



# Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 03:01 PM EST

PDB ID : 6SZC  
BMRB ID : 34439  
Title : NMR structure of repeat domain 13 of the fibrillar adhesin CshA from *Streptococcus gordonii*.  
Authors : Higman, V.A.; Back, C.; Crump, M.P.; Race, P.  
Deposited on : 2019-10-02

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

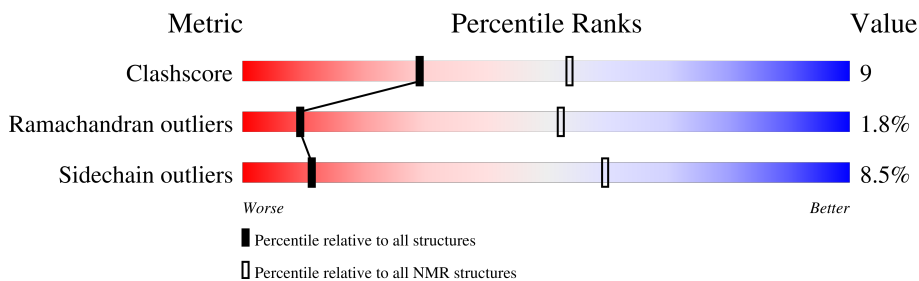
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 89%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	118	

## 2 Ensemble composition and analysis

This entry contains 15 models. Model 15 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2056-A:2125 (70)	0.88	15

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 7 single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1171 atoms, of which 580 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Surface-associated protein CshA.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	78	1171	375	580	92	124	0

There are 18 discrepancies between the modelled and reference sequences:

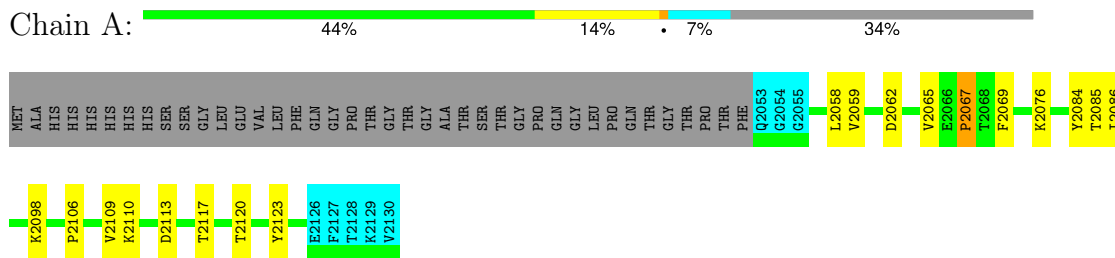
Chain	Residue	Modelled	Actual	Comment	Reference
A	2013	MET	-	initiating methionine	UNP A8AWJ3
A	2014	ALA	-	expression tag	UNP A8AWJ3
A	2015	HIS	-	expression tag	UNP A8AWJ3
A	2016	HIS	-	expression tag	UNP A8AWJ3
A	2017	HIS	-	expression tag	UNP A8AWJ3
A	2018	HIS	-	expression tag	UNP A8AWJ3
A	2019	HIS	-	expression tag	UNP A8AWJ3
A	2020	HIS	-	expression tag	UNP A8AWJ3
A	2021	SER	-	expression tag	UNP A8AWJ3
A	2022	SER	-	expression tag	UNP A8AWJ3
A	2023	GLY	-	expression tag	UNP A8AWJ3
A	2024	LEU	-	expression tag	UNP A8AWJ3
A	2025	GLU	-	expression tag	UNP A8AWJ3
A	2026	VAL	-	expression tag	UNP A8AWJ3
A	2027	LEU	-	expression tag	UNP A8AWJ3
A	2028	PHE	-	expression tag	UNP A8AWJ3
A	2029	GLN	-	expression tag	UNP A8AWJ3
A	2030	GLY	-	expression tag	UNP A8AWJ3

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

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

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

- Molecule 1: Surface-associated protein CshA

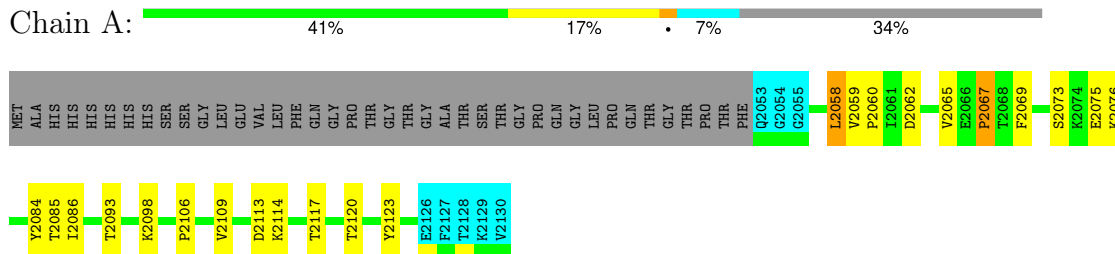


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

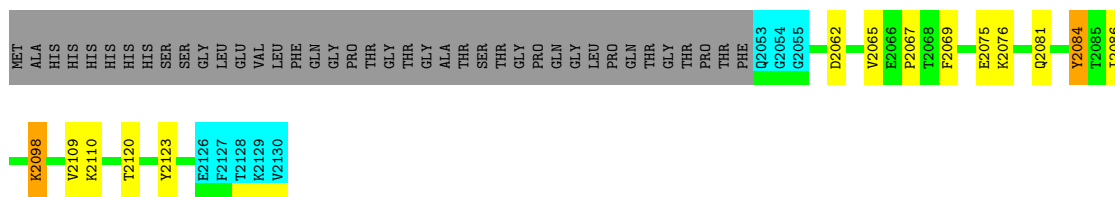
- Molecule 1: Surface-associated protein CshA



#### 4.2.2 Score per residue for model 2

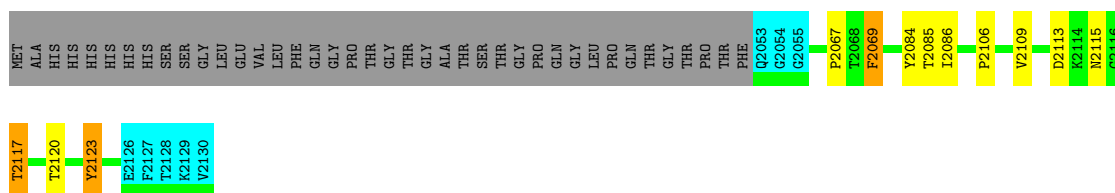
- Molecule 1: Surface-associated protein CshA





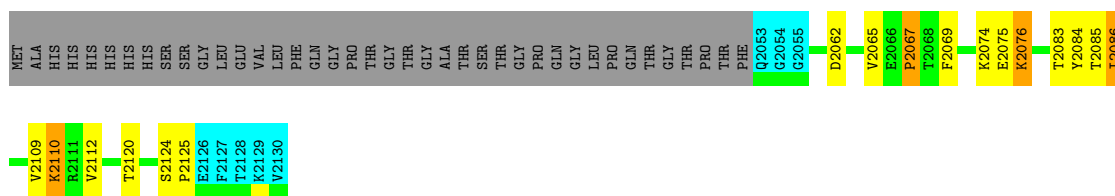
### 4.2.3 Score per residue for model 3

- Molecule 1: Surface-associated protein CshA



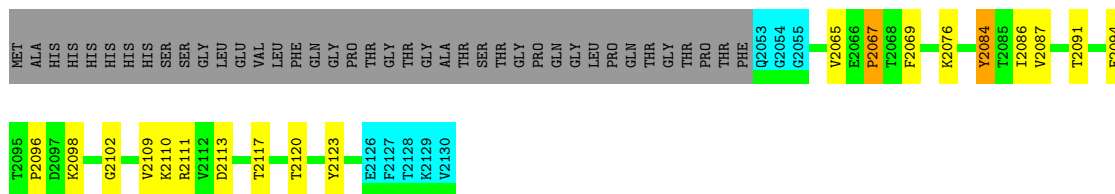
### 4.2.4 Score per residue for model 4

- Molecule 1: Surface-associated protein CshA



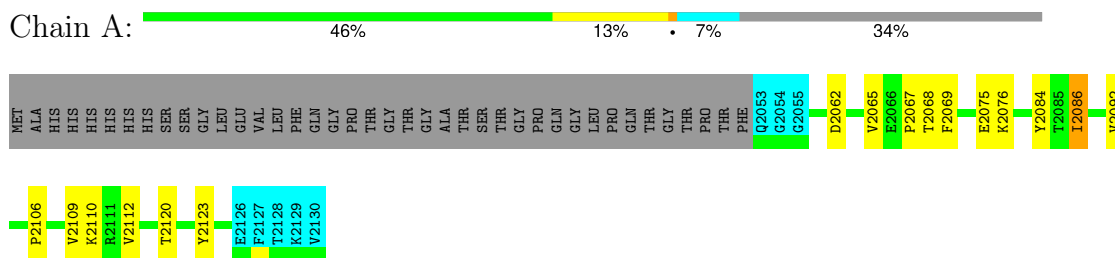
### 4.2.5 Score per residue for model 5

- Molecule 1: Surface-associated protein CshA



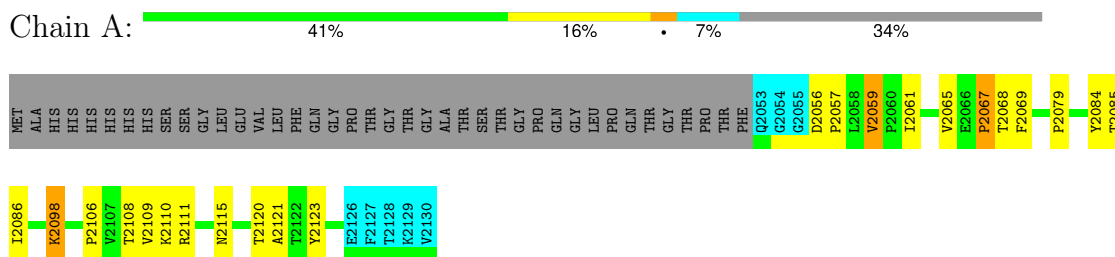
### 4.2.6 Score per residue for model 6

- Molecule 1: Surface-associated protein CshA



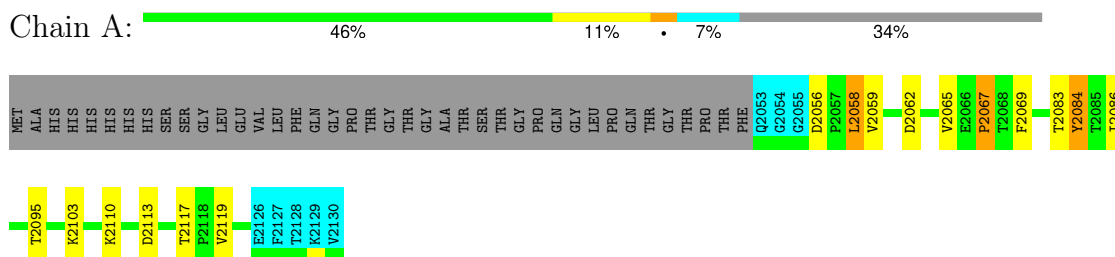
### 4.2.7 Score per residue for model 7

- Molecule 1: Surface-associated protein CshA



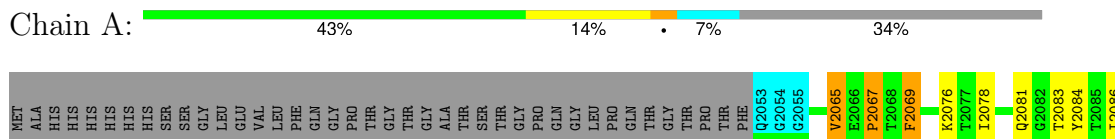
### 4.2.8 Score per residue for model 8

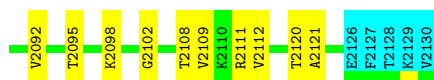
- Molecule 1: Surface-associated protein CshA



### 4.2.9 Score per residue for model 9

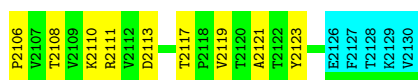
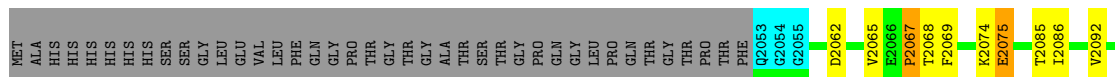
- Molecule 1: Surface-associated protein CshA





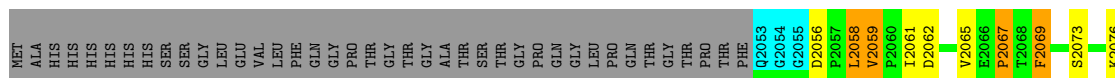
#### 4.2.10 Score per residue for model 10

- Molecule 1: Surface-associated protein CshA



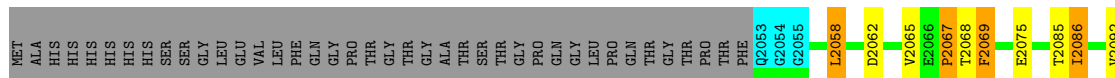
#### 4.2.11 Score per residue for model 11

- Molecule 1: Surface-associated protein CshA



#### 4.2.12 Score per residue for model 12

- Molecule 1: Surface-associated protein CshA



#### 4.2.13 Score per residue for model 13

- Molecule 1: Surface-associated protein CshA





## 5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 15 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
ARIA	structure calculation	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	853
Number of shifts mapped to atoms	853
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

## 6 Model quality i

### 6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	530	522	522	10±2
All	All	7950	7830	7830	143

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 9.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2058:LEU:HD13	1:A:2059:VAL:HG23	0.62	1.70	8	5
1:A:2075:GLU:HG2	1:A:2085:THR:HG22	0.61	1.72	10	2
1:A:2065:VAL:O	1:A:2067:PRO:HD3	0.59	1.96	9	13
1:A:2075:GLU:HG3	1:A:2085:THR:HG22	0.59	1.73	4	1
1:A:2069:PHE:CZ	1:A:2084:TYR:HB2	0.58	2.34	2	8
1:A:2113:ASP:OD2	1:A:2117:THR:HB	0.57	2.00	10	5
1:A:2113:ASP:OD1	1:A:2117:THR:HB	0.56	1.99	14	3
1:A:2094:PHE:CE2	1:A:2109:VAL:HG11	0.56	2.35	5	2
1:A:2109:VAL:O	1:A:2120:THR:HA	0.55	2.01	13	10
1:A:2106:PRO:HA	1:A:2123:TYR:O	0.54	2.02	1	9
1:A:2094:PHE:CZ	1:A:2109:VAL:HG11	0.54	2.38	5	1
1:A:2075:GLU:CG	1:A:2085:THR:HG22	0.53	2.33	12	1
1:A:2061:ILE:HG13	1:A:2111:ARG:NE	0.52	2.19	7	2
1:A:2058:LEU:HD12	1:A:2058:LEU:H	0.52	1.65	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2092:VAL:HB	1:A:2111:ARG:NH1	0.52	2.20	14	2
1:A:2075:GLU:HA	1:A:2084:TYR:O	0.52	2.05	2	3
1:A:2069:PHE:CD2	1:A:2069:PHE:N	0.51	2.79	2	7
1:A:2069:PHE:CD1	1:A:2069:PHE:N	0.50	2.79	12	3
1:A:2086:ILE:HA	1:A:2091:THR:O	0.50	2.06	15	1
1:A:2058:LEU:N	1:A:2058:LEU:HD12	0.50	2.21	12	3
1:A:2108:THR:HA	1:A:2121:ALA:O	0.50	2.06	9	4
1:A:2124:SER:OG	1:A:2125:PRO:HD2	0.50	2.06	4	1
1:A:2062:ASP:O	1:A:2065:VAL:HG22	0.50	2.06	15	10
1:A:2074:LYS:O	1:A:2086:ILE:HG22	0.49	2.08	4	1
1:A:2110:LYS:HD2	1:A:2110:LYS:C	0.49	2.27	4	1
1:A:2092:VAL:HG13	1:A:2111:ARG:NH1	0.49	2.22	9	1
1:A:2069:PHE:CD2	1:A:2109:VAL:HG13	0.49	2.42	1	2
1:A:2087:VAL:HG22	1:A:2091:THR:OG1	0.48	2.07	5	2
1:A:2086:ILE:HD13	1:A:2092:VAL:HG22	0.47	1.86	6	1
1:A:2081:GLN:CD	1:A:2104:PRO:HA	0.47	2.30	11	1
1:A:2069:PHE:CE2	1:A:2084:TYR:HB2	0.47	2.45	13	3
1:A:2098:LYS:HD3	1:A:2098:LYS:H	0.46	1.69	14	1
1:A:2065:VAL:HG11	1:A:2112:VAL:O	0.46	2.10	9	1
1:A:2110:LYS:HG2	1:A:2111:ARG:N	0.46	2.26	14	1
1:A:2094:PHE:O	1:A:2096:PRO:HD3	0.45	2.11	5	1
1:A:2078:ILE:HB	1:A:2081:GLN:HB3	0.45	1.88	9	1
1:A:2076:LYS:O	1:A:2083:THR:HA	0.44	2.12	4	2
1:A:2098:LYS:H	1:A:2098:LYS:HD2	0.44	1.72	7	1
1:A:2069:PHE:N	1:A:2069:PHE:HD2	0.44	2.10	9	3
1:A:2058:LEU:HD12	1:A:2058:LEU:N	0.44	2.28	11	1
1:A:2067:PRO:HA	1:A:2111:ARG:CB	0.43	2.42	5	2
1:A:2083:THR:O	1:A:2095:THR:HB	0.43	2.13	8	2
1:A:2058:LEU:H	1:A:2058:LEU:CD1	0.43	2.27	1	2
1:A:2056:ASP:HB2	1:A:2059:VAL:O	0.43	2.13	7	1
1:A:2065:VAL:HG21	1:A:2112:VAL:O	0.42	2.14	6	2
1:A:2068:THR:O	1:A:2110:LYS:HB3	0.42	2.14	6	4
1:A:2058:LEU:CD1	1:A:2059:VAL:HG23	0.42	2.44	11	1
1:A:2058:LEU:HD13	1:A:2059:VAL:CG2	0.42	2.45	11	1
1:A:2069:PHE:N	1:A:2069:PHE:HD1	0.41	2.11	12	2
1:A:2086:ILE:CG1	1:A:2092:VAL:HG22	0.41	2.45	12	1
1:A:2060:PRO:O	1:A:2114:LYS:HG3	0.41	2.16	1	1
1:A:2069:PHE:N	1:A:2069:PHE:CD2	0.41	2.89	15	1
1:A:2068:THR:HG22	1:A:2074:LYS:HE2	0.40	1.94	10	1
1:A:2103:LYS:HB3	1:A:2103:LYS:NZ	0.40	2.32	15	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	70/118 (59%)	62±2 (88±2%)	7±1 (10±2%)	1±1 (2±1%)	9	52
All	All	1050/1770 (59%)	928 (88%)	103 (10%)	19 (2%)	9	52

All 4 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	2067	PRO	13
1	A	2102	GLY	4
1	A	2079	PRO	1
1	A	2125	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	63/100 (63%)	58±2 (92±3%)	5±2 (8±3%)	11	60
All	All	945/1500 (63%)	865 (92%)	80 (8%)	11	60

All 24 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	2086	ILE	14
1	A	2076	LYS	7
1	A	2110	LYS	7
1	A	2058	LEU	6
1	A	2098	LYS	6
1	A	2084	TYR	6

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Mol	Chain	Res	Type	Models (Total)
1	A	2085	THR	5
1	A	2069	PHE	4
1	A	2123	TYR	3
1	A	2056	ASP	3
1	A	2073	SER	2
1	A	2115	ASN	2
1	A	2059	VAL	2
1	A	2103	LYS	2
1	A	2119	VAL	2
1	A	2093	THR	1
1	A	2081	GLN	1
1	A	2117	THR	1
1	A	2065	VAL	1
1	A	2075	GLU	1
1	A	2097	ASP	1
1	A	2100	PHE	1
1	A	2074	LYS	1
1	A	2105	ASP	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

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 89% for the well-defined parts and 86% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

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

#### 7.1.1 Bookkeeping 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	853
Number of shifts mapped to atoms	853
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

#### 7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	70	$-0.89 \pm 0.23$	Should be applied
$^{13}\text{C}_\beta$	65	$-1.10 \pm 0.20$	Should be applied
$^{13}\text{C}'$	68	$0.50 \pm 0.17$	Should be applied
$^{15}\text{N}$	59	$-0.07 \pm 0.71$	None needed ( $< 0.5$ ppm)

#### 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 89%, i.e. 798 atoms were assigned a chemical shift out of a possible 892. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	310/336 (92%)	126/136 (93%)	129/140 (92%)	55/60 (92%)
Sidechain	444/508 (87%)	302/329 (92%)	140/167 (84%)	2/12 (17%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	44/48 (92%)	23/23 (100%)	21/25 (84%)	0/0 (—%)
Overall	798/892 (89%)	451/488 (92%)	290/332 (87%)	57/72 (79%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 86%, i.e. 852 atoms were assigned a chemical shift out of a possible 993. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	333/378 (88%)	136/154 (88%)	138/156 (88%)	59/68 (87%)
Sidechain	475/557 (85%)	323/360 (90%)	150/183 (82%)	2/14 (14%)
Aromatic	44/58 (76%)	23/28 (82%)	21/30 (70%)	0/0 (—%)
Overall	852/993 (86%)	482/542 (89%)	309/369 (84%)	61/82 (74%)

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

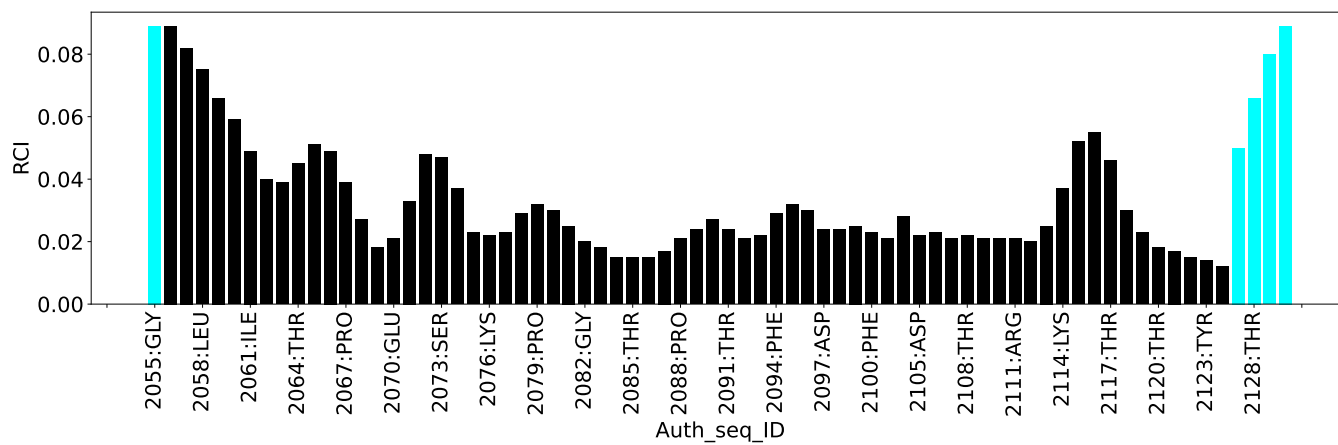
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	2068	THR	HG1	5.02	0.08 – 2.19	18.4

#### 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	1829
Intra-residue ( $ i-j =0$ )	599
Sequential ( $ i-j =1$ )	429
Medium range ( $ i-j >1$ and $ i-j <5$ )	205
Long range ( $ i-j \geq 5$ )	567
Inter-chain	0
Hydrogen bond restraints	29
Disulfide bond restraints	0
Total dihedral-angle restraints	120
Number of unmapped restraints	0
Number of restraints per residue	16.5
Number of long range restraints per residue <sup>1</sup>	4.9

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

### 8.2 Residual restraint violations

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

#### 8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	29.9	0.2
0.2-0.5 (Medium)	58.7	0.5
>0.5 (Large)	64.5	3.04

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	8.7	5.95
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

## 9 Distance violation analysis

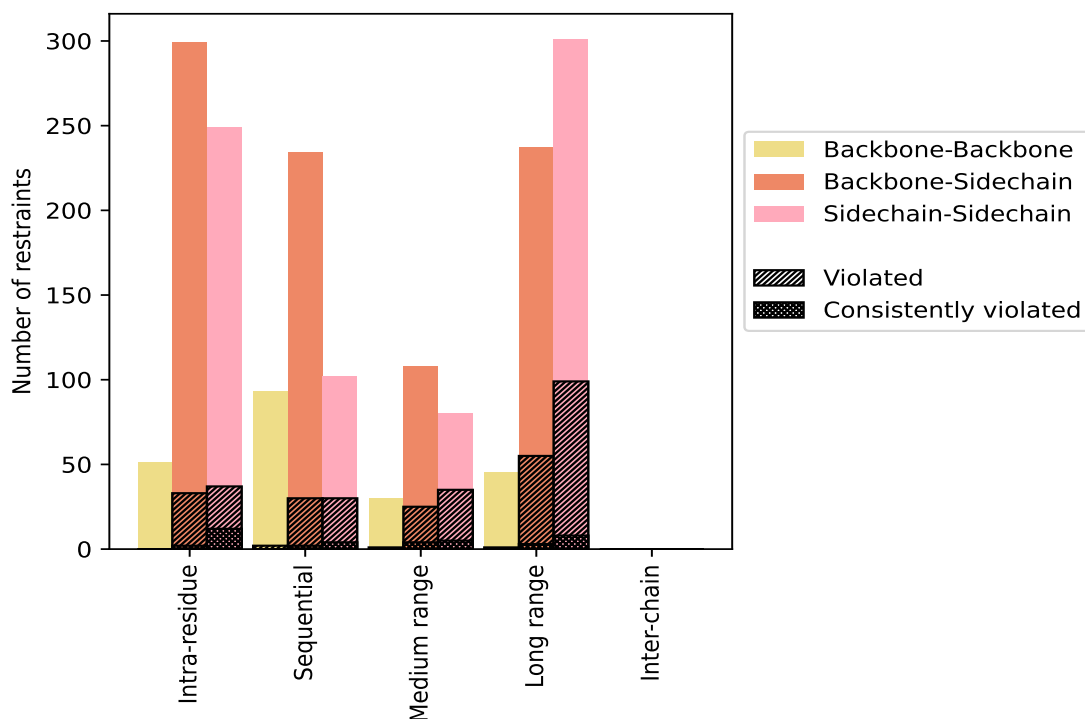
### 9.1 Summary of distance violations

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

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>599</b>	<b>32.8</b>	<b>70</b>	<b>11.7</b>	<b>3.8</b>	<b>14</b>	<b>2.3</b>	<b>0.8</b>
Backbone-Backbone	51	2.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	299	16.3	33	11.0	1.8	2	0.7	0.1
Sidechain-Sidechain	249	13.6	37	14.9	2.0	12	4.8	0.7
<b>Sequential (<math> i-j =1</math>)</b>	<b>429</b>	<b>23.5</b>	<b>62</b>	<b>14.5</b>	<b>3.4</b>	<b>6</b>	<b>1.4</b>	<b>0.3</b>
Backbone-Backbone	93	5.1	2	2.2	0.1	0	0.0	0.0
Backbone-Sidechain	234	12.8	30	12.8	1.6	2	0.9	0.1
Sidechain-Sidechain	102	5.6	30	29.4	1.6	4	3.9	0.2
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>205</b>	<b>11.2</b>	<b>56</b>	<b>27.3</b>	<b>3.1</b>	<b>9</b>	<b>4.4</b>	<b>0.5</b>
Backbone-Backbone	30	1.6	1	3.3	0.1	0	0.0	0.0
Backbone-Sidechain	97	5.3	21	21.6	1.1	4	4.1	0.2
Sidechain-Sidechain	78	4.3	34	43.6	1.9	5	6.4	0.3
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>567</b>	<b>31.0</b>	<b>151</b>	<b>26.6</b>	<b>8.3</b>	<b>11</b>	<b>1.9</b>	<b>0.6</b>
Backbone-Backbone	45	2.5	1	2.2	0.1	0	0.0	0.0
Backbone-Sidechain	222	12.1	52	23.4	2.8	3	1.4	0.2
Sidechain-Sidechain	300	16.4	98	32.7	5.4	8	2.7	0.4
<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>29</b>	<b>1.6</b>	<b>9</b>	<b>31.0</b>	<b>0.5</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>1829</b>	<b>100.0</b>	<b>348</b>	<b>19.0</b>	<b>19.0</b>	<b>40</b>	<b>2.2</b>	<b>2.2</b>
Backbone-Backbone	219	12.0	4	1.8	0.2	0	0.0	0.0
Backbone-Sidechain	878	48.0	143	16.3	7.8	11	1.3	0.6
Sidechain-Sidechain	732	40.0	201	27.5	11.0	29	4.0	1.6

<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	35	31	28	59	0	153	0.56	2.73	0.47	0.38
2	37	33	30	61	0	161	0.65	2.78	0.56	0.41
3	29	27	22	67	0	145	0.55	2.58	0.42	0.39
4	35	28	29	65	0	157	0.6	3.04	0.48	0.47
5	35	22	27	61	0	145	0.61	2.99	0.47	0.47
6	36	31	25	59	0	151	0.6	2.44	0.48	0.42
7	38	29	34	68	0	169	0.5	2.72	0.43	0.34
8	33	30	28	63	0	154	0.55	2.77	0.45	0.4
9	37	28	27	64	0	156	0.63	2.97	0.54	0.42
10	34	30	26	59	0	149	0.54	2.51	0.43	0.4

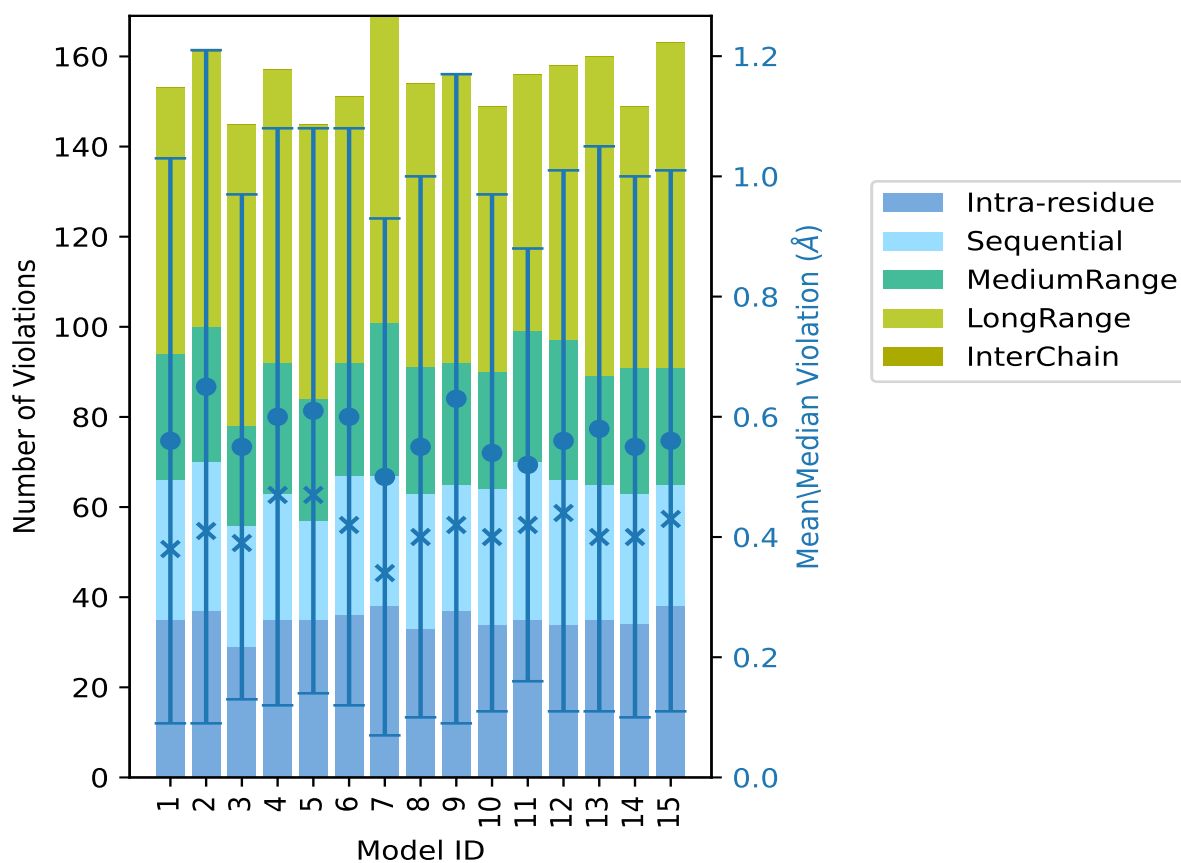
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
11	35	35	29	57	0	156	0.52	1.79	0.36	0.42
12	34	32	31	61	0	158	0.56	2.77	0.45	0.44
13	35	30	24	71	0	160	0.58	2.95	0.47	0.4
14	34	29	28	58	0	149	0.55	2.35	0.45	0.4
15	38	27	26	72	0	163	0.56	2.22	0.45	0.43

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

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



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

### 9.3 Distance violation statistics for the ensemble

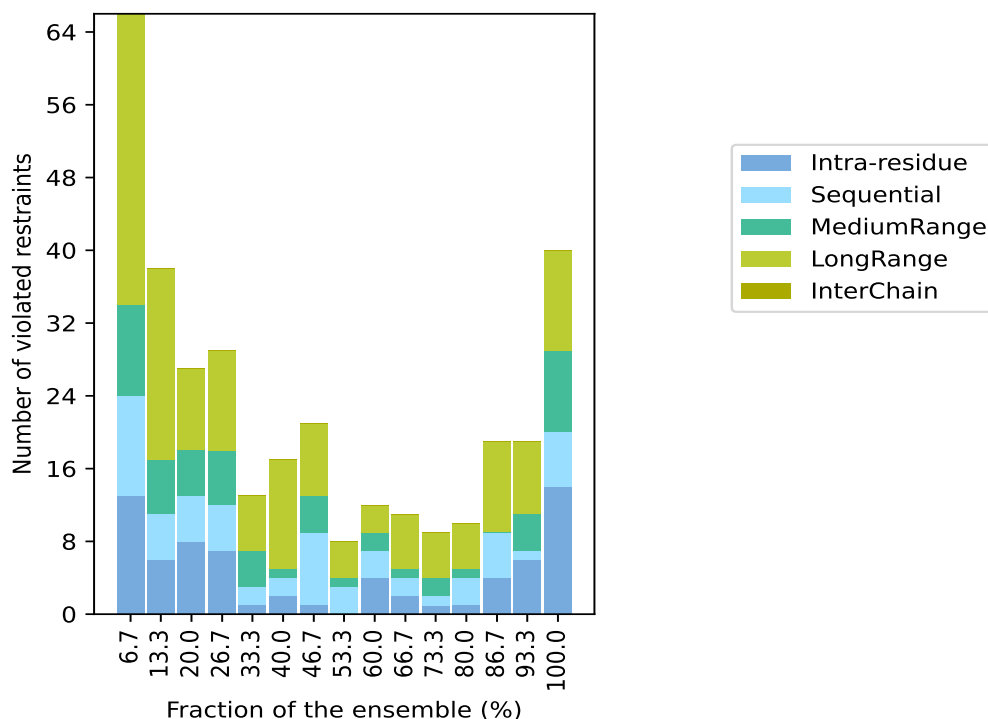
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1461(IR:529, SQ:367, MR:149, LR:416, IC:0) restraints are 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>	%
13	11	10	32	0	66	1	6.7
6	5	6	21	0	38	2	13.3
8	5	5	9	0	27	3	20.0
7	5	6	11	0	29	4	26.7
1	2	4	6	0	13	5	33.3
2	2	1	12	0	17	6	40.0
1	8	4	8	0	21	7	46.7
0	3	1	4	0	8	8	53.3
4	3	2	3	0	12	9	60.0
2	2	1	6	0	11	10	66.7
1	1	2	5	0	9	11	73.3
1	3	1	5	0	10	12	80.0
4	5	0	10	0	19	13	86.7
6	1	4	8	0	19	14	93.3
14	6	9	11	0	40	15	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



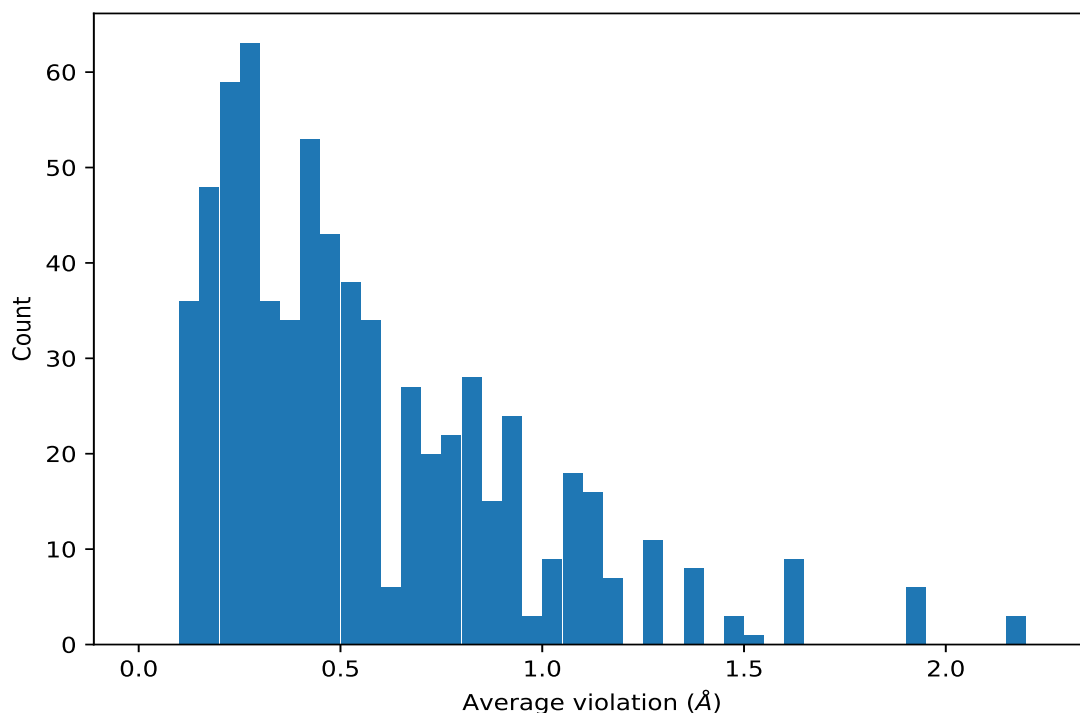
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 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)
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	15	2.19	0.18	2.22
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	15	2.19	0.18	2.22
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG21	15	2.19	0.18	2.22
(1,1656)	1:2061:A:ILE:HG22	1:2056:A:ASP:HB3	15	1.92	0.88	2.11
(1,1656)	1:2061:A:ILE:HG23	1:2056:A:ASP:HB3	15	1.92	0.88	2.11
(1,1656)	1:2061:A:ILE:HG21	1:2110:A:LYS:HE3	15	1.92	0.88	2.11
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	15	1.92	0.88	2.11
(1,1656)	1:2061:A:ILE:HG23	1:2110:A:LYS:HE3	15	1.92	0.88	2.11
(1,1656)	1:2061:A:ILE:HG22	1:2110:A:LYS:HE3	15	1.92	0.88	2.11
(1,1620)	1:2095:A:THR:HG23	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,1620)	1:2108:A:THR:HG23	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,1620)	1:2108:A:THR:HG22	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,1620)	1:2095:A:THR:HG22	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,1620)	1:2095:A:THR:HG21	1:2069:A:PHE:HZ	15	1.64	0.14	1.61
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	15	1.37	0.19	1.39

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,592)	1:2077:A:THR:HG21	1:2079:A:PRO:HD2	15	1.37	0.19	1.39
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	15	1.37	0.19	1.39
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	15	1.36	0.22	1.27
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	15	1.36	0.22	1.27
(1,446)	1:2091:A:THR:HG21	1:2088:A:PRO:HD3	15	1.36	0.22	1.27
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	15	1.29	0.11	1.28
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	15	1.29	0.11	1.28
(1,1355)	1:2077:A:THR:HG23	1:2076:A:LYS:HB3	15	1.29	0.11	1.28
(1,543)	1:2083:A:THR:HG21	1:2075:A:GLU:HB2	15	1.1	0.45	0.91
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	15	1.1	0.45	0.91
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	15	1.1	0.45	0.91
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	15	1.08	0.73	0.57
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	15	1.05	0.22	1.01
(1,467)	1:2112:A:VAL:HG11	1:2118:A:PRO:HB2	15	1.05	0.22	1.01
(1,467)	1:2112:A:VAL:HG13	1:2118:A:PRO:HB2	15	1.05	0.22	1.01
(1,554)	1:2121:A:ALA:HB3	1:2123:A:TYR:HB3	15	1.03	0.39	0.92
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	15	1.03	0.39	0.92
(1,554)	1:2121:A:ALA:HB2	1:2123:A:TYR:HB3	15	1.03	0.39	0.92
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG22	15	0.92	0.57	0.79
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	15	0.92	0.57	0.79
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG22	15	0.92	0.57	0.79
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG21	15	0.92	0.57	0.79
(1,664)	1:2065:A:VAL:HG11	1:2064:A:THR:HG22	15	0.92	0.57	0.79
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	15	0.91	0.13	0.9
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	15	0.91	0.13	0.9
(1,65)	1:2064:A:THR:HG21	1:2063:A:GLU:HG2	15	0.91	0.13	0.9
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	15	0.8	0.31	0.67
(1,67)	1:2112:A:VAL:HG11	1:2118:A:PRO:HG2	15	0.8	0.31	0.67
(1,67)	1:2112:A:VAL:HG13	1:2118:A:PRO:HG2	15	0.8	0.31	0.67
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	15	0.8	0.28	0.84
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG23	15	0.8	0.28	0.84
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG12	15	0.8	0.28	0.84
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG21	15	0.8	0.28	0.84
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG11	15	0.8	0.28	0.84
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG22	15	0.8	0.28	0.84
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	15	0.76	0.06	0.77
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	15	0.76	0.06	0.77
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG21	15	0.76	0.06	0.77
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	15	0.7	0.17	0.72
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	15	0.7	0.17	0.72
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG23	15	0.7	0.17	0.72
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	15	0.64	0.04	0.65

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	15	0.58	0.16	0.62
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HG2	15	0.58	0.16	0.62
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	15	0.47	0.22	0.5
(1,66)	1:2120:A:THR:HG23	1:2118:A:PRO:HB3	15	0.47	0.22	0.5
(1,66)	1:2120:A:THR:HG21	1:2118:A:PRO:HB3	15	0.47	0.22	0.5
(1,1349)	1:2130:A:VAL:HG11	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,1349)	1:2130:A:VAL:HG23	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,1349)	1:2130:A:VAL:HG12	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,1349)	1:2130:A:VAL:HG13	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,1349)	1:2130:A:VAL:HG22	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,1349)	1:2130:A:VAL:HG21	1:2130:A:VAL:HB	15	0.45	0.01	0.45
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	15	0.43	0.1	0.43
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	15	0.43	0.1	0.43
(1,20)	1:2091:A:THR:HG21	1:2087:A:VAL:HA	15	0.43	0.1	0.43
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	15	0.42	0.02	0.42
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	15	0.4	0.03	0.41
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	15	0.4	0.03	0.41
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG22	15	0.4	0.03	0.41
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	15	0.4	0.23	0.29
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	15	0.39	0.08	0.37
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	15	0.39	0.08	0.37
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	15	0.39	0.08	0.37
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	15	0.37	0.03	0.37
(1,1347)	1:2087:A:VAL:HG21	1:2087:A:VAL:HB	15	0.36	0.0	0.36
(1,1347)	1:2087:A:VAL:HG11	1:2087:A:VAL:HB	15	0.36	0.0	0.36
(1,1347)	1:2087:A:VAL:HG23	1:2087:A:VAL:HB	15	0.36	0.0	0.36
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	15	0.36	0.0	0.36
(1,1347)	1:2087:A:VAL:HG13	1:2087:A:VAL:HB	15	0.36	0.0	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	15	0.36	0.08	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	15	0.36	0.08	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG22	15	0.36	0.08	0.36
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	15	0.33	0.06	0.34
(1,83)	1:2108:A:THR:HG22	1:2120:A:THR:HB	15	0.33	0.06	0.34
(1,83)	1:2108:A:THR:HG21	1:2120:A:THR:HB	15	0.33	0.06	0.34
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	15	0.31	0.05	0.31
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	15	0.31	0.05	0.31
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	15	0.31	0.08	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB3	15	0.31	0.08	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	15	0.3	0.01	0.3
(1,69)	1:2112:A:VAL:HG11	1:2112:A:VAL:HB	15	0.3	0.01	0.3
(1,69)	1:2112:A:VAL:HG13	1:2112:A:VAL:HB	15	0.3	0.01	0.3
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG23	15	0.27	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)
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	15	0.27	0.05	0.26
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	15	0.27	0.05	0.26
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HG	15	0.24	0.02	0.24
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HG	15	0.24	0.02	0.24
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB3	15	0.24	0.02	0.24
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	15	0.24	0.02	0.24
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HG	15	0.24	0.02	0.24
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HB3	15	0.24	0.02	0.24
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	15	0.24	0.06	0.28
(1,1520)	1:2058:A:LEU:HD12	1:2058:A:LEU:HG	15	0.24	0.06	0.28
(1,1520)	1:2058:A:LEU:HD11	1:2058:A:LEU:HG	15	0.24	0.06	0.28
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	15	0.2	0.02	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	15	0.2	0.02	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG23	15	0.2	0.02	0.21
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	15	0.2	0.0	0.2
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	15	0.18	0.01	0.18
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	15	0.18	0.01	0.18
(1,60)	1:2077:A:THR:HG22	1:2077:A:THR:HB	15	0.18	0.01	0.18
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	15	0.17	0.01	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	15	0.17	0.01	0.17
(1,45)	1:2065:A:VAL:HG12	1:2065:A:VAL:HB	15	0.17	0.01	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	15	0.16	0.01	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG21	15	0.16	0.01	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	15	0.16	0.01	0.16
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	14	1.26	0.28	1.25
(1,1524)	1:2117:A:THR:HG21	1:2056:A:ASP:HA	14	1.26	0.28	1.25
(1,1524)	1:2117:A:THR:HG22	1:2113:A:ASP:HA	14	1.26	0.28	1.25
(1,1524)	1:2117:A:THR:HG23	1:2113:A:ASP:HA	14	1.26	0.28	1.25
(1,1524)	1:2117:A:THR:HG22	1:2056:A:ASP:HA	14	1.26	0.28	1.25
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	14	1.02	0.45	1.13
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	14	1.02	0.45	1.13
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG21	14	1.02	0.45	1.13
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	14	0.95	0.47	1.23
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	14	0.95	0.47	1.23
(1,133)	1:2078:A:ILE:HG21	1:2078:A:ILE:HG13	14	0.95	0.47	1.23
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG22	14	0.87	0.08	0.86
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG23	14	0.87	0.08	0.86
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG23	14	0.87	0.08	0.86
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG22	14	0.87	0.08	0.86
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG21	14	0.87	0.08	0.86
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG21	14	0.87	0.08	0.86
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	14	0.82	0.34	0.85

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	14	0.82	0.34	0.85
(1,84)	1:2117:A:THR:HG22	1:2055:A:GLY:HA2	14	0.82	0.34	0.85
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	14	0.82	0.48	0.76
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	14	0.77	0.29	0.73
(1,142)	1:2108:A:THR:HG23	1:2070:A:GLU:HB3	14	0.77	0.29	0.73
(1,142)	1:2108:A:THR:HG22	1:2070:A:GLU:HB3	14	0.77	0.29	0.73
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	14	0.65	0.05	0.66
(1,1588)	1:2101:A:VAL:HG21	1:2129:A:LYS:HG2	14	0.58	0.15	0.56
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	14	0.58	0.15	0.56
(1,1588)	1:2101:A:VAL:HG21	1:2129:A:LYS:HG3	14	0.58	0.15	0.56
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG2	14	0.58	0.15	0.56
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG3	14	0.58	0.15	0.56
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG3	14	0.58	0.15	0.56
(1,219)	1:2061:A:ILE:HG23	1:2063:A:GLU:HG3	14	0.56	0.1	0.6
(1,219)	1:2061:A:ILE:HG21	1:2063:A:GLU:HG3	14	0.56	0.1	0.6
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	14	0.56	0.1	0.6
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	14	0.55	0.13	0.56
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	14	0.55	0.13	0.56
(1,1350)	1:2077:A:THR:HG21	1:2078:A:ILE:HB	14	0.55	0.13	0.56
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	14	0.54	0.22	0.54
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG13	14	0.54	0.22	0.54
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG11	14	0.54	0.22	0.54
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	14	0.53	0.29	0.5
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	14	0.37	0.2	0.36
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	14	0.29	0.06	0.3
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	14	0.29	0.06	0.3
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	14	0.29	0.01	0.29
(1,36)	1:2065:A:VAL:HG22	1:2065:A:VAL:HA	14	0.29	0.01	0.29
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	14	0.29	0.01	0.29
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG23	14	0.22	0.05	0.22
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG22	14	0.22	0.05	0.22
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG23	14	0.22	0.05	0.22
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG22	14	0.22	0.05	0.22
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG21	14	0.22	0.05	0.22
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG21	14	0.22	0.05	0.22
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG12	14	0.16	0.02	0.16
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG13	14	0.16	0.02	0.16
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	14	0.16	0.02	0.16
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG13	14	0.16	0.02	0.16
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG11	14	0.16	0.02	0.16
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG11	14	0.16	0.02	0.16
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	14	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG12	13	1.15	0.31	1.18
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	13	1.15	0.31	1.18
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG11	13	1.15	0.31	1.18
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	13	1.07	0.28	1.12
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	13	1.07	0.11	1.03
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG11	13	1.07	0.52	0.88
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG11	13	1.07	0.52	0.88
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG13	13	1.07	0.52	0.88
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG12	13	1.07	0.52	0.88
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG12	13	1.07	0.52	0.88
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD2	13	0.87	0.18	0.95
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD1	13	0.87	0.18	0.95
(1,1257)	1:2119:A:VAL:HG11	1:2094:A:PHE:HD2	13	0.87	0.18	0.95
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD2	13	0.87	0.18	0.95
(1,1257)	1:2119:A:VAL:HG11	1:2094:A:PHE:HD1	13	0.87	0.18	0.95
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD1	13	0.87	0.18	0.95
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	13	0.82	0.33	0.69
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	13	0.79	0.33	0.79
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE2	13	0.79	0.33	0.79
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	13	0.77	0.29	0.95
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	13	0.71	0.52	0.5
(1,3)	1:2107:A:VAL:HG13	1:2076:A:LYS:HG3	13	0.71	0.52	0.5
(1,3)	1:2107:A:VAL:HG11	1:2076:A:LYS:HG3	13	0.71	0.52	0.5
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	13	0.66	0.18	0.66
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	13	0.53	0.33	0.4
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	13	0.49	0.21	0.54
(1,1351)	1:2087:A:VAL:HG21	1:2088:A:PRO:HB3	13	0.44	0.1	0.48
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	13	0.44	0.1	0.48
(1,1351)	1:2087:A:VAL:HG22	1:2088:A:PRO:HB3	13	0.44	0.1	0.48
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	13	0.37	0.15	0.29
(1,1383)	1:2078:A:ILE:HG23	1:2079:A:PRO:HG2	13	0.37	0.15	0.29
(1,1383)	1:2078:A:ILE:HG22	1:2079:A:PRO:HG2	13	0.37	0.15	0.29
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	13	0.32	0.13	0.37
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HG3	13	0.32	0.13	0.37
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	13	0.28	0.02	0.28
(1,54)	1:2119:A:VAL:HG21	1:2119:A:VAL:HA	13	0.28	0.02	0.28
(1,54)	1:2119:A:VAL:HG23	1:2119:A:VAL:HA	13	0.28	0.02	0.28
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	13	0.26	0.07	0.26
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	13	0.26	0.07	0.26
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	13	0.17	0.02	0.17
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	13	0.17	0.02	0.17
(1,43)	1:2059:A:VAL:HG22	1:2059:A:VAL:HB	13	0.17	0.02	0.17

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	13	0.16	0.04	0.15
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	13	0.14	0.02	0.14
(1,57)	1:2064:A:THR:HG21	1:2064:A:THR:HA	13	0.14	0.02	0.14
(1,57)	1:2064:A:THR:HG22	1:2064:A:THR:HA	13	0.14	0.02	0.14
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	12	1.06	0.62	0.95
(1,1339)	1:2093:A:THR:HG22	1:2075:A:GLU:HG2	12	1.06	0.62	0.95
(1,1339)	1:2093:A:THR:HG23	1:2075:A:GLU:HG2	12	1.06	0.62	0.95
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD2	12	0.94	0.49	0.91
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD3	12	0.94	0.49	0.91
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD3	12	0.94	0.49	0.91
(1,1354)	1:2128:A:THR:HG21	1:2129:A:LYS:HD2	12	0.94	0.49	0.91
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD2	12	0.94	0.49	0.91
(1,1352)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	12	0.84	0.33	0.85
(1,1352)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB3	12	0.84	0.33	0.85
(1,1352)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	12	0.84	0.33	0.85
(1,1352)	1:2130:A:VAL:HG12	1:2129:A:LYS:HB3	12	0.84	0.33	0.85
(1,1352)	1:2087:A:VAL:HG21	1:2092:A:VAL:HB	12	0.84	0.33	0.85
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG23	12	0.82	0.43	0.84
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG21	12	0.82	0.43	0.84
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD13	12	0.82	0.43	0.84
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD11	12	0.82	0.43	0.84
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD12	12	0.82	0.43	0.84
(1,1338)	1:2120:A:THR:HG21	1:2070:A:GLU:HG2	12	0.77	0.27	0.85
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	12	0.77	0.27	0.85
(1,1338)	1:2120:A:THR:HG22	1:2070:A:GLU:HG3	12	0.77	0.27	0.85
(1,1338)	1:2120:A:THR:HG21	1:2070:A:GLU:HG3	12	0.77	0.27	0.85
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	12	0.66	0.19	0.74
(1,1482)	1:2075:A:GLU:HA	1:2092:A:VAL:HG12	12	0.66	0.19	0.74
(1,1482)	1:2075:A:GLU:HA	1:2092:A:VAL:HG11	12	0.66	0.19	0.74
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	12	0.44	0.13	0.41
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	12	0.44	0.13	0.41
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG13	12	0.35	0.14	0.32
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	12	0.35	0.14	0.32
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG11	12	0.35	0.14	0.32
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	12	0.23	0.07	0.24
(1,6)	1:2061:A:ILE:HD11	1:2119:A:VAL:HB	12	0.23	0.07	0.24
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	12	0.23	0.07	0.24
(1,371)	1:2107:A:VAL:HG11	1:2107:A:VAL:HA	12	0.21	0.03	0.22
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	12	0.21	0.03	0.22
(1,371)	1:2107:A:VAL:HG13	1:2107:A:VAL:HA	12	0.21	0.03	0.22
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	11	1.53	0.46	1.69
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG22	11	1.15	0.71	1.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG13	11	1.15	0.71	1.21
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG13	11	1.15	0.71	1.21
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG21	11	1.15	0.71	1.21
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG12	11	1.15	0.71	1.21
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG11	11	1.15	0.71	1.21
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG11	11	1.15	0.71	1.21
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	11	1.03	0.65	1.17
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	11	0.7	0.42	0.54
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	11	0.55	0.19	0.47
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	11	0.54	0.35	0.46
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG12	11	0.53	0.22	0.51
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG21	11	0.53	0.22	0.51
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG11	11	0.53	0.22	0.51
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG23	11	0.53	0.22	0.51
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG13	11	0.53	0.22	0.51
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG22	11	0.53	0.22	0.51
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	11	0.5	0.22	0.5
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG23	11	0.49	0.42	0.32
(1,1327)	1:2086:A:ILE:HD13	1:2092:A:VAL:HG21	11	0.49	0.42	0.32
(1,1327)	1:2086:A:ILE:HD12	1:2092:A:VAL:HG23	11	0.49	0.42	0.32
(1,1327)	1:2086:A:ILE:HD12	1:2092:A:VAL:HG22	11	0.49	0.42	0.32
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG21	11	0.49	0.42	0.32
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	11	0.36	0.24	0.33
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	10	1.04	0.3	0.97
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG13	10	0.83	0.93	0.41
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG12	10	0.83	0.93	0.41
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG11	10	0.83	0.93	0.41
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	10	0.78	0.17	0.82
(1,1335)	1:2091:A:THR:HG22	1:2067:A:PRO:HG3	10	0.78	0.17	0.82
(1,1335)	1:2091:A:THR:HG23	1:2067:A:PRO:HG3	10	0.78	0.17	0.82
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG11	10	0.73	0.22	0.71
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG13	10	0.73	0.22	0.71
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG11	10	0.73	0.22	0.71
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG12	10	0.73	0.22	0.71
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG13	10	0.73	0.22	0.71
(1,440)	1:2058:A:LEU:HD11	1:2058:A:LEU:HB3	10	0.6	0.07	0.63
(1,440)	1:2058:A:LEU:HD12	1:2058:A:LEU:HB3	10	0.6	0.07	0.63
(1,440)	1:2058:A:LEU:HD13	1:2058:A:LEU:HB3	10	0.6	0.07	0.63
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	10	0.53	0.22	0.62
(1,1433)	1:2110:A:LYS:HE2	1:2118:A:PRO:HD2	10	0.53	0.22	0.62
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG2	10	0.49	0.21	0.52
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG3	10	0.49	0.21	0.52

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1356)	1:2101:A:VAL:HG12	1:2129:A:LYS:HG2	10	0.49	0.21	0.52
(1,1356)	1:2101:A:VAL:HG11	1:2129:A:LYS:HG2	10	0.49	0.21	0.52
(1,1356)	1:2101:A:VAL:HG12	1:2129:A:LYS:HG3	10	0.49	0.21	0.52
(1,1356)	1:2101:A:VAL:HG11	1:2129:A:LYS:HG3	10	0.49	0.21	0.52
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE2	10	0.41	0.28	0.32
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	10	0.41	0.28	0.32
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	10	0.35	0.06	0.36
(1,1363)	1:2109:A:VAL:HG23	1:2107:A:VAL:HG13	10	0.34	0.18	0.3
(1,1363)	1:2109:A:VAL:HG23	1:2107:A:VAL:HG11	10	0.34	0.18	0.3
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG13	10	0.34	0.18	0.3
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG11	10	0.34	0.18	0.3
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG12	10	0.34	0.18	0.3
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	10	0.27	0.08	0.28
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG22	10	0.15	0.03	0.15
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	10	0.15	0.03	0.15
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG21	10	0.15	0.03	0.15
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	9	0.67	0.33	0.74
(1,1424)	1:2108:A:THR:HG23	1:2070:A:GLU:HG3	9	0.63	0.12	0.63
(1,1424)	1:2108:A:THR:HG21	1:2070:A:GLU:HG2	9	0.63	0.12	0.63
(1,1424)	1:2108:A:THR:HG22	1:2070:A:GLU:HG3	9	0.63	0.12	0.63
(1,1424)	1:2108:A:THR:HG21	1:2070:A:GLU:HG3	9	0.63	0.12	0.63
(1,1437)	1:2114:A:LYS:HE3	1:2060:A:PRO:HG3	9	0.53	0.21	0.56
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	9	0.53	0.21	0.56
(1,1437)	1:2114:A:LYS:HE2	1:2060:A:PRO:HG3	9	0.53	0.21	0.56
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	9	0.52	0.2	0.52
(1,80)	1:2058:A:LEU:HD12	1:2058:A:LEU:HA	9	0.5	0.3	0.49
(1,80)	1:2058:A:LEU:HD11	1:2058:A:LEU:HA	9	0.5	0.3	0.49
(1,80)	1:2058:A:LEU:HD13	1:2058:A:LEU:HA	9	0.5	0.3	0.49
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	9	0.45	0.13	0.42
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	9	0.36	0.04	0.37
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG12	9	0.3	0.1	0.27
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG11	9	0.3	0.1	0.27
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG12	9	0.3	0.1	0.27
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG21	9	0.3	0.1	0.27
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	9	0.22	0.05	0.2
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG23	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG21	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG22	1:2083:A:THR:HG23	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG21	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG22	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG22	9	0.19	0.09	0.13
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG23	9	0.19	0.09	0.13

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,655)	1:2085:A:THR:HG22	1:2083:A:THR:HG22	9	0.19	0.09	0.13
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG21	9	0.19	0.04	0.19
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	9	0.19	0.04	0.19
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG22	9	0.19	0.04	0.19
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	9	0.13	0.02	0.14
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	9	0.13	0.01	0.12
(1,30)	1:2093:A:THR:HG22	1:2093:A:THR:HA	9	0.13	0.01	0.12
(1,30)	1:2093:A:THR:HG23	1:2093:A:THR:HA	9	0.13	0.01	0.12
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	8	0.97	0.27	1.07
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	8	0.62	0.34	0.58
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	8	0.4	0.17	0.36
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD3	8	0.4	0.15	0.4
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	8	0.4	0.15	0.4
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE1	8	0.4	0.19	0.41
(1,1223)	1:2107:A:VAL:HG13	1:2069:A:PHE:HE1	8	0.4	0.19	0.41
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE2	8	0.4	0.19	0.41
(1,1223)	1:2107:A:VAL:HG13	1:2069:A:PHE:HE2	8	0.4	0.19	0.41
(1,1223)	1:2107:A:VAL:HG11	1:2069:A:PHE:HE1	8	0.4	0.19	0.41
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	8	0.29	0.08	0.32
(1,1468)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD2	8	0.29	0.03	0.3
(1,1468)	1:2087:A:VAL:HG23	1:2088:A:PRO:HD2	8	0.29	0.03	0.3
(1,1468)	1:2087:A:VAL:HG11	1:2088:A:PRO:HD2	8	0.29	0.03	0.3
(1,1468)	1:2087:A:VAL:HG21	1:2088:A:PRO:HD2	8	0.29	0.03	0.3
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG22	8	0.25	0.06	0.26
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG23	8	0.25	0.06	0.26
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	8	0.13	0.03	0.13
(1,1521)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	7	1.17	0.91	0.51
(1,1521)	1:2058:A:LEU:HD11	1:2057:A:PRO:HG2	7	1.17	0.91	0.51
(1,1521)	1:2058:A:LEU:HD12	1:2057:A:PRO:HG2	7	1.17	0.91	0.51
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	7	0.79	0.19	0.85
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG13	7	0.79	0.19	0.85
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG12	7	0.79	0.19	0.85
(1,607)	1:2092:A:VAL:HG13	1:2109:A:VAL:HB	7	0.77	0.56	0.61
(1,607)	1:2092:A:VAL:HG11	1:2109:A:VAL:HB	7	0.77	0.56	0.61
(1,607)	1:2092:A:VAL:HG12	1:2109:A:VAL:HB	7	0.77	0.56	0.61
(1,556)	1:2119:A:VAL:HG22	1:2094:A:PHE:HD2	7	0.72	0.51	0.54
(1,556)	1:2119:A:VAL:HG23	1:2094:A:PHE:HD2	7	0.72	0.51	0.54
(1,556)	1:2119:A:VAL:HG22	1:2094:A:PHE:HD1	7	0.72	0.51	0.54
(1,556)	1:2119:A:VAL:HG21	1:2094:A:PHE:HD1	7	0.72	0.51	0.54
(1,556)	1:2119:A:VAL:HG23	1:2094:A:PHE:HD1	7	0.72	0.51	0.54
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD13	7	0.7	0.67	0.46
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	7	0.7	0.67	0.46

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD12	7	0.7	0.67	0.46
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG12	7	0.68	0.89	0.43
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG11	7	0.68	0.89	0.43
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG13	7	0.68	0.89	0.43
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	7	0.68	0.19	0.75
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG23	7	0.57	0.3	0.56
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG21	7	0.57	0.3	0.56
(1,1324)	1:2123:A:TYR:HD1	1:2122:A:THR:HG21	7	0.57	0.3	0.56
(1,1324)	1:2123:A:TYR:HD1	1:2122:A:THR:HG22	7	0.57	0.3	0.56
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG12	7	0.54	0.25	0.47
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG11	7	0.54	0.25	0.47
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG13	7	0.54	0.25	0.47
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG12	7	0.54	0.25	0.47
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG13	7	0.54	0.25	0.47
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG23	7	0.53	0.27	0.56
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG22	7	0.53	0.27	0.56
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG21	7	0.53	0.27	0.56
(1,1364)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	7	0.51	0.32	0.49
(1,1364)	1:2085:A:THR:HG21	1:2075:A:GLU:HG2	7	0.51	0.32	0.49
(1,1364)	1:2085:A:THR:HG22	1:2075:A:GLU:HG2	7	0.51	0.32	0.49
(1,1364)	1:2085:A:THR:HG23	1:2075:A:GLU:HG2	7	0.51	0.32	0.49
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD13	7	0.49	0.45	0.39
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD11	7	0.49	0.45	0.39
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD12	7	0.49	0.45	0.39
(1,460)	1:2059:A:VAL:HG21	1:2058:A:LEU:HB3	7	0.46	0.09	0.44
(1,460)	1:2059:A:VAL:HG22	1:2058:A:LEU:HB3	7	0.46	0.09	0.44
(1,460)	1:2059:A:VAL:HG23	1:2058:A:LEU:HB3	7	0.46	0.09	0.44
(1,1211)	1:2107:A:VAL:HG12	1:2069:A:PHE:HD1	7	0.42	0.29	0.23
(1,1211)	1:2107:A:VAL:HG13	1:2069:A:PHE:HD1	7	0.42	0.29	0.23
(1,1211)	1:2107:A:VAL:HG13	1:2069:A:PHE:HD2	7	0.42	0.29	0.23
(1,1211)	1:2107:A:VAL:HG12	1:2069:A:PHE:HD2	7	0.42	0.29	0.23
(1,1211)	1:2107:A:VAL:HG11	1:2069:A:PHE:HD1	7	0.42	0.29	0.23
(1,1353)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	7	0.42	0.21	0.41
(1,1353)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	7	0.42	0.21	0.41
(1,1353)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB2	7	0.42	0.21	0.41
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG22	7	0.39	0.15	0.43
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG21	7	0.39	0.15	0.43
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG23	7	0.39	0.15	0.43
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG22	7	0.3	0.12	0.31
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG21	7	0.3	0.12	0.31
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG23	7	0.3	0.12	0.31
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG22	7	0.22	0.07	0.25

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG23	7	0.22	0.07	0.25
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG21	7	0.22	0.07	0.25
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	7	0.2	0.06	0.18
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	7	0.16	0.03	0.17
(1,70)	1:2101:A:VAL:HG12	1:2101:A:VAL:HB	7	0.11	0.01	0.11
(1,70)	1:2101:A:VAL:HG11	1:2101:A:VAL:HB	7	0.11	0.01	0.11
(1,70)	1:2101:A:VAL:HG13	1:2101:A:VAL:HB	7	0.11	0.01	0.11
(1,23)	1:2091:A:THR:HG21	1:2089:A:ASP:HB2	6	1.26	0.1	1.25
(1,23)	1:2091:A:THR:HG23	1:2089:A:ASP:HB2	6	1.26	0.1	1.25
(1,23)	1:2091:A:THR:HG22	1:2089:A:ASP:HB2	6	1.26	0.1	1.25
(1,278)	1:2068:A:THR:HG22	1:2074:A:LYS:HE2	6	1.07	0.07	1.06
(1,278)	1:2068:A:THR:HG23	1:2074:A:LYS:HE2	6	1.07	0.07	1.06
(1,278)	1:2068:A:THR:HG21	1:2074:A:LYS:HE2	6	1.07	0.07	1.06
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	6	1.02	0.09	1.02
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	6	0.82	0.14	0.87
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	6	0.56	0.49	0.34
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	6	0.48	0.03	0.46
(1,1527)	1:2101:A:VAL:HG13	1:2129:A:LYS:HE2	6	0.45	0.26	0.4
(1,1527)	1:2101:A:VAL:HG13	1:2129:A:LYS:HE3	6	0.45	0.26	0.4
(1,1527)	1:2101:A:VAL:HG12	1:2129:A:LYS:HE2	6	0.45	0.26	0.4
(1,1527)	1:2101:A:VAL:HG11	1:2129:A:LYS:HE3	6	0.45	0.26	0.4
(1,1527)	1:2101:A:VAL:HG12	1:2129:A:LYS:HE3	6	0.45	0.26	0.4
(1,1608)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	6	0.43	0.3	0.33
(1,1608)	1:2113:A:ASP:HB2	1:2112:A:VAL:HG22	6	0.43	0.3	0.33
(1,1608)	1:2113:A:ASP:HB2	1:2112:A:VAL:HG23	6	0.43	0.3	0.33
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD2	6	0.31	0.06	0.3
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD3	6	0.31	0.06	0.3
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG21	6	0.27	0.08	0.3
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG22	6	0.27	0.08	0.3
(1,1594)	1:2085:A:THR:HG23	1:2077:A:THR:HB	6	0.27	0.04	0.28
(1,1594)	1:2085:A:THR:HG23	1:2093:A:THR:HB	6	0.27	0.04	0.28
(1,1594)	1:2085:A:THR:HG22	1:2093:A:THR:HB	6	0.27	0.04	0.28
(1,1594)	1:2085:A:THR:HG21	1:2077:A:THR:HB	6	0.27	0.04	0.28
(1,162)	1:2059:A:VAL:HG13	1:2114:A:LYS:HB2	6	0.26	0.08	0.24
(1,162)	1:2059:A:VAL:HG11	1:2114:A:LYS:HB2	6	0.26	0.08	0.24
(1,162)	1:2059:A:VAL:HG12	1:2114:A:LYS:HB2	6	0.26	0.08	0.24
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	6	0.23	0.07	0.22
(1,56)	1:2101:A:VAL:HG13	1:2129:A:LYS:HA	6	0.21	0.05	0.2
(1,56)	1:2101:A:VAL:HG11	1:2129:A:LYS:HA	6	0.21	0.05	0.2
(1,56)	1:2101:A:VAL:HG12	1:2129:A:LYS:HA	6	0.21	0.05	0.2
(1,96)	1:2121:A:ALA:HB2	1:2109:A:VAL:HB	6	0.19	0.07	0.18
(1,96)	1:2121:A:ALA:HB1	1:2109:A:VAL:HB	6	0.19	0.07	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,96)	1:2121:A:ALA:HB3	1:2109:A:VAL:HB	6	0.19	0.07	0.18
(1,1596)	1:2059:A:VAL:HG23	1:2058:A:LEU:HA	6	0.19	0.08	0.17
(1,1596)	1:2059:A:VAL:HG21	1:2058:A:LEU:HA	6	0.19	0.08	0.17
(1,1596)	1:2059:A:VAL:HG22	1:2058:A:LEU:HA	6	0.19	0.08	0.17
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	6	0.12	0.0	0.12
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG23	5	1.65	0.97	1.69
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG22	5	1.65	0.97	1.69
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG21	5	1.65	0.97	1.69
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	5	1.19	0.17	1.15
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	5	0.71	0.54	0.34
(1,1268)	1:2123:A:TYR:HD2	1:2127:A:PHE:HB3	5	0.71	0.3	0.67
(1,1268)	1:2123:A:TYR:HD1	1:2127:A:PHE:HB3	5	0.71	0.3	0.67
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG23	5	0.57	0.3	0.52
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG22	5	0.57	0.3	0.52
(1,1450)	1:2114:A:LYS:HE3	1:2060:A:PRO:HB3	5	0.45	0.2	0.53
(1,1450)	1:2114:A:LYS:HE2	1:2060:A:PRO:HB3	5	0.45	0.2	0.53
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD13	5	0.45	0.32	0.43
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD12	5	0.45	0.32	0.43
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD11	5	0.45	0.32	0.43
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	5	0.35	0.2	0.25
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	5	0.33	0.11	0.37
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG22	5	0.31	0.09	0.31
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG23	5	0.31	0.09	0.31
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	5	0.27	0.12	0.24
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG11	5	0.26	0.16	0.19
(1,1533)	1:2110:A:LYS:HE2	1:2112:A:VAL:HG13	5	0.26	0.16	0.19
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG12	5	0.26	0.16	0.19
(1,59)	1:2108:A:THR:HG23	1:2108:A:THR:HB	5	0.1	0.0	0.1
(1,59)	1:2108:A:THR:HG21	1:2108:A:THR:HB	5	0.1	0.0	0.1
(1,59)	1:2108:A:THR:HG22	1:2108:A:THR:HB	5	0.1	0.0	0.1
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD11	4	1.46	0.49	1.6
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD13	4	1.46	0.49	1.6
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD12	4	1.46	0.49	1.6
(1,92)	1:2083:A:THR:HG23	1:2075:A:GLU:HG3	4	1.17	0.57	1.21
(1,92)	1:2083:A:THR:HG22	1:2075:A:GLU:HG3	4	1.17	0.57	1.21
(1,92)	1:2083:A:THR:HG21	1:2075:A:GLU:HG3	4	1.17	0.57	1.21
(1,1519)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	4	1.1	0.53	1.28
(1,1519)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	4	1.1	0.53	1.28
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG22	4	0.86	0.44	1.08
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG21	4	0.86	0.44	1.08
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG23	4	0.86	0.44	1.08
(1,590)	1:2091:A:THR:HG22	1:2063:A:GLU:HG3	4	0.67	0.35	0.65

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,590)	1:2091:A:THR:HG21	1:2063:A:GLU:HG3	4	0.67	0.35	0.65
(1,61)	1:2101:A:VAL:HG11	1:2101:A:VAL:HA	4	0.6	0.03	0.6
(1,61)	1:2101:A:VAL:HG12	1:2101:A:VAL:HA	4	0.6	0.03	0.6
(1,1255)	1:2061:A:ILE:HD12	1:2094:A:PHE:HD1	4	0.55	0.18	0.61
(1,1255)	1:2061:A:ILE:HD13	1:2094:A:PHE:HD2	4	0.55	0.18	0.61
(1,1255)	1:2061:A:ILE:HD13	1:2094:A:PHE:HD1	4	0.55	0.18	0.61
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB2	4	0.46	0.08	0.44
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB3	4	0.46	0.08	0.44
(1,616)	1:2082:A:GLY:HA2	1:2097:A:ASP:HB3	4	0.45	0.23	0.34
(1,1536)	1:2070:A:GLU:HG3	1:2110:A:LYS:HD3	4	0.44	0.13	0.4
(1,1536)	1:2070:A:GLU:HG2	1:2110:A:LYS:HD3	4	0.44	0.13	0.4
(1,249)	1:2058:A:LEU:HD22	1:2058:A:LEU:HB3	4	0.44	0.06	0.46
(1,249)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB3	4	0.44	0.06	0.46
(1,249)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	4	0.44	0.06	0.46
(1,1336)	1:2112:A:VAL:HG21	1:2110:A:LYS:HE2	4	0.44	0.34	0.32
(1,1336)	1:2112:A:VAL:HG22	1:2110:A:LYS:HE3	4	0.44	0.34	0.32
(1,1509)	1:2130:A:VAL:HA	1:2129:A:LYS:HG3	4	0.44	0.24	0.39
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG13	4	0.42	0.18	0.47
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG11	4	0.42	0.18	0.47
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG12	4	0.42	0.18	0.47
(1,1434)	1:2114:A:LYS:HB3	1:2114:A:LYS:HE2	4	0.41	0.15	0.45
(1,1434)	1:2114:A:LYS:HE3	1:2060:A:PRO:HG2	4	0.41	0.15	0.45
(1,1568)	1:2098:A:LYS:HE2	1:2098:A:LYS:HB2	4	0.37	0.15	0.43
(1,1568)	1:2098:A:LYS:HE3	1:2098:A:LYS:HB2	4	0.37	0.15	0.43
(1,1568)	1:2098:A:LYS:HE2	1:2098:A:LYS:HB3	4	0.37	0.15	0.43
(1,1793)	1:2078:A:ILE:HD11	1:2084:A:TYR:HE1	4	0.36	0.13	0.38
(1,1793)	1:2078:A:ILE:HD11	1:2084:A:TYR:HE2	4	0.36	0.13	0.38
(1,1793)	1:2078:A:ILE:HD12	1:2084:A:TYR:HE2	4	0.36	0.13	0.38
(1,1793)	1:2084:A:TYR:HE2	1:2083:A:THR:HG21	4	0.36	0.13	0.38
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD12	4	0.32	0.09	0.31
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD13	4	0.32	0.09	0.31
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD11	4	0.32	0.09	0.31
(1,1346)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD3	4	0.31	0.02	0.3
(1,1346)	1:2087:A:VAL:HG13	1:2088:A:PRO:HD3	4	0.31	0.02	0.3
(1,1346)	1:2087:A:VAL:HG11	1:2088:A:PRO:HD3	4	0.31	0.02	0.3
(1,233)	1:2078:A:ILE:HD13	1:2078:A:ILE:HB	4	0.31	0.02	0.3
(1,233)	1:2078:A:ILE:HD11	1:2078:A:ILE:HB	4	0.31	0.02	0.3
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG12	4	0.3	0.12	0.32
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG11	4	0.3	0.12	0.32
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG13	4	0.3	0.12	0.32
(1,411)	1:2104:A:PRO:HA	1:2078:A:ILE:HD13	4	0.3	0.11	0.34
(1,739)	1:2058:A:LEU:H	1:2056:A:ASP:HB2	4	0.24	0.1	0.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB2	4	0.23	0.08	0.24
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB3	4	0.23	0.08	0.24
(1,1332)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG12	4	0.22	0.01	0.23
(1,1332)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG12	4	0.22	0.01	0.23
(1,1329)	1:2061:A:ILE:HG23	1:2111:A:ARG:HG2	4	0.21	0.06	0.2
(1,1329)	1:2061:A:ILE:HG22	1:2111:A:ARG:HG2	4	0.21	0.06	0.2
(1,1329)	1:2061:A:ILE:HG21	1:2112:A:VAL:HG21	4	0.21	0.06	0.2
(1,696)	1:2057:A:PRO:HA	1:2058:A:LEU:HD22	4	0.21	0.05	0.2
(1,217)	1:2085:A:THR:HG21	1:2075:A:GLU:HG3	4	0.2	0.03	0.21
(1,217)	1:2085:A:THR:HG23	1:2075:A:GLU:HG3	4	0.2	0.03	0.21
(1,1368)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE3	4	0.13	0.02	0.13
(1,1368)	1:2129:A:LYS:HG2	1:2129:A:LYS:HE2	4	0.13	0.02	0.13
(1,1229)	1:2069:A:PHE:HD2	1:2092:A:VAL:HG12	3	0.94	0.2	1.0
(1,1229)	1:2069:A:PHE:HD1	1:2092:A:VAL:HG13	3	0.94	0.2	1.0
(1,1229)	1:2069:A:PHE:HD2	1:2092:A:VAL:HG11	3	0.94	0.2	1.0
(1,745)	1:2058:A:LEU:H	1:2058:A:LEU:HD12	3	0.9	0.07	0.93
(1,745)	1:2058:A:LEU:H	1:2058:A:LEU:HD11	3	0.9	0.07	0.93
(1,1416)	1:2099:A:GLN:HG3	1:2098:A:LYS:HD2	3	0.9	0.74	0.43
(1,1008)	1:2093:A:THR:H	1:2093:A:THR:HG21	3	0.73	0.18	0.84
(1,1008)	1:2093:A:THR:H	1:2093:A:THR:HG22	3	0.73	0.18	0.84
(1,1454)	1:2129:A:LYS:HE2	1:2129:A:LYS:HB3	3	0.67	0.04	0.66
(1,1454)	1:2129:A:LYS:HE3	1:2129:A:LYS:HB3	3	0.67	0.04	0.66
(1,1417)	1:2099:A:GLN:HG2	1:2098:A:LYS:HG3	3	0.5	0.11	0.54
(1,888)	1:2075:A:GLU:H	1:2075:A:GLU:HB3	3	0.5	0.02	0.49
(1,1752)	1:2130:A:VAL:H	1:2129:A:LYS:HB2	3	0.5	0.01	0.49
(1,1544)	1:2098:A:LYS:HB2	1:2098:A:LYS:HD2	3	0.49	0.1	0.44
(1,1228)	1:2092:A:VAL:HG12	1:2069:A:PHE:HE2	3	0.44	0.08	0.41
(1,1228)	1:2092:A:VAL:HG13	1:2069:A:PHE:HE1	3	0.44	0.08	0.41
(1,1228)	1:2092:A:VAL:HG11	1:2069:A:PHE:HE2	3	0.44	0.08	0.41
(1,522)	1:2084:A:TYR:HB3	1:2107:A:VAL:HG21	3	0.42	0.23	0.26
(1,522)	1:2084:A:TYR:HB3	1:2107:A:VAL:HG23	3	0.42	0.23	0.26
(1,1567)	1:2098:A:LYS:HE3	1:2098:A:LYS:HG2	3	0.39	0.21	0.51
(1,1567)	1:2098:A:LYS:HE2	1:2098:A:LYS:HG3	3	0.39	0.21	0.51
(1,1101)	1:2115:A:ASN:HD21	1:2059:A:VAL:HG23	3	0.36	0.18	0.31
(1,1101)	1:2115:A:ASN:HD21	1:2059:A:VAL:HG22	3	0.36	0.18	0.31
(1,90)	1:2083:A:THR:HG22	1:2075:A:GLU:HG2	3	0.33	0.07	0.31
(1,38)	1:2093:A:THR:HG23	1:2095:A:THR:HB	3	0.31	0.17	0.29
(1,38)	1:2093:A:THR:HG21	1:2095:A:THR:HB	3	0.31	0.17	0.29
(1,41)	1:2059:A:VAL:HG22	1:2056:A:ASP:HB3	3	0.29	0.03	0.3
(1,41)	1:2059:A:VAL:HG21	1:2056:A:ASP:HB3	3	0.29	0.03	0.3
(1,1570)	1:2129:A:LYS:HG2	1:2129:A:LYS:HE3	3	0.27	0.14	0.21
(1,1570)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE2	3	0.27	0.14	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1270)	1:2127:A:PHE:HB2	1:2123:A:TYR:HE1	3	0.27	0.1	0.25
(1,1270)	1:2127:A:PHE:HB2	1:2123:A:TYR:HE2	3	0.27	0.1	0.25
(1,478)	1:2074:A:LYS:HE2	1:2068:A:THR:HA	3	0.23	0.1	0.22
(1,389)	1:2070:A:GLU:HA	1:2110:A:LYS:HD2	3	0.23	0.04	0.2
(1,1778)	1:2127:A:PHE:HB3	1:2123:A:TYR:HE1	3	0.19	0.01	0.2
(1,1778)	1:2127:A:PHE:HB3	1:2123:A:TYR:HE2	3	0.19	0.01	0.2
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG23	3	0.19	0.04	0.19
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG21	3	0.19	0.04	0.19
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG22	3	0.19	0.04	0.19
(1,358)	1:2129:A:LYS:HA	1:2101:A:VAL:HG22	3	0.17	0.05	0.15
(1,1585)	1:2106:A:PRO:HG3	1:2105:A:ASP:HB3	3	0.16	0.06	0.14
(1,1585)	1:2089:A:ASP:HB2	1:2088:A:PRO:HB3	3	0.16	0.06	0.14
(1,1448)	1:2059:A:VAL:HG13	1:2114:A:LYS:HE3	3	0.15	0.02	0.16
(1,1448)	1:2059:A:VAL:HG11	1:2114:A:LYS:HE2	3	0.15	0.02	0.16
(1,1448)	1:2059:A:VAL:HG12	1:2114:A:LYS:HE2	3	0.15	0.02	0.16
(1,1733)	1:2073:A:SER:H	1:2074:A:LYS:HB2	3	0.14	0.03	0.13
(3,2)	1:2110:A:LYS:H	1:2068:A:THR:O	3	0.14	0.01	0.14
(1,274)	1:2074:A:LYS:HE3	1:2074:A:LYS:HG3	3	0.12	0.01	0.13
(1,695)	1:2057:A:PRO:HA	1:2058:A:LEU:HD12	2	1.39	0.97	1.39
(1,695)	1:2057:A:PRO:HA	1:2058:A:LEU:HD11	2	1.39	0.97	1.39
(1,648)	1:2078:A:ILE:HG12	1:2076:A:LYS:HE3	2	1.12	0.27	1.12
(1,462)	1:2112:A:VAL:HA	1:2119:A:VAL:HG11	2	1.06	0.06	1.06
(1,1331)	1:2078:A:ILE:HD12	1:2076:A:LYS:HB2	2	0.96	0.02	0.96
(1,1331)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD2	2	0.96	0.02	0.96
(1,470)	1:2058:A:LEU:HD11	1:2060:A:PRO:HD3	2	0.94	0.74	0.94
(1,470)	1:2058:A:LEU:HD13	1:2060:A:PRO:HD3	2	0.94	0.74	0.94
(1,288)	1:2055:A:GLY:HA2	1:2119:A:VAL:HG21	2	0.72	0.49	0.72
(1,288)	1:2055:A:GLY:HA2	1:2119:A:VAL:HG22	2	0.72	0.49	0.72
(1,1456)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG12	2	0.68	0.14	0.68
(1,1456)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG13	2	0.68	0.14	0.68
(1,1612)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD3	2	0.68	0.04	0.68
(1,1612)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD2	2	0.68	0.04	0.68
(1,609)	1:2061:A:ILE:HG22	1:2111:A:ARG:HA	2	0.67	0.13	0.67
(1,609)	1:2061:A:ILE:HG21	1:2111:A:ARG:HA	2	0.67	0.13	0.67
(1,1132)	1:2119:A:VAL:H	1:2119:A:VAL:HG11	2	0.6	0.03	0.6
(1,16)	1:2078:A:ILE:HD12	1:2078:A:ILE:HG22	2	0.6	0.16	0.6
(1,16)	1:2078:A:ILE:HD12	1:2078:A:ILE:HG23	2	0.6	0.16	0.6
(1,1556)	1:2114:A:LYS:HE2	1:2060:A:PRO:HG3	2	0.58	0.0	0.58
(1,617)	1:2097:A:ASP:HB2	1:2082:A:GLY:HA2	2	0.52	0.29	0.52
(1,410)	1:2104:A:PRO:HA	1:2081:A:GLN:HB2	2	0.43	0.29	0.43
(1,1786)	1:2092:A:VAL:HG13	1:2069:A:PHE:HE1	2	0.38	0.03	0.38
(1,1786)	1:2092:A:VAL:HG11	1:2069:A:PHE:HE2	2	0.38	0.03	0.38

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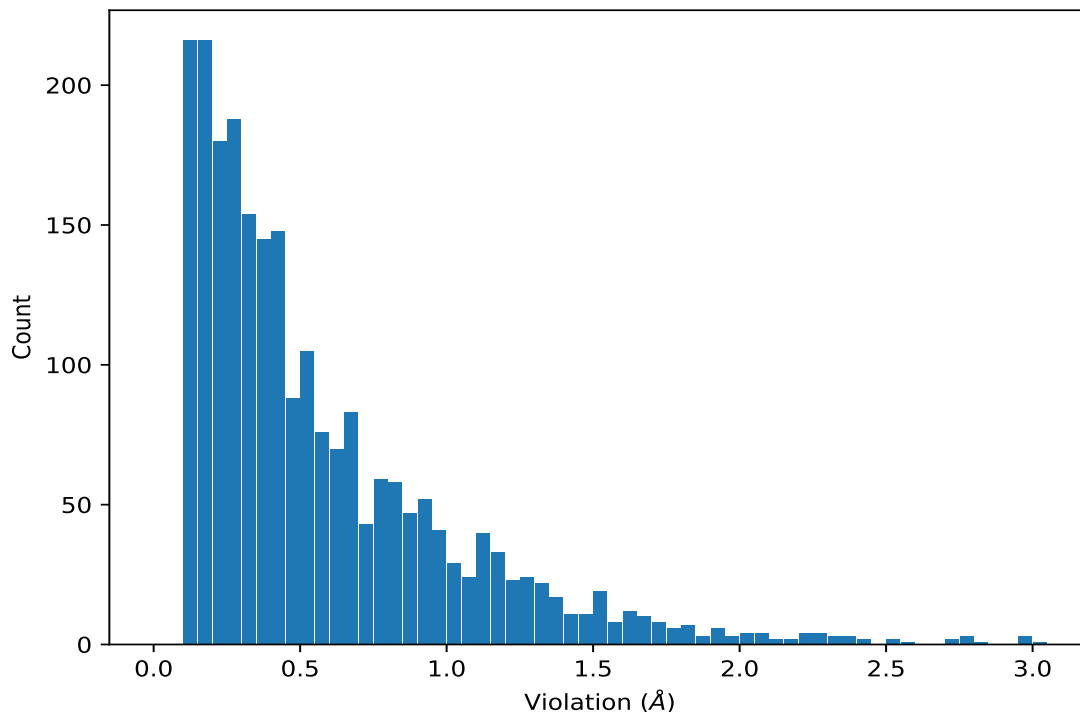
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,119)	1:2058:A:LEU:HG	1:2058:A:LEU:HA	2	0.31	0.01	0.31
(1,725)	1:2111:A:ARG:HD3	1:2061:A:ILE:HG23	2	0.3	0.12	0.3
(1,725)	1:2111:A:ARG:HD3	1:2061:A:ILE:HG22	2	0.3	0.12	0.3
(1,613)	1:2061:A:ILE:HG23	1:2111:A:ARG:HG3	2	0.3	0.08	0.3
(1,613)	1:2061:A:ILE:HG22	1:2111:A:ARG:HG3	2	0.3	0.08	0.3
(1,1043)	1:2105:A:ASP:H	1:2078:A:ILE:HD13	2	0.28	0.14	0.28
(1,1043)	1:2105:A:ASP:H	1:2078:A:ILE:HD11	2	0.28	0.14	0.28
(1,1610)	1:2110:A:LYS:HG3	1:2110:A:LYS:HE2	2	0.26	0.01	0.26
(1,1432)	1:2114:A:LYS:HE2	1:2062:A:ASP:HA	2	0.26	0.12	0.26
(1,150)	1:2110:A:LYS:HD3	1:2118:A:PRO:HB2	2	0.25	0.12	0.25
(1,1358)	1:2117:A:THR:HG21	1:2118:A:PRO:HB2	2	0.24	0.1	0.24
(1,661)	1:2107:A:VAL:HB	1:2069:A:PHE:HE2	2	0.24	0.1	0.24
(3,25)	1:2059:A:VAL:H	1:2056:A:ASP:O	2	0.24	0.03	0.24
(1,612)	1:2061:A:ILE:HD11	1:2111:A:ARG:HG3	2	0.23	0.04	0.23
(1,612)	1:2061:A:ILE:HD13	1:2111:A:ARG:HG3	2	0.23	0.04	0.23
(1,1753)	1:2130:A:VAL:H	1:2129:A:LYS:HG3	2	0.22	0.08	0.22
(1,1060)	1:2111:A:ARG:H	1:2061:A:ILE:HG22	2	0.21	0.09	0.21
(1,1060)	1:2111:A:ARG:H	1:2061:A:ILE:HG21	2	0.21	0.09	0.21
(1,89)	1:2059:A:VAL:HG12	1:2113:A:ASP:HB2	2	0.2	0.01	0.2
(1,89)	1:2059:A:VAL:HG13	1:2113:A:ASP:HB2	2	0.2	0.01	0.2
(1,594)	1:2108:A:THR:HG23	1:2107:A:VAL:HG13	2	0.2	0.02	0.2
(1,594)	1:2108:A:THR:HG22	1:2107:A:VAL:HG11	2	0.2	0.02	0.2
(1,1330)	1:2061:A:ILE:HG21	1:2111:A:ARG:HD2	2	0.16	0.01	0.16
(1,1330)	1:2061:A:ILE:HG23	1:2111:A:ARG:HD2	2	0.16	0.01	0.16
(1,1293)	1:2069:A:PHE:HZ	1:2076:A:LYS:HG3	2	0.16	0.04	0.16
(1,1051)	1:2108:A:THR:H	1:2107:A:VAL:HG21	2	0.15	0.02	0.15
(1,1051)	1:2108:A:THR:H	1:2107:A:VAL:HG22	2	0.15	0.02	0.15
(1,1780)	1:2069:A:PHE:HD1	1:2084:A:TYR:HA	2	0.14	0.01	0.14
(1,155)	1:2110:A:LYS:HD3	1:2118:A:PRO:HG2	2	0.13	0.01	0.13
(1,757)	1:2059:A:VAL:H	1:2059:A:VAL:HG12	2	0.13	0.01	0.13
(1,795)	1:2063:A:GLU:H	1:2063:A:GLU:HG2	2	0.13	0.02	0.13
(3,21)	1:2117:A:THR:H	1:2113:A:ASP:OD1	2	0.12	0.01	0.12
(1,311)	1:2088:A:PRO:HD2	1:2087:A:VAL:HA	2	0.12	0.02	0.12
(1,863)	1:2072:A:GLY:H	1:2068:A:THR:HG1	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)
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG23	4	3.04
(1,1656)	1:2061:A:ILE:HG21	1:2110:A:LYS:HE3	5	2.99
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	9	2.97
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	13	2.95
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG12	9	2.83
(1,1656)	1:2061:A:ILE:HG23	1:2056:A:ASP:HB3	2	2.78
(1,1656)	1:2061:A:ILE:HG23	1:2110:A:LYS:HE3	12	2.77
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG12	8	2.77
(1,1656)	1:2061:A:ILE:HG22	1:2056:A:ASP:HB3	1	2.73
(1,1521)	1:2058:A:LEU:HD11	1:2057:A:PRO:HG2	7	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG12	3	2.58
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG21	10	2.51
(1,1339)	1:2093:A:THR:HG22	1:2075:A:GLU:HG2	2	2.51
(1,1656)	1:2061:A:ILE:HG22	1:2056:A:ASP:HB3	6	2.44
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	9	2.44
(1,695)	1:2057:A:PRO:HA	1:2058:A:LEU:HD12	2	2.36
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	9	2.35
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	14	2.35
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG21	7	2.33
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD13	2	2.33
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	1	2.32
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG23	6	2.29
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	13	2.28
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG21	6	2.26
(1,1656)	1:2061:A:ILE:HG23	1:2056:A:ASP:HB3	14	2.25
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG21	6	2.23
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	15	2.22
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	4	2.21
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG11	15	2.2
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	4	2.16
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	12	2.15
(1,543)	1:2083:A:THR:HG21	1:2075:A:GLU:HB2	10	2.12
(1,1656)	1:2061:A:ILE:HG22	1:2110:A:LYS:HE3	15	2.11
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	5	2.09
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	8	2.09
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	1	2.09
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	13	2.07
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	12	2.03
(1,607)	1:2092:A:VAL:HG12	1:2109:A:VAL:HB	9	2.02
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG23	2	2.01
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	5	2.01
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	8	1.99
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	3	1.95
(1,1416)	1:2099:A:GLN:HG3	1:2098:A:LYS:HD2	15	1.95
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD11	9	1.93
(1,1521)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	2	1.92
(1,1354)	1:2128:A:THR:HG21	1:2129:A:LYS:HD2	14	1.91
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	9	1.91
(1,1521)	1:2058:A:LEU:HD11	1:2057:A:PRO:HG2	4	1.9
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	2	1.9
(1,1620)	1:2095:A:THR:HG23	1:2069:A:PHE:HZ	1	1.88
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD11	1	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	8	1.85
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG11	10	1.84
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG21	4	1.84
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	13	1.83
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG12	14	1.82
(1,1620)	1:2108:A:THR:HG23	1:2069:A:PHE:HZ	12	1.81
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	4	1.81
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	15	1.8
(1,1429)	1:2123:A:TYR:HB3	1:2109:A:VAL:HG22	11	1.79
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	14	1.78
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	15	1.77
(1,92)	1:2083:A:THR:HG23	1:2075:A:GLU:HG3	12	1.77
(1,1620)	1:2108:A:THR:HG22	1:2069:A:PHE:HZ	13	1.76
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	7	1.75
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD2	2	1.74
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	4	1.74
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	7	1.73
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	5	1.73
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	2	1.72
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	12	1.71
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	14	1.71
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	12	1.7
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	3	1.69
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	6	1.69
(1,1620)	1:2108:A:THR:HG23	1:2069:A:PHE:HZ	2	1.69
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG11	13	1.69
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG11	2	1.69
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG21	13	1.69
(1,92)	1:2083:A:THR:HG22	1:2075:A:GLU:HG3	10	1.69
(1,470)	1:2058:A:LEU:HD11	1:2060:A:PRO:HD3	2	1.68
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	2	1.67
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	14	1.67
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	1	1.64
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	6	1.63
(1,3)	1:2107:A:VAL:HG13	1:2076:A:LYS:HG3	2	1.63
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	11	1.62
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	11	1.62
(1,365)	1:2084:A:TYR:HA	1:2092:A:VAL:HG13	9	1.62
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	6	1.62
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	5	1.61
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	6	1.61
(1,1519)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	2	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:2119:A:VAL:HG22	1:2094:A:PHE:HD1	8	1.61
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	2	1.61
(1,1620)	1:2108:A:THR:HG23	1:2069:A:PHE:HZ	10	1.59
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	14	1.59
(1,1327)	1:2086:A:ILE:HD13	1:2092:A:VAL:HG21	9	1.59
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	5	1.59
(1,1620)	1:2108:A:THR:HG22	1:2069:A:PHE:HZ	3	1.58
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	5	1.57
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	11	1.56
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG21	9	1.55
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	1	1.54
(1,1656)	1:2061:A:ILE:HG22	1:2056:A:ASP:HB3	4	1.54
(1,1620)	1:2095:A:THR:HG21	1:2069:A:PHE:HZ	9	1.54
(1,1524)	1:2117:A:THR:HG23	1:2113:A:ASP:HA	6	1.54
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	1	1.54
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	10	1.54
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	9	1.53
(1,554)	1:2121:A:ALA:HB2	1:2123:A:TYR:HB3	6	1.52
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	3	1.52
(1,1620)	1:2095:A:THR:HG23	1:2069:A:PHE:HZ	5	1.51
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG13	9	1.51
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	4	1.51
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	5	1.51
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	7	1.51
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD13	2	1.51
(1,1620)	1:2095:A:THR:HG22	1:2069:A:PHE:HZ	4	1.5
(1,554)	1:2121:A:ALA:HB3	1:2123:A:TYR:HB3	1	1.5
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	15	1.5
(1,67)	1:2112:A:VAL:HG11	1:2118:A:PRO:HG2	3	1.5
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	15	1.49
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG13	5	1.48
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	8	1.48
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	9	1.48
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	14	1.47
(1,467)	1:2112:A:VAL:HG13	1:2118:A:PRO:HB2	13	1.47
(1,1524)	1:2117:A:THR:HG23	1:2113:A:ASP:HA	8	1.46
(1,23)	1:2091:A:THR:HG21	1:2089:A:ASP:HB2	2	1.46
(1,1355)	1:2077:A:THR:HG23	1:2076:A:LYS:HB3	14	1.45
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	15	1.45
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	3	1.45
(1,1524)	1:2117:A:THR:HG21	1:2056:A:ASP:HA	3	1.44
(1,554)	1:2121:A:ALA:HB3	1:2123:A:TYR:HB3	7	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	15	1.44
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	15	1.43
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	10	1.43
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG12	1	1.42
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	11	1.41
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG22	1	1.41
(1,1355)	1:2077:A:THR:HG23	1:2076:A:LYS:HB3	13	1.41
(1,592)	1:2077:A:THR:HG21	1:2079:A:PRO:HD2	13	1.41
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	8	1.4
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	6	1.39
(1,648)	1:2078:A:ILE:HG12	1:2076:A:LYS:HE3	6	1.39
(1,592)	1:2077:A:THR:HG21	1:2079:A:PRO:HD2	7	1.39
(1,556)	1:2119:A:VAL:HG21	1:2094:A:PHE:HD1	10	1.39
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	13	1.39
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG21	8	1.39
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	8	1.39
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	8	1.39
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	10	1.38
(1,1355)	1:2077:A:THR:HG23	1:2076:A:LYS:HB3	7	1.37
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	2	1.37
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	13	1.37
(1,1352)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB3	13	1.36
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	9	1.36
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG21	7	1.36
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	8	1.35
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	11	1.35
(1,1620)	1:2108:A:THR:HG21	1:2069:A:PHE:HZ	8	1.34
(1,1519)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	7	1.34
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG23	3	1.33
(1,592)	1:2077:A:THR:HG23	1:2079:A:PRO:HD2	6	1.33
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	1	1.33
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	4	1.33
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	11	1.33
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD12	3	1.32
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	2	1.32
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	14	1.32
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	5	1.32
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	5	1.32
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD12	11	1.31
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	11	1.31
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	12	1.31
(1,133)	1:2078:A:ILE:HG21	1:2078:A:ILE:HG13	12	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	9	1.3
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	2	1.3
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	2	1.3
(1,446)	1:2091:A:THR:HG21	1:2088:A:PRO:HD3	7	1.3
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	8	1.3
(1,23)	1:2091:A:THR:HG21	1:2089:A:ASP:HB2	14	1.3
(1,1355)	1:2077:A:THR:HG23	1:2076:A:LYS:HB3	5	1.28
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG11	6	1.28
(1,133)	1:2078:A:ILE:HG21	1:2078:A:ILE:HG13	15	1.28
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	1	1.27
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	13	1.27
(1,1524)	1:2117:A:THR:HG23	1:2113:A:ASP:HA	13	1.27
(1,1209)	1:2086:A:ILE:HG22	1:2086:A:ILE:HD13	6	1.27
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	10	1.27
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	8	1.27
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	12	1.27
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	2	1.27
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	8	1.26
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	12	1.26
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	2	1.26
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	9	1.26
(1,592)	1:2077:A:THR:HG22	1:2079:A:PRO:HD2	12	1.26
(1,592)	1:2077:A:THR:HG21	1:2079:A:PRO:HD2	14	1.26
(1,133)	1:2078:A:ILE:HG21	1:2078:A:ILE:HG13	14	1.26
(1,23)	1:2091:A:THR:HG22	1:2089:A:ASP:HB2	15	1.26
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	1	1.25
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	9	1.25
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	8	1.25
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG11	13	1.25
(1,80)	1:2058:A:LEU:HD11	1:2058:A:LEU:HA	2	1.25
(1,446)	1:2091:A:THR:HG21	1:2088:A:PRO:HD3	6	1.24
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	10	1.24
(1,1519)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	4	1.23
(1,1352)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	11	1.23
(1,1268)	1:2123:A:TYR:HD2	1:2127:A:PHE:HB3	4	1.23
(1,1007)	1:2093:A:THR:H	1:2092:A:VAL:HG13	9	1.23
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	10	1.23
(1,23)	1:2091:A:THR:HG23	1:2089:A:ASP:HB2	4	1.23
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	9	1.22
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	5	1.22
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	13	1.22
(1,23)	1:2091:A:THR:HG21	1:2089:A:ASP:HB2	6	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG21	12	1.21
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD2	13	1.21
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	4	1.21
(1,288)	1:2055:A:GLY:HA2	1:2119:A:VAL:HG22	7	1.21
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	12	1.21
(1,278)	1:2068:A:THR:HG21	1:2074:A:LYS:HE2	13	1.21
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	1	1.21
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG23	1	1.2
(1,554)	1:2121:A:ALA:HB3	1:2123:A:TYR:HB3	2	1.2
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	3	1.2
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	4	1.2
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG11	9	1.19
(1,446)	1:2091:A:THR:HG21	1:2088:A:PRO:HD3	11	1.19
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	1	1.19
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	6	1.19
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	7	1.18
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	15	1.18
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	9	1.18
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	5	1.18
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG11	6	1.18
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	10	1.18
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	14	1.18
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG21	4	1.18
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	14	1.18
(1,67)	1:2112:A:VAL:HG13	1:2118:A:PRO:HG2	13	1.18
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	4	1.17
(1,1524)	1:2117:A:THR:HG22	1:2113:A:ASP:HA	5	1.17
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	12	1.17
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	3	1.17
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG22	10	1.17
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	7	1.17
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	5	1.16
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	1	1.16
(1,1355)	1:2077:A:THR:HG22	1:2076:A:LYS:HB3	4	1.16
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	9	1.16
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	4	1.15
(1,1229)	1:2069:A:PHE:HD2	1:2092:A:VAL:HG11	5	1.15
(1,467)	1:2112:A:VAL:HG11	1:2118:A:PRO:HB2	8	1.15
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	2	1.15
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	5	1.15
(1,446)	1:2091:A:THR:HG23	1:2088:A:PRO:HD3	13	1.15
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	10	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	15	1.15
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	15	1.15
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	4	1.14
(1,1524)	1:2117:A:THR:HG23	1:2113:A:ASP:HA	14	1.14
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	11	1.14
(1,1364)	1:2085:A:THR:HG23	1:2075:A:GLU:HG2	15	1.14
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	2	1.14
(1,590)	1:2091:A:THR:HG21	1:2063:A:GLU:HG3	6	1.14
(1,448)	1:2057:A:PRO:HB3	1:2058:A:LEU:HD13	2	1.14
(1,446)	1:2091:A:THR:HG22	1:2088:A:PRO:HD3	15	1.14
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	6	1.14
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	7	1.14
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	15	1.13
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG22	3	1.13
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	7	1.13
(1,1352)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	12	1.13
(1,1338)	1:2120:A:THR:HG22	1:2070:A:GLU:HG3	13	1.13
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG13	10	1.13
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	1	1.13
(1,554)	1:2121:A:ALA:HB3	1:2123:A:TYR:HB3	9	1.13
(1,462)	1:2112:A:VAL:HA	1:2119:A:VAL:HG11	10	1.13
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	11	1.13
(1,1656)	1:2061:A:ILE:HG22	1:2056:A:ASP:HB3	3	1.12
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD1	15	1.12
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	11	1.12
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	7	1.12
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	5	1.12
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	9	1.12
(1,65)	1:2064:A:THR:HG21	1:2063:A:GLU:HG2	15	1.12
(1,23)	1:2091:A:THR:HG22	1:2089:A:ASP:HB2	8	1.12
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	13	1.11
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	3	1.11
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD3	5	1.11
(1,1352)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB3	4	1.11
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	6	1.11
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	13	1.11
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	2	1.11
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	5	1.1
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	9	1.1
(1,1528)	1:2129:A:LYS:HE2	1:2101:A:VAL:HG21	3	1.1
(1,278)	1:2068:A:THR:HG22	1:2074:A:LYS:HE2	9	1.1
(1,142)	1:2108:A:THR:HG22	1:2070:A:GLU:HB3	13	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE2	7	1.09
(1,1355)	1:2077:A:THR:HG21	1:2076:A:LYS:HB3	3	1.09
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG23	5	1.09
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	1	1.09
(1,467)	1:2112:A:VAL:HG11	1:2118:A:PRO:HB2	3	1.09
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	7	1.08
(1,1339)	1:2093:A:THR:HG22	1:2075:A:GLU:HG2	15	1.08
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	15	1.08
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG11	12	1.07
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD3	3	1.07
(1,1338)	1:2120:A:THR:HG22	1:2070:A:GLU:HG3	8	1.07
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	2	1.07
(1,278)	1:2068:A:THR:HG22	1:2074:A:LYS:HE2	1	1.07
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG13	10	1.07
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	9	1.06
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG11	11	1.06
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG21	3	1.06
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	12	1.06
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	4	1.06
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	1	1.05
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	7	1.05
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG21	10	1.05
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	5	1.05
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	5	1.05
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD13	4	1.04
(1,607)	1:2092:A:VAL:HG11	1:2109:A:VAL:HB	5	1.04
(1,278)	1:2068:A:THR:HG22	1:2074:A:LYS:HE2	5	1.04
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	11	1.03
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	2	1.03
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	6	1.03
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	6	1.03
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	10	1.03
(1,240)	1:2078:A:ILE:HB	1:2081:A:GLN:HB3	11	1.03
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG22	5	1.02
(1,1338)	1:2120:A:THR:HG22	1:2070:A:GLU:HG3	9	1.02
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD2	4	1.02
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	5	1.02
(1,278)	1:2068:A:THR:HG23	1:2074:A:LYS:HE2	4	1.02
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	4	1.02
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	12	1.02
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	9	1.01
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	14	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	15	1.01
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	12	1.01
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	1	1.0
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	5	1.0
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG11	14	1.0
(1,1229)	1:2069:A:PHE:HD1	1:2092:A:VAL:HG13	13	1.0
(1,462)	1:2112:A:VAL:HA	1:2119:A:VAL:HG11	8	1.0
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG12	14	1.0
(1,278)	1:2068:A:THR:HG21	1:2074:A:LYS:HE2	15	1.0
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	2	1.0
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	8	1.0
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	12	0.99
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	13	0.99
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	6	0.99
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD2	14	0.99
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	1	0.99
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	13	0.99
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	4	0.99
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG23	12	0.99
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	6	0.99
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	3	0.99
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	14	0.98
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG12	7	0.98
(1,1336)	1:2112:A:VAL:HG21	1:2110:A:LYS:HE2	6	0.98
(1,1331)	1:2078:A:ILE:HD12	1:2076:A:LYS:HB2	8	0.98
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD2	1	0.98
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD2	12	0.98
(1,467)	1:2112:A:VAL:HG11	1:2118:A:PRO:HB2	9	0.98
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG11	3	0.98
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	12	0.98
(1,142)	1:2108:A:THR:HG22	1:2070:A:GLU:HB3	9	0.98
(1,1352)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	1	0.97
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	6	0.97
(1,745)	1:2058:A:LEU:H	1:2058:A:LEU:HD11	7	0.97
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	2	0.97
(1,467)	1:2112:A:VAL:HG11	1:2118:A:PRO:HB2	6	0.97
(1,185)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	10	0.97
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG22	3	0.96
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG21	11	0.96
(1,1257)	1:2119:A:VAL:HG11	1:2094:A:PHE:HD1	6	0.96
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	3	0.96
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	6	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	9	0.96
(1,664)	1:2065:A:VAL:HG11	1:2064:A:THR:HG22	14	0.96
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	15	0.96
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD1	2	0.95
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG22	7	0.95
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	2	0.95
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	4	0.95
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	15	0.95
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	8	0.95
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	3	0.95
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	2	0.94
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	14	0.94
(1,948)	1:2082:A:GLY:H	1:2081:A:GLN:HB3	11	0.94
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	10	0.94
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	14	0.94
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	9	0.94
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	12	0.93
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	13	0.93
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG23	2	0.93
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	10	0.93
(1,1331)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD2	3	0.93
(1,745)	1:2058:A:LEU:H	1:2058:A:LEU:HD12	2	0.93
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	5	0.93
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG22	9	0.93
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	1	0.93
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	1	0.93
(1,84)	1:2117:A:THR:HG22	1:2055:A:GLY:HA2	5	0.93
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG22	1	0.92
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG23	15	0.92
(1,1648)	1:2119:A:VAL:HB	1:2094:A:PHE:HB2	15	0.92
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	5	0.92
(1,1527)	1:2101:A:VAL:HG13	1:2129:A:LYS:HE3	3	0.92
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD2	11	0.92
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	15	0.92
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	10	0.92
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	10	0.92
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	1	0.92
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG21	9	0.91
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG13	2	0.91
(1,1211)	1:2107:A:VAL:HG13	1:2069:A:PHE:HD1	4	0.91
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	4	0.91
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	7	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	9	0.91
(1,543)	1:2083:A:THR:HG21	1:2075:A:GLU:HB2	11	0.91
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	13	0.91
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	10	0.91
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	4	0.91
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	9	0.91
(1,101)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB2	2	0.91
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	1	0.9
(1,1582)	1:2074:A:LYS:HE2	1:2066:A:GLU:HG3	15	0.9
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD3	4	0.9
(1,1352)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB3	2	0.9
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	2	0.9
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD1	7	0.9
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG13	7	0.9
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	6	0.9
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	6	0.9
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	13	0.9
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	12	0.9
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	14	0.9
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	3	0.9
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD13	4	0.89
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	10	0.89
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	6	0.89
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	2	0.89
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	1	0.88
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG12	8	0.88
(1,1338)	1:2120:A:THR:HG21	1:2070:A:GLU:HG2	1	0.88
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	2	0.88
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG12	14	0.88
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG11	1	0.88
(1,1008)	1:2093:A:THR:H	1:2093:A:THR:HG22	2	0.88
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	3	0.88
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	14	0.88
(1,467)	1:2112:A:VAL:HG13	1:2118:A:PRO:HB2	12	0.88
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	8	0.88
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG21	13	0.87
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG11	13	0.87
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	4	0.87
(1,1335)	1:2091:A:THR:HG22	1:2067:A:PRO:HG3	15	0.87
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	14	0.87
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	12	0.87
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	9	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	15	0.87
(1,590)	1:2091:A:THR:HG21	1:2063:A:GLU:HG3	2	0.87
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG21	10	0.86
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG21	12	0.86
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	13	0.86
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	6	0.86
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	6	0.86
(1,467)	1:2112:A:VAL:HG13	1:2118:A:PRO:HB2	11	0.86
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	11	0.86
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	13	0.86
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD11	12	0.85
(1,1608)	1:2113:A:ASP:HB2	1:2112:A:VAL:HG23	10	0.85
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE2	12	0.85
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HG2	7	0.85
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG13	9	0.85
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG22	8	0.85
(1,616)	1:2082:A:GLY:HA2	1:2097:A:ASP:HB3	15	0.85
(1,554)	1:2121:A:ALA:HB2	1:2123:A:TYR:HB3	13	0.85
(1,543)	1:2083:A:THR:HG22	1:2075:A:GLU:HB2	5	0.85
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	7	0.85
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	4	0.85
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	10	0.85
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	15	0.85
(1,66)	1:2120:A:THR:HG21	1:2118:A:PRO:HB3	12	0.85
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	11	0.85
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG23	6	0.84
(1,1699)	1:2082:A:GLY:H	1:2095:A:THR:HG21	2	0.84
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG23	11	0.84
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG2	9	0.84
(1,1335)	1:2091:A:THR:HG23	1:2067:A:PRO:HG3	13	0.84
(1,1257)	1:2119:A:VAL:HG12	1:2094:A:PHE:HD1	11	0.84
(1,1008)	1:2093:A:THR:H	1:2093:A:THR:HG21	8	0.84
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	7	0.84
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	11	0.84
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG23	6	0.84
(1,648)	1:2078:A:ILE:HG12	1:2076:A:LYS:HE3	5	0.84
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	5	0.84
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	3	0.84
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG23	7	0.83
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG22	14	0.83
(1,1655)	1:2114:A:LYS:HA	1:2112:A:VAL:HG13	4	0.83
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	4	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	7	0.83
(1,1338)	1:2120:A:THR:HG21	1:2070:A:GLU:HG3	11	0.83
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	10	0.83
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG11	3	0.83
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG11	5	0.83
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	5	0.83
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	11	0.83
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	12	0.83
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	5	0.83
(1,1608)	1:2113:A:ASP:HB2	1:2112:A:VAL:HG22	8	0.82
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	9	0.82
(1,1456)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG13	15	0.82
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	7	0.82
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	11	0.82
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	1	0.82
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	14	0.82
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	8	0.82
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	11	0.82
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	8	0.82
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	7	0.81
(1,1524)	1:2117:A:THR:HG22	1:2056:A:ASP:HA	15	0.81
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG13	14	0.81
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	11	0.81
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	10	0.81
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	7	0.81
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	12	0.81
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	14	0.81
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG23	3	0.81
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	6	0.81
(1,745)	1:2058:A:LEU:H	1:2058:A:LEU:HD11	4	0.81
(1,617)	1:2097:A:ASP:HB2	1:2082:A:GLY:HA2	7	0.81
(1,543)	1:2083:A:THR:HG23	1:2075:A:GLU:HB2	2	0.81
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	5	0.81
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	15	0.8
(1,1424)	1:2108:A:THR:HG21	1:2070:A:GLU:HG3	12	0.8
(1,1352)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	8	0.8
(1,1288)	1:2100:A:PHE:HE1	1:2101:A:VAL:HG11	12	0.8
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	4	0.8
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	2	0.8
(1,609)	1:2061:A:ILE:HG22	1:2111:A:ARG:HA	3	0.8
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	10	0.8
(1,1784)	1:2123:A:TYR:HE1	1:2109:A:VAL:HG23	4	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	13	0.79
(1,1509)	1:2130:A:VAL:HA	1:2129:A:LYS:HG3	5	0.79
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	12	0.79
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	12	0.79
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	15	0.79
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG22	3	0.79
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	7	0.79
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	9	0.79
(1,142)	1:2108:A:THR:HG22	1:2070:A:GLU:HB3	3	0.79
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	8	0.79
(1,66)	1:2120:A:THR:HG23	1:2118:A:PRO:HB3	5	0.79
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	2	0.79
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	12	0.78
(1,1588)	1:2101:A:VAL:HG21	1:2129:A:LYS:HG3	4	0.78
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	10	0.78
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	13	0.78
(1,1356)	1:2101:A:VAL:HG12	1:2129:A:LYS:HG3	13	0.78
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	8	0.78
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG21	13	0.78
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	9	0.78
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	1	0.78
(1,592)	1:2077:A:THR:HG21	1:2079:A:PRO:HD2	2	0.78
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	7	0.78
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	8	0.78
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	12	0.78
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE2	6	0.77
(1,1383)	1:2078:A:ILE:HG23	1:2079:A:PRO:HG2	2	0.77
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG2	4	0.77
(1,1335)	1:2091:A:THR:HG22	1:2067:A:PRO:HG3	5	0.77
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG11	13	0.77
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	4	0.77
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	5	0.77
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	10	0.77
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	2	0.77
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	2	0.77
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	12	0.77
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	3	0.76
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	5	0.76
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	11	0.76
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG13	9	0.76
(1,1268)	1:2123:A:TYR:HD1	1:2127:A:PHE:HB3	8	0.76
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD1	13	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	3	0.76
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	7	0.76
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	11	0.76
(1,65)	1:2064:A:THR:HG23	1:2063:A:GLU:HG2	7	0.76
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	12	0.75
(1,1424)	1:2108:A:THR:HG21	1:2070:A:GLU:HG2	4	0.75
(1,1353)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	11	0.75
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	12	0.75
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	12	0.75
(1,664)	1:2065:A:VAL:HG11	1:2064:A:THR:HG22	13	0.75
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	13	0.75
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	14	0.75
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	15	0.75
(1,522)	1:2084:A:TYR:HB3	1:2107:A:VAL:HG23	14	0.75
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	2	0.75
(1,16)	1:2078:A:ILE:HD12	1:2078:A:ILE:HG23	6	0.75
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	11	0.74
(1,1257)	1:2119:A:VAL:HG11	1:2094:A:PHE:HD2	9	0.74
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	4	0.74
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	6	0.74
(1,467)	1:2112:A:VAL:HG12	1:2118:A:PRO:HB2	4	0.74
(1,1454)	1:2129:A:LYS:HE2	1:2129:A:LYS:HB3	3	0.73
(1,1424)	1:2108:A:THR:HG23	1:2070:A:GLU:HG3	3	0.73
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD3	12	0.73
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	9	0.73
(1,1188)	1:2081:A:GLN:HE21	1:2078:A:ILE:HD13	2	0.73
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	2	0.73
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	9	0.73
(1,92)	1:2083:A:THR:HG21	1:2075:A:GLU:HG3	4	0.73
(1,65)	1:2064:A:THR:HG22	1:2063:A:GLU:HG2	14	0.73
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG23	6	0.72
(1,1612)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD3	8	0.72
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	12	0.72
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	8	0.72
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	1	0.72
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG13	5	0.72
(1,1255)	1:2061:A:ILE:HD13	1:2094:A:PHE:HD2	4	0.72
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG11	15	0.72
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG21	7	0.72
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	15	0.72
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG23	8	0.72
(1,410)	1:2104:A:PRO:HA	1:2081:A:GLN:HB2	11	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	3	0.72
(1,66)	1:2120:A:THR:HG23	1:2118:A:PRO:HB3	7	0.72
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	14	0.71
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	14	0.71
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	15	0.71
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	11	0.71
(1,1350)	1:2077:A:THR:HG21	1:2078:A:ILE:HB	14	0.71
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	6	0.71
(1,543)	1:2083:A:THR:HG21	1:2075:A:GLU:HB2	1	0.71
(1,65)	1:2064:A:THR:HG21	1:2063:A:GLU:HG2	10	0.71
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG3	15	0.7
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	3	0.7
(1,1335)	1:2091:A:THR:HG21	1:2067:A:PRO:HG3	11	0.7
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG11	1	0.7
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG23	6	0.7
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	10	0.7
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	1	0.7
(1,1784)	1:2123:A:TYR:HE2	1:2109:A:VAL:HG22	8	0.69
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD3	1	0.69
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	12	0.69
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG21	14	0.69
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	7	0.69
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	5	0.69
(1,1450)	1:2114:A:LYS:HE2	1:2060:A:PRO:HB3	4	0.69
(1,1364)	1:2085:A:THR:HG22	1:2075:A:GLU:HG2	8	0.69
(1,1339)	1:2093:A:THR:HG23	1:2075:A:GLU:HG2	13	0.69
(1,1255)	1:2061:A:ILE:HD13	1:2094:A:PHE:HD1	15	0.69
(1,1223)	1:2107:A:VAL:HG11	1:2069:A:PHE:HE1	15	0.69
(1,1211)	1:2107:A:VAL:HG11	1:2069:A:PHE:HD1	15	0.69
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	3	0.69
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	4	0.69
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	5	0.69
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	7	0.69
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	12	0.69
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	2	0.69
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	4	0.69
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	13	0.69
(1,554)	1:2121:A:ALA:HB2	1:2123:A:TYR:HB3	8	0.69
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	9	0.69
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	15	0.69
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	11	0.68
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	14	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	8	0.68
(1,1424)	1:2108:A:THR:HG22	1:2070:A:GLU:HG3	15	0.68
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	3	0.68
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	13	0.68
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	3	0.68
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	12	0.68
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	9	0.68
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	6	0.68
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	2	0.68
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	9	0.68
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	1	0.68
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	9	0.68
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	1	0.68
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG13	8	0.68
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	8	0.67
(1,1656)	1:2061:A:ILE:HG21	1:2056:A:ASP:HB3	10	0.67
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	2	0.67
(1,1352)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	6	0.67
(1,1268)	1:2123:A:TYR:HD1	1:2127:A:PHE:HB3	11	0.67
(1,1229)	1:2069:A:PHE:HD2	1:2092:A:VAL:HG12	9	0.67
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	5	0.67
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	13	0.67
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	14	0.67
(1,440)	1:2058:A:LEU:HD11	1:2058:A:LEU:HB3	3	0.67
(1,440)	1:2058:A:LEU:HD13	1:2058:A:LEU:HB3	10	0.67
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	7	0.67
(1,142)	1:2108:A:THR:HG23	1:2070:A:GLU:HB3	12	0.67
(1,67)	1:2112:A:VAL:HG11	1:2118:A:PRO:HG2	8	0.67
(1,67)	1:2112:A:VAL:HG13	1:2118:A:PRO:HG2	12	0.67
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	4	0.66
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	7	0.66
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG21	9	0.66
(1,1536)	1:2070:A:GLU:HG2	1:2110:A:LYS:HD3	6	0.66
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	8	0.66
(1,1454)	1:2129:A:LYS:HE2	1:2129:A:LYS:HB3	10	0.66
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	10	0.66
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	15	0.66
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG13	11	0.66
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG3	6	0.66
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	1	0.66
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	6	0.66
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	11	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,440)	1:2058:A:LEU:HD12	1:2058:A:LEU:HB3	5	0.66
(1,440)	1:2058:A:LEU:HD13	1:2058:A:LEU:HB3	9	0.66
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG12	2	0.65
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	9	0.65
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	13	0.65
(1,1353)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	12	0.65
(1,1352)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	15	0.65
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	8	0.65
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG11	14	0.65
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	8	0.65
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	10	0.65
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	15	0.65
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	10	0.65
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG22	5	0.65
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	8	0.65
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD11	14	0.65
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	2	0.64
(1,1612)	1:2078:A:ILE:HD12	1:2076:A:LYS:HD2	3	0.64
(1,1524)	1:2117:A:THR:HG21	1:2113:A:ASP:HA	10	0.64
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG11	12	0.64
(1,1189)	1:2081:A:GLN:H	1:2077:A:THR:HG22	1	0.64
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	1	0.64
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG23	1	0.64
(1,440)	1:2058:A:LEU:HD13	1:2058:A:LEU:HB3	6	0.64
(1,142)	1:2108:A:THR:HG23	1:2070:A:GLU:HB3	2	0.64
(1,61)	1:2101:A:VAL:HG12	1:2101:A:VAL:HA	6	0.64
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	11	0.63
(1,1544)	1:2098:A:LYS:HB2	1:2098:A:LYS:HD2	7	0.63
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	11	0.63
(1,1454)	1:2129:A:LYS:HE3	1:2129:A:LYS:HB3	4	0.63
(1,1424)	1:2108:A:THR:HG22	1:2070:A:GLU:HG3	8	0.63
(1,1356)	1:2101:A:VAL:HG12	1:2129:A:LYS:HG2	7	0.63
(1,1132)	1:2119:A:VAL:H	1:2119:A:VAL:HG11	8	0.63
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	11	0.63
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG22	11	0.63
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	13	0.63
(1,607)	1:2092:A:VAL:HG12	1:2109:A:VAL:HB	13	0.63
(1,219)	1:2061:A:ILE:HG21	1:2063:A:GLU:HG3	14	0.63
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	11	0.63
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	4	0.62
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	4	0.62
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1417)	1:2099:A:GLN:HG2	1:2098:A:LYS:HG3	4	0.62
(1,1354)	1:2128:A:THR:HG21	1:2129:A:LYS:HD2	6	0.62
(1,1339)	1:2093:A:THR:HG23	1:2075:A:GLU:HG2	5	0.62
(1,1339)	1:2093:A:THR:HG23	1:2075:A:GLU:HG2	14	0.62
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG22	1	0.62
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	9	0.62
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	14	0.62
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	3	0.62
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	8	0.62
(1,440)	1:2058:A:LEU:HD12	1:2058:A:LEU:HB3	15	0.62
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	11	0.62
(1,219)	1:2061:A:ILE:HG21	1:2063:A:GLU:HG3	2	0.62
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	5	0.62
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	9	0.62
(1,67)	1:2112:A:VAL:HG11	1:2118:A:PRO:HG2	6	0.62
(1,20)	1:2091:A:THR:HG21	1:2087:A:VAL:HA	12	0.62
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	14	0.61
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	8	0.61
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	6	0.61
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	1	0.61
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	12	0.61
(1,1450)	1:2114:A:LYS:HE2	1:2060:A:PRO:HB3	11	0.61
(1,1211)	1:2107:A:VAL:HG12	1:2069:A:PHE:HD1	6	0.61
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG12	7	0.61
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	1	0.61
(1,607)	1:2092:A:VAL:HG12	1:2109:A:VAL:HB	7	0.61
(1,577)	1:2105:A:ASP:HB3	1:2078:A:ILE:HG13	8	0.61
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	14	0.61
(1,133)	1:2078:A:ILE:HG21	1:2078:A:ILE:HG13	6	0.61
(1,1770)	1:2069:A:PHE:HE2	1:2076:A:LYS:HD3	5	0.6
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	3	0.6
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG23	5	0.6
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	3	0.6
(1,1339)	1:2093:A:THR:HG21	1:2075:A:GLU:HG2	3	0.6
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG13	2	0.6
(1,1101)	1:2115:A:ASN:HD21	1:2059:A:VAL:HG22	3	0.6
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	9	0.6
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	12	0.6
(1,574)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB2	15	0.6
(1,219)	1:2061:A:ILE:HG23	1:2063:A:GLU:HG3	1	0.6
(1,219)	1:2061:A:ILE:HG23	1:2063:A:GLU:HG3	4	0.6
(1,219)	1:2061:A:ILE:HG23	1:2063:A:GLU:HG3	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	11	0.6
(1,61)	1:2101:A:VAL:HG12	1:2101:A:VAL:HA	7	0.6
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB3	15	0.59
(1,1424)	1:2108:A:THR:HG21	1:2070:A:GLU:HG3	10	0.59
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	7	0.59
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG23	4	0.59
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG22	1	0.59
(1,556)	1:2119:A:VAL:HG21	1:2094:A:PHE:HD1	15	0.59
(1,460)	1:2059:A:VAL:HG21	1:2058:A:LEU:HB3	1	0.59
(1,385)	1:2068:A:THR:HA	1:2086:A:ILE:HG12	4	0.59
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	7	0.59
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	8	0.59
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	10	0.59
(1,219)	1:2061:A:ILE:HG21	1:2063:A:GLU:HG3	12	0.59
(1,61)	1:2101:A:VAL:HG11	1:2101:A:VAL:HA	13	0.59
(1,1556)	1:2114:A:LYS:HE2	1:2060:A:PRO:HG3	6	0.58
(1,1556)	1:2114:A:LYS:HE2	1:2060:A:PRO:HG3	11	0.58
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	5	0.58
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	5	0.58
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	9	0.58
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	4	0.58
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	15	0.58
(1,1132)	1:2119:A:VAL:H	1:2119:A:VAL:HG11	10	0.58
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	12	0.58
(1,978)	1:2089:A:ASP:H	1:2088:A:PRO:HB3	6	0.58
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG23	13	0.58
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	15	0.58
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	13	0.58
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	11	0.58
(1,460)	1:2059:A:VAL:HG23	1:2058:A:LEU:HB3	14	0.58
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	8	0.58
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	5	0.58
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE2	4	0.57
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	2	0.57
(1,1527)	1:2101:A:VAL:HG12	1:2129:A:LYS:HE2	4	0.57
(1,1424)	1:2108:A:THR:HG22	1:2070:A:GLU:HG3	11	0.57
(1,1364)	1:2085:A:THR:HG22	1:2075:A:GLU:HG2	13	0.57
(1,1338)	1:2120:A:THR:HG21	1:2070:A:GLU:HG3	10	0.57
(1,1324)	1:2123:A:TYR:HD1	1:2122:A:THR:HG21	5	0.57
(1,1223)	1:2107:A:VAL:HG13	1:2069:A:PHE:HE1	4	0.57
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG23	12	0.57
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	15	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	11	0.57
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	13	0.57
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	7	0.57
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	11	0.57
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	15	0.57
(1,1603)	1:2129:A:LYS:HE2	1:2130:A:VAL:HG12	7	0.56
(1,1588)	1:2101:A:VAL:HG21	1:2129:A:LYS:HG2	1	0.56
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG3	14	0.56
(1,1567)	1:2098:A:LYS:HE2	1:2098:A:LYS:HG3	3	0.56
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	8	0.56
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	3	0.56
(1,1437)	1:2114:A:LYS:HE2	1:2060:A:PRO:HG3	4	0.56
(1,1434)	1:2114:A:LYS:HB3	1:2114:A:LYS:HE2	11	0.56
(1,1424)	1:2108:A:THR:HG23	1:2070:A:GLU:HG3	9	0.56
(1,1383)	1:2078:A:ILE:HG23	1:2079:A:PRO:HG2	10	0.56
(1,1352)	1:2087:A:VAL:HG21	1:2092:A:VAL:HB	9	0.56
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG23	2	0.56
(1,1104)	1:2115:A:ASN:HD22	1:2059:A:VAL:HG13	15	0.56
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	11	0.56
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	5	0.56
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	7	0.56
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG23	12	0.56
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	15	0.56
(1,67)	1:2112:A:VAL:HG13	1:2118:A:PRO:HG2	11	0.56
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG2	7	0.55
(1,1533)	1:2110:A:LYS:HE2	1:2112:A:VAL:HG13	6	0.55
(1,1434)	1:2114:A:LYS:HB3	1:2114:A:LYS:HE2	6	0.55
(1,1352)	1:2130:A:VAL:HG12	1:2129:A:LYS:HB3	7	0.55
(1,1351)	1:2087:A:VAL:HG21	1:2088:A:PRO:HB3	2	0.55
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	10	0.55
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG13	1	0.55
(1,1030)	1:2099:A:GLN:H	1:2099:A:GLN:HB3	13	0.55
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	9	0.55
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	4	0.55
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	7	0.55
(1,61)	1:2101:A:VAL:HG11	1:2101:A:VAL:HA	4	0.55
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	15	0.54
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG21	13	0.54
(1,1509)	1:2130:A:VAL:HA	1:2129:A:LYS:HG3	14	0.54
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG11	5	0.54
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG23	15	0.54
(1,1482)	1:2075:A:GLU:HA	1:2092:A:VAL:HG12	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1456)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG12	2	0.54
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	1	0.54
(1,1417)	1:2099:A:GLN:HG2	1:2098:A:LYS:HG3	12	0.54
(1,1335)	1:2091:A:THR:HG22	1:2067:A:PRO:HG3	9	0.54
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	6	0.54
(1,1257)	1:2119:A:VAL:HG13	1:2094:A:PHE:HD1	5	0.54
(1,1228)	1:2092:A:VAL:HG12	1:2069:A:PHE:HE2	9	0.54
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	4	0.54
(1,609)	1:2061:A:ILE:HG21	1:2111:A:ARG:HA	13	0.54
(1,576)	1:2105:A:ASP:HB2	1:2078:A:ILE:HG13	11	0.54
(1,556)	1:2119:A:VAL:HG23	1:2094:A:PHE:HD1	13	0.54
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	4	0.54
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	14	0.54
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	5	0.54
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	9	0.53
(1,1450)	1:2114:A:LYS:HE2	1:2060:A:PRO:HB3	6	0.53
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	6	0.53
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	14	0.53
(1,1363)	1:2109:A:VAL:HG23	1:2107:A:VAL:HG13	1	0.53
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG12	13	0.53
(1,1255)	1:2061:A:ILE:HD12	1:2094:A:PHE:HD1	10	0.53
(1,888)	1:2075:A:GLU:H	1:2075:A:GLU:HB3	12	0.53
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	3	0.53
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	6	0.53
(1,440)	1:2058:A:LEU:HD12	1:2058:A:LEU:HB3	12	0.53
(1,279)	1:2056:A:ASP:HB2	1:2059:A:VAL:HG11	10	0.53
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	1	0.53
(1,38)	1:2093:A:THR:HG23	1:2095:A:THR:HB	1	0.53
(3,27)	1:2081:A:GLN:HE22	1:2084:A:TYR:OH	5	0.52
(1,1793)	1:2084:A:TYR:HE2	1:2083:A:THR:HG21	9	0.52
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	3	0.52
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	11	0.52
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG23	13	0.52
(1,1527)	1:2101:A:VAL:HG11	1:2129:A:LYS:HE3	8	0.52
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	2	0.52
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG2	12	0.52
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG13	15	0.52
(1,1268)	1:2123:A:TYR:HD2	1:2127:A:PHE:HB3	12	0.52
(1,1257)	1:2119:A:VAL:HG11	1:2094:A:PHE:HD2	3	0.52
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG11	11	0.52
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	3	0.52
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,664)	1:2065:A:VAL:HG12	1:2064:A:THR:HG21	15	0.52
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	4	0.52
(1,440)	1:2058:A:LEU:HD11	1:2058:A:LEU:HB3	13	0.52
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	6	0.52
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD12	11	0.52
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	10	0.52
(1,80)	1:2058:A:LEU:HD13	1:2058:A:LEU:HA	14	0.52
(1,66)	1:2120:A:THR:HG23	1:2118:A:PRO:HB3	2	0.52
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	15	0.52
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG13	11	0.52
(1,20)	1:2091:A:THR:HG21	1:2087:A:VAL:HA	8	0.52
(1,1752)	1:2130:A:VAL:H	1:2129:A:LYS:HB2	2	0.51
(1,1588)	1:2101:A:VAL:HG21	1:2129:A:LYS:HG2	3	0.51
(1,1567)	1:2098:A:LYS:HE3	1:2098:A:LYS:HG2	1	0.51
(1,1521)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	12	0.51
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG11	13	0.51
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG2	2	0.51
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	10	0.51
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	5	0.51
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	4	0.51
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	13	0.51
(1,936)	1:2081:A:GLN:H	1:2081:A:GLN:HB3	11	0.51
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	12	0.51
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG22	14	0.51
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	9	0.51
(1,440)	1:2058:A:LEU:HD11	1:2058:A:LEU:HB3	8	0.51
(1,440)	1:2058:A:LEU:HD12	1:2058:A:LEU:HB3	11	0.51
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	3	0.51
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	10	0.51
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	14	0.51
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	6	0.51
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD13	1	0.51
(1,3)	1:2107:A:VAL:HG11	1:2076:A:LYS:HG3	14	0.51
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD11	8	0.5
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD12	15	0.5
(1,1568)	1:2098:A:LYS:HE2	1:2098:A:LYS:HB3	5	0.5
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	6	0.5
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	4	0.5
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	6	0.5
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	12	0.5
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE1	6	0.5
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG13	5	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	5	0.5
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	9	0.5
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	5	0.5
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	14	0.5
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	7	0.5
(1,664)	1:2065:A:VAL:HG13	1:2064:A:THR:HG23	12	0.5
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	15	0.5
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	5	0.5
(1,249)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB3	4	0.5
(1,80)	1:2058:A:LEU:HD12	1:2058:A:LEU:HA	11	0.5
(1,80)	1:2058:A:LEU:HD12	1:2058:A:LEU:HA	12	0.5
(1,66)	1:2120:A:THR:HG21	1:2118:A:PRO:HB3	14	0.5
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	4	0.5
(1,3)	1:2107:A:VAL:HG13	1:2076:A:LYS:HG3	10	0.5
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	11	0.5
(1,1752)	1:2130:A:VAL:H	1:2129:A:LYS:HB2	1	0.49
(1,1752)	1:2130:A:VAL:H	1:2129:A:LYS:HB2	9	0.49
(1,1364)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	3	0.49
(1,1353)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	1	0.49
(1,1351)	1:2087:A:VAL:HG22	1:2088:A:PRO:HB3	11	0.49
(1,1350)	1:2077:A:THR:HG22	1:2078:A:ILE:HB	9	0.49
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG13	15	0.49
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	5	0.49
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	7	0.49
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	15	0.49
(1,888)	1:2075:A:GLU:H	1:2075:A:GLU:HB3	4	0.49
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG22	14	0.49
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	6	0.49
(1,249)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	7	0.49
(1,80)	1:2058:A:LEU:HD11	1:2058:A:LEU:HA	13	0.49
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	8	0.48
(1,1354)	1:2128:A:THR:HG22	1:2129:A:LYS:HD2	8	0.48
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	12	0.48
(1,1336)	1:2112:A:VAL:HG21	1:2110:A:LYS:HE2	1	0.48
(1,1327)	1:2086:A:ILE:HD13	1:2092:A:VAL:HG21	8	0.48
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	10	0.48
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	14	0.48
(1,1287)	1:2100:A:PHE:HD2	1:2101:A:VAL:HG12	8	0.48
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE2	13	0.48
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	4	0.48
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	7	0.48
(1,888)	1:2075:A:GLU:H	1:2075:A:GLU:HB3	10	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	10	0.48
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	15	0.48
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	3	0.48
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	12	0.48
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	3	0.48
(1,142)	1:2108:A:THR:HG21	1:2070:A:GLU:HB3	14	0.48
(1,92)	1:2083:A:THR:HG23	1:2075:A:GLU:HG3	1	0.48
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	8	0.47
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG23	3	0.47
(1,1570)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE2	5	0.47
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	9	0.47
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG22	12	0.47
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	15	0.47
(1,1357)	1:2059:A:VAL:HG12	1:2115:A:ASN:HB3	12	0.47
(1,1287)	1:2100:A:PHE:HD1	1:2101:A:VAL:HG11	3	0.47
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG12	2	0.47
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	3	0.47
(1,1008)	1:2093:A:THR:H	1:2093:A:THR:HG22	1	0.47
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	4	0.47
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	10	0.47
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	5	0.47
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	7	0.47
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG22	15	0.47
(1,142)	1:2108:A:THR:HG23	1:2070:A:GLU:HB3	10	0.47
(1,80)	1:2058:A:LEU:HD12	1:2058:A:LEU:HA	1	0.47
(1,80)	1:2058:A:LEU:HD11	1:2058:A:LEU:HA	8	0.47
(1,67)	1:2112:A:VAL:HG12	1:2118:A:PRO:HG2	4	0.47
(1,67)	1:2112:A:VAL:HG11	1:2118:A:PRO:HG2	9	0.47
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG11	7	0.47
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	4	0.46
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG12	5	0.46
(1,1349)	1:2130:A:VAL:HG11	1:2130:A:VAL:HB	1	0.46
(1,1349)	1:2130:A:VAL:HG13	1:2130:A:VAL:HB	8	0.46
(1,1349)	1:2130:A:VAL:HG21	1:2130:A:VAL:HB	12	0.46
(1,1349)	1:2130:A:VAL:HG23	1:2130:A:VAL:HB	15	0.46
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	8	0.46
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	1	0.46
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	13	0.46
(1,475)	1:2074:A:LYS:HG2	1:2074:A:LYS:HE3	15	0.46
(1,460)	1:2059:A:VAL:HG21	1:2058:A:LEU:HB3	12	0.46
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	2	0.46
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	10	0.46
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	8	0.46
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB2	12	0.45
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	15	0.45
(1,1351)	1:2087:A:VAL:HG21	1:2088:A:PRO:HB3	7	0.45
(1,1349)	1:2130:A:VAL:HG23	1:2130:A:VAL:HB	2	0.45
(1,1349)	1:2130:A:VAL:HG23	1:2130:A:VAL:HB	3	0.45
(1,1349)	1:2130:A:VAL:HG12	1:2130:A:VAL:HB	6	0.45
(1,1349)	1:2130:A:VAL:HG22	1:2130:A:VAL:HB	9	0.45
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	11	0.45
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG13	13	0.45
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	15	0.45
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	14	0.45
(1,607)	1:2092:A:VAL:HG13	1:2109:A:VAL:HB	2	0.45
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD11	4	0.45
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	6	0.45
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	11	0.45
(1,20)	1:2091:A:THR:HG21	1:2087:A:VAL:HA	9	0.45
(1,3)	1:2107:A:VAL:HG11	1:2076:A:LYS:HG3	13	0.45
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB2	10	0.44
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	3	0.44
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	15	0.44
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG3	10	0.44
(1,1544)	1:2098:A:LYS:HB2	1:2098:A:LYS:HD2	5	0.44
(1,1349)	1:2130:A:VAL:HG11	1:2130:A:VAL:HB	4	0.44
(1,1349)	1:2130:A:VAL:HG11	1:2130:A:VAL:HB	5	0.44
(1,1349)	1:2130:A:VAL:HG23	1:2130:A:VAL:HB	7	0.44
(1,1349)	1:2130:A:VAL:HG22	1:2130:A:VAL:HB	11	0.44
(1,1349)	1:2130:A:VAL:HG11	1:2130:A:VAL:HB	13	0.44
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG11	14	0.44
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG23	5	0.44
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	15	0.44
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	5	0.44
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	13	0.44
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	7	0.44
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	15	0.44
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	12	0.44
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	14	0.44
(1,554)	1:2121:A:ALA:HB1	1:2123:A:TYR:HB3	4	0.44
(1,460)	1:2059:A:VAL:HG22	1:2058:A:LEU:HB3	8	0.44
(1,460)	1:2059:A:VAL:HG22	1:2058:A:LEU:HB3	11	0.44
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD13	11	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	4	0.44
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	12	0.44
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	13	0.44
(1,16)	1:2078:A:ILE:HD12	1:2078:A:ILE:HG22	5	0.44
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG22	1	0.43
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	10	0.43
(1,1568)	1:2098:A:LYS:HE3	1:2098:A:LYS:HB2	4	0.43
(1,1568)	1:2098:A:LYS:HE2	1:2098:A:LYS:HB2	11	0.43
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG12	9	0.43
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD12	10	0.43
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD13	15	0.43
(1,1416)	1:2099:A:GLN:HG3	1:2098:A:LYS:HD2	11	0.43
(1,1350)	1:2077:A:THR:HG21	1:2078:A:ILE:HB	7	0.43
(1,1349)	1:2130:A:VAL:HG21	1:2130:A:VAL:HB	14	0.43
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG12	8	0.43
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG11	5	0.43
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG22	13	0.43
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	3	0.43
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	15	0.43
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	12	0.43
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG13	15	0.43
(1,590)	1:2091:A:THR:HG22	1:2063:A:GLU:HG3	9	0.43
(1,249)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB3	14	0.43
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD12	12	0.43
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	12	0.43
(1,90)	1:2083:A:THR:HG22	1:2075:A:GLU:HG2	4	0.43
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	3	0.43
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	7	0.43
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	12	0.42
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG12	11	0.42
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG11	15	0.42
(1,1536)	1:2070:A:GLU:HG2	1:2110:A:LYS:HD3	7	0.42
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	5	0.42
(1,1351)	1:2087:A:VAL:HG22	1:2088:A:PRO:HB3	14	0.42
(1,1335)	1:2091:A:THR:HG22	1:2067:A:PRO:HG3	10	0.42
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	11	0.42
(1,1043)	1:2105:A:ASP:H	1:2078:A:ILE:HD11	3	0.42
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	6	0.42
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG22	7	0.42
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	14	0.42
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	7	0.42
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	1	0.42
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	15	0.42
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	11	0.42
(1,729)	1:2065:A:VAL:H	1:2065:A:VAL:HG13	9	0.42
(1,725)	1:2111:A:ARG:HD3	1:2061:A:ILE:HG23	11	0.42
(1,695)	1:2057:A:PRO:HA	1:2058:A:LEU:HD11	4	0.42
(1,640)	1:2078:A:ILE:HD11	1:2084:A:TYR:HD2	9	0.42
(1,460)	1:2059:A:VAL:HG21	1:2058:A:LEU:HB3	13	0.42
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	14	0.42
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	5	0.42
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	6	0.42
(1,219)	1:2061:A:ILE:HG21	1:2063:A:GLU:HG3	7	0.42
(1,219)	1:2061:A:ILE:HG23	1:2063:A:GLU:HG3	15	0.42
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	2	0.42
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	5	0.42
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	13	0.42
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	14	0.42
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	15	0.42
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	1	0.42
(1,20)	1:2091:A:THR:HG21	1:2087:A:VAL:HA	10	0.42
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	7	0.41
(1,1608)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	15	0.41
(1,1588)	1:2101:A:VAL:HG22	1:2129:A:LYS:HG2	6	0.41
(1,1521)	1:2058:A:LEU:HD12	1:2057:A:PRO:HG2	13	0.41
(1,1496)	1:2068:A:THR:HA	1:2109:A:VAL:HG13	10	0.41
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	9	0.41
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	13	0.41
(1,1383)	1:2078:A:ILE:HG22	1:2079:A:PRO:HG2	8	0.41
(1,1353)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	9	0.41
(1,1349)	1:2130:A:VAL:HG21	1:2130:A:VAL:HB	10	0.41
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	9	0.41
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	14	0.41
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	15	0.41
(1,1228)	1:2092:A:VAL:HG11	1:2069:A:PHE:HE2	5	0.41
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG11	4	0.41
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	9	0.41
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	11	0.41
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	7	0.41
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	4	0.41
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG11	7	0.41
(1,556)	1:2119:A:VAL:HG22	1:2094:A:PHE:HD1	5	0.41
(1,411)	1:2104:A:PRO:HA	1:2078:A:ILE:HD13	2	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	2	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	1	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	6	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	7	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	8	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	9	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	11	0.41
(1,171)	1:2118:A:PRO:HB3	1:2118:A:PRO:HD2	15	0.41
(1,153)	1:2110:A:LYS:HD2	1:2118:A:PRO:HB2	10	0.41
(1,83)	1:2108:A:THR:HG22	1:2120:A:THR:HB	10	0.41
(1,3)	1:2107:A:VAL:HG13	1:2076:A:LYS:HG3	7	0.41
(1,1786)	1:2092:A:VAL:HG11	1:2069:A:PHE:HE2	5	0.4
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	6	0.4
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	8	0.4
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG11	14	0.4
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	3	0.4
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	13	0.4
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	3	0.4
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG11	9	0.4
(1,1270)	1:2127:A:PHE:HB2	1:2123:A:TYR:HE1	2	0.4
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	10	0.4
(1,890)	1:2075:A:GLU:H	1:2083:A:THR:HG21	10	0.4
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	6	0.4
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	14	0.4
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG21	7	0.4
(1,739)	1:2058:A:LEU:H	1:2056:A:ASP:HB2	8	0.4
(1,616)	1:2082:A:GLY:HA2	1:2097:A:ASP:HB3	6	0.4
(1,570)	1:2078:A:ILE:HG21	1:2081:A:GLN:HB3	11	0.4
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	2	0.4
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	1	0.4
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	8	0.4
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	9	0.4
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	7	0.4
(1,270)	1:2074:A:LYS:HE2	1:2066:A:GLU:HB3	12	0.4
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	2	0.4
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	13	0.4
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	11	0.4
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	12	0.4
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	4	0.4
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	6	0.4
(1,3)	1:2107:A:VAL:HG11	1:2076:A:LYS:HG3	15	0.4
(1,1793)	1:2078:A:ILE:HD12	1:2084:A:TYR:HE2	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD3	11	0.39
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG13	10	0.39
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG22	9	0.39
(1,1544)	1:2098:A:LYS:HB2	1:2098:A:LYS:HD2	14	0.39
(1,1536)	1:2070:A:GLU:HG3	1:2110:A:LYS:HD3	2	0.39
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	6	0.39
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	8	0.39
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	1	0.39
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	2	0.39
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	11	0.39
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	2	0.39
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	5	0.39
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	13	0.39
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	4	0.39
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	9	0.39
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	14	0.39
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD11	15	0.39
(1,162)	1:2059:A:VAL:HG11	1:2114:A:LYS:HB2	12	0.39
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG12	14	0.39
(1,48)	1:2061:A:ILE:HD13	1:2119:A:VAL:HG13	15	0.39
(1,1793)	1:2078:A:ILE:HD11	1:2084:A:TYR:HE1	1	0.38
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	10	0.38
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG23	5	0.38
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	5	0.38
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD2	12	0.38
(1,1672)	1:2063:A:GLU:H	1:2114:A:LYS:HD3	15	0.38
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG11	13	0.38
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG12	1	0.38
(1,1521)	1:2058:A:LEU:HD12	1:2057:A:PRO:HG2	8	0.38
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	3	0.38
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	7	0.38
(1,1482)	1:2075:A:GLU:HA	1:2076:A:LYS:HG3	3	0.38
(1,1432)	1:2114:A:LYS:HE2	1:2062:A:ASP:HA	15	0.38
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	11	0.38
(1,1424)	1:2108:A:THR:HG22	1:2070:A:GLU:HG3	13	0.38
(1,1289)	1:2100:A:PHE:HZ	1:2101:A:VAL:HG11	3	0.38
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG22	9	0.38
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	2	0.38
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG21	12	0.38
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	2	0.38
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	3	0.38
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	9	0.38
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG23	3	0.38
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD11	4	0.38
(1,1744)	1:2117:A:THR:H	1:2115:A:ASN:HB3	7	0.37
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HG3	9	0.37
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	13	0.37
(1,1437)	1:2114:A:LYS:HE3	1:2060:A:PRO:HG3	1	0.37
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD3	10	0.37
(1,1351)	1:2087:A:VAL:HG22	1:2088:A:PRO:HB3	8	0.37
(1,1350)	1:2077:A:THR:HG23	1:2078:A:ILE:HB	6	0.37
(1,1327)	1:2086:A:ILE:HD13	1:2092:A:VAL:HG21	2	0.37
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	11	0.37
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	14	0.37
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	8	0.37
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	6	0.37
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	10	0.37
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	15	0.37
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	3	0.37
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	8	0.37
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	11	0.37
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	2	0.37
(1,613)	1:2061:A:ILE:HG22	1:2111:A:ARG:HG3	3	0.37
(1,607)	1:2092:A:VAL:HG11	1:2109:A:VAL:HB	14	0.37
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	3	0.37
(1,411)	1:2104:A:PRO:HA	1:2078:A:ILE:HD13	1	0.37
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	1	0.37
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	4	0.37
(1,150)	1:2110:A:LYS:HD3	1:2118:A:PRO:HB2	9	0.37
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	13	0.37
(1,88)	1:2059:A:VAL:HG12	1:2113:A:ASP:HB3	15	0.37
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	5	0.37
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	8	0.37
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	12	0.36
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE3	3	0.36
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG12	8	0.36
(1,1521)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	11	0.36
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	12	0.36
(1,1351)	1:2087:A:VAL:HG23	1:2088:A:PRO:HB3	3	0.36
(1,1347)	1:2087:A:VAL:HG21	1:2087:A:VAL:HB	1	0.36
(1,1347)	1:2087:A:VAL:HG21	1:2087:A:VAL:HB	2	0.36
(1,1347)	1:2087:A:VAL:HG23	1:2087:A:VAL:HB	4	0.36
(1,1347)	1:2087:A:VAL:HG23	1:2087:A:VAL:HB	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	7	0.36
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	8	0.36
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	9	0.36
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	10	0.36
(1,1347)	1:2087:A:VAL:HG23	1:2087:A:VAL:HB	12	0.36
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	13	0.36
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG23	4	0.36
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	13	0.36
(1,1228)	1:2092:A:VAL:HG13	1:2069:A:PHE:HE1	13	0.36
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	6	0.36
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	11	0.36
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	14	0.36
(1,924)	1:2078:A:ILE:H	1:2078:A:ILE:HG12	14	0.36
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG23	12	0.36
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	12	0.36
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	11	0.36
(1,556)	1:2119:A:VAL:HG23	1:2094:A:PHE:HD2	4	0.36
(1,478)	1:2074:A:LYS:HE2	1:2068:A:THR:HA	13	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	7	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	8	0.36
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	11	0.36
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	6	0.36
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	12	0.36
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	3	0.36
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	15	0.36
(1,280)	1:2059:A:VAL:HG22	1:2056:A:ASP:HB2	10	0.36
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	14	0.36
(1,83)	1:2108:A:THR:HG21	1:2120:A:THR:HB	15	0.36
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	10	0.36
(1,20)	1:2091:A:THR:HG22	1:2087:A:VAL:HA	13	0.36
(1,1786)	1:2092:A:VAL:HG13	1:2069:A:PHE:HE1	13	0.35
(1,1679)	1:2069:A:PHE:H	1:2074:A:LYS:HG3	10	0.35
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG22	10	0.35
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	3	0.35
(1,1417)	1:2099:A:GLN:HG2	1:2098:A:LYS:HG3	6	0.35
(1,1361)	1:2092:A:VAL:HG21	1:2067:A:PRO:HB2	9	0.35
(1,1356)	1:2101:A:VAL:HG11	1:2129:A:LYS:HG3	14	0.35
(1,1351)	1:2087:A:VAL:HG21	1:2088:A:PRO:HB3	1	0.35
(1,1347)	1:2087:A:VAL:HG11	1:2087:A:VAL:HB	3	0.35
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	5	0.35
(1,1347)	1:2087:A:VAL:HG11	1:2087:A:VAL:HB	11	0.35
(1,1347)	1:2087:A:VAL:HG12	1:2087:A:VAL:HB	14	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:2087:A:VAL:HG13	1:2087:A:VAL:HB	15	0.35
(1,1346)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD3	14	0.35
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	8	0.35
(1,1308)	1:2123:A:TYR:HE2	1:2124:A:SER:HA	12	0.35
(1,1268)	1:2123:A:TYR:HD1	1:2127:A:PHE:HB3	9	0.35
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	4	0.35
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	9	0.35
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG22	4	0.35
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	14	0.35
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	2	0.35
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	10	0.35
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	14	0.35
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	6	0.35
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	1	0.35
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG22	10	0.35
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG23	13	0.35
(1,162)	1:2059:A:VAL:HG12	1:2114:A:LYS:HB2	13	0.35
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	1	0.35
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	13	0.34
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	13	0.34
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	10	0.34
(1,1468)	1:2087:A:VAL:HG11	1:2088:A:PRO:HD2	11	0.34
(1,1434)	1:2114:A:LYS:HE3	1:2060:A:PRO:HG2	3	0.34
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	4	0.34
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	6	0.34
(1,1364)	1:2085:A:THR:HG21	1:2075:A:GLU:HG2	5	0.34
(1,1358)	1:2117:A:THR:HG21	1:2118:A:PRO:HB2	10	0.34
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	1	0.34
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	8	0.34
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE1	1	0.34
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG13	10	0.34
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG23	2	0.34
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG22	10	0.34
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	1	0.34
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	9	0.34
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	8	0.34
(1,249)	1:2058:A:LEU:HD22	1:2058:A:LEU:HB3	1	0.34
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	7	0.34
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	11	0.34
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB3	5	0.33
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	2	0.33
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG22	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG13	7	0.33
(1,1596)	1:2059:A:VAL:HG22	1:2058:A:LEU:HA	9	0.33
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	12	0.33
(1,1457)	1:2059:A:VAL:HG22	1:2056:A:ASP:HB3	10	0.33
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	4	0.33
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	12	0.33
(1,1416)	1:2099:A:GLN:HG3	1:2098:A:LYS:HD2	2	0.33
(1,1414)	1:2060:A:PRO:HB3	1:2114:A:LYS:HD2	11	0.33
(1,1246)	1:2107:A:VAL:HG12	1:2123:A:TYR:HE1	15	0.33
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG22	6	0.33
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG13	7	0.33
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	13	0.33
(1,1018)	1:2095:A:THR:H	1:2095:A:THR:HG23	8	0.33
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG23	4	0.33
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	2	0.33
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	2	0.33
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	6	0.33
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	12	0.33
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	5	0.33
(1,661)	1:2107:A:VAL:HB	1:2069:A:PHE:HE2	5	0.33
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG22	11	0.33
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	10	0.33
(1,233)	1:2078:A:ILE:HD11	1:2078:A:ILE:HB	3	0.33
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	9	0.33
(1,83)	1:2108:A:THR:HG22	1:2120:A:THR:HB	4	0.33
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	11	0.33
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD11	10	0.32
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG23	6	0.32
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	14	0.32
(1,1383)	1:2078:A:ILE:HG22	1:2079:A:PRO:HG2	13	0.32
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG13	5	0.32
(1,1353)	1:2130:A:VAL:HG22	1:2129:A:LYS:HB3	8	0.32
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG23	1	0.32
(1,1324)	1:2123:A:TYR:HD2	1:2122:A:THR:HG23	14	0.32
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	13	0.32
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG21	1	0.32
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	8	0.32
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG22	8	0.32
(1,900)	1:2076:A:LYS:H	1:2083:A:THR:HG23	3	0.32
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	9	0.32
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	14	0.32
(1,460)	1:2059:A:VAL:HG22	1:2058:A:LEU:HB3	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	11	0.32
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	12	0.32
(1,233)	1:2078:A:ILE:HD13	1:2078:A:ILE:HB	1	0.32
(1,119)	1:2058:A:LEU:HG	1:2058:A:LEU:HA	14	0.32
(1,83)	1:2108:A:THR:HG21	1:2120:A:THR:HB	13	0.32
(1,32)	1:2065:A:VAL:HG21	1:2113:A:ASP:HA	9	0.32
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	2	0.32
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG22	13	0.31
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD12	13	0.31
(1,1594)	1:2085:A:THR:HG23	1:2093:A:THR:HB	9	0.31
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG11	7	0.31
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	1	0.31
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	4	0.31
(1,1468)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD2	10	0.31
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	1	0.31
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	2	0.31
(1,1346)	1:2087:A:VAL:HG13	1:2088:A:PRO:HD3	4	0.31
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	5	0.31
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	10	0.31
(1,1101)	1:2115:A:ASN:HD21	1:2059:A:VAL:HG23	12	0.31
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG21	4	0.31
(1,834)	1:2069:A:PHE:H	1:2069:A:PHE:HB3	7	0.31
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	8	0.31
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	5	0.31
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	7	0.31
(1,151)	1:2110:A:LYS:HD2	1:2118:A:PRO:HD2	6	0.31
(1,90)	1:2083:A:THR:HG22	1:2075:A:GLU:HG2	6	0.31
(1,69)	1:2112:A:VAL:HG11	1:2112:A:VAL:HB	6	0.31
(1,69)	1:2112:A:VAL:HG13	1:2112:A:VAL:HB	13	0.31
(1,56)	1:2101:A:VAL:HG13	1:2129:A:LYS:HA	10	0.31
(1,54)	1:2119:A:VAL:HG21	1:2119:A:VAL:HA	2	0.31
(1,54)	1:2119:A:VAL:HG21	1:2119:A:VAL:HA	13	0.31
(1,41)	1:2059:A:VAL:HG22	1:2056:A:ASP:HB3	10	0.31
(1,14)	1:2078:A:ILE:HD11	1:2084:A:TYR:HE2	9	0.31
(1,6)	1:2061:A:ILE:HD11	1:2119:A:VAL:HB	3	0.31
(1,1753)	1:2130:A:VAL:H	1:2129:A:LYS:HG3	14	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	1	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	2	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	4	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	5	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	8	0.3
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	14	0.3
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD2	1	0.3
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD3	3	0.3
(1,1594)	1:2085:A:THR:HG22	1:2093:A:THR:HB	12	0.3
(1,1536)	1:2070:A:GLU:HG3	1:2110:A:LYS:HD3	12	0.3
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	6	0.3
(1,1468)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD2	1	0.3
(1,1468)	1:2087:A:VAL:HG23	1:2088:A:PRO:HD2	3	0.3
(1,1468)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD2	7	0.3
(1,1346)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD3	2	0.3
(1,1338)	1:2120:A:THR:HG23	1:2070:A:GLU:HG3	14	0.3
(1,1329)	1:2061:A:ILE:HG21	1:2112:A:VAL:HG21	13	0.3
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG21	14	0.3
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	2	0.3
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	3	0.3
(1,1223)	1:2107:A:VAL:HG12	1:2069:A:PHE:HE2	5	0.3
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	3	0.3
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	2	0.3
(1,1060)	1:2111:A:ARG:H	1:2061:A:ILE:HG21	13	0.3
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	7	0.3
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	13	0.3
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	13	0.3
(1,765)	1:2061:A:ILE:H	1:2056:A:ASP:HB3	8	0.3
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	8	0.3
(1,743)	1:2058:A:LEU:H	1:2058:A:LEU:HB3	13	0.3
(1,411)	1:2104:A:PRO:HA	1:2078:A:ILE:HD13	4	0.3
(1,119)	1:2058:A:LEU:HG	1:2058:A:LEU:HA	1	0.3
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	1	0.3
(1,83)	1:2108:A:THR:HG21	1:2120:A:THR:HB	3	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	1	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	2	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	5	0.3
(1,69)	1:2112:A:VAL:HG11	1:2112:A:VAL:HB	8	0.3
(1,69)	1:2112:A:VAL:HG11	1:2112:A:VAL:HB	9	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	10	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	14	0.3
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	15	0.3
(1,54)	1:2119:A:VAL:HG21	1:2119:A:VAL:HA	7	0.3
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	11	0.3
(1,41)	1:2059:A:VAL:HG21	1:2056:A:ASP:HB3	11	0.3
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	6	0.3
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	11	0.3
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	12	0.3
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	14	0.3
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	14	0.3
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG23	1	0.29
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG22	5	0.29
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG21	6	0.29
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG22	8	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	6	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB3	7	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	9	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB3	10	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB2	13	0.29
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB3	15	0.29
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HG3	11	0.29
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	1	0.29
(1,1520)	1:2058:A:LEU:HD12	1:2058:A:LEU:HG	3	0.29
(1,1520)	1:2058:A:LEU:HD11	1:2058:A:LEU:HG	6	0.29
(1,1520)	1:2058:A:LEU:HD11	1:2058:A:LEU:HG	10	0.29
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	15	0.29
(1,1468)	1:2087:A:VAL:HG12	1:2088:A:PRO:HD2	8	0.29
(1,1450)	1:2114:A:LYS:HE2	1:2060:A:PRO:HB3	12	0.29
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	1	0.29
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	3	0.29
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	15	0.29
(1,1356)	1:2101:A:VAL:HG13	1:2129:A:LYS:HG2	3	0.29
(1,1350)	1:2077:A:THR:HG21	1:2078:A:ILE:HB	13	0.29
(1,1346)	1:2087:A:VAL:HG11	1:2088:A:PRO:HD3	12	0.29
(1,1324)	1:2123:A:TYR:HD1	1:2122:A:THR:HG21	9	0.29
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	15	0.29
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG12	1	0.29
(1,1196)	1:2099:A:GLN:H	1:2101:A:VAL:HG21	11	0.29
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG22	11	0.29
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG23	7	0.29
(1,866)	1:2073:A:SER:H	1:2073:A:SER:HB3	5	0.29
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	6	0.29
(1,696)	1:2057:A:PRO:HA	1:2058:A:LEU:HD22	15	0.29
(1,629)	1:2086:A:ILE:HG13	1:2092:A:VAL:HG22	6	0.29
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG22	1	0.29
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG23	4	0.29
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG21	7	0.29
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	13	0.29
(1,233)	1:2078:A:ILE:HD13	1:2078:A:ILE:HB	2	0.29
(1,233)	1:2078:A:ILE:HD13	1:2078:A:ILE:HB	9	0.29
(1,219)	1:2061:A:ILE:HG22	1:2063:A:GLU:HG3	13	0.29
(1,96)	1:2121:A:ALA:HB1	1:2109:A:VAL:HB	5	0.29
(1,69)	1:2112:A:VAL:HG11	1:2112:A:VAL:HB	3	0.29
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	4	0.29
(1,69)	1:2112:A:VAL:HG12	1:2112:A:VAL:HB	7	0.29
(1,69)	1:2112:A:VAL:HG13	1:2112:A:VAL:HB	11	0.29
(1,54)	1:2119:A:VAL:HG23	1:2119:A:VAL:HA	5	0.29
(1,54)	1:2119:A:VAL:HG23	1:2119:A:VAL:HA	14	0.29
(1,38)	1:2093:A:THR:HG23	1:2095:A:THR:HB	5	0.29
(1,36)	1:2065:A:VAL:HG22	1:2065:A:VAL:HA	2	0.29
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	4	0.29
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	10	0.29
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	15	0.29
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	11	0.29
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD2	9	0.28
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	6	0.28
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	11	0.28
(1,1594)	1:2085:A:THR:HG23	1:2077:A:THR:HB	5	0.28
(1,1594)	1:2085:A:THR:HG21	1:2077:A:THR:HB	13	0.28
(1,1520)	1:2058:A:LEU:HD12	1:2058:A:LEU:HG	2	0.28
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	5	0.28
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	7	0.28
(1,1520)	1:2058:A:LEU:HD11	1:2058:A:LEU:HG	9	0.28
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	9	0.28
(1,1383)	1:2078:A:ILE:HG23	1:2079:A:PRO:HG2	5	0.28
(1,1356)	1:2101:A:VAL:HG11	1:2129:A:LYS:HG2	11	0.28
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	1	0.28
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	6	0.28
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	14	0.28
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	12	0.28
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	10	0.28
(1,876)	1:2074:A:LYS:H	1:2073:A:SER:HB2	3	0.28
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	2	0.28
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	13	0.28
(1,616)	1:2082:A:GLY:HA2	1:2097:A:ASP:HB3	3	0.28
(1,616)	1:2082:A:GLY:HA2	1:2097:A:ASP:HB3	11	0.28
(1,461)	1:2056:A:ASP:HB3	1:2119:A:VAL:HG13	10	0.28
(1,389)	1:2070:A:GLU:HA	1:2110:A:LYS:HD2	8	0.28
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	13	0.28
(1,69)	1:2112:A:VAL:HG13	1:2112:A:VAL:HB	12	0.28
(1,54)	1:2119:A:VAL:HG23	1:2119:A:VAL:HA	6	0.28
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	9	0.28
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	7	0.28
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	7	0.28
(1,1739)	1:2115:A:ASN:HD22	1:2115:A:ASN:HB3	12	0.27
(1,1699)	1:2082:A:GLY:H	1:2078:A:ILE:HD12	14	0.27
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	6	0.27
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	14	0.27
(1,1671)	1:2063:A:GLU:H	1:2114:A:LYS:HE2	15	0.27
(1,1610)	1:2110:A:LYS:HG3	1:2110:A:LYS:HE2	2	0.27
(1,1588)	1:2101:A:VAL:HG23	1:2129:A:LYS:HG2	13	0.27
(1,1550)	1:2115:A:ASN:HB3	1:2059:A:VAL:HG22	12	0.27
(1,1529)	1:2118:A:PRO:HG3	1:2112:A:VAL:HG23	2	0.27
(1,1527)	1:2101:A:VAL:HG12	1:2129:A:LYS:HE3	12	0.27
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG11	3	0.27
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG12	7	0.27
(1,1526)	1:2088:A:PRO:HG2	1:2087:A:VAL:HG21	15	0.27
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	4	0.27
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	3	0.27
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HG	4	0.27
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HG	8	0.27
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HG	12	0.27
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG11	10	0.27
(1,1354)	1:2128:A:THR:HG23	1:2129:A:LYS:HD3	9	0.27
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	7	0.27
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	12	0.27
(1,1255)	1:2061:A:ILE:HD12	1:2094:A:PHE:HD1	8	0.27
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	6	0.27
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG11	11	0.27
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	12	0.27
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG23	13	0.27
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG22	1	0.27
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG23	11	0.27
(1,612)	1:2061:A:ILE:HD13	1:2111:A:ARG:HG3	3	0.27
(1,526)	1:2055:A:GLY:HA2	1:2061:A:ILE:HD13	7	0.27
(1,96)	1:2121:A:ALA:HB2	1:2109:A:VAL:HB	4	0.27
(1,83)	1:2108:A:THR:HG22	1:2120:A:THR:HB	2	0.27
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	1	0.27
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	12	0.27
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:2065:A:VAL:HG23	1:2065:A:VAL:HA	5	0.27
(1,36)	1:2065:A:VAL:HG22	1:2065:A:VAL:HA	13	0.27
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	4	0.27
(3,25)	1:2059:A:VAL:H	1:2056:A:ASP:O	7	0.26
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG21	10	0.26
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	8	0.26
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG22	12	0.26
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	10	0.26
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB2	14	0.26
(1,1610)	1:2110:A:LYS:HG3	1:2110:A:LYS:HE2	4	0.26
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	6	0.26
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	11	0.26
(1,1383)	1:2078:A:ILE:HG22	1:2079:A:PRO:HG2	7	0.26
(1,1383)	1:2078:A:ILE:HG23	1:2079:A:PRO:HG2	11	0.26
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HG	7	0.26
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HG	11	0.26
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HG	13	0.26
(1,1363)	1:2109:A:VAL:HG23	1:2107:A:VAL:HG11	4	0.26
(1,1216)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG21	14	0.26
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	8	0.26
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	9	0.26
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	10	0.26
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG23	14	0.26
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	5	0.26
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	3	0.26
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	9	0.26
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	10	0.26
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	15	0.26
(1,522)	1:2084:A:TYR:HB3	1:2107:A:VAL:HG21	8	0.26
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG21	12	0.26
(1,388)	1:2059:A:VAL:HG22	1:2059:A:VAL:HA	7	0.26
(1,84)	1:2117:A:THR:HG23	1:2055:A:GLY:HA2	13	0.26
(1,83)	1:2108:A:THR:HG21	1:2120:A:THR:HB	9	0.26
(1,66)	1:2120:A:THR:HG21	1:2118:A:PRO:HB3	9	0.26
(1,54)	1:2119:A:VAL:HG23	1:2119:A:VAL:HA	3	0.26
(1,54)	1:2119:A:VAL:HG21	1:2119:A:VAL:HA	4	0.26
(1,54)	1:2119:A:VAL:HG22	1:2119:A:VAL:HA	15	0.26
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	7	0.26
(1,36)	1:2065:A:VAL:HG21	1:2065:A:VAL:HA	3	0.26
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	5	0.25
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	4	0.25
(1,1608)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1433)	1:2110:A:LYS:HE3	1:2118:A:PRO:HD2	11	0.25
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	12	0.25
(1,1338)	1:2120:A:THR:HG22	1:2070:A:GLU:HG3	7	0.25
(1,1327)	1:2086:A:ILE:HD12	1:2092:A:VAL:HG23	3	0.25
(1,1324)	1:2123:A:TYR:HD1	1:2122:A:THR:HG22	7	0.25
(1,1270)	1:2127:A:PHE:HB2	1:2123:A:TYR:HE2	15	0.25
(1,1261)	1:2094:A:PHE:HD2	1:2119:A:VAL:HA	14	0.25
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	10	0.25
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG23	3	0.25
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	14	0.25
(1,739)	1:2058:A:LEU:H	1:2056:A:ASP:HB2	14	0.25
(1,655)	1:2085:A:THR:HG22	1:2083:A:THR:HG22	15	0.25
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	12	0.25
(1,590)	1:2091:A:THR:HG22	1:2063:A:GLU:HG3	8	0.25
(1,522)	1:2084:A:TYR:HB3	1:2107:A:VAL:HG23	10	0.25
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG22	9	0.25
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	14	0.25
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	2	0.25
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	10	0.25
(1,162)	1:2059:A:VAL:HG13	1:2114:A:LYS:HB2	4	0.25
(1,90)	1:2083:A:THR:HG22	1:2075:A:GLU:HG2	2	0.25
(1,48)	1:2061:A:ILE:HD12	1:2119:A:VAL:HG12	1	0.25
(1,41)	1:2059:A:VAL:HG21	1:2056:A:ASP:HB3	7	0.25
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	15	0.25
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	3	0.24
(1,1655)	1:2114:A:LYS:HA	1:2059:A:VAL:HG21	10	0.24
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG13	4	0.24
(1,1594)	1:2085:A:THR:HG23	1:2077:A:THR:HB	4	0.24
(1,1585)	1:2106:A:PRO:HG3	1:2105:A:ASP:HB3	3	0.24
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG12	10	0.24
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	9	0.24
(1,1509)	1:2130:A:VAL:HA	1:2129:A:LYS:HG3	9	0.24
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	2	0.24
(1,1468)	1:2087:A:VAL:HG11	1:2088:A:PRO:HD2	6	0.24
(1,1468)	1:2087:A:VAL:HG21	1:2088:A:PRO:HD2	13	0.24
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HG	2	0.24
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HB3	3	0.24
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HB3	9	0.24
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	13	0.24
(1,1261)	1:2094:A:PHE:HD1	1:2119:A:VAL:HA	2	0.24
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	9	0.24
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG21	8	0.24
(1,819)	1:2065:A:VAL:H	1:2065:A:VAL:HG22	9	0.24
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	1	0.24
(1,617)	1:2097:A:ASP:HB2	1:2082:A:GLY:HA2	8	0.24
(1,607)	1:2092:A:VAL:HG11	1:2109:A:VAL:HB	6	0.24
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG22	9	0.24
(1,358)	1:2129:A:LYS:HA	1:2101:A:VAL:HG22	6	0.24
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	11	0.24
(1,290)	1:2055:A:GLY:HA2	1:2119:A:VAL:HG13	7	0.24
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD12	12	0.24
(1,217)	1:2085:A:THR:HG23	1:2075:A:GLU:HG3	6	0.24
(1,20)	1:2091:A:THR:HG23	1:2087:A:VAL:HA	6	0.24
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG22	9	0.23
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB2	1	0.23
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	9	0.23
(1,1596)	1:2059:A:VAL:HG21	1:2058:A:LEU:HA	3	0.23
(1,1527)	1:2101:A:VAL:HG13	1:2129:A:LYS:HE2	2	0.23
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	9	0.23
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	4	0.23
(1,1437)	1:2114:A:LYS:HE3	1:2060:A:PRO:HG3	5	0.23
(1,1437)	1:2114:A:LYS:HE3	1:2062:A:ASP:HB2	14	0.23
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	10	0.23
(1,1367)	1:2058:A:LEU:HD23	1:2058:A:LEU:HG	14	0.23
(1,1332)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG12	1	0.23
(1,1332)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG12	2	0.23
(1,1332)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG12	9	0.23
(1,1211)	1:2107:A:VAL:HG12	1:2069:A:PHE:HD1	1	0.23
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	12	0.23
(1,1105)	1:2115:A:ASN:HD22	1:2059:A:VAL:HG23	7	0.23
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG21	11	0.23
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	11	0.23
(1,371)	1:2107:A:VAL:HG11	1:2107:A:VAL:HA	12	0.23
(1,288)	1:2055:A:GLY:HA2	1:2119:A:VAL:HG21	6	0.23
(1,261)	1:2076:A:LYS:HE3	1:2078:A:ILE:HD11	5	0.23
(1,162)	1:2059:A:VAL:HG11	1:2114:A:LYS:HB2	2	0.23
(1,142)	1:2108:A:THR:HG22	1:2070:A:GLU:HB3	6	0.23
(1,84)	1:2117:A:THR:HG21	1:2055:A:GLY:HA2	2	0.23
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	10	0.23
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	13	0.22
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG22	3	0.22
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG23	14	0.22
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG21	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	15	0.22
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	11	0.22
(1,1383)	1:2078:A:ILE:HG21	1:2079:A:PRO:HG2	1	0.22
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	5	0.22
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG21	12	0.22
(1,1327)	1:2086:A:ILE:HD11	1:2092:A:VAL:HG23	13	0.22
(1,1308)	1:2123:A:TYR:HE1	1:2124:A:SER:HA	7	0.22
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG13	7	0.22
(1,1208)	1:2095:A:THR:H	1:2093:A:THR:HG23	1	0.22
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	2	0.22
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG23	8	0.22
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG11	6	0.22
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	12	0.22
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	10	0.22
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	5	0.22
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	10	0.22
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	7	0.22
(1,914)	1:2110:A:LYS:H	1:2109:A:VAL:HG12	13	0.22
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	13	0.22
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	4	0.22
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG11	11	0.22
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	7	0.22
(1,613)	1:2061:A:ILE:HG23	1:2111:A:ARG:HG3	10	0.22
(1,594)	1:2108:A:THR:HG23	1:2107:A:VAL:HG13	11	0.22
(1,550)	1:2076:A:LYS:HE2	1:2077:A:THR:HA	4	0.22
(1,478)	1:2074:A:LYS:HE2	1:2068:A:THR:HA	1	0.22
(1,457)	1:2068:A:THR:HA	1:2086:A:ILE:HG22	15	0.22
(1,371)	1:2107:A:VAL:HG11	1:2107:A:VAL:HA	1	0.22
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	7	0.22
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	10	0.22
(1,371)	1:2107:A:VAL:HG13	1:2107:A:VAL:HA	13	0.22
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	14	0.22
(1,371)	1:2107:A:VAL:HG13	1:2107:A:VAL:HA	15	0.22
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	5	0.22
(1,217)	1:2085:A:THR:HG23	1:2075:A:GLU:HG3	2	0.22
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	14	0.22
(1,162)	1:2059:A:VAL:HG13	1:2114:A:LYS:HB2	1	0.22
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	6	0.22
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG23	8	0.22
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	11	0.22
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG23	14	0.22
(1,66)	1:2120:A:THR:HG22	1:2118:A:PRO:HB3	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,25)	1:2059:A:VAL:H	1:2056:A:ASP:O	11	0.21
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG23	15	0.21
(1,1721)	1:2108:A:THR:H	1:2076:A:LYS:HD2	4	0.21
(1,1716)	1:2099:A:GLN:H	1:2098:A:LYS:HD2	13	0.21
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	14	0.21
(1,1596)	1:2059:A:VAL:HG23	1:2058:A:LEU:HA	4	0.21
(1,1570)	1:2129:A:LYS:HG2	1:2129:A:LYS:HE3	9	0.21
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG11	6	0.21
(1,1486)	1:2129:A:LYS:HG3	1:2129:A:LYS:HA	8	0.21
(1,1431)	1:2094:A:PHE:HB3	1:2121:A:ALA:HA	7	0.21
(1,1332)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG12	3	0.21
(1,1293)	1:2069:A:PHE:HZ	1:2076:A:LYS:HG3	15	0.21
(1,1291)	1:2069:A:PHE:HE2	1:2076:A:LYS:HG3	13	0.21
(1,1211)	1:2107:A:VAL:HG12	1:2069:A:PHE:HD2	13	0.21
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG12	8	0.21
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG23	1	0.21
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	7	0.21
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	14	0.21
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG21	7	0.21
(1,696)	1:2057:A:PRO:HA	1:2058:A:LEU:HD22	6	0.21
(1,470)	1:2058:A:LEU:HD13	1:2060:A:PRO:HD3	15	0.21
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG23	13	0.21
(1,413)	1:2065:A:VAL:HG12	1:2065:A:VAL:HA	9	0.21
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	9	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	2	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	10	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	12	0.21
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	15	0.21
(1,96)	1:2121:A:ALA:HB2	1:2109:A:VAL:HB	3	0.21
(1,56)	1:2101:A:VAL:HG11	1:2129:A:LYS:HA	14	0.21
(1,56)	1:2101:A:VAL:HG12	1:2129:A:LYS:HA	15	0.21
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	5	0.21
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG21	7	0.2
(1,1778)	1:2127:A:PHE:HB3	1:2123:A:TYR:HE1	8	0.2
(1,1778)	1:2127:A:PHE:HB3	1:2123:A:TYR:HE1	9	0.2
(1,1603)	1:2129:A:LYS:HE3	1:2130:A:VAL:HG22	8	0.2
(1,1594)	1:2085:A:THR:HG22	1:2093:A:THR:HB	15	0.2
(1,1526)	1:2088:A:PRO:HG3	1:2087:A:VAL:HG11	11	0.2
(1,1519)	1:2058:A:LEU:HD13	1:2057:A:PRO:HG2	12	0.2
(1,1486)	1:2129:A:LYS:HG2	1:2129:A:LYS:HA	14	0.2
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD12	8	0.2
(1,1367)	1:2058:A:LEU:HD22	1:2058:A:LEU:HG	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	6	0.2
(1,1367)	1:2058:A:LEU:HD21	1:2058:A:LEU:HB3	15	0.2
(1,1364)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	2	0.2
(1,1351)	1:2087:A:VAL:HG21	1:2088:A:PRO:HB3	13	0.2
(1,1329)	1:2061:A:ILE:HG23	1:2111:A:ARG:HG2	8	0.2
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	5	0.2
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	15	0.2
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG21	3	0.2
(1,389)	1:2070:A:GLU:HA	1:2110:A:LYS:HD2	10	0.2
(1,389)	1:2070:A:GLU:HA	1:2110:A:LYS:HD2	15	0.2
(1,371)	1:2107:A:VAL:HG12	1:2107:A:VAL:HA	4	0.2
(1,371)	1:2107:A:VAL:HG11	1:2107:A:VAL:HA	6	0.2
(1,371)	1:2107:A:VAL:HG11	1:2107:A:VAL:HA	11	0.2
(1,217)	1:2085:A:THR:HG21	1:2075:A:GLU:HG3	9	0.2
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG23	4	0.2
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	7	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	1	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	2	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	3	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	4	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	5	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	6	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	7	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	8	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	9	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	10	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	11	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	12	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	13	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	14	0.2
(1,159)	1:2079:A:PRO:HG3	1:2079:A:PRO:HB2	15	0.2
(1,89)	1:2059:A:VAL:HG12	1:2113:A:ASP:HB2	15	0.2
(1,83)	1:2108:A:THR:HG23	1:2120:A:THR:HB	6	0.2
(1,56)	1:2101:A:VAL:HG11	1:2129:A:LYS:HA	7	0.2
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	3	0.2
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG13	7	0.2
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG22	13	0.19
(1,1538)	1:2118:A:PRO:HB2	1:2110:A:LYS:HE2	6	0.19
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG12	12	0.19
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	12	0.19
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG22	14	0.19
(1,1453)	1:2056:A:ASP:HB2	1:2057:A:PRO:HD2	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1434)	1:2114:A:LYS:HB3	1:2114:A:LYS:HE2	7	0.19
(1,1353)	1:2130:A:VAL:HG21	1:2129:A:LYS:HB3	6	0.19
(1,1329)	1:2061:A:ILE:HG23	1:2111:A:ARG:HG2	10	0.19
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG12	14	0.19
(1,1222)	1:2069:A:PHE:HZ	1:2107:A:VAL:HG13	9	0.19
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	1	0.19
(1,1095)	1:2115:A:ASN:H	1:2059:A:VAL:HG21	4	0.19
(1,992)	1:2090:A:GLY:H	1:2086:A:ILE:HG13	7	0.19
(1,979)	1:2089:A:ASP:H	1:2091:A:THR:HG22	15	0.19
(1,955)	1:2084:A:TYR:H	1:2076:A:LYS:HB2	6	0.19
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG22	3	0.19
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG22	10	0.19
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG23	6	0.19
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	7	0.19
(1,725)	1:2111:A:ARG:HD3	1:2061:A:ILE:HG22	7	0.19
(1,696)	1:2057:A:PRO:HA	1:2058:A:LEU:HD22	5	0.19
(1,612)	1:2061:A:ILE:HD11	1:2111:A:ARG:HG3	8	0.19
(1,453)	1:2118:A:PRO:HB3	1:2117:A:THR:HG22	5	0.19
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG23	1	0.19
(1,314)	1:2087:A:VAL:HB	1:2088:A:PRO:HD3	3	0.19
(1,284)	1:2090:A:GLY:HA3	1:2067:A:PRO:HG3	10	0.19
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	1	0.19
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG23	3	0.19
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG21	13	0.19
(1,160)	1:2057:A:PRO:HB2	1:2058:A:LEU:HD11	7	0.19
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	8	0.19
(1,89)	1:2059:A:VAL:HG13	1:2113:A:ASP:HB2	7	0.19
(1,66)	1:2120:A:THR:HG21	1:2118:A:PRO:HB3	13	0.19
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	7	0.19
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	12	0.19
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	5	0.19
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	15	0.19
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	6	0.19
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	1	0.18
(1,1778)	1:2127:A:PHE:HB3	1:2123:A:TYR:HE2	4	0.18
(1,1734)	1:2114:A:LYS:H	1:2059:A:VAL:HG23	7	0.18
(1,1733)	1:2073:A:SER:H	1:2074:A:LYS:HB2	13	0.18
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	8	0.18
(1,1527)	1:2101:A:VAL:HG12	1:2129:A:LYS:HE2	10	0.18
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	12	0.18
(1,1509)	1:2130:A:VAL:HA	1:2129:A:LYS:HG3	10	0.18
(1,1223)	1:2107:A:VAL:HG13	1:2069:A:PHE:HE1	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1211)	1:2107:A:VAL:HG13	1:2069:A:PHE:HD1	2	0.18
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	8	0.18
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG22	2	0.18
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	3	0.18
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	7	0.18
(1,886)	1:2075:A:GLU:H	1:2073:A:SER:HB2	15	0.18
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	14	0.18
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	4	0.18
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	3	0.18
(1,753)	1:2059:A:VAL:H	1:2059:A:VAL:HB	7	0.18
(1,739)	1:2058:A:LEU:H	1:2056:A:ASP:HB2	13	0.18
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	14	0.18
(1,289)	1:2116:A:GLY:HA2	1:2112:A:VAL:HG21	9	0.18
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	9	0.18
(1,60)	1:2077:A:THR:HG22	1:2077:A:THR:HB	3	0.18
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	4	0.18
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	6	0.18
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	8	0.18
(1,60)	1:2077:A:THR:HG22	1:2077:A:THR:HB	10	0.18
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	11	0.18
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	15	0.18
(1,56)	1:2101:A:VAL:HG13	1:2129:A:LYS:HA	5	0.18
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	1	0.18
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	2	0.18
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	3	0.18
(1,45)	1:2065:A:VAL:HG12	1:2065:A:VAL:HB	13	0.18
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	2	0.18
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	12	0.18
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	8	0.18
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	14	0.18
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG13	10	0.18
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	4	0.17
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	15	0.17
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	8	0.17
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	13	0.17
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG22	12	0.17
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	15	0.17
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	2	0.17
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	12	0.17
(1,1717)	1:2099:A:GLN:H	1:2098:A:LYS:HG3	12	0.17
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	12	0.17
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:2058:A:LEU:HD12	1:2058:A:LEU:HG	13	0.17
(1,1482)	1:2075:A:GLU:HA	1:2092:A:VAL:HG11	8	0.17
(1,1448)	1:2059:A:VAL:HG11	1:2114:A:LYS:HE2	12	0.17
(1,1330)	1:2061:A:ILE:HG23	1:2111:A:ARG:HD2	13	0.17
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	11	0.17
(1,1288)	1:2100:A:PHE:HE2	1:2101:A:VAL:HG13	7	0.17
(1,1101)	1:2115:A:ASN:HD21	1:2059:A:VAL:HG23	1	0.17
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	6	0.17
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	12	0.17
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	8	0.17
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	2	0.17
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG22	14	0.17
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	7	0.17
(1,754)	1:2059:A:VAL:H	1:2060:A:PRO:HB2	10	0.17
(1,734)	1:2081:A:GLN:HE21	1:2078:A:ILE:HG22	4	0.17
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	1	0.17
(1,594)	1:2108:A:THR:HG22	1:2107:A:VAL:HG11	4	0.17
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG23	5	0.17
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD11	9	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	4	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	6	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	8	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	10	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	13	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	14	0.17
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	15	0.17
(1,161)	1:2065:A:VAL:HB	1:2065:A:VAL:HG22	5	0.17
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	2	0.17
(1,117)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	15	0.17
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	1	0.17
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	2	0.17
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	5	0.17
(1,60)	1:2077:A:THR:HG23	1:2077:A:THR:HB	9	0.17
(1,60)	1:2077:A:THR:HG22	1:2077:A:THR:HB	13	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	4	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	6	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	7	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	8	0.17
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	10	0.17
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	11	0.17
(1,45)	1:2065:A:VAL:HG11	1:2065:A:VAL:HB	12	0.17
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	6	0.17
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	7	0.17
(1,43)	1:2059:A:VAL:HG22	1:2059:A:VAL:HB	10	0.17
(1,6)	1:2061:A:ILE:HD13	1:2119:A:VAL:HB	6	0.17
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG13	9	0.17
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG12	11	0.17
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG11	14	0.17
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG11	15	0.17
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	6	0.16
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	8	0.16
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE3	3	0.16
(1,1677)	1:2069:A:PHE:H	1:2074:A:LYS:HD2	3	0.16
(1,1520)	1:2058:A:LEU:HD12	1:2058:A:LEU:HG	8	0.16
(1,1520)	1:2058:A:LEU:HD11	1:2058:A:LEU:HG	14	0.16
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	4	0.16
(1,1465)	1:2060:A:PRO:HD3	1:2057:A:PRO:HB2	10	0.16
(1,1448)	1:2059:A:VAL:HG13	1:2114:A:LYS:HE3	1	0.16
(1,1336)	1:2112:A:VAL:HG22	1:2110:A:LYS:HE3	5	0.16
(1,1330)	1:2061:A:ILE:HG21	1:2111:A:ARG:HD2	4	0.16
(1,1051)	1:2108:A:THR:H	1:2107:A:VAL:HG22	4	0.16
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	1	0.16
(1,957)	1:2084:A:TYR:H	1:2083:A:THR:HG21	11	0.16
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	8	0.16
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	6	0.16
(1,705)	1:2056:A:ASP:HB3	1:2059:A:VAL:HG12	2	0.16
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD1	6	0.16
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG21	13	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG21	2	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	3	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG21	7	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	9	0.16
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	11	0.16
(1,217)	1:2085:A:THR:HG23	1:2075:A:GLU:HG3	15	0.16
(1,80)	1:2058:A:LEU:HD13	1:2058:A:LEU:HA	15	0.16
(1,60)	1:2077:A:THR:HG21	1:2077:A:THR:HB	14	0.16
(1,57)	1:2064:A:THR:HG21	1:2064:A:THR:HA	12	0.16
(1,57)	1:2064:A:THR:HG22	1:2064:A:THR:HA	15	0.16
(1,45)	1:2065:A:VAL:HG13	1:2065:A:VAL:HB	9	0.16
(1,45)	1:2065:A:VAL:HG12	1:2065:A:VAL:HB	14	0.16
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	1	0.16
(1,43)	1:2059:A:VAL:HG22	1:2059:A:VAL:HB	4	0.16
(1,43)	1:2059:A:VAL:HG22	1:2059:A:VAL:HB	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG13	2	0.16
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG11	13	0.16
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	2	0.15
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	13	0.15
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	1	0.15
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	5	0.15
(3,2)	1:2110:A:LYS:H	1:2068:A:THR:O	6	0.15
(1,1793)	1:2078:A:ILE:HD11	1:2084:A:TYR:HE2	2	0.15
(1,1753)	1:2130:A:VAL:H	1:2129:A:LYS:HG3	8	0.15
(1,1520)	1:2058:A:LEU:HD13	1:2058:A:LEU:HG	1	0.15
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG21	7	0.15
(1,1511)	1:2091:A:THR:HG22	1:2091:A:THR:HA	9	0.15
(1,1450)	1:2114:A:LYS:HE3	1:2060:A:PRO:HB3	2	0.15
(1,1449)	1:2094:A:PHE:HB2	1:2061:A:ILE:HD11	12	0.15
(1,1433)	1:2110:A:LYS:HE2	1:2118:A:PRO:HD2	4	0.15
(1,1418)	1:2099:A:GLN:HG3	1:2098:A:LYS:HG3	6	0.15
(1,1368)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE3	11	0.15
(1,1352)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB3	14	0.15
(1,1329)	1:2061:A:ILE:HG22	1:2111:A:ARG:HG2	3	0.15
(1,1327)	1:2086:A:ILE:HD12	1:2092:A:VAL:HG22	7	0.15
(1,1303)	1:2100:A:PHE:HZ	1:2104:A:PRO:HB2	7	0.15
(1,1270)	1:2127:A:PHE:HB2	1:2123:A:TYR:HE1	14	0.15
(1,1162)	1:2130:A:VAL:H	1:2101:A:VAL:HG21	13	0.15
(1,1133)	1:2119:A:VAL:H	1:2061:A:ILE:HD13	3	0.15
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	5	0.15
(1,825)	1:2066:A:GLU:H	1:2065:A:VAL:HG23	3	0.15
(1,795)	1:2063:A:GLU:H	1:2063:A:GLU:HG2	7	0.15
(1,739)	1:2058:A:LEU:H	1:2056:A:ASP:HB2	12	0.15
(1,642)	1:2078:A:ILE:HA	1:2084:A:TYR:HD2	4	0.15
(1,556)	1:2119:A:VAL:HG22	1:2094:A:PHE:HD2	3	0.15
(1,358)	1:2129:A:LYS:HA	1:2101:A:VAL:HG22	10	0.15
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG22	12	0.15
(1,96)	1:2121:A:ALA:HB2	1:2109:A:VAL:HB	11	0.15
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	5	0.15
(1,57)	1:2064:A:THR:HG21	1:2064:A:THR:HA	7	0.15
(1,57)	1:2064:A:THR:HG21	1:2064:A:THR:HA	9	0.15
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	11	0.15
(1,56)	1:2101:A:VAL:HG13	1:2129:A:LYS:HA	3	0.15
(1,43)	1:2059:A:VAL:HG23	1:2059:A:VAL:HB	13	0.15
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	13	0.15
(1,2)	1:2107:A:VAL:HG23	1:2107:A:VAL:HG12	1	0.15
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	9	0.14
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	4	0.14
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	11	0.14
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	14	0.14
(3,2)	1:2110:A:LYS:H	1:2068:A:THR:O	7	0.14
(1,1783)	1:2123:A:TYR:HD2	1:2109:A:VAL:HG23	2	0.14
(1,1780)	1:2069:A:PHE:HD1	1:2084:A:TYR:HA	14	0.14
(1,1754)	1:2130:A:VAL:H	1:2130:A:VAL:HG11	14	0.14
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE2	1	0.14
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	7	0.14
(1,1616)	1:2107:A:VAL:HG13	1:2078:A:ILE:HG12	4	0.14
(1,1615)	1:2076:A:LYS:HD3	1:2107:A:VAL:HG13	2	0.14
(1,1608)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	4	0.14
(1,1585)	1:2089:A:ASP:HB2	1:2088:A:PRO:HB3	2	0.14
(1,1570)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE2	11	0.14
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG11	14	0.14
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG22	11	0.14
(1,1432)	1:2114:A:LYS:HE2	1:2062:A:ASP:HA	1	0.14
(1,1368)	1:2129:A:LYS:HG3	1:2129:A:LYS:HE3	2	0.14
(1,1358)	1:2117:A:THR:HG21	1:2118:A:PRO:HB2	15	0.14
(1,1353)	1:2130:A:VAL:HG11	1:2129:A:LYS:HB2	13	0.14
(1,1184)	1:2056:A:ASP:H	1:2056:A:ASP:HB3	11	0.14
(1,1176)	1:2055:A:GLY:H	1:2056:A:ASP:H	11	0.14
(1,1094)	1:2115:A:ASN:H	1:2059:A:VAL:HG13	15	0.14
(1,1043)	1:2105:A:ASP:H	1:2078:A:ILE:HD13	1	0.14
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	1	0.14
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	1	0.14
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	11	0.14
(1,925)	1:2078:A:ILE:H	1:2077:A:THR:HG23	15	0.14
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG22	8	0.14
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG21	10	0.14
(1,757)	1:2059:A:VAL:H	1:2059:A:VAL:HG12	11	0.14
(1,696)	1:2057:A:PRO:HA	1:2058:A:LEU:HD22	10	0.14
(1,661)	1:2107:A:VAL:HB	1:2069:A:PHE:HE2	13	0.14
(1,410)	1:2104:A:PRO:HA	1:2081:A:GLN:HB2	4	0.14
(1,362)	1:2063:A:GLU:HA	1:2061:A:ILE:HG21	12	0.14
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD12	7	0.14
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG23	1	0.14
(1,218)	1:2112:A:VAL:HB	1:2112:A:VAL:HG21	5	0.14
(1,162)	1:2059:A:VAL:HG13	1:2114:A:LYS:HB2	7	0.14
(1,155)	1:2110:A:LYS:HD3	1:2118:A:PRO:HG2	14	0.14
(1,133)	1:2078:A:ILE:HG22	1:2078:A:ILE:HG13	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	9	0.14
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	13	0.14
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	14	0.14
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	1	0.14
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	8	0.14
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	13	0.14
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	4	0.14
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	4	0.14
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	2	0.14
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	5	0.14
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	12	0.14
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	3	0.13
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	12	0.13
(3,21)	1:2117:A:THR:H	1:2113:A:ASP:OD1	14	0.13
(1,1783)	1:2123:A:TYR:HD1	1:2109:A:VAL:HG23	4	0.13
(1,1780)	1:2069:A:PHE:HD1	1:2084:A:TYR:HA	9	0.13
(1,1733)	1:2073:A:SER:H	1:2074:A:LYS:HB2	5	0.13
(1,1712)	1:2095:A:THR:H	1:2083:A:THR:HB	14	0.13
(1,1596)	1:2059:A:VAL:HG23	1:2058:A:LEU:HA	15	0.13
(1,1514)	1:2088:A:PRO:HA	1:2087:A:VAL:HG23	10	0.13
(1,1448)	1:2059:A:VAL:HG12	1:2114:A:LYS:HE2	13	0.13
(1,1363)	1:2109:A:VAL:HG23	1:2107:A:VAL:HG11	2	0.13
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG11	7	0.13
(1,1363)	1:2109:A:VAL:HG22	1:2107:A:VAL:HG13	8	0.13
(1,1336)	1:2112:A:VAL:HG22	1:2110:A:LYS:HE3	7	0.13
(1,1051)	1:2108:A:THR:H	1:2107:A:VAL:HG21	11	0.13
(1,1045)	1:2081:A:GLN:HE21	1:2105:A:ASP:H	15	0.13
(1,1041)	1:2105:A:ASP:H	1:2105:A:ASP:HB3	8	0.13
(1,1028)	1:2099:A:GLN:H	1:2097:A:ASP:HB2	4	0.13
(1,1003)	1:2091:A:THR:H	1:2086:A:ILE:HG13	3	0.13
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	4	0.13
(1,857)	1:2072:A:GLY:H	1:2110:A:LYS:HB2	5	0.13
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG22	3	0.13
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG21	8	0.13
(1,411)	1:2104:A:PRO:HA	1:2078:A:ILE:HD13	8	0.13
(1,358)	1:2129:A:LYS:HA	1:2101:A:VAL:HG22	8	0.13
(1,311)	1:2088:A:PRO:HD2	1:2087:A:VAL:HA	5	0.13
(1,295)	1:2072:A:GLY:HA3	1:2068:A:THR:HG1	1	0.13
(1,286)	1:2072:A:GLY:HA3	1:2068:A:THR:HG23	1	0.13
(1,274)	1:2074:A:LYS:HE3	1:2074:A:LYS:HG3	1	0.13
(1,274)	1:2074:A:LYS:HE3	1:2074:A:LYS:HG3	13	0.13
(1,258)	1:2100:A:PHE:HB3	1:2097:A:ASP:HB2	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,198)	1:2129:A:LYS:HB2	1:2128:A:THR:HB	6	0.13
(1,150)	1:2110:A:LYS:HD3	1:2118:A:PRO:HB2	11	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	1	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	2	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	5	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	6	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	7	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	8	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	11	0.13
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	15	0.13
(1,96)	1:2121:A:ALA:HB2	1:2109:A:VAL:HB	15	0.13
(1,80)	1:2058:A:LEU:HD11	1:2058:A:LEU:HA	6	0.13
(1,57)	1:2064:A:THR:HG22	1:2064:A:THR:HA	10	0.13
(1,30)	1:2093:A:THR:HG23	1:2093:A:THR:HA	10	0.13
(1,30)	1:2093:A:THR:HG23	1:2093:A:THR:HA	15	0.13
(1,6)	1:2061:A:ILE:HD12	1:2119:A:VAL:HB	9	0.13
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	1	0.13
(1,3)	1:2107:A:VAL:HG12	1:2076:A:LYS:HG3	12	0.13
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	11	0.12
(3,24)	1:2065:A:VAL:H	1:2062:A:ASP:O	12	0.12
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	9	0.12
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	10	0.12
(3,2)	1:2110:A:LYS:H	1:2068:A:THR:O	2	0.12
(1,1733)	1:2073:A:SER:H	1:2074:A:LYS:HB2	1	0.12
(1,1596)	1:2059:A:VAL:HG23	1:2058:A:LEU:HA	2	0.12
(1,1568)	1:2098:A:LYS:HE2	1:2098:A:LYS:HB2	12	0.12
(1,1496)	1:2068:A:THR:HA	1:2092:A:VAL:HG21	3	0.12
(1,1462)	1:2067:A:PRO:HG2	1:2090:A:GLY:HA3	5	0.12
(1,1455)	1:2129:A:LYS:HD2	1:2129:A:LYS:HE2	15	0.12
(1,1368)	1:2129:A:LYS:HG2	1:2129:A:LYS:HE2	5	0.12
(1,1356)	1:2101:A:VAL:HG12	1:2129:A:LYS:HG2	10	0.12
(1,1293)	1:2069:A:PHE:HZ	1:2076:A:LYS:HG3	14	0.12
(1,1275)	1:2069:A:PHE:HZ	1:2084:A:TYR:HB2	8	0.12
(1,1225)	1:2069:A:PHE:HZ	1:2092:A:VAL:HG13	15	0.12
(1,1211)	1:2107:A:VAL:HG13	1:2069:A:PHE:HD2	7	0.12
(1,1158)	1:2129:A:LYS:H	1:2101:A:VAL:HG13	2	0.12
(1,1112)	1:2116:A:GLY:H	1:2112:A:VAL:HG22	12	0.12
(1,1060)	1:2111:A:ARG:H	1:2061:A:ILE:HG22	3	0.12
(1,897)	1:2076:A:LYS:H	1:2084:A:TYR:HB3	12	0.12
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	11	0.12
(1,757)	1:2059:A:VAL:H	1:2059:A:VAL:HG12	14	0.12
(1,655)	1:2085:A:THR:HG22	1:2083:A:THR:HG23	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,655)	1:2085:A:THR:HG21	1:2083:A:THR:HG23	14	0.12
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	8	0.12
(1,653)	1:2061:A:ILE:HG12	1:2056:A:ASP:HB3	14	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	2	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	4	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	6	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	8	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	14	0.12
(1,336)	1:2089:A:ASP:HB3	1:2089:A:ASP:HA	15	0.12
(1,291)	1:2090:A:GLY:HA3	1:2086:A:ILE:HD13	8	0.12
(1,187)	1:2075:A:GLU:HB2	1:2085:A:THR:HG23	15	0.12
(1,155)	1:2110:A:LYS:HD3	1:2118:A:PRO:HG2	11	0.12
(1,133)	1:2078:A:ILE:HG23	1:2078:A:ILE:HG13	1	0.12
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	4	0.12
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	12	0.12
(1,95)	1:2059:A:VAL:HG12	1:2114:A:LYS:HG3	13	0.12
(1,70)	1:2101:A:VAL:HG12	1:2101:A:VAL:HB	11	0.12
(1,66)	1:2120:A:THR:HG23	1:2118:A:PRO:HB3	8	0.12
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	3	0.12
(1,38)	1:2093:A:THR:HG21	1:2095:A:THR:HB	7	0.12
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	5	0.12
(1,30)	1:2093:A:THR:HG22	1:2093:A:THR:HA	6	0.12
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	12	0.12
(1,30)	1:2093:A:THR:HG21	1:2093:A:THR:HA	14	0.12
(1,2)	1:2107:A:VAL:HG21	1:2107:A:VAL:HG12	8	0.12
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	15	0.11
(3,26)	1:2081:A:GLN:HE21	1:2105:A:ASP:O	10	0.11
(3,21)	1:2117:A:THR:H	1:2113:A:ASP:OD1	12	0.11
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	6	0.11
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	9	0.11
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	10	0.11
(1,1725)	1:2111:A:ARG:H	1:2110:A:LYS:HB3	6	0.11
(1,1715)	1:2099:A:GLN:H	1:2098:A:LYS:HB2	7	0.11
(1,1596)	1:2059:A:VAL:HG21	1:2058:A:LEU:HA	5	0.11
(1,1533)	1:2110:A:LYS:HE3	1:2112:A:VAL:HG11	5	0.11
(1,1368)	1:2129:A:LYS:HG2	1:2129:A:LYS:HE2	15	0.11
(1,1364)	1:2110:A:LYS:HG3	1:2118:A:PRO:HB2	7	0.11
(1,1339)	1:2093:A:THR:HG22	1:2075:A:GLU:HG2	11	0.11
(1,1204)	1:2058:A:LEU:H	1:2060:A:PRO:HA	7	0.11
(1,931)	1:2081:A:GLN:H	1:2080:A:GLY:HA2	4	0.11
(1,868)	1:2073:A:SER:H	1:2069:A:PHE:HB3	3	0.11
(1,863)	1:2072:A:GLY:H	1:2068:A:THR:HG1	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,863)	1:2072:A:GLY:H	1:2068:A:THR:HG1	12	0.11
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG22	1	0.11
(1,795)	1:2063:A:GLU:H	1:2063:A:GLU:HG2	15	0.11
(1,756)	1:2059:A:VAL:H	1:2058:A:LEU:HB3	11	0.11
(1,675)	1:2110:A:LYS:HE2	1:2110:A:LYS:HB3	9	0.11
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG22	9	0.11
(1,478)	1:2074:A:LYS:HE2	1:2068:A:THR:HA	4	0.11
(1,274)	1:2074:A:LYS:HE3	1:2074:A:LYS:HG3	5	0.11
(1,123)	1:2118:A:PRO:HG3	1:2118:A:PRO:HD2	10	0.11
(1,70)	1:2101:A:VAL:HG12	1:2101:A:VAL:HB	2	0.11
(1,70)	1:2101:A:VAL:HG11	1:2101:A:VAL:HB	9	0.11
(1,70)	1:2101:A:VAL:HG12	1:2101:A:VAL:HB	10	0.11
(1,70)	1:2101:A:VAL:HG12	1:2101:A:VAL:HB	12	0.11
(1,70)	1:2101:A:VAL:HG13	1:2101:A:VAL:HB	15	0.11
(1,57)	1:2064:A:THR:HG21	1:2064:A:THR:HA	2	0.11
(1,43)	1:2059:A:VAL:HG21	1:2059:A:VAL:HB	8	0.11
(1,42)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	12	0.11
(1,30)	1:2093:A:THR:HG22	1:2093:A:THR:HA	9	0.11
(3,28)	1:2112:A:VAL:H	1:2066:A:GLU:O	7	0.1
(3,16)	1:2095:A:THR:H	1:2083:A:THR:O	7	0.1
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	3	0.1
(3,4)	1:2073:A:SER:H	1:2069:A:PHE:O	11	0.1
(1,1746)	1:2119:A:VAL:H	1:2110:A:LYS:HE2	2	0.1
(1,1688)	1:2110:A:LYS:H	1:2111:A:ARG:HG2	8	0.1
(1,1656)	1:2061:A:ILE:HG23	1:2056:A:ASP:HB3	7	0.1
(1,1608)	1:2119:A:VAL:HG11	1:2113:A:ASP:HB2	12	0.1
(1,1585)	1:2106:A:PRO:HG3	1:2105:A:ASP:HB3	1	0.1
(1,1567)	1:2098:A:LYS:HE2	1:2098:A:LYS:HG3	7	0.1
(1,1281)	1:2069:A:PHE:HZ	1:2086:A:ILE:HA	3	0.1
(1,1223)	1:2107:A:VAL:HG13	1:2069:A:PHE:HE2	7	0.1
(1,858)	1:2072:A:GLY:H	1:2068:A:THR:HG22	2	0.1
(1,806)	1:2064:A:THR:H	1:2064:A:THR:HG23	9	0.1
(1,655)	1:2085:A:THR:HG23	1:2083:A:THR:HG23	2	0.1
(1,549)	1:2076:A:LYS:HE3	1:2077:A:THR:HA	8	0.1
(1,482)	1:2079:A:PRO:HG3	1:2077:A:THR:HG23	15	0.1
(1,390)	1:2070:A:GLU:HA	1:2110:A:LYS:HB2	3	0.1
(1,371)	1:2107:A:VAL:HG13	1:2107:A:VAL:HA	8	0.1
(1,357)	1:2129:A:LYS:HA	1:2130:A:VAL:HB	2	0.1
(1,311)	1:2088:A:PRO:HD2	1:2087:A:VAL:HA	15	0.1
(1,220)	1:2063:A:GLU:HG2	1:2061:A:ILE:HG23	1	0.1
(1,96)	1:2121:A:ALA:HB3	1:2109:A:VAL:HB	8	0.1
(1,70)	1:2101:A:VAL:HG11	1:2101:A:VAL:HB	13	0.1

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<b>Key</b>	<b>Atom-1</b>	<b>Atom-2</b>	<b>Model ID</b>	<b>Violation (Å)</b>
(1,59)	1:2108:A:THR:HG23	1:2108:A:THR:HB	2	0.1
(1,59)	1:2108:A:THR:HG21	1:2108:A:THR:HB	7	0.1
(1,59)	1:2108:A:THR:HG23	1:2108:A:THR:HB	10	0.1
(1,59)	1:2108:A:THR:HG21	1:2108:A:THR:HB	12	0.1
(1,59)	1:2108:A:THR:HG22	1:2108:A:THR:HB	15	0.1
(1,57)	1:2064:A:THR:HG23	1:2064:A:THR:HA	14	0.1

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

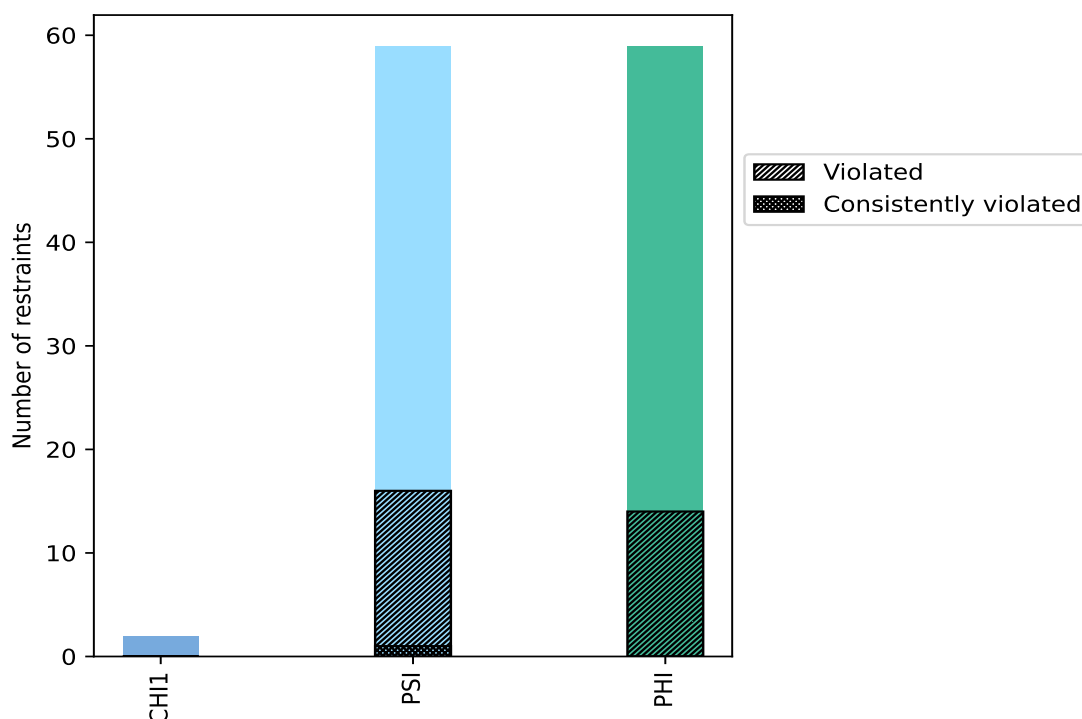
### 10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% <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>
CHI1	2	1.7	0	0.0	0.0	0	0.0	0.0
PSI	59	49.2	16	27.1	13.3	1	1.7	0.8
PHI	59	49.2	14	23.7	11.7	0	0.0	0.0
Total	120	100.0	30	25.0	25.0	1	0.8	0.8

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

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



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

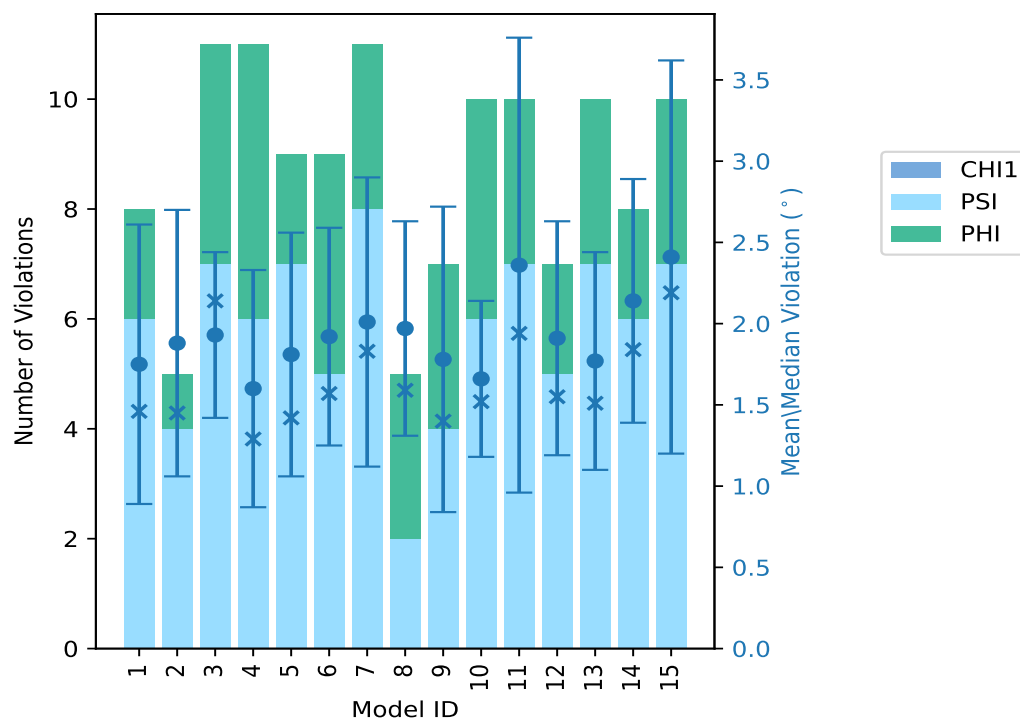


## 10.2 Dihedral-angle violation statistics for each model [i](#)

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	CHI1	PSI	PHI	Total				
1	0	6	2	8	1.75	3.68	0.86	1.46
2	0	4	1	5	1.88	3.16	0.82	1.45
3	0	7	4	11	1.93	2.55	0.51	2.14
4	0	6	5	11	1.6	3.64	0.73	1.29
5	0	7	2	9	1.81	3.07	0.75	1.42
6	0	5	4	9	1.92	2.95	0.67	1.57
7	0	8	3	11	2.01	4.01	0.89	1.83
8	0	2	3	5	1.97	2.8	0.66	1.59
9	0	4	3	7	1.78	3.85	0.94	1.4
10	0	6	4	10	1.66	2.9	0.48	1.52
11	0	7	3	10	2.36	5.95	1.4	1.94
12	0	5	2	7	1.91	3.25	0.72	1.55
13	0	7	3	10	1.77	3.2	0.67	1.51
14	0	6	2	8	2.14	3.52	0.75	1.84
15	0	7	3	10	2.41	5.41	1.21	2.19

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



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

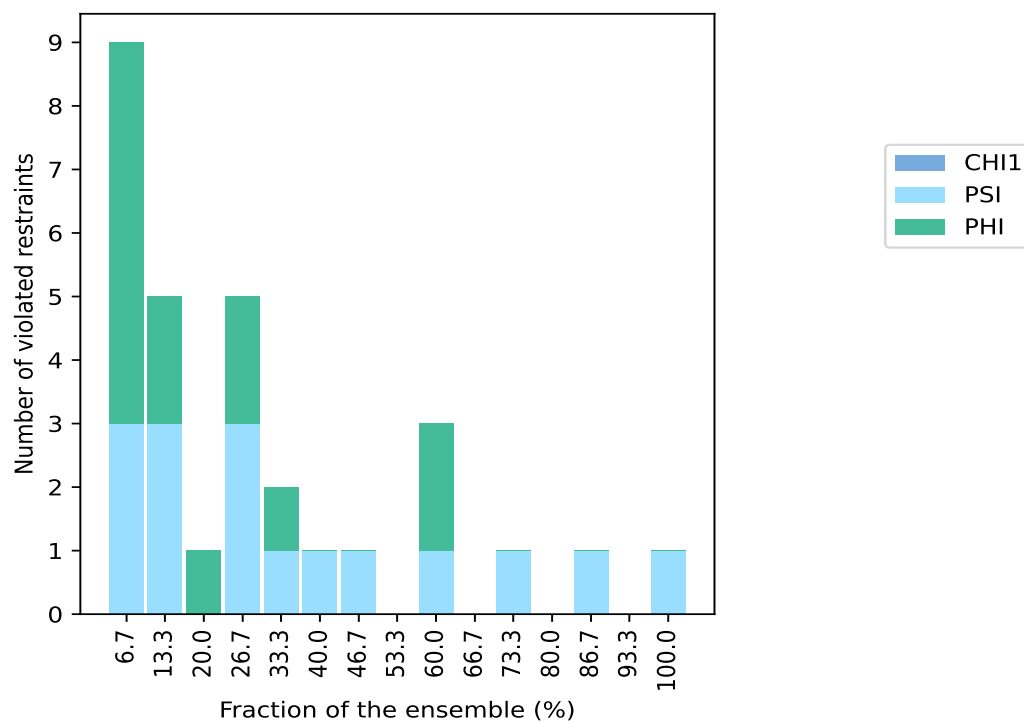
### 10.3 Dihedral-angle violation statistics for the ensemble

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

Number of violated restraints				Fraction of the ensemble	
CHI1	PSI	PHI	Total	Count <sup>1</sup>	%
0	3	6	9	1	6.7
0	3	2	5	2	13.3
0	0	1	1	3	20.0
0	3	2	5	4	26.7
0	1	1	2	5	33.3
0	1	0	1	6	40.0
0	1	0	1	7	46.7
0	0	0	0	8	53.3
0	1	2	3	9	60.0
0	0	0	0	10	66.7
0	1	0	1	11	73.3
0	0	0	0	12	80.0
0	1	0	1	13	86.7
0	0	0	0	14	93.3
0	1	0	1	15	100.0

<sup>1</sup> Number of models with violations

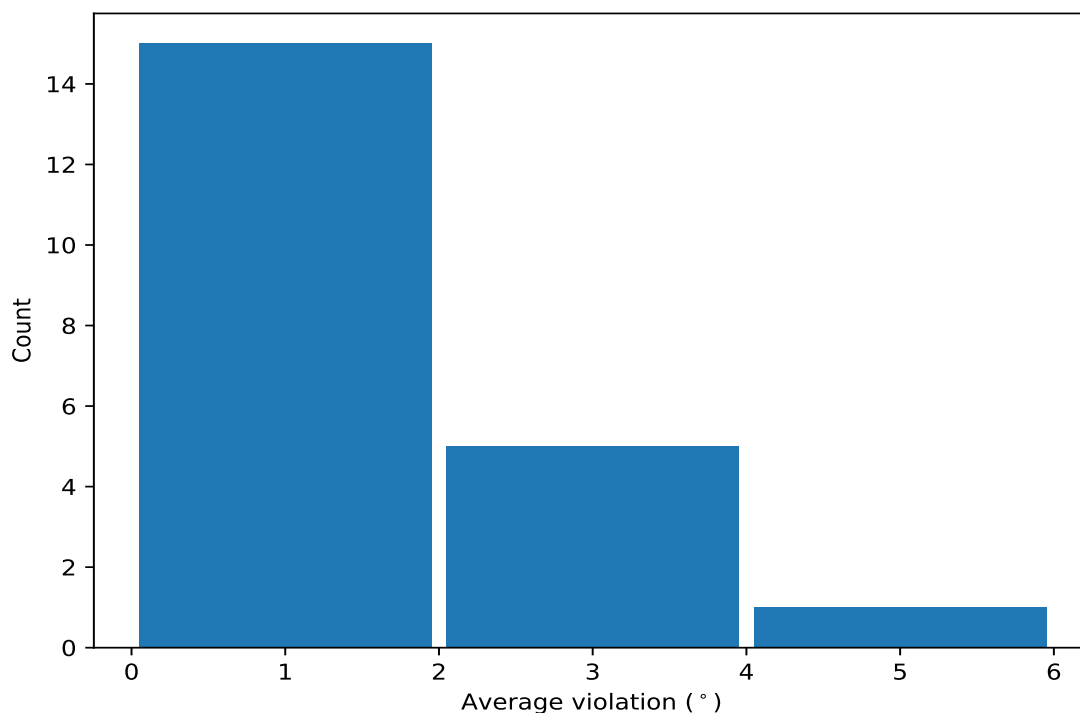
### 10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

### 10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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



#### 10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

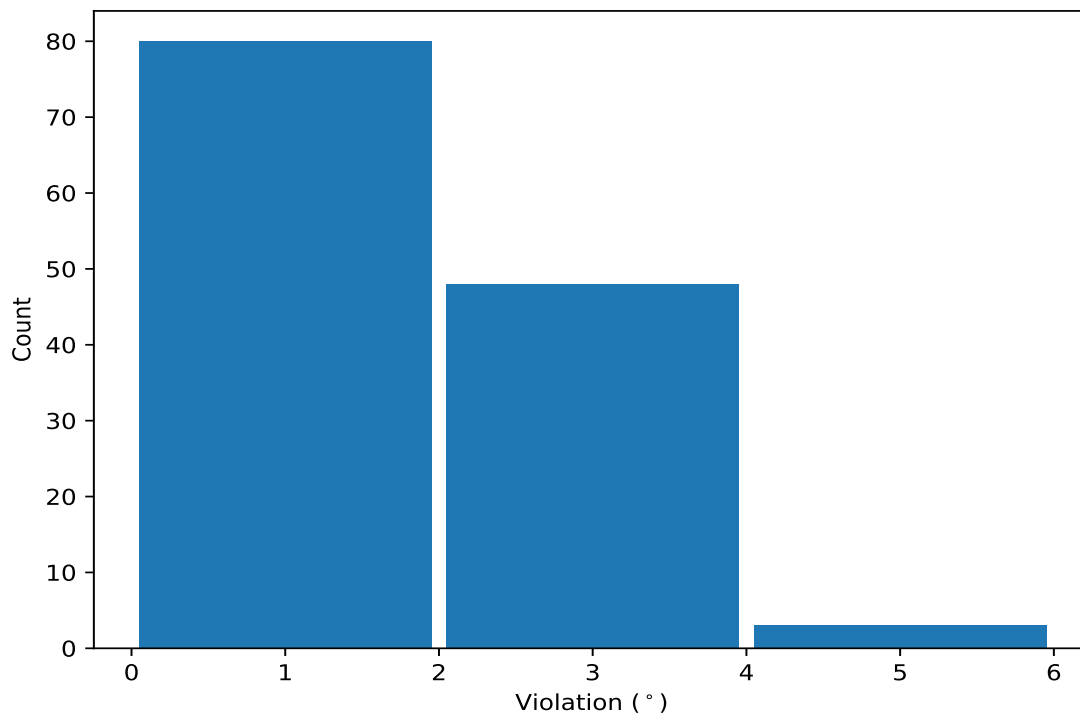
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Medi
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	15	2.82	0.61	2.8
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	13	1.81	0.77	1.55
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	11	2.19	0.88	1.9
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	9	2.44	0.48	2.52
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	9	2.36	1.18	2.01
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	9	1.95	0.6	1.6
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	7	1.48	0.45	1.3
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	6	1.47	0.27	1.58
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	5	1.38	0.4	1.31
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	5	1.23	0.21	1.24
(1,108)	1:2122:A:THR:N	1:2122:A:THR:CA	1:2122:A:THR:C	1:2123:A:TYR:N	4	1.7	0.49	1.71
(1,74)	1:2101:A:VAL:N	1:2101:A:VAL:CA	1:2101:A:VAL:C	1:2102:A:GLY:N	4	1.42	0.21	1.36
(1,102)	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	1:2120:A:THR:N	4	1.36	0.21	1.32
(1,87)	1:2111:A:ARG:C	1:2112:A:VAL:N	1:2112:A:VAL:CA	1:2112:A:VAL:C	4	1.28	0.2	1.27
(1,101)	1:2118:A:PRO:C	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	4	1.18	0.06	1.17
(1,15)	1:2066:A:GLU:C	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	3	1.9	0.59	2.29
(1,2)	1:2056:A:ASP:N	1:2056:A:ASP:CA	1:2056:A:ASP:C	1:2057:A:PRO:N	2	4.98	0.97	4.98
(1,8)	1:2059:A:VAL:N	1:2059:A:VAL:CA	1:2059:A:VAL:C	1:2060:A:PRO:N	2	2.03	0.45	2.03
(1,69)	1:2097:A:ASP:C	1:2098:A:LYS:N	1:2098:A:LYS:CA	1:2098:A:LYS:C	2	1.96	0.09	1.96
(1,114)	1:2060:A:PRO:N	1:2060:A:PRO:CA	1:2060:A:PRO:C	1:2061:A:ILE:N	2	1.68	0.55	1.68
(1,77)	1:2106:A:PRO:C	1:2107:A:VAL:N	1:2107:A:VAL:CA	1:2107:A:VAL:C	2	1.38	0.12	1.38

<sup>1</sup> Number of violated models, <sup>2</sup>Standard deviation, All angle values are in degree (°)

## 10.5 All violated dihedral-angle restraints [i](#)

### 10.5.1 Histogram : Distribution of violations [i](#)

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



### 10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,2)	1:2056:A:ASP:N	1:2056:A:ASP:CA	1:2056:A:ASP:C	1:2057:A:PRO:N	11	5.95
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	15	5.41
(1,2)	1:2056:A:ASP:N	1:2056:A:ASP:CA	1:2056:A:ASP:C	1:2057:A:PRO:N	7	4.01
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	9	3.85
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	1	3.68
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	4	3.64
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	11	3.59
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	14	3.52
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	15	3.47
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	12	3.25
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	13	3.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	2	3.16
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	5	3.07
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	7	3.04
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	5	3.0
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	14	2.96
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	6	2.95
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	10	2.9
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	8	2.8
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	15	2.79
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	6	2.79
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	12	2.74
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	11	2.73
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	8	2.73
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	14	2.63
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	7	2.56
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	3	2.55
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	13	2.55
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	2	2.52
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	3	2.51
(1,8)	1:2059:A:VAL:N	1:2059:A:VAL:CA	1:2059:A:VAL:C	1:2060:A:PRO:N	7	2.48
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	1	2.46
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	6	2.44
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	15	2.43
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	6	2.37
(1,15)	1:2066:A:GLU:C	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	9	2.34
(1,15)	1:2066:A:GLU:C	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	3	2.29
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	3	2.27
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	5	2.27
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	15	2.26
(1,108)	1:2122:A:THR:N	1:2122:A:THR:CA	1:2122:A:THR:C	1:2123:A:TYR:N	11	2.24
(1,114)	1:2060:A:PRO:N	1:2060:A:PRO:CA	1:2060:A:PRO:C	1:2061:A:ILE:N	3	2.23
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	13	2.23
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	4	2.14
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	3	2.14
(1,108)	1:2122:A:THR:N	1:2122:A:THR:CA	1:2122:A:THR:C	1:2123:A:TYR:N	15	2.13
(1,69)	1:2097:A:ASP:C	1:2098:A:LYS:N	1:2098:A:LYS:CA	1:2098:A:LYS:C	7	2.05
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	10	2.03
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	11	2.01
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	13	2.01
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	3	2.01
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	4	1.94
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	14	1.92
(1,69)	1:2097:A:ASP:C	1:2098:A:LYS:N	1:2098:A:LYS:CA	1:2098:A:LYS:C	11	1.86
(1,14)	1:2065:A:VAL:N	1:2065:A:VAL:CA	1:2065:A:VAL:C	1:2066:A:GLU:N	7	1.83
(1,105)	1:2120:A:THR:C	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	12	1.78
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	5	1.78
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	10	1.78
(1,67)	1:2095:A:THR:C	1:2096:A:PRO:N	1:2096:A:PRO:CA	1:2096:A:PRO:C	11	1.77
(1,74)	1:2101:A:VAL:N	1:2101:A:VAL:CA	1:2101:A:VAL:C	1:2102:A:GLY:N	14	1.76
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	1	1.75
(1,102)	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	1:2120:A:THR:N	10	1.68

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	3	1.68
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	15	1.65
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	1	1.6
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	8	1.59
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	15	1.59
(1,8)	1:2059:A:VAL:N	1:2059:A:VAL:CA	1:2059:A:VAL:C	1:2060:A:PRO:N	14	1.58
(1,87)	1:2111:A:ARG:C	1:2112:A:VAL:N	1:2112:A:VAL:CA	1:2112:A:VAL:C	9	1.57
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	6	1.57
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	4	1.56
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	12	1.55
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	10	1.55
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	14	1.53
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	13	1.51
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	13	1.51
(1,77)	1:2106:A:PRO:C	1:2107:A:VAL:N	1:2107:A:VAL:CA	1:2107:A:VAL:C	10	1.5
(1,61)	1:2092:A:VAL:C	1:2093:A:THR:N	1:2093:A:THR:CA	1:2093:A:THR:C	8	1.5
(1,75)	1:2103:A:LYS:C	1:2104:A:PRO:N	1:2104:A:PRO:CA	1:2104:A:PRO:C	4	1.48
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	12	1.47
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	2	1.45
(1,106)	1:2121:A:ALA:N	1:2121:A:ALA:CA	1:2121:A:ALA:C	1:2122:A:THR:N	5	1.42
(1,74)	1:2101:A:VAL:N	1:2101:A:VAL:CA	1:2101:A:VAL:C	1:2102:A:GLY:N	12	1.41
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	9	1.4
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	5	1.38
(1,102)	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	1:2120:A:THR:N	13	1.37
(1,87)	1:2111:A:ARG:C	1:2112:A:VAL:N	1:2112:A:VAL:CA	1:2112:A:VAL:C	6	1.37
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	10	1.36
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	7	1.34
(1,5)	1:2057:A:PRO:C	1:2058:A:LEU:N	1:2058:A:LEU:CA	1:2058:A:LEU:C	7	1.32
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	3	1.31
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	1	1.31
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	6	1.3
(1,74)	1:2101:A:VAL:N	1:2101:A:VAL:CA	1:2101:A:VAL:C	1:2102:A:GLY:N	15	1.3
(1,66)	1:2095:A:THR:N	1:2095:A:THR:CA	1:2095:A:THR:C	1:2096:A:PRO:N	10	1.3
(1,108)	1:2122:A:THR:N	1:2122:A:THR:CA	1:2122:A:THR:C	1:2123:A:TYR:N	4	1.29
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	7	1.28
(1,102)	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	1:2120:A:THR:N	11	1.27
(1,71)	1:2098:A:LYS:C	1:2099:A:GLN:N	1:2099:A:GLN:CA	1:2099:A:GLN:C	10	1.27
(1,101)	1:2118:A:PRO:C	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	6	1.26
(1,77)	1:2106:A:PRO:C	1:2107:A:VAL:N	1:2107:A:VAL:CA	1:2107:A:VAL:C	14	1.26
(1,79)	1:2107:A:VAL:C	1:2108:A:THR:N	1:2108:A:THR:CA	1:2108:A:THR:C	8	1.25
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	6	1.25
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	13	1.24
(1,74)	1:2101:A:VAL:N	1:2101:A:VAL:CA	1:2101:A:VAL:C	1:2102:A:GLY:N	5	1.22
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	10	1.22
(1,101)	1:2118:A:PRO:C	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	4	1.19
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	3	1.18
(1,101)	1:2118:A:PRO:C	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	7	1.16
(1,87)	1:2111:A:ARG:C	1:2112:A:VAL:N	1:2112:A:VAL:CA	1:2112:A:VAL:C	12	1.16
(1,114)	1:2060:A:PRO:N	1:2060:A:PRO:CA	1:2060:A:PRO:C	1:2061:A:ILE:N	2	1.14
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	11	1.14
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	4	1.14

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,108)	1:2122:A:THR:N	1:2122:A:THR:CA	1:2122:A:THR:C	1:2123:A:TYR:N	5	1.13
(1,19)	1:2068:A:THR:C	1:2069:A:PHE:N	1:2069:A:PHE:CA	1:2069:A:PHE:C	9	1.13
(1,102)	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	1:2120:A:THR:N	4	1.12
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	2	1.12
(1,101)	1:2118:A:PRO:C	1:2119:A:VAL:N	1:2119:A:VAL:CA	1:2119:A:VAL:C	15	1.1
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	9	1.1
(1,64)	1:2094:A:PHE:N	1:2094:A:PHE:CA	1:2094:A:PHE:C	1:2095:A:THR:N	13	1.09
(1,16)	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	1:2068:A:THR:N	3	1.09
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	7	1.08
(1,62)	1:2093:A:THR:N	1:2093:A:THR:CA	1:2093:A:THR:C	1:2094:A:PHE:N	1	1.08
(1,90)	1:2113:A:ASP:N	1:2113:A:ASP:CA	1:2113:A:ASP:C	1:2114:A:LYS:N	9	1.07
(1,84)	1:2110:A:LYS:N	1:2110:A:LYS:CA	1:2110:A:LYS:C	1:2111:A:ARG:N	1	1.06
(1,15)	1:2066:A:GLU:C	1:2067:A:PRO:N	1:2067:A:PRO:CA	1:2067:A:PRO:C	4	1.06
(1,87)	1:2111:A:ARG:C	1:2112:A:VAL:N	1:2112:A:VAL:CA	1:2112:A:VAL:C	11	1.04
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	1	1.03
(1,38)	1:2079:A:PRO:N	1:2079:A:PRO:CA	1:2079:A:PRO:C	1:2080:A:GLY:N	13	1.03
(1,81)	1:2108:A:THR:C	1:2109:A:VAL:N	1:2109:A:VAL:CA	1:2109:A:VAL:C	4	1.01
(1,100)	1:2118:A:PRO:N	1:2118:A:PRO:CA	1:2118:A:PRO:C	1:2119:A:VAL:N	5	1.0