	0.2
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	3	0.2
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	5	0.2
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	5	0.2
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	5	0.2
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	8	0.2
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	8	0.2
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	8	0.2
(2,387)	1:24:A:PRO:HB3	1:25:A:SER:H	2	0.2
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	6	0.2
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	6	0.2
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	7	0.2
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	7	0.2
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	7	0.2
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	8	0.2
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	8	0.2
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	8	0.2
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	1	0.2
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	1	0.2
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	1	0.2
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	6	0.2
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	1	0.2
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	2	0.2
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	3	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	2	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	2	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	2	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	2	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	2	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	2	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	3	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	3	0.2
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	3	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	3	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	3	0.2
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	3	0.2
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	7	0.2
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	7	0.2
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	7	0.2
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	7	0.2
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	7	0.2
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	7	0.2
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	1	0.2
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	1	0.2
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	1	0.2
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	3	0.2
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	3	0.2
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	3	0.2
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	5	0.2
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	5	0.2
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	8	0.2
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	8	0.2
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	8	0.2
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	1	0.2
(1,449)	1:24:A:PRO:HB3	1:25:A:SER:H	2	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	1	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	1	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	1	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	2	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	2	0.2
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	2	0.2
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	1	0.2
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	1	0.2
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	6	0.2
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	6	0.2
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	6	0.2
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	7	0.2
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	7	0.2
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	7	0.2
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	8	0.2
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	8	0.2
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	8	0.2
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	1	0.2
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	1	0.2
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	1	0.2
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	8	0.2
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	8	0.2
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	8	0.2
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	8	0.2
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	4	0.2
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	4	0.2
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	4	0.2
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	4	0.2
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	4	0.2
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	4	0.2
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	6	0.2
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD2	10	0.2
(1,138)	1:13:A:LYS:HA	1:13:A:LYS:HD3	10	0.2
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	6	0.19
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	6	0.19
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	6	0.19
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	6	0.19
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	6	0.19
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	3	0.19
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	3	0.19
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	10	0.19
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	10	0.19
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	7	0.19
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	4	0.19
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	9	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	4	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	4	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	4	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	0.19
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	0.19
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	9	0.19
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	9	0.19
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	9	0.19
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	9	0.19
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	9	0.19
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	9	0.19
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	6	0.19
(2,437)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	6	0.19
(2,362)	1:7:A:LEU:HD21	1:8:A:TYR:H	5	0.19
(2,362)	1:7:A:LEU:HD22	1:8:A:TYR:H	5	0.19
(2,362)	1:7:A:LEU:HD23	1:8:A:TYR:H	5	0.19
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	3	0.19
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	3	0.19
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	3	0.19
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	7	0.19
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	3	0.19
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	6	0.19
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	6	0.19
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	6	0.19
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	6	0.19
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	6	0.19
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	6	0.19
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG2	6	0.19
(1,504)	1:16:A:GLY:HA2	1:17:A:PRO:HG3	6	0.19
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	3	0.19
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	3	0.19
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	10	0.19
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	7	0.19
(1,413)	1:7:A:LEU:HD21	1:8:A:TYR:H	5	0.19
(1,413)	1:7:A:LEU:HD22	1:8:A:TYR:H	5	0.19
(1,413)	1:7:A:LEU:HD23	1:8:A:TYR:H	5	0.19
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	3	0.19
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	3	0.19
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	3	0.19
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	4	0.19
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	9	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	4	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	4	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	4	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	0.19
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	0.19
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	9	0.19
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	9	0.19
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	9	0.19
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	9	0.19
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	9	0.19
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	9	0.19
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	7	0.19
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	3	0.19
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	3	0.18
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	8	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	6	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	6	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	6	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	6	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	6	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	6	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	8	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	8	0.18
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	8	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	8	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	8	0.18
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	8	0.18
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	6	0.18
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	6	0.18
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	6	0.18
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,66)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	9	0.18
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	5	0.18
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	10	0.18
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	10	0.18
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	10	0.18
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	1	0.18
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	3	0.18
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	1	0.18
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	1	0.18
(3,33)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	1	0.18
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	3	0.18
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	3	0.18
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	3	0.18
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	3	0.18
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	3	0.18
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	3	0.18
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	9	0.18
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	9	0.18
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	9	0.18
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	9	0.18
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	9	0.18
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	2	0.18
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	2	0.18
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	2	0.18
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	2	0.18
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	2	0.18
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	3	0.18
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	3	0.18
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	5	0.18
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	5	0.18
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	7	0.18
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	7	0.18
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	10	0.18
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	10	0.18
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	5	0.18
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	3	0.18
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	8	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	6	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	6	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	6	0.18
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	6	0.18
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	6	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	8	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	8	0.18
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	8	0.18
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	8	0.18
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	8	0.18
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	8	0.18
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	6	0.18
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	6	0.18
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	6	0.18
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	9	0.18
(1,490)	1:22:A:PRO:HB3	1:23:A:PRO:HD3	9	0.18
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	5	0.18
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	10	0.18
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	10	0.18
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	2	0.18
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	2	0.18
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	2	0.18
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	10	0.18
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	1	0.18
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	3	0.18
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	1	0.18
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	1	0.18
(1,329)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	1	0.18
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	3	0.18
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	3	0.18
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	3	0.18
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	3	0.18
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	3	0.18
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	3	0.18
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	2	0.18
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	2	0.18
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	3	0.18
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	3	0.18
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	5	0.18
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	5	0.18
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	9	0.18
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	9	0.18
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	7	0.18
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	7	0.18
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	10	0.18
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	5	0.18
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	9	0.18
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	9	0.18
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	9	0.18
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	2	0.17
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	4	0.17
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	4	0.17
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	4	0.17
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	4	0.17
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	4	0.17
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	4	0.17
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	4	0.17
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	4	0.17
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	4	0.17
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	2	0.17
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	2	0.17
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	2	0.17
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	2	0.17
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	2	0.17
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	2	0.17
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	2	0.17
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	2	0.17
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	2	0.17
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	5	0.17
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	5	0.17
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	5	0.17
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	3	0.17
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	8	0.17
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD11	3	0.17
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD12	3	0.17
(3,62)	1:6:A:ARG:H	1:7:A:LEU:HD13	3	0.17
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	3	0.17
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	3	0.17
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	9	0.17
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	2	0.17
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	5	0.17
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	10	0.17
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	10	0.17
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	10	0.17
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	10	0.17
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	10	0.17
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	10	0.17
(3,25)	1:8:A:TYR:HE1	1:12:A:LEU:HG	1	0.17
(3,25)	1:8:A:TYR:HE2	1:12:A:LEU:HG	1	0.17
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	4	0.17
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	4	0.17
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	4	0.17
(2,445)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	1	0.17
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	6	0.17
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	6	0.17
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	6	0.17
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	1	0.17
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	1	0.17
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	6	0.17
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	6	0.17
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	7	0.17
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	7	0.17
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	8	0.17
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	8	0.17
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	10	0.17
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	10	0.17
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	8	0.17
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	8	0.17
(2,164)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	7	0.17
(2,142)	1:14:A:ASP:H	1:14:A:ASP:HB3	5	0.17
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	1	0.17
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	2	0.17
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	4	0.17
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	4	0.17
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	4	0.17
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	4	0.17
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	4	0.17
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	4	0.17
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	4	0.17
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	4	0.17
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	4	0.17
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	4	0.17
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	4	0.17
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	4	0.17
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	2	0.17
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	2	0.17
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	2	0.17
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	2	0.17
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	2	0.17
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	2	0.17
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	2	0.17
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	2	0.17
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	5	0.17
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	5	0.17
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	5	0.17
(1,512)	1:1:A:GLU:HB2	1:2:A:GLU:HG2	1	0.17
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	3	0.17
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	8	0.17
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD11	3	0.17
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD12	3	0.17
(1,447)	1:6:A:ARG:H	1:7:A:LEU:HD13	3	0.17
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	3	0.17
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	3	0.17
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	6	0.17
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	6	0.17
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	6	0.17
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	9	0.17
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	2	0.17
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	5	0.17
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	10	0.17
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	10	0.17
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	10	0.17
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	10	0.17
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	10	0.17
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	10	0.17
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	10	0.17
(1,310)	1:8:A:TYR:HE1	1:12:A:LEU:HG	1	0.17
(1,310)	1:8:A:TYR:HE2	1:12:A:LEU:HG	1	0.17
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	1	0.17
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	1	0.17
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	6	0.17
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	6	0.17
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	7	0.17
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	7	0.17
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	8	0.17
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	8	0.17
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	10	0.17
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	10	0.17
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	8	0.17
(1,179)	1:17:A:PRO:HB3	1:17:A:PRO:HD2	7	0.17
(1,157)	1:14:A:ASP:H	1:14:A:ASP:HB3	5	0.17
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	1	0.17
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	4	0.16
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	1	0.16
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	1	0.16
(3,80)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	1	0.16
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	1	0.16
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	1	0.16
(3,80)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	1	0.16
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	1	0.16
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	1	0.16
(3,80)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	1	0.16
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	5	0.16
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	5	0.16
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	5	0.16
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	5	0.16
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	5	0.16
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	5	0.16
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	8	0.16
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	8	0.16
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	8	0.16
(3,58)	1:13:A:LYS:HD2	1:14:A:ASP:H	2	0.16
(3,58)	1:13:A:LYS:HD3	1:14:A:ASP:H	2	0.16
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	7	0.16
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	1	0.16
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	1	0.16
(3,31)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	1	0.16
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	1	0.16
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	1	0.16
(3,31)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	1	0.16
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	2	0.16
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	2	0.16
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	2	0.16
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	2	0.16
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	2	0.16
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	2	0.16
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	1	0.16
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	1	0.16
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	1	0.16
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.16
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.16
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	9	0.16
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	9	0.16
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	9	0.16
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	9	0.16
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	9	0.16
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	9	0.16
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	9	0.16
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	9	0.16
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	9	0.16
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	9	0.16
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	6	0.16
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	6	0.16
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	6	0.16
(2,378)	1:11:A:TRP:H	1:24:A:PRO:HG2	8	0.16
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	4	0.16
(2,251)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	4	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	2	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	2	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	4	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	4	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	5	0.16
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	5	0.16
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	7	0.16
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	7	0.16
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	4	0.16
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	4	0.16
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD11	1	0.16
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD12	1	0.16
(1,558)	1:4:A:ALA:HB1	1:7:A:LEU:HD13	1	0.16
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD11	1	0.16
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD12	1	0.16
(1,558)	1:4:A:ALA:HB2	1:7:A:LEU:HD13	1	0.16
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD11	1	0.16
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD12	1	0.16
(1,558)	1:4:A:ALA:HB3	1:7:A:LEU:HD13	1	0.16
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	5	0.16
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	5	0.16
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	5	0.16
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	5	0.16
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	5	0.16
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	9	0.16
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	9	0.16
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	9	0.16
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	9	0.16
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	9	0.16
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	9	0.16
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	9	0.16
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	9	0.16
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	9	0.16
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	8	0.16
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	8	0.16
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	8	0.16
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	6	0.16
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	6	0.16
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	6	0.16
(1,437)	1:13:A:LYS:HD2	1:14:A:ASP:H	2	0.16
(1,437)	1:13:A:LYS:HD3	1:14:A:ASP:H	2	0.16
(1,434)	1:11:A:TRP:H	1:24:A:PRO:HG2	8	0.16
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	7	0.16
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD21	1	0.16
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD22	1	0.16
(1,321)	1:8:A:TYR:HE1	1:12:A:LEU:HD23	1	0.16
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD21	1	0.16
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD22	1	0.16
(1,321)	1:8:A:TYR:HE2	1:12:A:LEU:HD23	1	0.16
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	2	0.16
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	2	0.16
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	2	0.16
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	2	0.16
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	2	0.16
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	2	0.16
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG2	4	0.16
(1,270)	1:10:A:GLN:HE22	1:10:A:GLN:HG3	4	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	2	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	2	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	4	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	4	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	5	0.16
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	5	0.16
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	7	0.16
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	1	0.16
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	1	0.16
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	1	0.16
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.16
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.16
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.16
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	9	0.16
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	4	0.16
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	5	0.15
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	5	0.15
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	8	0.15
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	1	0.15
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	1	0.15
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	1	0.15
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	9	0.15
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	9	0.15
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	9	0.15
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	10	0.15
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	10	0.15
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	10	0.15
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	2	0.15
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	5	0.15
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	6	0.15
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	8	0.15
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	8	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	4	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	4	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	4	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	6	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	6	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	6	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	7	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	7	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	7	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	8	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	8	0.15
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	8	0.15
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	10	0.15
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	1	0.15
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	1	0.15
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	1	0.15
(2,441)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	6	0.15
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	6	0.15
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	7	0.15
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	7	0.15
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	7	0.15
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	5	0.15
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	5	0.15
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	5	0.15
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	7	0.15
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	7	0.15
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	7	0.15
(2,360)	1:5:A:VAL:HG21	1:7:A:LEU:H	8	0.15
(2,360)	1:5:A:VAL:HG22	1:7:A:LEU:H	8	0.15
(2,360)	1:5:A:VAL:HG23	1:7:A:LEU:H	8	0.15
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	4	0.15
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	4	0.15
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	8	0.15
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	8	0.15
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	3	0.15
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	3	0.15
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	9	0.15
(2,201)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	9	0.15
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	5	0.15
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	5	0.15
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	5	0.15
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	5	0.15
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	8	0.15
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	1	0.15
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	1	0.15
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	1	0.15
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	1	0.15
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	1	0.15
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	1	0.15
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	9	0.15
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	9	0.15
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	9	0.15
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	10	0.15
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	10	0.15
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	10	0.15
(1,508)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	7	0.15
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	6	0.15
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	2	0.15
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	5	0.15
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	6	0.15
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	8	0.15
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	7	0.15
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	7	0.15
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	7	0.15
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	5	0.15
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	5	0.15
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	5	0.15
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	7	0.15
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	7	0.15
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	7	0.15
(1,411)	1:5:A:VAL:HG21	1:7:A:LEU:H	8	0.15
(1,411)	1:5:A:VAL:HG22	1:7:A:LEU:H	8	0.15
(1,411)	1:5:A:VAL:HG23	1:7:A:LEU:H	8	0.15
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	8	0.15
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	4	0.15
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	4	0.15
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	8	0.15
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	8	0.15
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	3	0.15
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	3	0.15
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	9	0.15
(1,218)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	9	0.15
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	5	0.15
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	5	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	4	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	4	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	4	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	6	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	6	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	6	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	7	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	7	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	7	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	8	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	8	0.15
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	8	0.15
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	10	0.15
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	6	0.14
(3,93)	1:10:A:GLN:HA	1:13:A:LYS:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	7	0.14
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	7	0.14
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	7	0.14
(3,64)	1:6:A:ARG:HA	1:10:A:GLN:HB2	6	0.14
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	2	0.14
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	7	0.14
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	1	0.14
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	4	0.14
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	8	0.14
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	9	0.14
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	2	0.14
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	5	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	2	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	2	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	2	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	3	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	3	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	3	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD11	5	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD12	5	0.14
(3,11)	1:12:A:LEU:HA	1:12:A:LEU:HD13	5	0.14
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	2	0.14
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	4	0.14
(2,461)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	10	0.14
(2,461)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	10	0.14
(2,461)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	10	0.14
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD21	10	0.14
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD22	10	0.14
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD23	10	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	9	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	9	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	9	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	10	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	10	0.14
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	10	0.14
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	9	0.14
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	9	0.14
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	1	0.14
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	1	0.14
(2,414)	1:14:A:ASP:HB2	1:19:A:SER:HB2	2	0.14
(2,414)	1:14:A:ASP:HB2	1:19:A:SER:HB2	7	0.14
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	5	0.14
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	5	0.14
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	8	0.14
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	8	0.14
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	8	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	1	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	1	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	7	0.14
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	7	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	2	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	2	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	3	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	3	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	4	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	4	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	6	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	6	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	8	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	8	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	10	0.14
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	10	0.14
(2,13)	1:3:A:GLU:H	1:3:A:GLU:HG2	4	0.14
(2,13)	1:3:A:GLU:H	1:3:A:GLU:HG3	4	0.14
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	6	0.14
(1,601)	1:10:A:GLN:HA	1:13:A:LYS:H	7	0.14
(1,532)	1:5:A:VAL:HG11	1:8:A:TYR:HB2	10	0.14
(1,532)	1:5:A:VAL:HG12	1:8:A:TYR:HB2	10	0.14
(1,532)	1:5:A:VAL:HG13	1:8:A:TYR:HB2	10	0.14
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD21	10	0.14
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD22	10	0.14
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD23	10	0.14
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	7	0.14
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	7	0.14
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	7	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	9	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	9	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	9	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	10	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	10	0.14
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	10	0.14
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	9	0.14
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	1	0.14
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	1	0.14
(1,480)	1:6:A:ARG:HA	1:10:A:GLN:HB2	6	0.14
(1,477)	1:14:A:ASP:HB2	1:19:A:SER:HB2	2	0.14
(1,477)	1:14:A:ASP:HB2	1:19:A:SER:HB2	7	0.14
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	2	0.14
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	7	0.14
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	5	0.14
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	5	0.14
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	5	0.14
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	8	0.14
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	8	0.14
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	8	0.14
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	1	0.14
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	4	0.14
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	8	0.14
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	9	0.14
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	2	0.14
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	5	0.14
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	1	0.14
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	1	0.14
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	7	0.14
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	7	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	2	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	2	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	3	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	3	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	4	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	4	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	6	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	6	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	8	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	8	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	10	0.14
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	10	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	2	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	2	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	2	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	3	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	3	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	3	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD11	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD12	5	0.14
(1,119)	1:12:A:LEU:HA	1:12:A:LEU:HD13	5	0.14
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	2	0.14
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	4	0.14
(1,13)	1:3:A:GLU:H	1:3:A:GLU:HG2	4	0.14
(1,13)	1:3:A:GLU:H	1:3:A:GLU:HG3	4	0.14
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	6	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	4	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	4	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	4	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	4	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	4	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	4	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	7	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	7	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	7	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	7	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	7	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	7	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	8	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	8	0.13
(3,77)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	8	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	8	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	8	0.13
(3,77)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	8	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	1	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	1	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	1	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	1	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	1	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	1	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	3	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	3	0.13
(3,73)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	3	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	3	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	3	0.13
(3,73)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	3	0.13
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	3	0.13
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	3	0.13
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	3	0.13
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	1	0.13
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	1	0.13
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	1	0.13
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	3	0.13
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	4	0.13
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	9	0.13
(3,63)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	2	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	3	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	5	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	6	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	7	0.13
(3,45)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	10	0.13
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	7	0.13
(3,40)	1:11:A:TRP:HA	1:11:A:TRP:HE3	6	0.13
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	6	0.13
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	6	0.13
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	6	0.13
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	6	0.13
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	6	0.13
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	6	0.13
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE1	10	0.13
(3,20)	1:8:A:TYR:HA	1:8:A:TYR:HE2	10	0.13
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	1	0.13
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	3	0.13
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	7	0.13
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	8	0.13
(3,7)	1:7:A:LEU:H	1:7:A:LEU:HG	9	0.13
(3,7)	1:7:A:LEU:H	1:7:A:LEU:HG	10	0.13
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	8	0.13
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	8	0.13
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	8	0.13
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	4	0.13
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	4	0.13
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	4	0.13
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	5	0.13
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	5	0.13
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	5	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	1	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	1	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	1	0.13
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	1	0.13
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	1	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	1	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	1	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	1	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	3	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	3	0.13
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	3	0.13
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	3	0.13
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	3	0.13
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	3	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	3	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	3	0.13
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	3	0.13
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	6	0.13
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	6	0.13
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	6	0.13
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	4	0.13
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	4	0.13
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	2	0.13
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	2	0.13
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	2	0.13
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	2	0.13
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	2	0.13
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	3	0.13
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	3	0.13
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	3	0.13
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	4	0.13
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	4	0.13
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	4	0.13
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	2	0.13
(2,283)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.13
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	5	0.13
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	1	0.13
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	1	0.13
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	1	0.13
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	1	0.13
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	9	0.13
(2,168)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	9	0.13
(2,49)	1:6:A:ARG:H	1:6:A:ARG:HG2	6	0.13
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	2	0.13
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	5	0.13
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	6	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	4	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	4	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	4	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	4	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	4	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	4	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	7	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	7	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	7	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	7	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	7	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	7	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD11	8	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD12	8	0.13
(1,552)	1:3:A:GLU:HG2	1:7:A:LEU:HD13	8	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD11	8	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD12	8	0.13
(1,552)	1:3:A:GLU:HG3	1:7:A:LEU:HD13	8	0.13
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	8	0.13
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	8	0.13
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	8	0.13
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	4	0.13
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	4	0.13
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	4	0.13
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	5	0.13
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	5	0.13
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	5	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	1	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	1	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	1	0.13
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	1	0.13
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	1	0.13
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	1	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	1	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	1	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	1	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	3	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	3	0.13
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	3	0.13
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	3	0.13
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	3	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	3	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	3	0.13
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	3	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	1	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	1	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	1	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	1	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	1	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	1	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG21	3	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG22	3	0.13
(1,539)	1:2:A:GLU:HG2	1:5:A:VAL:HG23	3	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG21	3	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG22	3	0.13
(1,539)	1:2:A:GLU:HG3	1:5:A:VAL:HG23	3	0.13
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	3	0.13
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	3	0.13
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	3	0.13
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	6	0.13
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	6	0.13
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	6	0.13
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	1	0.13
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	1	0.13
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	1	0.13
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	4	0.13
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	4	0.13
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	2	0.13
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	2	0.13
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	1	0.13
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	3	0.13
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	4	0.13
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	9	0.13
(1,474)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.13
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	2	0.13
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	2	0.13
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	2	0.13
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	3	0.13
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	3	0.13
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	3	0.13
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	4	0.13
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	4	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	2	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	3	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	5	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	6	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	7	0.13
(1,383)	1:11:A:TRP:HH2	1:11:A:TRP:HZ3	10	0.13
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	7	0.13
(1,357)	1:11:A:TRP:HA	1:11:A:TRP:HE3	6	0.13
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	2	0.13
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	6	0.13
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	6	0.13
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	6	0.13
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	6	0.13
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	6	0.13
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	6	0.13
(1,306)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.13
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	5	0.13
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE1	10	0.13
(1,287)	1:8:A:TYR:HA	1:8:A:TYR:HE2	10	0.13
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	1	0.13
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	1	0.13
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	1	0.13
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	1	0.13
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG2	9	0.13
(1,183)	1:17:A:PRO:HB3	1:17:A:PRO:HG3	9	0.13
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	1	0.13
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	3	0.13
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	7	0.13
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	8	0.13
(1,70)	1:7:A:LEU:H	1:7:A:LEU:HG	9	0.13
(1,70)	1:7:A:LEU:H	1:7:A:LEU:HG	10	0.13
(1,52)	1:6:A:ARG:H	1:6:A:ARG:HG2	6	0.13
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	2	0.13
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	5	0.13
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	9	0.13
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	7	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	3	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	3	0.12
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	3	0.12
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	5	0.12
(3,28)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	5	0.12
(3,28)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	5	0.12
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	5	0.12
(3,28)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	5	0.12
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	10	0.12
(3,24)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	10	0.12
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	5	0.12
(3,8)	1:8:A:TYR:HA	1:9:A:ILE:H	6	0.12
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	2	0.12
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	2	0.12
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	2	0.12
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	3	0.12
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	3	0.12
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	3	0.12
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	6	0.12
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	6	0.12
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	6	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	1	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	1	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	1	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	3	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	3	0.12
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	3	0.12
(2,463)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	1	0.12
(2,463)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	1	0.12
(2,463)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	1	0.12
(2,463)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	4	0.12
(2,463)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	4	0.12
(2,463)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	4	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	2	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	2	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	2	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	4	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	4	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	4	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	5	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	5	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	5	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	7	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	7	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	7	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	8	0.12
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	8	0.12
(2,441)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	9	0.12
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.12
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	3	0.12
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	7	0.12
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	7	0.12
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	5	0.12
(2,423)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	5	0.12
(2,386)	1:23:A:PRO:HB3	1:25:A:SER:H	10	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	3	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	4	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	5	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	7	0.12
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	8	0.12
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	2	0.12
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	2	0.12
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	2	0.12
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	2	0.12
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	2	0.12
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	2	0.12
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	2	0.12
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	3	0.12
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	6	0.12
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	9	0.12
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	9	0.12
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE1	10	0.12
(2,270)	1:5:A:VAL:HA	1:8:A:TYR:HE2	10	0.12
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.12
(2,94)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.12
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	6	0.12
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	8	0.12
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.12
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	7	0.12
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	2	0.12
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	2	0.12
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	2	0.12
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	3	0.12
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	3	0.12
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	3	0.12
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	6	0.12
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	6	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	1	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	1	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	1	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	3	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	3	0.12
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	3	0.12
(1,534)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	1	0.12
(1,534)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	1	0.12
(1,534)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	1	0.12
(1,534)	1:7:A:LEU:HD11	1:8:A:TYR:HB2	4	0.12
(1,534)	1:7:A:LEU:HD12	1:8:A:TYR:HB2	4	0.12
(1,534)	1:7:A:LEU:HD13	1:8:A:TYR:HB2	4	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	2	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	2	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	2	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	4	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	4	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	4	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	5	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	5	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	5	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	7	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	7	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	7	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	8	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	8	0.12
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	8	0.12
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	3	0.12
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	3	0.12
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	3	0.12
(1,508)	1:23:A:PRO:HB3	1:24:A:PRO:HD3	9	0.12
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	3	0.12
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	3	0.12
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	7	0.12
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	7	0.12
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD2	5	0.12
(1,488)	1:22:A:PRO:HB2	1:23:A:PRO:HD3	5	0.12
(1,448)	1:23:A:PRO:HB3	1:25:A:SER:H	10	0.12
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	3	0.12
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	4	0.12
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	7	0.12
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	8	0.12
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	2	0.12
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	2	0.12
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	2	0.12
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	2	0.12
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	2	0.12
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	2	0.12
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE1	5	0.12
(1,315)	1:4:A:ALA:HB1	1:8:A:TYR:HE2	5	0.12
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE1	5	0.12
(1,315)	1:4:A:ALA:HB2	1:8:A:TYR:HE2	5	0.12
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE1	5	0.12
(1,315)	1:4:A:ALA:HB3	1:8:A:TYR:HE2	5	0.12
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG2	10	0.12
(1,308)	1:11:A:TRP:HD1	1:21:A:ARG:HG3	10	0.12
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	2	0.12
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	3	0.12
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	6	0.12
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	9	0.12
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	9	0.12
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE1	10	0.12
(1,290)	1:5:A:VAL:HA	1:8:A:TYR:HE2	10	0.12
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG2	9	0.12
(1,104)	1:10:A:GLN:H	1:10:A:GLN:HG3	9	0.12
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	5	0.12
(1,81)	1:8:A:TYR:HA	1:9:A:ILE:H	6	0.12
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	6	0.12
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	8	0.12
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.12
(3,71)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	4	0.11
(3,71)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	4	0.11
(3,71)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	4	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	2	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	2	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	2	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG21	8	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG22	8	0.11
(3,70)	1:6:A:ARG:HA	1:9:A:ILE:HG23	8	0.11
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	3	0.11
(3,41)	1:4:A:ALA:H	1:5:A:VAL:H	6	0.11
(2,507)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,507)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	8	0.11
(2,507)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	8	0.11
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	10	0.11
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	10	0.11
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	10	0.11
(2,475)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	10	0.11
(2,475)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	10	0.11
(2,475)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	10	0.11
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	3	0.11
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	3	0.11
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	3	0.11
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	4	0.11
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	4	0.11
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	4	0.11
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	6	0.11
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	6	0.11
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	6	0.11
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	7	0.11
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	7	0.11
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	7	0.11
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	2	0.11
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	2	0.11
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	2	0.11
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	2	0.11
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	2	0.11
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	2	0.11
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	2	0.11
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	2	0.11
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	2	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	2	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	2	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	2	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	7	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	7	0.11
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	7	0.11
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD21	2	0.11
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD22	2	0.11
(2,459)	1:9:A:ILE:HA	1:12:A:LEU:HD23	2	0.11
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	1	0.11
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	1	0.11
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	1	0.11
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD12	3	0.11
(2,456)	1:5:A:VAL:HA	1:9:A:ILE:HD13	3	0.11
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	4	0.11
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	4	0.11
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	4	0.11
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	6	0.11
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	6	0.11
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	6	0.11
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	7	0.11
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	7	0.11
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	7	0.11
(2,382)	1:4:A:ALA:HB1	1:6:A:ARG:H	10	0.11
(2,382)	1:4:A:ALA:HB2	1:6:A:ARG:H	10	0.11
(2,382)	1:4:A:ALA:HB3	1:6:A:ARG:H	10	0.11
(2,343)	1:16:A:GLY:H	1:17:A:PRO:HD2	6	0.11
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	1	0.11
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	9	0.11
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	10	0.11
(2,308)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	3	0.11
(2,308)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	3	0.11
(2,308)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	6	0.11
(2,308)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	6	0.11
(2,308)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	10	0.11
(2,308)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	10	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	7	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	7	0.11
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	7	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	7	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	7	0.11
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	7	0.11
(2,283)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.11
(2,280)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	9	0.11
(2,280)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	9	0.11
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	1	0.11
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	7	0.11
(2,272)	1:11:A:TRP:HD1	1:19:A:SER:HB3	1	0.11
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	6	0.11
(2,257)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	6	0.11
(1,598)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	8	0.11
(1,598)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	8	0.11
(1,598)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	8	0.11
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG2	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG2	10	0.11
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG2	10	0.11
(1,551)	1:7:A:LEU:HD21	1:10:A:GLN:HG3	10	0.11
(1,551)	1:7:A:LEU:HD22	1:10:A:GLN:HG3	10	0.11
(1,551)	1:7:A:LEU:HD23	1:10:A:GLN:HG3	10	0.11
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	3	0.11
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	3	0.11
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	3	0.11
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	4	0.11
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	4	0.11
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	4	0.11
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	6	0.11
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	6	0.11
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	6	0.11
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	7	0.11
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	7	0.11
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	7	0.11
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	2	0.11
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	2	0.11
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	2	0.11
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	2	0.11
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	2	0.11
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	2	0.11
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	2	0.11
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	2	0.11
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	2	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	2	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	2	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	2	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	7	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	7	0.11
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	7	0.11
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD21	2	0.11
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD22	2	0.11
(1,530)	1:9:A:ILE:HA	1:12:A:LEU:HD23	2	0.11
(1,529)	1:12:A:LEU:HD11	1:17:A:PRO:HD2	4	0.11
(1,529)	1:12:A:LEU:HD12	1:17:A:PRO:HD2	4	0.11
(1,529)	1:12:A:LEU:HD13	1:17:A:PRO:HD2	4	0.11
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	1	0.11
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	1	0.11
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	1	0.11
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD12	3	0.11
(1,526)	1:5:A:VAL:HA	1:9:A:ILE:HD13	3	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	2	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	2	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	2	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG21	8	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG22	8	0.11
(1,521)	1:6:A:ARG:HA	1:9:A:ILE:HG23	8	0.11
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	4	0.11
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	4	0.11
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	4	0.11
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	6	0.11
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	6	0.11
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	6	0.11
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	7	0.11
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	7	0.11
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	7	0.11
(1,440)	1:4:A:ALA:HB1	1:6:A:ARG:H	10	0.11
(1,440)	1:4:A:ALA:HB2	1:6:A:ARG:H	10	0.11
(1,440)	1:4:A:ALA:HB3	1:6:A:ARG:H	10	0.11
(1,389)	1:16:A:GLY:H	1:17:A:PRO:HD2	6	0.11
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	3	0.11
(1,370)	1:4:A:ALA:H	1:5:A:VAL:H	6	0.11
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	1	0.11
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	9	0.11
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	10	0.11
(1,344)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	3	0.11
(1,344)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	3	0.11
(1,344)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	6	0.11
(1,344)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	6	0.11
(1,344)	1:11:A:TRP:HH2	1:16:A:GLY:HA2	10	0.11
(1,344)	1:11:A:TRP:HZ2	1:16:A:GLY:HA2	10	0.11
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	7	0.11
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	7	0.11
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	7	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	7	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	7	0.11
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	7	0.11
(1,306)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.11
(1,303)	1:8:A:TYR:HD1	1:24:A:PRO:HB3	9	0.11
(1,303)	1:8:A:TYR:HD2	1:24:A:PRO:HB3	9	0.11
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	7	0.11
(1,293)	1:11:A:TRP:HD1	1:19:A:SER:HB3	1	0.11
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG2	6	0.11
(1,276)	1:11:A:TRP:HE1	1:21:A:ARG:HG3	6	0.11
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	9	0.1
(3,84)	1:3:A:GLU:HA	1:7:A:LEU:H	10	0.1
(2,507)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	6	0.1
(2,507)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	6	0.1
(2,507)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	6	0.1
(2,474)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	5	0.1
(2,474)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	5	0.1
(2,474)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	5	0.1
(2,471)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	10	0.1
(2,471)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	10	0.1
(2,471)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	10	0.1
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	4	0.1
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	4	0.1
(2,470)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	4	0.1
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	4	0.1
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	4	0.1
(2,470)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	4	0.1
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	4	0.1
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	4	0.1
(2,470)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	4	0.1
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	5	0.1
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	5	0.1
(2,467)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	5	0.1
(2,426)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	8	0.1
(2,426)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	8	0.1
(2,425)	1:9:A:ILE:HA	1:12:A:LEU:HG	10	0.1
(2,397)	1:5:A:VAL:H	1:9:A:ILE:HD11	1	0.1
(2,397)	1:5:A:VAL:H	1:9:A:ILE:HD12	1	0.1
(2,397)	1:5:A:VAL:H	1:9:A:ILE:HD13	1	0.1
(2,385)	1:9:A:ILE:HG21	1:10:A:GLN:H	1	0.1
(2,385)	1:9:A:ILE:HG22	1:10:A:GLN:H	1	0.1
(2,385)	1:9:A:ILE:HG23	1:10:A:GLN:H	1	0.1
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	5	0.1
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	5	0.1
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	5	0.1
(2,384)	1:5:A:VAL:HG21	1:6:A:ARG:H	8	0.1
(2,384)	1:5:A:VAL:HG22	1:6:A:ARG:H	8	0.1
(2,384)	1:5:A:VAL:HG23	1:6:A:ARG:H	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,382)	1:4:A:ALA:HB1	1:6:A:ARG:H	9	0.1
(2,382)	1:4:A:ALA:HB2	1:6:A:ARG:H	9	0.1
(2,382)	1:4:A:ALA:HB3	1:6:A:ARG:H	9	0.1
(2,381)	1:11:A:TRP:H	1:12:A:LEU:HG	6	0.1
(2,312)	1:11:A:TRP:HE3	1:12:A:LEU:HA	6	0.1
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	5	0.1
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	5	0.1
(2,289)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	5	0.1
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	5	0.1
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	5	0.1
(2,289)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	5	0.1
(2,278)	1:11:A:TRP:HD1	1:23:A:PRO:HA	4	0.1
(2,263)	1:11:A:TRP:HE1	1:19:A:SER:HB2	10	0.1
(2,129)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	7	0.1
(2,64)	1:7:A:LEU:H	1:7:A:LEU:HB3	4	0.1
(2,1)	1:2:A:GLU:HA	1:3:A:GLU:H	7	0.1
(1,598)	1:12:A:LEU:HD11	1:17:A:PRO:HD3	6	0.1
(1,598)	1:12:A:LEU:HD12	1:17:A:PRO:HD3	6	0.1
(1,598)	1:12:A:LEU:HD13	1:17:A:PRO:HD3	6	0.1
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	9	0.1
(1,569)	1:3:A:GLU:HA	1:7:A:LEU:H	10	0.1
(1,550)	1:9:A:ILE:HD11	1:13:A:LYS:HE3	5	0.1
(1,550)	1:9:A:ILE:HD12	1:13:A:LYS:HE3	5	0.1
(1,550)	1:9:A:ILE:HD13	1:13:A:LYS:HE3	5	0.1
(1,547)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	10	0.1
(1,547)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	10	0.1
(1,547)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	10	0.1
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG11	4	0.1
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG12	4	0.1
(1,545)	1:4:A:ALA:HB1	1:5:A:VAL:HG13	4	0.1
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG11	4	0.1
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG12	4	0.1
(1,545)	1:4:A:ALA:HB2	1:5:A:VAL:HG13	4	0.1
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG11	4	0.1
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG12	4	0.1
(1,545)	1:4:A:ALA:HB3	1:5:A:VAL:HG13	4	0.1
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG11	5	0.1
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG12	5	0.1
(1,540)	1:2:A:GLU:HB3	1:5:A:VAL:HG13	5	0.1
(1,493)	1:21:A:ARG:HG2	1:22:A:PRO:HD3	8	0.1
(1,493)	1:21:A:ARG:HG3	1:22:A:PRO:HD3	8	0.1
(1,492)	1:9:A:ILE:HA	1:12:A:LEU:HG	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:5:A:VAL:H	1:9:A:ILE:HD11	1	0.1
(1,459)	1:5:A:VAL:H	1:9:A:ILE:HD12	1	0.1
(1,459)	1:5:A:VAL:H	1:9:A:ILE:HD13	1	0.1
(1,445)	1:9:A:ILE:HG21	1:10:A:GLN:H	1	0.1
(1,445)	1:9:A:ILE:HG22	1:10:A:GLN:H	1	0.1
(1,445)	1:9:A:ILE:HG23	1:10:A:GLN:H	1	0.1
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	5	0.1
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	5	0.1
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	5	0.1
(1,443)	1:5:A:VAL:HG21	1:6:A:ARG:H	8	0.1
(1,443)	1:5:A:VAL:HG22	1:6:A:ARG:H	8	0.1
(1,443)	1:5:A:VAL:HG23	1:6:A:ARG:H	8	0.1
(1,440)	1:4:A:ALA:HB1	1:6:A:ARG:H	9	0.1
(1,440)	1:4:A:ALA:HB2	1:6:A:ARG:H	9	0.1
(1,440)	1:4:A:ALA:HB3	1:6:A:ARG:H	9	0.1
(1,439)	1:11:A:TRP:H	1:12:A:LEU:HG	6	0.1
(1,349)	1:11:A:TRP:HE3	1:12:A:LEU:HA	6	0.1
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	5	0.1
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	5	0.1
(1,319)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	5	0.1
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	5	0.1
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	5	0.1
(1,319)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	5	0.1
(1,301)	1:11:A:TRP:HD1	1:23:A:PRO:HA	4	0.1
(1,282)	1:11:A:TRP:HE1	1:19:A:SER:HB2	10	0.1
(1,143)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	7	0.1
(1,71)	1:7:A:LEU:H	1:7:A:LEU:HB3	4	0.1
(1,1)	1:2:A:GLU:HA	1:3:A:GLU:H	7	0.1



## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found