



Full wwPDB NMR Structure Validation Report ⓘ

Mar 24, 2026 – 07:07 PM UTC

PDB ID : 6GT7 / pdb_00006gt7
BMRB ID : 34287
Title : NMR structure of the free helix bundle domain from the functional pRN1 primase
Authors : Boudet, J.; Lipps, G.; Allain, F.
Deposited on : 2018-06-15

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

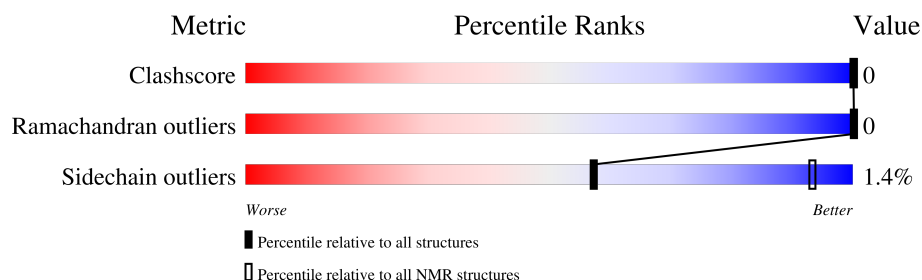
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 78%.

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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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 ≥ 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	115	81% . 18%

2 Ensemble composition and analysis

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

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:262-A:285, A:295-A:342, A:349-A:370 (94)	0.30	1

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

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

The models can be grouped into 3 clusters and 4 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 1940 atoms, of which 990 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called functional pRN1 primase.

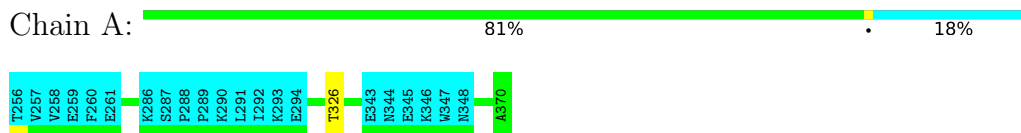
Mol	Chain	Residues	Atoms						Trace
1	A	115	Total	C	H	N	O	S	0
			1940	611	990	160	176	3	

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: functional pRN1 primase

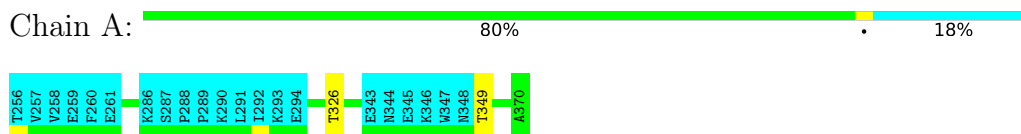


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

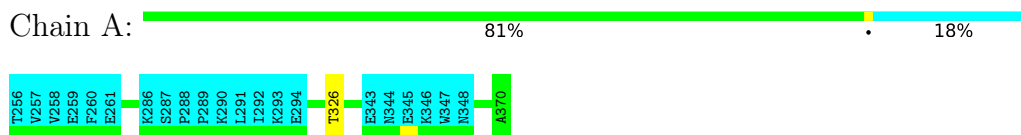
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: functional pRN1 primase



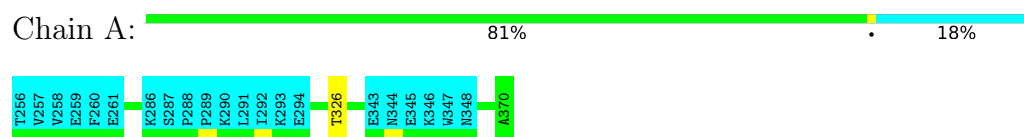
4.2.2 Score per residue for model 2

- Molecule 1: functional pRN1 primase



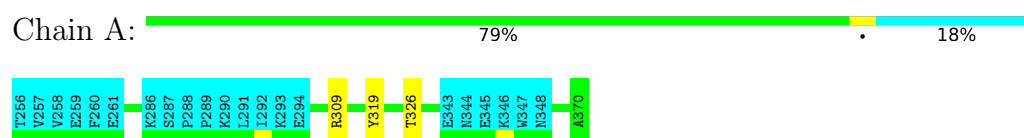
4.2.3 Score per residue for model 3

- Molecule 1: functional pRN1 primase



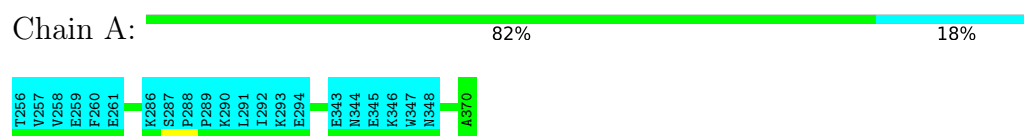
4.2.4 Score per residue for model 4

- Molecule 1: functional pRN1 primase



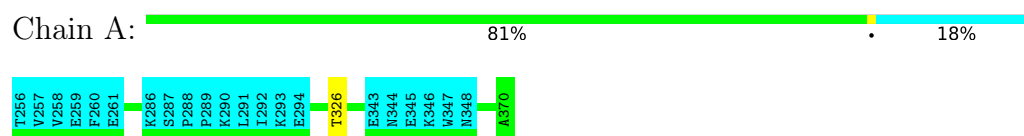
4.2.5 Score per residue for model 5

- Molecule 1: functional pRN1 primase



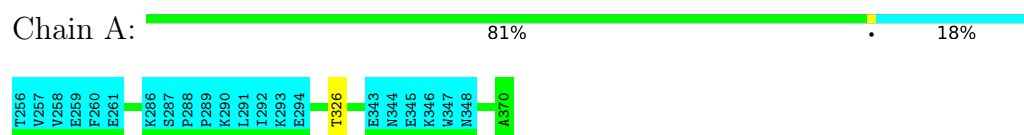
4.2.6 Score per residue for model 6

- Molecule 1: functional pRN1 primase



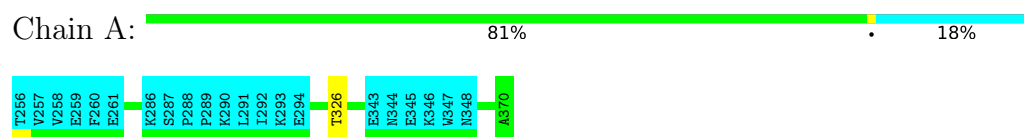
4.2.7 Score per residue for model 7

- Molecule 1: functional pRN1 primase



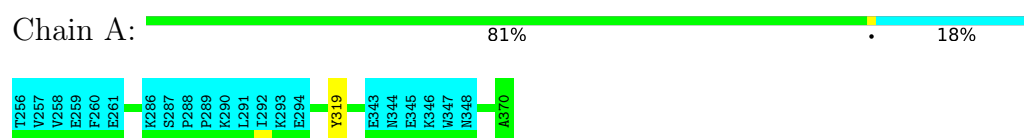
4.2.8 Score per residue for model 8

- Molecule 1: functional pRN1 primase



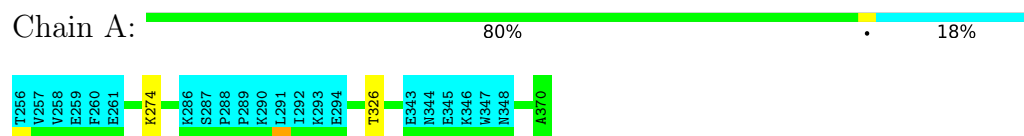
4.2.9 Score per residue for model 9

- Molecule 1: functional pRN1 primase



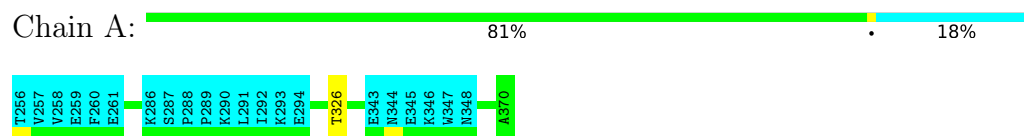
4.2.10 Score per residue for model 10

- Molecule 1: functional pRN1 primase



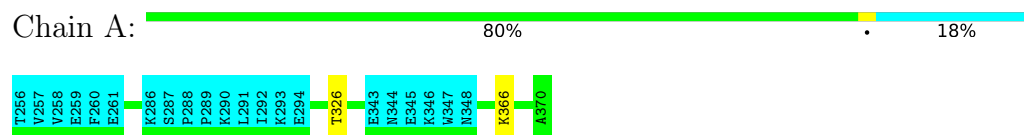
4.2.11 Score per residue for model 11

- Molecule 1: functional pRN1 primase



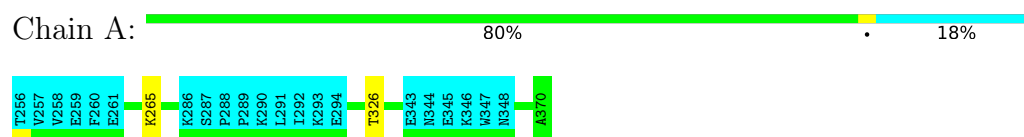
4.2.12 Score per residue for model 12

- Molecule 1: functional pRN1 primase



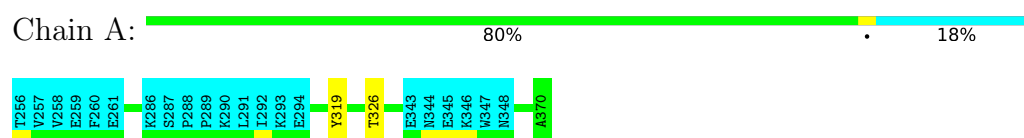
4.2.13 Score per residue for model 13

- Molecule 1: functional pRN1 primase



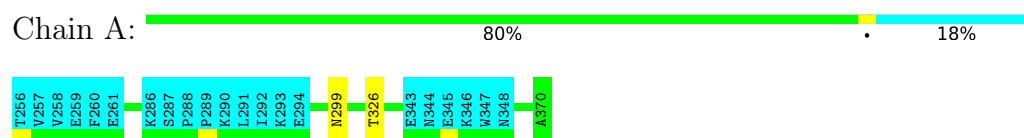
4.2.14 Score per residue for model 14

- Molecule 1: functional pRN1 primase



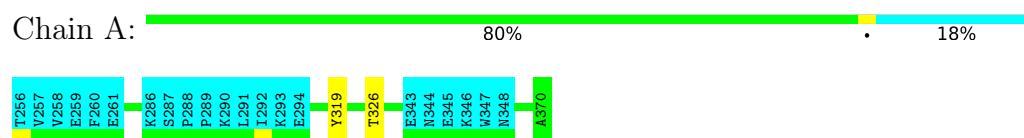
4.2.15 Score per residue for model 15

- Molecule 1: functional pRN1 primase



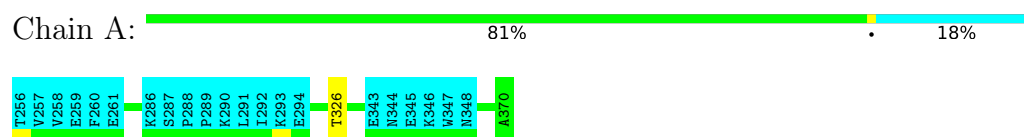
4.2.16 Score per residue for model 16

- Molecule 1: functional pRN1 primase



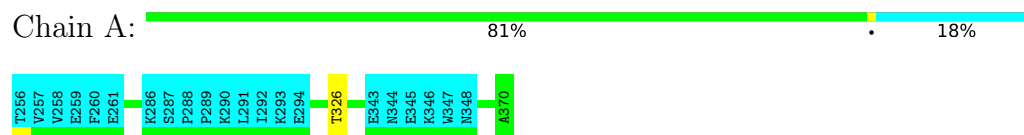
4.2.17 Score per residue for model 17

- Molecule 1: functional pRN1 primase



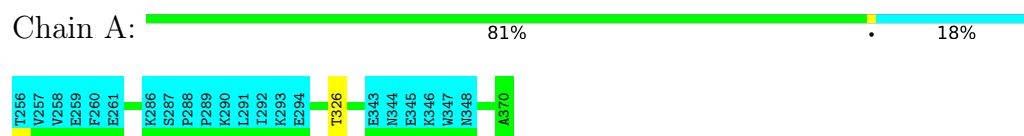
4.2.18 Score per residue for model 18

- Molecule 1: functional pRN1 primase



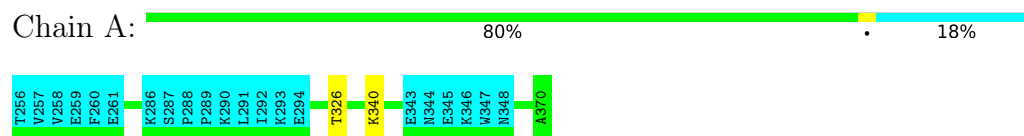
4.2.19 Score per residue for model 19

- Molecule 1: functional pRN1 primase



4.2.20 Score per residue for model 20

- Molecule 1: functional pRN1 primase



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing with the SANDER module of AMBER12*.

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *20 structures for lowest energy*.

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

Software name	Classification	Version
Amber	refinement	
CYANA	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1165
Number of shifts mapped to atoms	1165
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	78%

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	771	809	808	0±0
All	All	15420	16180	16160	-

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is -.

There are no clashes.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	93/115 (81%)	90±1 (97±1%)	3±1 (3±1%)	0±0 (0±0%)	100	100
All	All	1860/2300 (81%)	1809 (97%)	51 (3%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	87/108 (81%)	86±1 (99±1%)	1±1 (1±1%)	57	93
All	All	1740/2160 (81%)	1715 (99%)	25 (1%)	57	93

All 8 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	326	THR	18
1	A	349	THR	1
1	A	309	ARG	1
1	A	274	LYS	1
1	A	366	LYS	1
1	A	265	LYS	1
1	A	299	ASN	1
1	A	340	LYS	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 78% for the well-defined parts and 70% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: `starch_output`

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	1165
Number of shifts mapped to atoms	1165
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
$^{13}\text{C}_\alpha$	97	-0.48 ± 0.17	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	94	0.31 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	99	1.12 ± 0.41	Should be applied

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 78%, i.e. 1062 atoms were assigned a chemical shift out of a possible 1364. 0 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	340/467 (73%)	163/188 (87%)	87/188 (46%)	90/91 (99%)
Sidechain	650/812 (80%)	437/525 (83%)	213/255 (84%)	0/32 (0%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	72/85 (85%)	37/41 (90%)	33/39 (85%)	2/5 (40%)
Overall	1062/1364 (78%)	637/754 (84%)	333/482 (69%)	92/128 (72%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 70%, i.e. 1165 atoms were assigned a chemical shift out of a possible 1667. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	374/568 (66%)	178/228 (78%)	97/230 (42%)	99/110 (90%)
Sidechain	707/992 (71%)	472/639 (74%)	235/315 (75%)	0/38 (0%)
Aromatic	84/107 (79%)	43/52 (83%)	38/49 (78%)	3/6 (50%)
Overall	1165/1667 (70%)	693/919 (75%)	370/594 (62%)	102/154 (66%)

7.1.4 Statistically unusual chemical shifts [i](#)

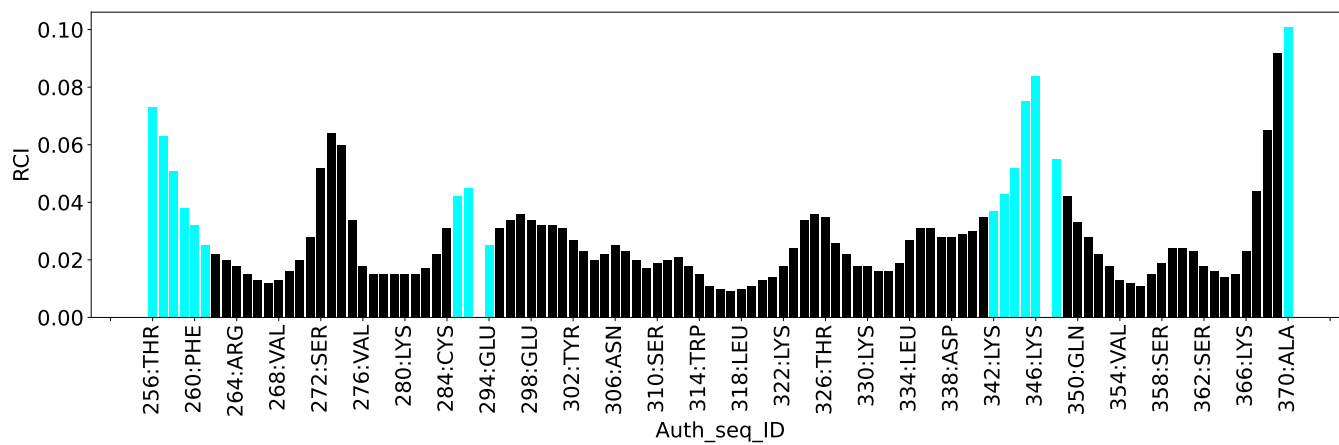
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	365	LYS	HB2	0.57	0.58 – 2.97	-5.0

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 [i](#)

8.1 Conformationally restricting restraints [i](#)

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	2230
Intra-residue ($ i-j =0$)	444
Sequential ($ i-j =1$)	515
Medium range ($ i-j >1$ and $ i-j <5$)	614
Long range ($ i-j \geq 5$)	495
Inter-chain	0
Hydrogen bond restraints	162
Disulfide bond restraints	0
Total dihedral-angle restraints	174
Number of unmapped restraints	0
Number of restraints per residue	20.9
Number of long range restraints per residue ¹	4.3

¹Long 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 [i](#)

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 [i](#)

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)	21.6	0.2
0.2-0.5 (Medium)	8.6	0.5
>0.5 (Large)	49.6	1.15

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

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

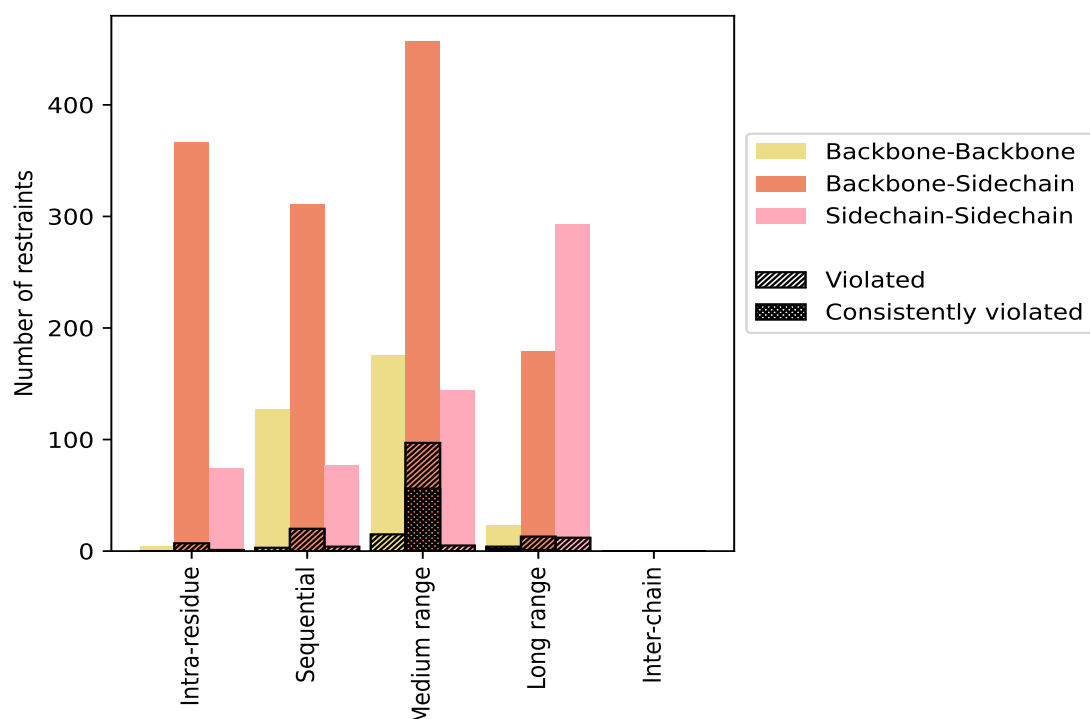
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	444	19.9	8	1.8	0.4	0	0.0	0.0
Backbone-Backbone	4	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	366	16.4	7	1.9	0.3	0	0.0	0.0
Sidechain-Sidechain	74	3.3	1	1.4	0.0	0	0.0	0.0
Sequential ($i-j =1$)	515	23.1	27	5.2	1.2	0	0.0	0.0
Backbone-Backbone	127	5.7	3	2.4	0.1	0	0.0	0.0
Backbone-Sidechain	311	13.9	20	6.4	0.9	0	0.0	0.0
Sidechain-Sidechain	77	3.5	4	5.2	0.2	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	614	27.5	40	6.5	1.8	0	0.0	0.0
Backbone-Backbone	175	7.8	15	8.6	0.7	0	0.0	0.0
Backbone-Sidechain	295	13.2	20	6.8	0.9	0	0.0	0.0
Sidechain-Sidechain	144	6.5	5	3.5	0.2	0	0.0	0.0
Long range ($i-j \geq 5$)	495	22.2	29	5.9	1.3	3	0.6	0.1
Backbone-Backbone	23	1.0	4	17.4	0.2	2	8.7	0.1
Backbone-Sidechain	179	8.0	13	7.3	0.6	1	0.6	0.0
Sidechain-Sidechain	293	13.1	12	4.1	0.5	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	162	7.3	77	47.5	3.5	56	34.6	2.5
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2230	100.0	181	8.1	8.1	59	2.6	2.6
Backbone-Backbone	329	14.8	22	6.7	1.0	2	0.6	0.1
Backbone-Sidechain	1313	58.9	137	10.4	6.1	57	4.3	2.6
Sidechain-Sidechain	588	26.4	22	3.7	1.0	0	0.0	0.0

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ 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 disulfied 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 ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	3	4	69	5	0	81	0.58	1.08	0.34	0.65
2	0	6	69	5	0	80	0.6	1.13	0.34	0.66
3	3	1	69	5	0	78	0.6	1.06	0.33	0.66
4	1	8	68	8	0	85	0.56	1.08	0.35	0.64
5	0	5	67	7	0	79	0.6	1.08	0.34	0.66
6	1	9	67	5	0	82	0.58	1.06	0.34	0.66
7	2	10	70	8	0	90	0.53	1.09	0.35	0.56
8	2	5	72	10	0	89	0.54	1.07	0.35	0.53
9	1	5	68	6	0	80	0.6	1.15	0.34	0.63
10	1	2	77	6	0	86	0.56	1.08	0.35	0.58

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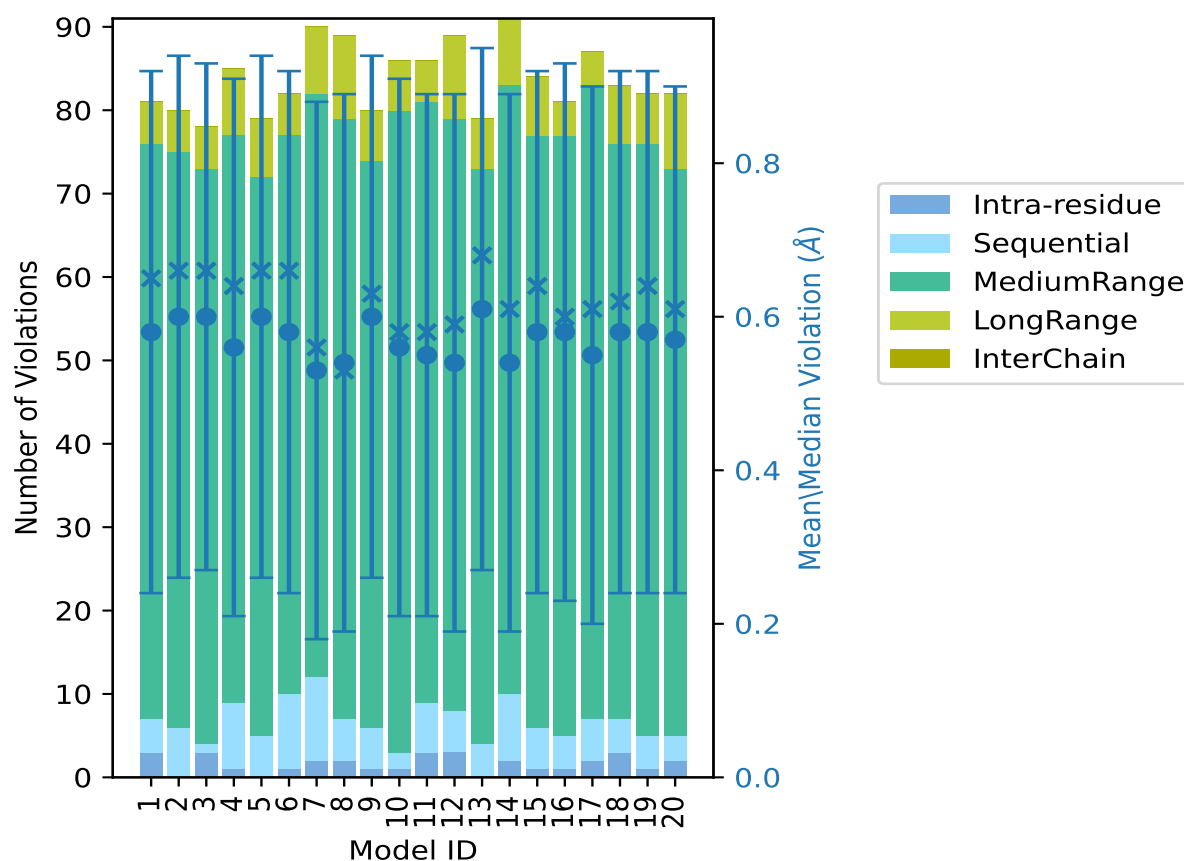
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	3	6	72	5	0	86	0.55	1.09	0.34	0.58
12	3	5	71	10	0	89	0.54	1.04	0.35	0.59
13	0	4	69	6	0	79	0.61	1.07	0.34	0.68
14	2	8	73	8	0	91	0.54	1.08	0.35	0.61
15	1	5	71	7	0	84	0.58	1.11	0.34	0.64
16	1	4	72	4	0	81	0.58	1.12	0.35	0.6
17	2	5	76	4	0	87	0.55	1.1	0.35	0.61
18	3	4	69	7	0	83	0.58	1.13	0.34	0.62
19	1	4	71	6	0	82	0.58	1.07	0.34	0.64
20	2	3	68	9	0	82	0.57	1.07	0.33	0.61

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

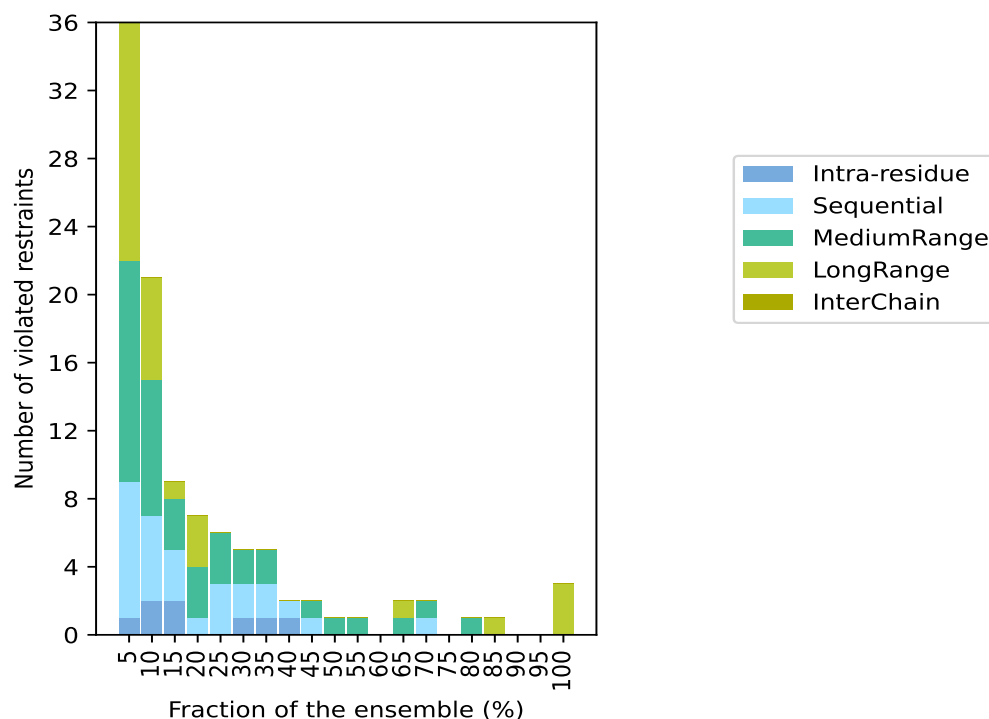
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1964(IR:436, SQ:488, MR:574, LR:466, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	8	13	14	0	36	1	5.0
2	5	8	6	0	21	2	10.0
2	3	3	1	0	9	3	15.0
0	1	3	3	0	7	4	20.0
0	3	3	0	0	6	5	25.0
1	2	2	0	0	5	6	30.0
1	2	2	0	0	5	7	35.0
1	1	0	0	0	2	8	40.0
0	1	1	0	0	2	9	45.0
0	0	1	0	0	1	10	50.0
0	0	1	0	0	1	11	55.0
0	0	0	0	0	0	12	60.0
0	0	1	1	0	2	13	65.0
0	1	1	0	0	2	14	70.0
0	0	0	0	0	0	15	75.0
0	0	1	0	0	1	16	80.0
0	0	0	1	0	1	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	0	0	3	0	3	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

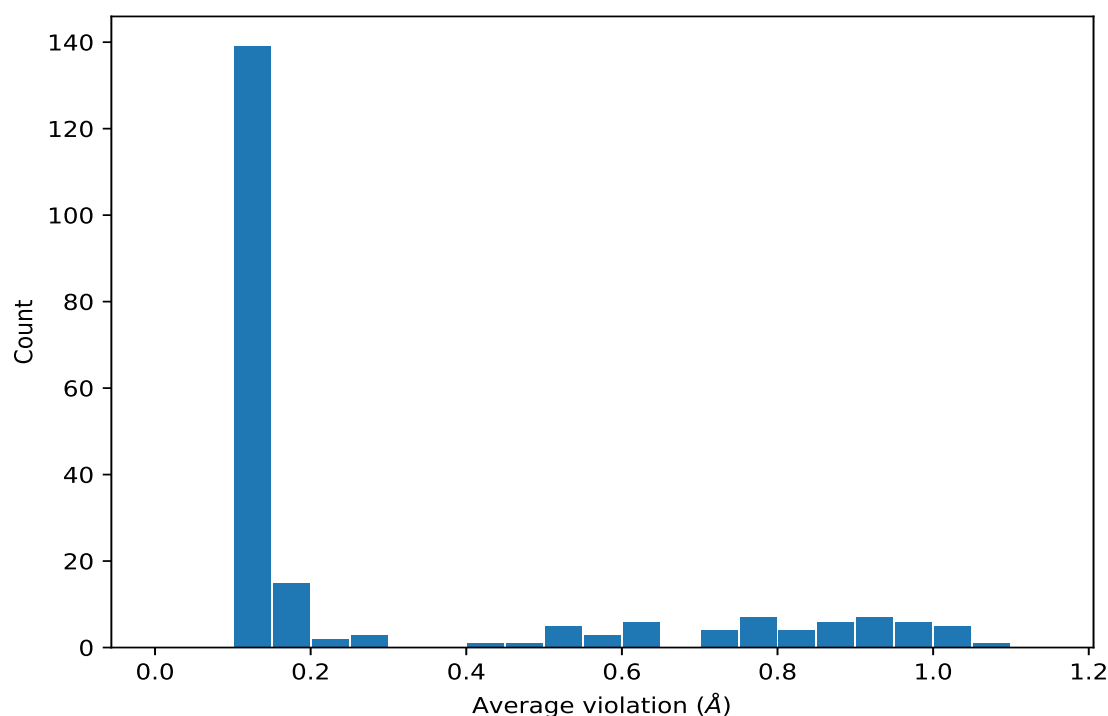
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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 ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	20	1.06	0.02	1.06
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	20	1.04	0.03	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	20	1.03	0.02	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	20	1.03	0.02	1.03
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	20	1.02	0.03	1.01
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	20	1.02	0.03	1.02
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	20	0.99	0.1	1.02
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	20	0.99	0.03	0.99
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	20	0.98	0.03	0.97
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	20	0.97	0.06	0.98
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	20	0.95	0.1	0.98
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	20	0.95	0.03	0.96
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	20	0.93	0.04	0.92
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	20	0.92	0.27	1.07
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	20	0.92	0.03	0.91
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	20	0.92	0.03	0.92

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	20	0.91	0.06	0.92
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	20	0.91	0.06	0.92
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	20	0.91	0.07	0.92
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	20	0.89	0.12	0.95
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	20	0.88	0.05	0.89
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	20	0.87	0.08	0.88
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	20	0.86	0.06	0.86
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	20	0.85	0.05	0.88
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	20	0.85	0.03	0.84
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	20	0.84	0.09	0.84
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	20	0.82	0.09	0.84
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	20	0.81	0.12	0.87
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	20	0.8	0.06	0.8
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	20	0.79	0.03	0.79
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	20	0.79	0.11	0.82
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	20	0.79	0.11	0.8
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	20	0.78	0.01	0.78
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	20	0.78	0.09	0.8
(2,42)	1:362:A:SER:N	1:358:A:SER:O	20	0.77	0.06	0.78
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	20	0.75	0.17	0.74
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	20	0.73	0.06	0.72
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	20	0.71	0.15	0.74
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	20	0.71	0.09	0.69
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	20	0.71	0.03	0.71
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	20	0.62	0.12	0.64
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	20	0.62	0.04	0.63
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	20	0.6	0.05	0.61
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	20	0.6	0.24	0.5
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	20	0.6	0.07	0.6
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	20	0.6	0.14	0.57
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	20	0.59	0.07	0.58
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	20	0.57	0.03	0.57
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	20	0.57	0.05	0.57
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	20	0.51	0.02	0.51
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	20	0.51	0.09	0.47
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	20	0.5	0.04	0.49
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	20	0.5	0.04	0.5
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	20	0.5	0.12	0.48
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	20	0.47	0.05	0.46
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	20	0.41	0.02	0.4
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	20	0.29	0.03	0.29
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	20	0.14	0.02	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	20	0.14	0.02	0.15
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	19	0.22	0.03	0.21
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	17	0.14	0.03	0.14
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	17	0.13	0.02	0.12
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	16	0.14	0.02	0.14
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	14	0.12	0.02	0.12
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	14	0.11	0.01	0.11
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	13	0.17	0.04	0.17
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	13	0.14	0.02	0.14
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	12	0.11	0.01	0.11
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	11	0.15	0.02	0.15
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	11	0.11	0.01	0.11
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	10	0.12	0.02	0.12
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	9	0.2	0.05	0.2
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	9	0.12	0.02	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	9	0.12	0.02	0.11
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	9	0.12	0.02	0.11
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	8	0.14	0.01	0.14
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	8	0.12	0.01	0.12
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	8	0.12	0.01	0.12
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	7	0.16	0.01	0.16
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	7	0.16	0.01	0.16
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	7	0.16	0.02	0.17
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	7	0.14	0.01	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	7	0.14	0.01	0.14
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	7	0.13	0.04	0.11
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	7	0.12	0.01	0.12
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	7	0.11	0.01	0.11
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	6	0.14	0.03	0.14
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	6	0.14	0.03	0.14
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	6	0.12	0.02	0.12
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	6	0.12	0.01	0.12
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	6	0.11	0.0	0.11
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	6	0.11	0.0	0.11
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	5	0.19	0.04	0.2
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	5	0.14	0.01	0.14
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	5	0.13	0.04	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	5	0.13	0.02	0.13
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	5	0.13	0.01	0.12
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	5	0.13	0.01	0.12
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	5	0.13	0.02	0.13
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	5	0.11	0.01	0.12
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	5	0.11	0.0	0.11
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	5	0.1	0.0	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	5	0.1	0.0	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	5	0.1	0.0	0.1
(1,495)	1:295:A:ILE:HA	1:297:A:CYS:H	4	0.14	0.02	0.15
(2,66)	1:260:A:PHE:H	1:256:A:THR:O	4	0.14	0.02	0.14
(1,525)	1:295:A:ILE:H	1:296:A:ILE:HB	4	0.14	0.02	0.14
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE1	4	0.13	0.01	0.14
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE2	4	0.13	0.01	0.14
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE1	4	0.13	0.01	0.14
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE2	4	0.13	0.01	0.14
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE1	4	0.13	0.01	0.14
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE2	4	0.13	0.01	0.14
(1,927)	1:296:A:ILE:HG12	1:334:A:LEU:HA	4	0.13	0.01	0.12
(1,927)	1:296:A:ILE:HG13	1:334:A:LEU:HA	4	0.13	0.01	0.12
(1,456)	1:295:A:ILE:HG21	1:300:A:LYS:H	4	0.12	0.01	0.12
(1,456)	1:295:A:ILE:HG22	1:300:A:LYS:H	4	0.12	0.01	0.12
(1,456)	1:295:A:ILE:HG23	1:300:A:LYS:H	4	0.12	0.01	0.12
(2,84)	1:282:A:GLU:H	1:278:A:LYS:O	4	0.12	0.01	0.12
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD2	4	0.11	0.0	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD3	4	0.11	0.0	0.11
(1,1315)	1:317:A:ILE:HG21	1:321:A:MET:HG2	4	0.11	0.0	0.11
(1,1315)	1:317:A:ILE:HG22	1:321:A:MET:HG2	4	0.11	0.0	0.11
(1,1315)	1:317:A:ILE:HG23	1:321:A:MET:HG2	4	0.11	0.0	0.11
(1,111)	1:283:A:ILE:HG21	1:286:A:LYS:H	3	0.16	0.04	0.16
(1,111)	1:283:A:ILE:HG22	1:286:A:LYS:H	3	0.16	0.04	0.16
(1,111)	1:283:A:ILE:HG23	1:286:A:LYS:H	3	0.16	0.04	0.16
(1,1012)	1:314:A:TRP:HH2	1:359:A:LYS:HG2	3	0.13	0.02	0.13
(1,1842)	1:334:A:LEU:HB2	1:335:A:LEU:H	3	0.12	0.0	0.12
(1,1842)	1:334:A:LEU:HB3	1:335:A:LEU:H	3	0.12	0.0	0.12
(2,62)	1:262:A:GLU:H	1:258:A:VAL:O	3	0.12	0.0	0.12
(1,1439)	1:353:A:PHE:HA	1:353:A:PHE:HD1	3	0.11	0.01	0.11
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA2	3	0.11	0.02	0.1
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA3	3	0.11	0.02	0.1
(1,408)	1:303:A:ALA:HA	1:307:A:ILE:H	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD11	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD12	3	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD13	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD21	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD22	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD23	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD11	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD12	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD13	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD21	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD22	3	0.11	0.0	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD23	3	0.11	0.0	0.11
(1,31)	1:311:A:ARG:H	1:311:A:ARG:HG2	3	0.11	0.01	0.11
(1,831)	1:257:A:VAL:HB	1:258:A:VAL:HA	3	0.11	0.0	0.11
(2,100)	1:321:A:MET:H	1:317:A:ILE:O	3	0.1	0.0	0.1
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE2	2	0.25	0.01	0.25
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE3	2	0.25	0.01	0.25
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE2	2	0.17	0.07	0.17
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE3	2	0.17	0.07	0.17
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE2	2	0.17	0.07	0.17
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE3	2	0.17	0.07	0.17
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE2	2	0.17	0.07	0.17
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE3	2	0.17	0.07	0.17
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB2	2	0.14	0.03	0.14
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB3	2	0.14	0.03	0.14
(1,571)	1:303:A:ALA:H	1:338:A:ASP:H	2	0.14	0.02	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG21	2	0.14	0.01	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG22	2	0.14	0.01	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG23	2	0.14	0.01	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG21	2	0.14	0.01	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG22	2	0.14	0.01	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG23	2	0.14	0.01	0.14
(1,38)	1:321:A:MET:H	1:325:A:VAL:H	2	0.13	0.02	0.13
(2,92)	1:295:A:ILE:H	1:291:A:LEU:O	2	0.13	0.0	0.13
(2,144)	1:359:A:LYS:H	1:355:A:ILE:O	2	0.13	0.0	0.13
(2,160)	1:351:A:LYS:H	1:347:A:TRP:O	2	0.13	0.03	0.13
(1,520)	1:292:A:ILE:HD11	1:296:A:ILE:H	2	0.12	0.02	0.12
(1,520)	1:292:A:ILE:HD12	1:296:A:ILE:H	2	0.12	0.02	0.12
(1,520)	1:292:A:ILE:HD13	1:296:A:ILE:H	2	0.12	0.02	0.12
(1,2001)	1:319:A:TYR:HE2	1:283:A:ILE:HB	2	0.12	0.01	0.12
(1,564)	1:282:A:GLU:HB3	1:284:A:CYS:H	2	0.12	0.02	0.12
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD2	2	0.12	0.0	0.12
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD3	2	0.12	0.0	0.12
(1,1161)	1:272:A:SER:HA	1:324:A:GLY:HA3	2	0.12	0.0	0.12

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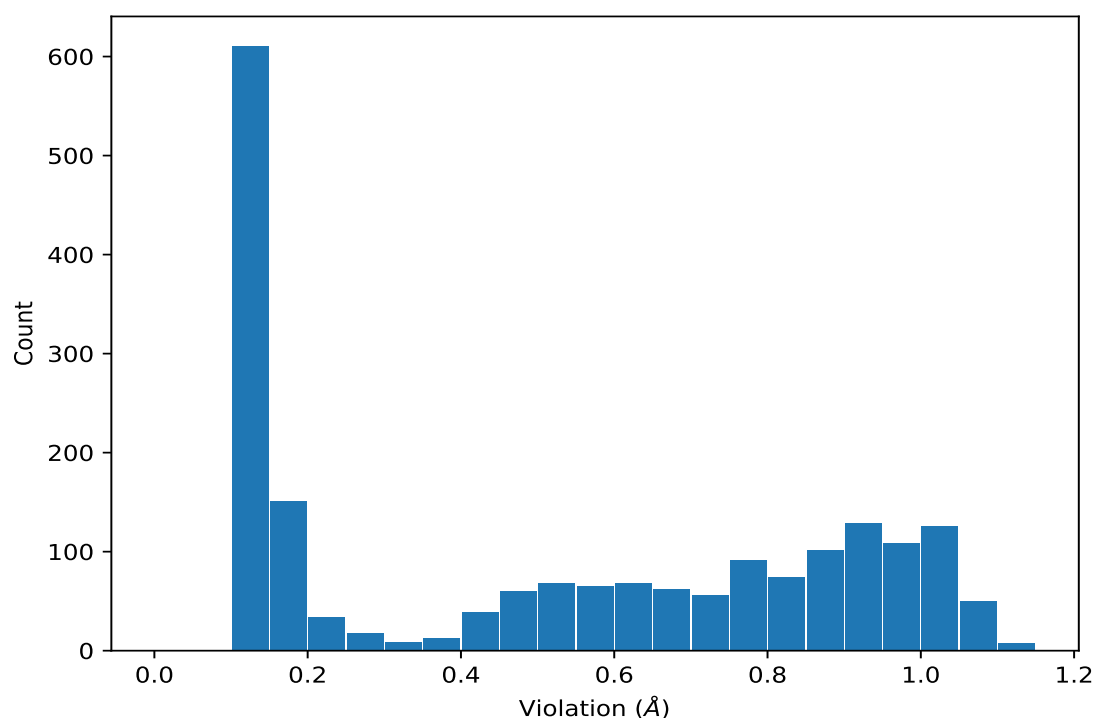
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,7)	1:314:A:TRP:HE1	1:363:A:VAL:HB	2	0.11	0.01	0.11
(1,22)	1:308:A:ASP:H	1:309:A:ARG:HA	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE1	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE2	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE3	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE1	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE2	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE3	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE1	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE2	2	0.11	0.0	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE3	2	0.11	0.0	0.11
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG11	2	0.11	0.01	0.11
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG12	2	0.11	0.01	0.11
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG13	2	0.11	0.01	0.11
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG11	2	0.11	0.01	0.11
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG12	2	0.11	0.01	0.11
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG13	2	0.11	0.01	0.11
(1,1843)	1:334:A:LEU:HD11	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,1843)	1:334:A:LEU:HD12	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,1843)	1:334:A:LEU:HD13	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,1843)	1:334:A:LEU:HD21	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,1843)	1:334:A:LEU:HD22	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,1843)	1:334:A:LEU:HD23	1:335:A:LEU:H	2	0.11	0.0	0.11
(1,437)	1:311:A:ARG:HG3	1:314:A:TRP:H	2	0.11	0.0	0.11
(1,479)	1:280:A:LYS:H	1:283:A:ILE:HG13	2	0.11	0.0	0.11
(1,514)	1:296:A:ILE:H	1:299:A:ASN:H	2	0.11	0.0	0.11
(1,754)	1:343:A:GLU:H	1:343:A:GLU:HG3	2	0.11	0.0	0.11
(1,1275)	1:303:A:ALA:HB1	1:304:A:ASP:HA	2	0.1	0.0	0.1
(1,1275)	1:303:A:ALA:HB2	1:304:A:ASP:HA	2	0.1	0.0	0.1
(1,1275)	1:303:A:ALA:HB3	1:304:A:ASP:HA	2	0.1	0.0	0.1
(2,68)	1:270:A:ARG:H	1:266:A:GLU:O	2	0.1	0.0	0.1

¹Number of violated models, ²Standard 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)
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	9	1.15
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	2	1.13
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	18	1.13
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	16	1.12
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	15	1.11
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	9	1.1
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	15	1.1
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	17	1.1
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	11	1.09
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	15	1.09
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	16	1.09
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	7	1.09
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	14	1.08
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	1	1.08
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	10	1.08
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	4	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	17	1.08
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	5	1.08
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	15	1.08
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	8	1.07
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	4	1.07
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	8	1.07
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	20	1.07
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	5	1.07
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	19	1.07
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	20	1.07
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	13	1.07
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	4	1.06
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	5	1.06
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	10	1.06
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	17	1.06
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	5	1.06
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	8	1.06
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	17	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	2	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	3	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	5	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	6	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	7	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	17	1.06
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	19	1.06
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	3	1.06
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	11	1.05
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	16	1.05
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	14	1.05
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	18	1.05
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	6	1.05
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	8	1.05
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	10	1.05
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	16	1.05
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	6	1.05
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	9	1.05
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	19	1.05
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	20	1.05
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	5	1.05
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	6	1.05
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	9	1.05
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	19	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	3	1.04
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	12	1.04
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	6	1.04
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	9	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	2	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	3	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	9	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	10	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	12	1.04
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	18	1.04
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	20	1.04
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	14	1.04
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	16	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	1	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	4	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	9	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	11	1.04
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	17	1.04
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	1	1.04
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	7	1.04
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	12	1.04
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	2	1.04
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	18	1.04
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	1	1.03
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	17	1.03
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	1	1.03
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	4	1.03
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	7	1.03
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	19	1.03
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	19	1.03
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	9	1.03
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	12	1.03
(2,38)	1:366:A:LYS:N	1:362:A:SER:O	13	1.03
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	1	1.03
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	13	1.03
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	3	1.03
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	13	1.03
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	14	1.03
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	11	1.03
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	17	1.03
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	3	1.03
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	4	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	8	1.03
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	13	1.03
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	15	1.03
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	13	1.03
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	19	1.03
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	6	1.02
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	9	1.02
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	19	1.02
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	11	1.02
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	13	1.02
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	20	1.02
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	14	1.02
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	18	1.02
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	20	1.02
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	5	1.02
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	9	1.02
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	2	1.02
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	12	1.02
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	18	1.02
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	1	1.02
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	8	1.02
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	12	1.02
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	6	1.02
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	11	1.02
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	14	1.02
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	18	1.02
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	1	1.02
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	7	1.02
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	11	1.02
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	2	1.01
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	20	1.01
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	6	1.01
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	14	1.01
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	15	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	1	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	3	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	4	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	6	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	8	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	12	1.01
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	13	1.01
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	9	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	17	1.01
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	18	1.01
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	14	1.01
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	10	1.01
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	5	1.01
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	13	1.01
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	11	1.01
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	12	1.01
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	4	1.01
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	10	1.01
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	10	1.01
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	12	1.01
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	14	1.01
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	15	1.01
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	1	1.0
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	2	1.0
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	18	1.0
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	19	1.0
(2,50)	1:354:A:VAL:N	1:350:A:GLN:O	11	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	2	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	5	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	7	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	10	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	11	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	16	1.0
(2,45)	1:359:A:LYS:N	1:355:A:ILE:O	17	1.0
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	3	1.0
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	16	1.0
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	2	1.0
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	4	1.0
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	12	1.0
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	7	1.0
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	19	1.0
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	14	1.0
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	2	1.0
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	13	1.0
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	18	1.0
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	16	1.0
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	1	1.0
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	3	1.0
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	11	1.0
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	14	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	13	0.99
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	4	0.99
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	6	0.99
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	7	0.99
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	12	0.99
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	15	0.99
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	19	0.99
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	1	0.99
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	4	0.99
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	12	0.99
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	6	0.99
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	20	0.99
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	14	0.99
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	5	0.99
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	14	0.99
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	15	0.99
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	19	0.99
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	2	0.99
(2,15)	1:282:A:GLU:N	1:278:A:LYS:O	8	0.99
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	3	0.99
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	10	0.99
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	3	0.99
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	14	0.99
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	16	0.99
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	10	0.99
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	7	0.99
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	18	0.99
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	18	0.98
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	13	0.98
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	11	0.98
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	6	0.98
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	10	0.98
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	18	0.98
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	18	0.98
(2,23)	1:321:A:MET:N	1:317:A:ILE:O	15	0.98
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	6	0.98
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	12	0.98
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	1	0.98
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	4	0.98
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	9	0.98
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	10	0.98
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	16	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	4	0.98
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	13	0.98
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	19	0.98
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	2	0.98
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	16	0.97
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	20	0.97
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	7	0.97
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	2	0.97
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	4	0.97
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	8	0.97
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	20	0.97
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	2	0.97
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	14	0.97
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	15	0.97
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	5	0.97
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	8	0.97
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	7	0.97
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	13	0.97
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	12	0.97
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	9	0.97
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	5	0.97
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	5	0.96
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	8	0.96
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	9	0.96
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	13	0.96
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	1	0.96
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	7	0.96
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	13	0.96
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	2	0.96
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	9	0.96
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	10	0.96
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	13	0.96
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	14	0.96
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	6	0.96
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	10	0.96
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	17	0.96
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	12	0.96
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	8	0.96
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	20	0.96
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	14	0.95
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	16	0.95
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	5	0.95
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	8	0.95
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	10	0.95
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	5	0.95
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	3	0.95
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	16	0.95
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	20	0.95
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	8	0.95
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	19	0.95
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	3	0.95
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	4	0.95
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	12	0.95
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	9	0.95
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	8	0.95
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	17	0.95
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	2	0.95
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	15	0.95
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	18	0.95
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	11	0.95
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	9	0.95
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	4	0.95
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	6	0.95
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	10	0.95
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	11	0.95
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	19	0.95
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	12	0.94
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	7	0.94
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	8	0.94
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	17	0.94
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	15	0.94
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	17	0.94
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	19	0.94
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	5	0.94
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	12	0.94
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	3	0.94
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	17	0.94
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	20	0.94
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	11	0.94
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	18	0.94
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	6	0.94
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	3	0.94
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	17	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	20	0.94
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	2	0.94
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	15	0.94
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	17	0.94
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	10	0.94
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	15	0.94
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	10	0.94
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	7	0.94
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	13	0.94
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	16	0.94
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	8	0.93
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	9	0.93
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	19	0.93
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	18	0.93
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	18	0.93
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	16	0.93
(2,24)	1:320:A:LEU:N	1:316:A:VAL:O	11	0.93
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	12	0.93
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	19	0.93
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	9	0.93
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	12	0.93
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	17	0.93
(2,9)	1:268:A:VAL:N	1:264:A:ARG:O	20	0.93
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	2	0.93
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	6	0.93
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	17	0.93
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	19	0.93
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	6	0.93
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	16	0.93
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	20	0.93
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	5	0.93
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	4	0.93
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	17	0.93
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	5	0.92
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	15	0.92
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	15	0.92
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	17	0.92
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	7	0.92
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	11	0.92
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	14	0.92
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	1	0.92
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	6	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	11	0.92
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	14	0.92
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	16	0.92
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	7	0.92
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	10	0.92
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	2	0.92
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	3	0.92
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	7	0.92
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	1	0.92
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	16	0.92
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	14	0.92
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	5	0.92
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	8	0.92
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	16	0.92
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	3	0.92
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	14	0.92
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	3	0.92
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	8	0.92
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	6	0.92
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	2	0.92
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	15	0.91
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	10	0.91
(2,42)	1:362:A:SER:N	1:358:A:SER:O	15	0.91
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	8	0.91
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	2	0.91
(2,32)	1:334:A:LEU:N	1:330:A:LYS:O	11	0.91
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	9	0.91
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	19	0.91
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	6	0.91
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	4	0.91
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	15	0.91
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	19	0.91
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	8	0.91
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	10	0.91
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	10	0.91
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	2	0.91
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	7	0.91
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	16	0.91
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	18	0.91
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	1	0.91
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	3	0.91
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	6	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	11	0.91
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	7	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	5	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	7	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	8	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	11	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	12	0.91
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	20	0.91
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	14	0.91
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	16	0.91
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	17	0.91
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	18	0.91
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	2	0.91
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	2	0.9
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	12	0.9
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	13	0.9
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	6	0.9
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	5	0.9
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	9	0.9
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	17	0.9
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	15	0.9
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	2	0.9
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	18	0.9
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	7	0.9
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	10	0.9
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	16	0.9
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	1	0.9
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	8	0.9
(2,42)	1:362:A:SER:N	1:358:A:SER:O	9	0.89
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	4	0.89
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	3	0.89
(2,29)	1:315:A:HIS:N	1:311:A:ARG:O	11	0.89
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	4	0.89
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	15	0.89
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	20	0.89
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	10	0.89
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	8	0.89
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	13	0.89
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	1	0.89
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	19	0.89
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	9	0.89
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	18	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	4	0.89
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	18	0.89
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	9	0.89
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	3	0.89
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	6	0.89
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	12	0.89
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	13	0.89
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	6	0.89
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	13	0.89
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	1	0.88
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	16	0.88
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	17	0.88
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	15	0.88
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	1	0.88
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	2	0.88
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	3	0.88
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	6	0.88
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	16	0.88
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	7	0.88
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	11	0.88
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	20	0.88
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	8	0.88
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	1	0.88
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	20	0.88
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	12	0.88
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	18	0.88
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	19	0.88
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	20	0.88
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	5	0.88
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	7	0.88
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	16	0.87
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	18	0.87
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	6	0.87
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	4	0.87
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	10	0.87
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	17	0.87
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	13	0.87
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	17	0.87
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	9	0.87
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	13	0.87
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	4	0.87
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	5	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	9	0.87
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	16	0.87
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	13	0.87
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	16	0.87
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	1	0.87
(2,4)	1:262:A:GLU:N	1:258:A:VAL:O	3	0.87
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	13	0.86
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	15	0.86
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	19	0.86
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	1	0.86
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	16	0.86
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	17	0.86
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	19	0.86
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	4	0.86
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	16	0.86
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	7	0.86
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	14	0.86
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	5	0.86
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	4	0.86
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	14	0.86
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	2	0.86
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	15	0.86
(2,8)	1:269:A:LYS:N	1:265:A:LYS:O	1	0.86
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	7	0.86
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	8	0.86
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	9	0.86
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	15	0.86
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	2	0.85
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	12	0.85
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	10	0.85
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	18	0.85
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	11	0.85
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	12	0.85
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	7	0.85
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	10	0.85
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	11	0.85
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	13	0.85
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	19	0.85
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	16	0.85
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	5	0.85
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	4	0.85
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	4	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	7	0.85
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	9	0.85
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	19	0.85
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	1	0.84
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	14	0.84
(2,42)	1:362:A:SER:N	1:358:A:SER:O	3	0.84
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	7	0.84
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	13	0.84
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	5	0.84
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	13	0.84
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	14	0.84
(2,30)	1:314:A:TRP:N	1:310:A:SER:O	4	0.84
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	18	0.84
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	20	0.84
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	5	0.84
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	7	0.84
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	10	0.84
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	17	0.83
(2,42)	1:362:A:SER:N	1:358:A:SER:O	20	0.83
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	15	0.83
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	20	0.83
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	5	0.83
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	11	0.83
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	14	0.83
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	15	0.83
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	7	0.83
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	8	0.83
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	3	0.83
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	1	0.83
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	10	0.83
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	19	0.83
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	16	0.83
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	13	0.83
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	20	0.82
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	9	0.82
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	4	0.82
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	2	0.82
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	3	0.82
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	9	0.82
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	12	0.82
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	2	0.82
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	5	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	1	0.82
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	20	0.82
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	17	0.82
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	8	0.82
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	5	0.82
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	13	0.82
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	14	0.82
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	20	0.82
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	3	0.81
(2,42)	1:362:A:SER:N	1:358:A:SER:O	1	0.81
(2,42)	1:362:A:SER:N	1:358:A:SER:O	19	0.81
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	1	0.81
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	6	0.81
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	10	0.81
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	4	0.81
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	12	0.81
(2,37)	1:367:A:TYR:N	1:363:A:VAL:O	20	0.81
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	15	0.81
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	8	0.81
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	9	0.81
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	10	0.81
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	18	0.81
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	14	0.81
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	11	0.81
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	18	0.81
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	15	0.81
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	3	0.8
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	12	0.8
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	8	0.8
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	1	0.8
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	7	0.8
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	10	0.8
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	11	0.8
(2,16)	1:280:A:LYS:N	1:276:A:VAL:O	20	0.8
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	7	0.8
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	5	0.79
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	11	0.79
(2,42)	1:362:A:SER:N	1:358:A:SER:O	12	0.79
(2,42)	1:362:A:SER:N	1:358:A:SER:O	14	0.79
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	2	0.79
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	8	0.79
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	16	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	1	0.79
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	5	0.79
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	7	0.79
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	10	0.79
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	15	0.79
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	16	0.79
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	16	0.79
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	3	0.79
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	13	0.79
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	8	0.79
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	1	0.79
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	10	0.79
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	16	0.79
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	18	0.79
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	20	0.79
(2,42)	1:362:A:SER:N	1:358:A:SER:O	2	0.78
(2,42)	1:362:A:SER:N	1:358:A:SER:O	16	0.78
(2,42)	1:362:A:SER:N	1:358:A:SER:O	18	0.78
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	13	0.78
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	14	0.78
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	17	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	2	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	3	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	6	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	9	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	13	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	14	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	18	0.78
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	3	0.78
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	6	0.78
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	18	0.78
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	19	0.78
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	11	0.78
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	18	0.78
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	17	0.78
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	6	0.78
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	15	0.78
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	2	0.78
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	3	0.78
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	10	0.78
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	1	0.78
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	3	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	14	0.78
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	11	0.77
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	17	0.77
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	9	0.77
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	18	0.77
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	20	0.77
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	3	0.77
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	20	0.77
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	15	0.77
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	7	0.77
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	16	0.77
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	13	0.77
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	6	0.77
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	8	0.76
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	10	0.76
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	4	0.76
(2,42)	1:362:A:SER:N	1:358:A:SER:O	7	0.76
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	3	0.76
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	5	0.76
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	18	0.76
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	20	0.76
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	5	0.76
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	6	0.76
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	17	0.76
(2,11)	1:266:A:GLU:N	1:262:A:GLU:O	6	0.76
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	2	0.76
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	5	0.76
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	1	0.76
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	19	0.76
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	12	0.76
(2,49)	1:355:A:ILE:N	1:351:A:LYS:O	10	0.75
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	6	0.75
(2,42)	1:362:A:SER:N	1:358:A:SER:O	8	0.75
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	11	0.75
(2,40)	1:364:A:VAL:N	1:360:A:ALA:O	19	0.75
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	15	0.75
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	6	0.75
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	2	0.75
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	19	0.75
(2,6)	1:260:A:PHE:N	1:256:A:THR:O	11	0.75
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	17	0.75
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	8	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	7	0.74
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	11	0.74
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	16	0.74
(2,25)	1:319:A:TYR:N	1:315:A:HIS:O	19	0.74
(2,12)	1:285:A:THR:N	1:281:A:GLU:O	6	0.74
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	8	0.74
(2,1)	1:265:A:LYS:N	1:261:A:GLU:O	4	0.74
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	12	0.73
(2,42)	1:362:A:SER:N	1:358:A:SER:O	4	0.73
(2,42)	1:362:A:SER:N	1:358:A:SER:O	10	0.73
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	12	0.73
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	3	0.73
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	4	0.73
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	5	0.73
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	6	0.73
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	13	0.73
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	4	0.73
(2,13)	1:284:A:CYS:N	1:280:A:LYS:O	15	0.73
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	13	0.72
(2,42)	1:362:A:SER:N	1:358:A:SER:O	13	0.72
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	2	0.72
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	14	0.72
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	18	0.72
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	4	0.72
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	2	0.72
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	3	0.72
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	6	0.72
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	15	0.72
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	1	0.71
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	4	0.71
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	7	0.71
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	19	0.71
(2,41)	1:363:A:VAL:N	1:359:A:LYS:O	9	0.71
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	13	0.71
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	19	0.71
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	1	0.71
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	2	0.71
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	1	0.71
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	8	0.71
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	10	0.71
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	11	0.71
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	12	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	9	0.71
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	4	0.71
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	4	0.71
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	9	0.71
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	12	0.7
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	15	0.7
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	7	0.7
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	10	0.7
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	14	0.7
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	18	0.7
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	3	0.7
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	9	0.7
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	20	0.7
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	15	0.7
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	5	0.69
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	15	0.69
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	8	0.69
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	14	0.69
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	16	0.69
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	17	0.69
(2,42)	1:362:A:SER:N	1:358:A:SER:O	5	0.69
(2,42)	1:362:A:SER:N	1:358:A:SER:O	6	0.69
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	17	0.69
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	11	0.69
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	5	0.69
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	12	0.69
(2,54)	1:350:A:GLN:N	1:346:A:LYS:O	7	0.68
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	6	0.68
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	14	0.68
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	4	0.68
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	20	0.68
(2,42)	1:362:A:SER:N	1:358:A:SER:O	11	0.68
(2,42)	1:362:A:SER:N	1:358:A:SER:O	17	0.68
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	14	0.68
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	19	0.68
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	8	0.68
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	7	0.68
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	9	0.68
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	19	0.68
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	7	0.68
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	1	0.68
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	9	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	11	0.68
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	13	0.68
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	4	0.68
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	20	0.67
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	2	0.67
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	3	0.67
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	14	0.67
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	17	0.67
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	8	0.67
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	12	0.67
(2,3)	1:263:A:LEU:N	1:259:A:GLU:O	17	0.67
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	14	0.67
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	15	0.67
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	12	0.67
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	1	0.66
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	8	0.66
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	12	0.66
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	4	0.66
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	5	0.66
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	17	0.66
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	20	0.66
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	19	0.66
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	18	0.66
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	11	0.66
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	3	0.66
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	2	0.65
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	1	0.65
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	12	0.65
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	19	0.65
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	14	0.65
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	20	0.65
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	18	0.65
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	12	0.65
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	11	0.65
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	8	0.64
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	18	0.64
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	15	0.64
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	3	0.64
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	6	0.64
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	15	0.64
(2,26)	1:318:A:LEU:N	1:314:A:TRP:O	20	0.64
(2,19)	1:295:A:ILE:N	1:291:A:LEU:O	12	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	4	0.64
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	8	0.64
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	15	0.64
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	19	0.64
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	5	0.64
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	11	0.64
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	17	0.64
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	19	0.63
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	2	0.63
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	10	0.63
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	9	0.63
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	13	0.63
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	2	0.63
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	5	0.63
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	7	0.63
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	9	0.63
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	20	0.63
(2,7)	1:270:A:ARG:N	1:266:A:GLU:O	14	0.63
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	14	0.63
(2,53)	1:351:A:LYS:N	1:347:A:TRP:O	3	0.62
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	5	0.62
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	10	0.62
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	18	0.62
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	5	0.62
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	14	0.62
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	5	0.62
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	13	0.62
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	14	0.62
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	16	0.62
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	12	0.62
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	17	0.62
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	17	0.62
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	18	0.61
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	18	0.61
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	2	0.61
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	5	0.61
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	11	0.61
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	14	0.61
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	18	0.61
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	9	0.61
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	10	0.61
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	18	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	20	0.61
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	9	0.61
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	20	0.61
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	2	0.61
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	17	0.61
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	17	0.61
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	3	0.6
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	14	0.6
(2,48)	1:356:A:THR:N	1:352:A:TYR:O	3	0.6
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	12	0.6
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	3	0.6
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	9	0.6
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	13	0.6
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	7	0.6
(2,22)	1:322:A:LYS:N	1:318:A:LEU:O	15	0.6
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	3	0.6
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	16	0.6
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	3	0.6
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	16	0.59
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	4	0.59
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	20	0.59
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	13	0.59
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	5	0.59
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	1	0.59
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	11	0.59
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	13	0.59
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	12	0.59
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	13	0.58
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	1	0.58
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	4	0.58
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	15	0.58
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	16	0.58
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	19	0.58
(2,33)	1:333:A:GLU:N	1:329:A:ASP:O	12	0.58
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	17	0.58
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	7	0.58
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	9	0.58
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	6	0.58
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	7	0.58
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	16	0.58
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	19	0.58
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	14	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	19	0.57
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	9	0.57
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	13	0.57
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	6	0.57
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	17	0.57
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	19	0.57
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	5	0.57
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	11	0.57
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	13	0.57
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	2	0.57
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	5	0.57
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	9	0.56
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	13	0.56
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	16	0.56
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	10	0.56
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	12	0.56
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	20	0.56
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	10	0.56
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	14	0.56
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	12	0.56
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	1	0.56
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	20	0.56
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	13	0.56
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	10	0.56
(2,5)	1:261:A:GLU:N	1:257:A:VAL:O	9	0.56
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	2	0.56
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	4	0.56
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	13	0.56
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	5	0.55
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	6	0.55
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	14	0.55
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	1	0.55
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	15	0.55
(2,31)	1:313:A:ASP:N	1:309:A:ARG:O	6	0.55
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	4	0.55
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	4	0.55
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	2	0.55
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	15	0.55
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	20	0.55
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	10	0.55
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	20	0.55
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	16	0.54
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	7	0.54
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	17	0.54
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	16	0.54
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	12	0.54
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	18	0.54
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	6	0.54
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	8	0.54
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	19	0.54
(2,10)	1:267:A:LEU:N	1:263:A:LEU:O	14	0.54
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	9	0.54
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	18	0.54
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	20	0.53
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	11	0.53
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	15	0.53
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	17	0.53
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	8	0.53
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	18	0.53
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	1	0.53
(2,27)	1:317:A:ILE:N	1:313:A:ASP:O	20	0.53
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	10	0.53
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	11	0.53
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	14	0.53
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	8	0.53
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	2	0.52
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	12	0.52
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	11	0.52
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	4	0.52
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	11	0.52
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	12	0.52
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	13	0.52
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	19	0.52
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	6	0.52
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	7	0.52
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	8	0.52
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	4	0.52
(2,39)	1:365:A:LYS:N	1:361:A:TRP:O	7	0.52
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	3	0.52
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	11	0.52
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	3	0.52
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	1	0.52
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	11	0.51
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	2	0.51
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	5	0.51
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	9	0.51
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	20	0.51
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	17	0.51
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	18	0.51
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	17	0.51
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	5	0.51
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	18	0.51
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	10	0.5
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	1	0.5
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	10	0.5
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	15	0.5
(2,43)	1:361:A:TRP:N	1:357:A:LEU:O	19	0.5
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	8	0.5
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	9	0.5
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	16	0.5
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	5	0.5
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	11	0.5
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	17	0.5
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	6	0.5
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	16	0.5
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	16	0.5
(1,56)	1:354:A:VAL:HA	1:359:A:LYS:H	1	0.5
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	14	0.49
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	3	0.49
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	16	0.49
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	20	0.49
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	7	0.49
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	4	0.49
(2,21)	1:323:A:HIS:N	1:319:A:TYR:O	15	0.49
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	12	0.49
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	13	0.49
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	3	0.49
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	14	0.49
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	18	0.49
(2,2)	1:264:A:ARG:N	1:260:A:PHE:O	11	0.49
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	10	0.49
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	7	0.48
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	4	0.48
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	18	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	8	0.48
(2,34)	1:332:A:LEU:N	1:328:A:PRO:O	2	0.48
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	3	0.48
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	13	0.48
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	1	0.48
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	3	0.48
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	1	0.48
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	10	0.48
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	19	0.48
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	9	0.48
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	4	0.47
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	2	0.47
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	20	0.47
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	2	0.47
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	19	0.47
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	20	0.47
(2,20)	1:294:A:GLU:N	1:290:A:LYS:O	20	0.47
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	6	0.47
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	4	0.47
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	5	0.46
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	10	0.46
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	12	0.46
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	4	0.46
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	5	0.46
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	6	0.46
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	15	0.46
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	7	0.46
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	11	0.46
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	3	0.46
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	6	0.46
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	17	0.45
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	6	0.45
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	9	0.45
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	13	0.45
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	19	0.45
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	8	0.45
(2,44)	1:360:A:ALA:N	1:356:A:THR:O	8	0.45
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	6	0.45
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	12	0.45
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	15	0.45
(2,28)	1:316:A:VAL:N	1:312:A:GLY:O	7	0.45
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	16	0.45
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	1	0.44
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	3	0.44
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	8	0.44
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	1	0.44
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	12	0.44
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	18	0.44
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	11	0.44
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	8	0.44
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	16	0.44
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	8	0.44
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	6	0.43
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	7	0.43
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	16	0.43
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	18	0.43
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	16	0.43
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	17	0.43
(2,35)	1:369:A:GLU:N	1:365:A:LYS:O	19	0.43
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	9	0.43
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	14	0.43
(2,51)	1:353:A:PHE:N	1:349:A:THR:O	8	0.42
(2,47)	1:357:A:LEU:N	1:353:A:PHE:O	17	0.42
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	3	0.42
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	9	0.42
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	13	0.42
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	10	0.42
(2,14)	1:283:A:ILE:N	1:279:A:ILE:O	8	0.42
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	7	0.42
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	2	0.41
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	1	0.41
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	16	0.41
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	5	0.4
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	10	0.4
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	17	0.4
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	19	0.4
(2,36)	1:368:A:LEU:N	1:364:A:VAL:O	2	0.4
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	15	0.4
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	15	0.4
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	19	0.4
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	20	0.4
(2,52)	1:352:A:TYR:N	1:348:A:ASN:O	11	0.39
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	6	0.39
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	14	0.39
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	20	0.39
(2,18)	1:296:A:ILE:N	1:292:A:ILE:O	10	0.39
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	7	0.39
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	7	0.38
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	15	0.38
(2,46)	1:358:A:SER:N	1:354:A:VAL:O	11	0.36
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	2	0.36
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	18	0.36
(2,17)	1:297:A:CYS:N	1:293:A:LYS:O	19	0.36
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	13	0.33
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	15	0.33
(1,543)	1:328:A:PRO:HG3	1:329:A:ASP:H	2	0.33
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	19	0.32
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	20	0.32
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	2	0.31
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	4	0.31
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	7	0.31
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	14	0.3
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	1	0.29
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	9	0.29
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	10	0.29
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	16	0.29
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	19	0.29
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	5	0.28
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	17	0.28
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	3	0.28
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	5	0.28
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	18	0.27
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	15	0.27
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	12	0.26
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE2	9	0.26
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE3	9	0.26
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	6	0.25
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	2	0.25
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	18	0.25
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	14	0.25
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	3	0.24
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	11	0.24
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	4	0.24
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE2	15	0.24
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE3	15	0.24
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE2	15	0.24
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE3	15	0.24
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE2	15	0.24
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE3	15	0.24
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE2	11	0.24
(1,108)	1:286:A:LYS:H	1:286:A:LYS:HE3	11	0.24
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	8	0.23
(1,103)	1:286:A:LYS:H	1:323:A:HIS:HD2	20	0.23
(2,118)	1:334:A:LEU:H	1:330:A:LYS:O	8	0.22
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	12	0.22
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	13	0.22
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	14	0.22
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	6	0.22
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	1	0.21
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	10	0.21
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	17	0.21
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	1	0.21
(1,111)	1:283:A:ILE:HG21	1:286:A:LYS:H	19	0.21
(1,111)	1:283:A:ILE:HG22	1:286:A:LYS:H	19	0.21
(1,111)	1:283:A:ILE:HG23	1:286:A:LYS:H	19	0.21
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	6	0.2
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	13	0.2
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	20	0.2
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	11	0.2
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	17	0.2
(1,1709)	1:299:A:ASN:HB2	1:300:A:LYS:H	13	0.2
(1,1709)	1:299:A:ASN:HB3	1:300:A:LYS:H	13	0.2
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	19	0.2
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	18	0.19
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	5	0.19
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	7	0.19
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	12	0.19
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	15	0.19
(1,2002)	1:287:A:SER:HB2	1:286:A:LYS:H	6	0.19
(1,2002)	1:287:A:SER:HB3	1:286:A:LYS:H	6	0.19
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	10	0.19
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	15	0.19
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	15	0.19
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	2	0.18
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	8	0.18
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	11	0.18
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	16	0.18
(2,78)	1:285:A:THR:H	1:281:A:GLU:O	19	0.18
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	1	0.18
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	14	0.18
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	13	0.18
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	1	0.18
(1,1948)	1:296:A:ILE:HG21	1:280:A:LYS:HG2	12	0.18
(1,1948)	1:296:A:ILE:HG21	1:280:A:LYS:HG3	12	0.18
(1,1948)	1:296:A:ILE:HG22	1:280:A:LYS:HG2	12	0.18
(1,1948)	1:296:A:ILE:HG22	1:280:A:LYS:HG3	12	0.18
(1,1948)	1:296:A:ILE:HG23	1:280:A:LYS:HG2	12	0.18
(1,1948)	1:296:A:ILE:HG23	1:280:A:LYS:HG3	12	0.18
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	12	0.18
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB2	6	0.18
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB3	6	0.18
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	7	0.18
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	7	0.18
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	20	0.18
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	18	0.18
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	20	0.18
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	5	0.18
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	5	0.18
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	6	0.18
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	6	0.18
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	8	0.18
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	10	0.18
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	12	0.18
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	15	0.17
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	16	0.17
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	3	0.17
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	9	0.17
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	8	0.17
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	18	0.17
(1,542)	1:329:A:ASP:H	1:330:A:LYS:HD2	2	0.17
(1,542)	1:329:A:ASP:H	1:330:A:LYS:HD3	2	0.17
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	17	0.17
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	2	0.17
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	18	0.17
(1,40)	1:272:A:SER:HA	1:325:A:VAL:H	1	0.17
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	11	0.16
(2,160)	1:351:A:LYS:H	1:347:A:TRP:O	8	0.16
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	10	0.16
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	11	0.16
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	16	0.16
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	15	0.16
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	4	0.16
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	12	0.16
(2,66)	1:260:A:PHE:H	1:256:A:THR:O	13	0.16
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	2	0.16
(1,1181)	1:349:A:THR:HG21	1:353:A:PHE:HA	15	0.16
(1,1181)	1:349:A:THR:HG22	1:353:A:PHE:HA	15	0.16
(1,1181)	1:349:A:THR:HG23	1:353:A:PHE:HA	15	0.16
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	15	0.16
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	6	0.16
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	6	0.16
(1,495)	1:295:A:ILE:HA	1:297:A:CYS:H	13	0.16
(1,495)	1:295:A:ILE:HA	1:297:A:CYS:H	15	0.16
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	2	0.16
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	7	0.16
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	19	0.16
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	11	0.16
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	11	0.16
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	14	0.16
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	14	0.16
(1,111)	1:283:A:ILE:HG21	1:286:A:LYS:H	14	0.16
(1,111)	1:283:A:ILE:HG22	1:286:A:LYS:H	14	0.16
(1,111)	1:283:A:ILE:HG23	1:286:A:LYS:H	14	0.16
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	13	0.16
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	20	0.16
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	1	0.15
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	3	0.15
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	4	0.15
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	6	0.15
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	8	0.15
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	20	0.15
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	7	0.15
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	5	0.15
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	9	0.15
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	10	0.15
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	2	0.15
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	14	0.15
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	17	0.15
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	19	0.15
(2,66)	1:260:A:PHE:H	1:256:A:THR:O	19	0.15
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	20	0.15
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	20	0.15
(1,1609)	1:266:A:GLU:HG2	1:361:A:TRP:HZ2	18	0.15
(1,1609)	1:266:A:GLU:HG3	1:361:A:TRP:HZ2	18	0.15
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	1	0.15
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	1	0.15
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	1	0.15
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	1	0.15
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	1	0.15
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	1	0.15
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	7	0.15
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	17	0.15
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	19	0.15
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	17	0.15
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	3	0.15
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	13	0.15
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE1	6	0.15
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE2	6	0.15
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE1	6	0.15
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE2	6	0.15
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE1	6	0.15
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE2	6	0.15
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	11	0.15
(1,1012)	1:314:A:TRP:HH2	1:359:A:LYS:HG2	9	0.15
(1,927)	1:296:A:ILE:HG12	1:334:A:LEU:HA	12	0.15
(1,927)	1:296:A:ILE:HG13	1:334:A:LEU:HA	12	0.15
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	4	0.15
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	14	0.15
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	14	0.15
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	1	0.15
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	11	0.15
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	12	0.15
(1,571)	1:303:A:ALA:H	1:338:A:ASP:H	14	0.15
(1,525)	1:295:A:ILE:H	1:296:A:ILE:HB	15	0.15
(1,525)	1:295:A:ILE:H	1:296:A:ILE:HB	18	0.15
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	1	0.15
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	4	0.15
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	4	0.15
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	4	0.15
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	7	0.15
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	7	0.15
(1,159)	1:259:A:GLU:HG2	1:260:A:PHE:H	18	0.15
(1,159)	1:259:A:GLU:HG3	1:260:A:PHE:H	18	0.15
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	4	0.15
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	11	0.15
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	11	0.15
(1,38)	1:321:A:MET:H	1:325:A:VAL:H	14	0.15
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	5	0.15
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	15	0.15
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	19	0.15
(4,10)	1:355:A:ILE:HB	1:351:A:LYS:HA	11	0.14
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	4	0.14
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	2	0.14
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	5	0.14
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	7	0.14
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	8	0.14
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	3	0.14
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	6	0.14
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	9	0.14
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA2	11	0.14
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA3	11	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG21	14	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG22	14	0.14
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG23	14	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG21	14	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG22	14	0.14
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG23	14	0.14
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	10	0.14
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	10	0.14
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	19	0.14
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	19	0.14
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	3	0.14
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	8	0.14
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	8	0.14
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	8	0.14
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	8	0.14
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	8	0.14
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	1	0.14
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	5	0.14
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	9	0.14
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	10	0.14
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	14	0.14
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE1	12	0.14
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE2	12	0.14
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE1	12	0.14
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE2	12	0.14
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE1	12	0.14
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE2	12	0.14
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	14	0.14
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	14	0.14
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	16	0.14
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	17	0.14
(1,520)	1:292:A:ILE:HD11	1:296:A:ILE:H	10	0.14
(1,520)	1:292:A:ILE:HD12	1:296:A:ILE:H	10	0.14
(1,520)	1:292:A:ILE:HD13	1:296:A:ILE:H	10	0.14
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	5	0.14
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	16	0.14
(1,147)	1:269:A:LYS:HB2	1:271:A:ASP:H	18	0.14
(1,147)	1:269:A:LYS:HB3	1:271:A:ASP:H	18	0.14
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	14	0.14
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	5	0.14
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	11	0.14
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	14	0.14
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	18	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	4	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	4	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	5	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	5	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	6	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	6	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	7	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	7	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	14	0.14
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	14	0.14
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	14	0.14
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	14	0.13
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	17	0.13
(2,144)	1:359:A:LYS:H	1:355:A:ILE:O	9	0.13
(2,144)	1:359:A:LYS:H	1:355:A:ILE:O	15	0.13
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	14	0.13
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	17	0.13
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	18	0.13
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	19	0.13
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	4	0.13
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	10	0.13
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	20	0.13
(2,92)	1:295:A:ILE:H	1:291:A:LEU:O	1	0.13
(2,92)	1:295:A:ILE:H	1:291:A:LEU:O	14	0.13
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	7	0.13
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	2	0.13
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	18	0.13
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	11	0.13
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	17	0.13
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	20	0.13
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	11	0.13
(2,66)	1:260:A:PHE:H	1:256:A:THR:O	10	0.13
(1,2003)	1:287:A:SER:HA	1:286:A:LYS:H	7	0.13
(1,2001)	1:319:A:TYR:HE2	1:283:A:ILE:HB	13	0.13
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	15	0.13
(1,1842)	1:334:A:LEU:HB2	1:335:A:LEU:H	16	0.13
(1,1842)	1:334:A:LEU:HB3	1:335:A:LEU:H	16	0.13
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG21	4	0.13
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG22	4	0.13
(1,1688)	1:284:A:CYS:HB2	1:285:A:THR:HG23	4	0.13
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG21	4	0.13
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG22	4	0.13
(1,1688)	1:284:A:CYS:HB3	1:285:A:THR:HG23	4	0.13
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	16	0.13
(1,1549)	1:257:A:VAL:HG11	1:258:A:VAL:H	20	0.13
(1,1549)	1:257:A:VAL:HG12	1:258:A:VAL:H	20	0.13
(1,1549)	1:257:A:VAL:HG13	1:258:A:VAL:H	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:257:A:VAL:HG21	1:258:A:VAL:H	20	0.13
(1,1549)	1:257:A:VAL:HG22	1:258:A:VAL:H	20	0.13
(1,1549)	1:257:A:VAL:HG23	1:258:A:VAL:H	20	0.13
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	1	0.13
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	6	0.13
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	12	0.13
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	20	0.13
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	14	0.13
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	18	0.13
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	6	0.13
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	8	0.13
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	16	0.13
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	17	0.13
(1,1439)	1:353:A:PHE:HA	1:353:A:PHE:HD1	17	0.13
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE1	8	0.13
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE2	8	0.13
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE1	8	0.13
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE2	8	0.13
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE1	8	0.13
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE2	8	0.13
(1,1325)	1:280:A:LYS:HB3	1:296:A:ILE:HG21	8	0.13
(1,1325)	1:280:A:LYS:HB3	1:296:A:ILE:HG22	8	0.13
(1,1325)	1:280:A:LYS:HB3	1:296:A:ILE:HG23	8	0.13
(1,1012)	1:314:A:TRP:HH2	1:359:A:LYS:HG2	15	0.13
(1,927)	1:296:A:ILE:HG12	1:334:A:LEU:HA	8	0.13
(1,927)	1:296:A:ILE:HG13	1:334:A:LEU:HA	8	0.13
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	2	0.13
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	10	0.13
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	13	0.13
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	13	0.13
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	12	0.13
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	12	0.13
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	14	0.13
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	20	0.13
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	4	0.13
(1,564)	1:282:A:GLU:HB3	1:284:A:CYS:H	20	0.13
(1,495)	1:295:A:ILE:HA	1:297:A:CYS:H	18	0.13
(1,456)	1:295:A:ILE:HG21	1:300:A:LYS:H	7	0.13
(1,456)	1:295:A:ILE:HG22	1:300:A:LYS:H	7	0.13
(1,456)	1:295:A:ILE:HG23	1:300:A:LYS:H	7	0.13
(1,456)	1:295:A:ILE:HG21	1:300:A:LYS:H	18	0.13
(1,456)	1:295:A:ILE:HG22	1:300:A:LYS:H	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,456)	1:295:A:ILE:HG23	1:300:A:LYS:H	18	0.13
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	17	0.13
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	6	0.13
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	14	0.13
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	11	0.13
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	6	0.13
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	7	0.13
(1,34)	1:302:A:TYR:HD1	1:309:A:ARG:H	4	0.13
(1,34)	1:302:A:TYR:HD2	1:309:A:ARG:H	4	0.13
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	3	0.13
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	9	0.13
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	11	0.13
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	5	0.12
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	8	0.12
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	16	0.12
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	17	0.12
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	16	0.12
(2,90)	1:296:A:ILE:H	1:292:A:ILE:O	17	0.12
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	16	0.12
(2,84)	1:282:A:GLU:H	1:278:A:LYS:O	5	0.12
(2,84)	1:282:A:GLU:H	1:278:A:LYS:O	15	0.12
(2,84)	1:282:A:GLU:H	1:278:A:LYS:O	17	0.12
(2,62)	1:262:A:GLU:H	1:258:A:VAL:O	10	0.12
(2,62)	1:262:A:GLU:H	1:258:A:VAL:O	15	0.12
(1,2001)	1:319:A:TYR:HE2	1:283:A:ILE:HB	8	0.12
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	19	0.12
(1,1842)	1:334:A:LEU:HB2	1:335:A:LEU:H	9	0.12
(1,1842)	1:334:A:LEU:HB3	1:335:A:LEU:H	9	0.12
(1,1842)	1:334:A:LEU:HB2	1:335:A:LEU:H	12	0.12
(1,1842)	1:334:A:LEU:HB3	1:335:A:LEU:H	12	0.12
(1,1813)	1:328:A:PRO:HG2	1:329:A:ASP:H	2	0.12
(1,1813)	1:328:A:PRO:HG3	1:329:A:ASP:H	2	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD11	15	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD12	15	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD13	15	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD21	15	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD22	15	0.12
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD23	15	0.12
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD11	15	0.12
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD12	15	0.12
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD13	15	0.12
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD21	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD22	15	0.12
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD23	15	0.12
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	8	0.12
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	8	0.12
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	14	0.12
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	14	0.12
(1,1641)	1:276:A:VAL:HG11	1:329:A:ASP:HA	20	0.12
(1,1641)	1:276:A:VAL:HG12	1:329:A:ASP:HA	20	0.12
(1,1641)	1:276:A:VAL:HG13	1:329:A:ASP:HA	20	0.12
(1,1641)	1:276:A:VAL:HG21	1:329:A:ASP:HA	20	0.12
(1,1641)	1:276:A:VAL:HG22	1:329:A:ASP:HA	20	0.12
(1,1641)	1:276:A:VAL:HG23	1:329:A:ASP:HA	20	0.12
(1,1540)	1:361:A:TRP:HZ2	1:365:A:LYS:HE2	4	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	4	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	5	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	10	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	14	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	16	0.12
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	18	0.12
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	8	0.12
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	11	0.12
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	8	0.12
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	10	0.12
(1,1161)	1:272:A:SER:HA	1:324:A:GLY:HA3	4	0.12
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG11	10	0.12
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG12	10	0.12
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG13	10	0.12
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG11	10	0.12
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG12	10	0.12
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG13	10	0.12
(1,927)	1:296:A:ILE:HG12	1:334:A:LEU:HA	5	0.12
(1,927)	1:296:A:ILE:HG13	1:334:A:LEU:HA	5	0.12
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	3	0.12
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	13	0.12
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	14	0.12
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	17	0.12
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	19	0.12
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	5	0.12
(1,766)	1:261:A:GLU:HG2	1:265:A:LYS:HE2	6	0.12
(1,766)	1:261:A:GLU:HG2	1:265:A:LYS:HE3	6	0.12
(1,766)	1:261:A:GLU:HG3	1:265:A:LYS:HE2	6	0.12
(1,766)	1:261:A:GLU:HG3	1:265:A:LYS:HE3	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	1	0.12
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	12	0.12
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD2	1	0.12
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD3	1	0.12
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	8	0.12
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	8	0.12
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	16	0.12
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	16	0.12
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD2	19	0.12
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD3	19	0.12
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	6	0.12
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	12	0.12
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	16	0.12
(1,571)	1:303:A:ALA:H	1:338:A:ASP:H	20	0.12
(1,525)	1:295:A:ILE:H	1:296:A:ILE:HB	2	0.12
(1,525)	1:295:A:ILE:H	1:296:A:ILE:HB	7	0.12
(1,510)	1:364:A:VAL:HA	1:366:A:LYS:H	19	0.12
(1,497)	1:280:A:LYS:HE2	1:297:A:CYS:H	8	0.12
(1,497)	1:280:A:LYS:HE3	1:297:A:CYS:H	8	0.12
(1,467)	1:299:A:ASN:HB3	1:300:A:LYS:H	13	0.12
(1,456)	1:295:A:ILE:HG21	1:300:A:LYS:H	2	0.12
(1,456)	1:295:A:ILE:HG22	1:300:A:LYS:H	2	0.12
(1,456)	1:295:A:ILE:HG23	1:300:A:LYS:H	2	0.12
(1,456)	1:295:A:ILE:HG21	1:300:A:LYS:H	15	0.12
(1,456)	1:295:A:ILE:HG22	1:300:A:LYS:H	15	0.12
(1,456)	1:295:A:ILE:HG23	1:300:A:LYS:H	15	0.12
(1,408)	1:303:A:ALA:HA	1:307:A:ILE:H	16	0.12
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	11	0.12
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	12	0.12
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	18	0.12
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	1	0.12
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	8	0.12
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	13	0.12
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	8	0.12
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	9	0.12
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	10	0.12
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	12	0.12
(1,296)	1:282:A:GLU:H	1:285:A:THR:HG21	20	0.12
(1,296)	1:282:A:GLU:H	1:285:A:THR:HG22	20	0.12
(1,296)	1:282:A:GLU:H	1:285:A:THR:HG23	20	0.12
(1,111)	1:283:A:ILE:HG21	1:286:A:LYS:H	20	0.12
(1,111)	1:283:A:ILE:HG22	1:286:A:LYS:H	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,111)	1:283:A:ILE:HG23	1:286:A:LYS:H	20	0.12
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG2	18	0.12
(1,79)	1:258:A:VAL:H	1:259:A:GLU:HG3	18	0.12
(1,31)	1:311:A:ARG:H	1:311:A:ARG:HG2	3	0.12
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	4	0.12
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	7	0.12
(1,12)	1:267:A:LEU:HA	1:361:A:TRP:HE1	18	0.12
(1,7)	1:314:A:TRP:HE1	1:363:A:VAL:HB	8	0.12
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	1	0.11
(2,162)	1:350:A:GLN:H	1:346:A:LYS:O	17	0.11
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	2	0.11
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	10	0.11
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	11	0.11
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	18	0.11
(2,143)	1:359:A:LYS:N	1:355:A:ILE:O	15	0.11
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	9	0.11
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	12	0.11
(2,130)	1:366:A:LYS:H	1:362:A:SER:O	13	0.11
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	1	0.11
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	6	0.11
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	16	0.11
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	19	0.11
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	1	0.11
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	9	0.11
(2,88)	1:297:A:CYS:H	1:293:A:LYS:O	10	0.11
(2,86)	1:280:A:LYS:H	1:276:A:VAL:O	12	0.11
(2,80)	1:284:A:CYS:H	1:280:A:LYS:O	17	0.11
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	7	0.11
(2,76)	1:266:A:GLU:H	1:262:A:GLU:O	16	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	5	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	7	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	12	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	16	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	18	0.11
(2,70)	1:269:A:LYS:H	1:265:A:LYS:O	20	0.11
(2,66)	1:260:A:PHE:H	1:256:A:THR:O	12	0.11
(2,62)	1:262:A:GLU:H	1:258:A:VAL:O	2	0.11
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	1	0.11
(1,1843)	1:334:A:LEU:HD11	1:335:A:LEU:H	6	0.11
(1,1843)	1:334:A:LEU:HD12	1:335:A:LEU:H	6	0.11
(1,1843)	1:334:A:LEU:HD13	1:335:A:LEU:H	6	0.11
(1,1843)	1:334:A:LEU:HD21	1:335:A:LEU:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1843)	1:334:A:LEU:HD22	1:335:A:LEU:H	6	0.11
(1,1843)	1:334:A:LEU:HD23	1:335:A:LEU:H	6	0.11
(1,1843)	1:334:A:LEU:HD11	1:335:A:LEU:H	8	0.11
(1,1843)	1:334:A:LEU:HD12	1:335:A:LEU:H	8	0.11
(1,1843)	1:334:A:LEU:HD13	1:335:A:LEU:H	8	0.11
(1,1843)	1:334:A:LEU:HD21	1:335:A:LEU:H	8	0.11
(1,1843)	1:334:A:LEU:HD22	1:335:A:LEU:H	8	0.11
(1,1843)	1:334:A:LEU:HD23	1:335:A:LEU:H	8	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD11	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD12	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD13	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD21	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD22	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD23	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD11	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD12	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD13	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD21	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD22	7	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD23	7	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD11	19	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD12	19	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD13	19	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD21	19	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD22	19	0.11
(1,1775)	1:319:A:TYR:HB2	1:320:A:LEU:HD23	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD11	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD12	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD13	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD21	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD22	19	0.11
(1,1775)	1:319:A:TYR:HB3	1:320:A:LEU:HD23	19	0.11
(1,1679)	1:281:A:GLU:HG2	1:283:A:ILE:H	12	0.11
(1,1679)	1:281:A:GLU:HG3	1:283:A:ILE:H	12	0.11
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	3	0.11
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	13	0.11
(1,1531)	1:314:A:TRP:HZ2	1:363:A:VAL:HA	15	0.11
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	7	0.11
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	11	0.11
(1,1512)	1:314:A:TRP:HA	1:314:A:TRP:HZ3	19	0.11
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	7	0.11
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	6	0.11
(1,1439)	1:353:A:PHE:HA	1:353:A:PHE:HD1	18	0.11
(1,1429)	1:292:A:ILE:HD11	1:320:A:LEU:H	19	0.11
(1,1429)	1:292:A:ILE:HD12	1:320:A:LEU:H	19	0.11
(1,1429)	1:292:A:ILE:HD13	1:320:A:LEU:H	19	0.11
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE1	10	0.11
(1,1327)	1:296:A:ILE:HG21	1:319:A:TYR:HE2	10	0.11
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE1	10	0.11
(1,1327)	1:296:A:ILE:HG22	1:319:A:TYR:HE2	10	0.11
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE1	10	0.11
(1,1327)	1:296:A:ILE:HG23	1:319:A:TYR:HE2	10	0.11
(1,1315)	1:317:A:ILE:HG21	1:321:A:MET:HG2	7	0.11
(1,1315)	1:317:A:ILE:HG22	1:321:A:MET:HG2	7	0.11
(1,1315)	1:317:A:ILE:HG23	1:321:A:MET:HG2	7	0.11
(1,1315)	1:317:A:ILE:HG21	1:321:A:MET:HG2	15	0.11
(1,1315)	1:317:A:ILE:HG22	1:321:A:MET:HG2	15	0.11
(1,1315)	1:317:A:ILE:HG23	1:321:A:MET:HG2	15	0.11
(1,1315)	1:317:A:ILE:HG21	1:321:A:MET:HG2	19	0.11
(1,1315)	1:317:A:ILE:HG22	1:321:A:MET:HG2	19	0.11
(1,1315)	1:317:A:ILE:HG23	1:321:A:MET:HG2	19	0.11
(1,1315)	1:317:A:ILE:HG21	1:321:A:MET:HG2	20	0.11
(1,1315)	1:317:A:ILE:HG22	1:321:A:MET:HG2	20	0.11
(1,1315)	1:317:A:ILE:HG23	1:321:A:MET:HG2	20	0.11
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	4	0.11
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	9	0.11
(1,1161)	1:272:A:SER:HA	1:324:A:GLY:HA3	14	0.11
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	9	0.11
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	9	0.11
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	9	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE1	7	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE2	7	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE3	7	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE1	7	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE2	7	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE3	7	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE1	7	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE2	7	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE3	7	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE1	20	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE2	20	0.11
(1,1001)	1:267:A:LEU:HD11	1:321:A:MET:HE3	20	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE1	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE2	20	0.11
(1,1001)	1:267:A:LEU:HD12	1:321:A:MET:HE3	20	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE1	20	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE2	20	0.11
(1,1001)	1:267:A:LEU:HD13	1:321:A:MET:HE3	20	0.11
(1,927)	1:296:A:ILE:HG12	1:334:A:LEU:HA	9	0.11
(1,927)	1:296:A:ILE:HG13	1:334:A:LEU:HA	9	0.11
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	7	0.11
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	10	0.11
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB2	8	0.11
(1,853)	1:282:A:GLU:HB3	1:286:A:LYS:HB3	8	0.11
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	7	0.11
(1,831)	1:257:A:VAL:HB	1:258:A:VAL:HA	15	0.11
(1,831)	1:257:A:VAL:HB	1:258:A:VAL:HA	17	0.11
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	3	0.11
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	4	0.11
(1,762)	1:262:A:GLU:HA	1:262:A:GLU:HG2	20	0.11
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	19	0.11
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	19	0.11
(1,754)	1:343:A:GLU:H	1:343:A:GLU:HG3	11	0.11
(1,696)	1:270:A:ARG:HD3	1:361:A:TRP:HH2	1	0.11
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD2	18	0.11
(1,684)	1:308:A:ASP:HA	1:311:A:ARG:HD3	18	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	6	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	6	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	18	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	18	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	20	0.11
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	20	0.11
(1,656)	1:301:A:THR:H	1:305:A:VAL:H	10	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD2	9	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD3	9	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD2	13	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD3	13	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD2	14	0.11
(1,618)	1:362:A:SER:H	1:365:A:LYS:HD3	14	0.11
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	5	0.11
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	7	0.11
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	8	0.11
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	1	0.11
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	2	0.11
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	8	0.11
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	10	0.11
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	14	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	3	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	4	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	7	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	10	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	11	0.11
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	18	0.11
(1,520)	1:292:A:ILE:HD11	1:296:A:ILE:H	17	0.11
(1,520)	1:292:A:ILE:HD12	1:296:A:ILE:H	17	0.11
(1,520)	1:292:A:ILE:HD13	1:296:A:ILE:H	17	0.11
(1,514)	1:296:A:ILE:H	1:299:A:ASN:H	17	0.11
(1,479)	1:280:A:LYS:H	1:283:A:ILE:HG13	7	0.11
(1,437)	1:311:A:ARG:HG3	1:314:A:TRP:H	11	0.11
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	2	0.11
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	4	0.11
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	7	0.11
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	8	0.11
(1,408)	1:303:A:ALA:HA	1:307:A:ILE:H	14	0.11
(1,408)	1:303:A:ALA:HA	1:307:A:ILE:H	19	0.11
(1,406)	1:303:A:ALA:H	1:307:A:ILE:H	10	0.11
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	3	0.11
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	10	0.11
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	14	0.11
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	6	0.11
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	3	0.11
(1,336)	1:321:A:MET:H	1:361:A:TRP:HZ3	13	0.11
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	5	0.11
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	7	0.11
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	12	0.11
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	20	0.11
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	4	0.11
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	8	0.11
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	18	0.11
(1,126)	1:278:A:LYS:HE2	1:279:A:ILE:H	2	0.11
(1,126)	1:278:A:LYS:HE3	1:279:A:ILE:H	2	0.11
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	17	0.11
(1,104)	1:285:A:THR:HA	1:286:A:LYS:H	11	0.11
(1,80)	1:257:A:VAL:HB	1:258:A:VAL:H	17	0.11
(1,67)	1:357:A:LEU:HG	1:359:A:LYS:H	15	0.11
(1,38)	1:321:A:MET:H	1:325:A:VAL:H	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:311:A:ARG:H	1:311:A:ARG:HG2	7	0.11
(1,22)	1:308:A:ASP:H	1:309:A:ARG:HA	4	0.11
(1,22)	1:308:A:ASP:H	1:309:A:ARG:HA	7	0.11
(1,11)	1:266:A:GLU:HA	1:361:A:TRP:HE1	14	0.11
(2,160)	1:351:A:LYS:H	1:347:A:TRP:O	6	0.1
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	1	0.1
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	4	0.1
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	12	0.1
(2,154)	1:354:A:VAL:H	1:350:A:GLN:O	14	0.1
(2,128)	1:367:A:TYR:H	1:363:A:VAL:O	10	0.1
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	2	0.1
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	3	0.1
(2,114)	1:314:A:TRP:H	1:310:A:SER:O	19	0.1
(2,100)	1:321:A:MET:H	1:317:A:ILE:O	8	0.1
(2,100)	1:321:A:MET:H	1:317:A:ILE:O	10	0.1
(2,100)	1:321:A:MET:H	1:317:A:ILE:O	16	0.1
(2,89)	1:296:A:ILE:N	1:292:A:ILE:O	15	0.1
(2,84)	1:282:A:GLU:H	1:278:A:LYS:O	13	0.1
(2,68)	1:270:A:ARG:H	1:266:A:GLU:O	16	0.1
(2,68)	1:270:A:ARG:H	1:266:A:GLU:O	17	0.1
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA2	14	0.1
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA3	14	0.1
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA2	17	0.1
(1,1994)	1:310:A:SER:HA	1:312:A:GLY:HA3	17	0.1
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	7	0.1
(1,1964)	1:362:A:SER:HA	1:359:A:LYS:HA	16	0.1
(1,1931)	1:323:A:HIS:HD2	1:286:A:LYS:HG2	4	0.1
(1,1931)	1:323:A:HIS:HD2	1:286:A:LYS:HG3	4	0.1
(1,1929)	1:323:A:HIS:HD2	1:286:A:LYS:HE2	7	0.1
(1,1929)	1:323:A:HIS:HD2	1:286:A:LYS:HE3	7	0.1
(1,1764)	1:318:A:LEU:HD11	1:356:A:THR:HA	11	0.1
(1,1764)	1:318:A:LEU:HD12	1:356:A:THR:HA	11	0.1
(1,1764)	1:318:A:LEU:HD13	1:356:A:THR:HA	11	0.1
(1,1764)	1:318:A:LEU:HD21	1:356:A:THR:HA	11	0.1
(1,1764)	1:318:A:LEU:HD22	1:356:A:THR:HA	11	0.1
(1,1764)	1:318:A:LEU:HD23	1:356:A:THR:HA	11	0.1
(1,1505)	1:361:A:TRP:HZ3	1:365:A:LYS:H	12	0.1
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	3	0.1
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	9	0.1
(1,1497)	1:312:A:GLY:HA3	1:315:A:HIS:HD2	13	0.1
(1,1439)	1:353:A:PHE:HA	1:353:A:PHE:HD1	1	0.1
(1,1275)	1:303:A:ALA:HB1	1:304:A:ASP:HA	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1275)	1:303:A:ALA:HB2	1:304:A:ASP:HA	4	0.1
(1,1275)	1:303:A:ALA:HB3	1:304:A:ASP:HA	4	0.1
(1,1275)	1:303:A:ALA:HB1	1:304:A:ASP:HA	16	0.1
(1,1275)	1:303:A:ALA:HB2	1:304:A:ASP:HA	16	0.1
(1,1275)	1:303:A:ALA:HB3	1:304:A:ASP:HA	16	0.1
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	6	0.1
(1,1271)	1:313:A:ASP:HA	1:316:A:VAL:HA	19	0.1
(1,1176)	1:302:A:TYR:HA	1:336:A:PRO:HB2	5	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	6	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	6	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	6	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	8	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	8	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	8	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	12	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	12	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	12	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG11	17	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG12	17	0.1
(1,1158)	1:353:A:PHE:HD1	1:354:A:VAL:HG13	17	0.1
(1,1157)	1:354:A:VAL:HG11	1:358:A:SER:H	3	0.1
(1,1157)	1:354:A:VAL:HG12	1:358:A:SER:H	3	0.1
(1,1157)	1:354:A:VAL:HG13	1:358:A:SER:H	3	0.1
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE2	9	0.1
(1,1154)	1:268:A:VAL:HG21	1:269:A:LYS:HE3	9	0.1
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE2	9	0.1
(1,1154)	1:268:A:VAL:HG22	1:269:A:LYS:HE3	9	0.1
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE2	9	0.1
(1,1154)	1:268:A:VAL:HG23	1:269:A:LYS:HE3	9	0.1
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG11	12	0.1
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG12	12	0.1
(1,1071)	1:302:A:TYR:HE1	1:316:A:VAL:HG13	12	0.1
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG11	12	0.1
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG12	12	0.1
(1,1071)	1:302:A:TYR:HE2	1:316:A:VAL:HG13	12	0.1
(1,1012)	1:314:A:TRP:HH2	1:359:A:LYS:HG2	2	0.1
(1,895)	1:280:A:LYS:HB3	1:280:A:LYS:HD2	12	0.1
(1,895)	1:280:A:LYS:HB3	1:280:A:LYS:HD3	12	0.1
(1,887)	1:329:A:ASP:HA	1:333:A:GLU:HB2	5	0.1
(1,840)	1:274:A:LYS:HA	1:278:A:LYS:HB2	8	0.1
(1,833)	1:275:A:PRO:HB2	1:278:A:LYS:HB3	20	0.1
(1,831)	1:257:A:VAL:HB	1:258:A:VAL:HA	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,757)	1:261:A:GLU:HG2	1:262:A:GLU:H	12	0.1
(1,757)	1:261:A:GLU:HG3	1:262:A:GLU:H	12	0.1
(1,754)	1:343:A:GLU:H	1:343:A:GLU:HG3	3	0.1
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE2	1	0.1
(1,681)	1:342:A:LYS:HA	1:342:A:LYS:HE3	1	0.1
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	2	0.1
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	3	0.1
(1,617)	1:359:A:LYS:HG2	1:362:A:SER:H	13	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	5	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	9	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	11	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	16	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	17	0.1
(1,614)	1:361:A:TRP:HB2	1:362:A:SER:H	19	0.1
(1,605)	1:339:A:SER:H	1:343:A:GLU:H	12	0.1
(1,564)	1:282:A:GLU:HB3	1:284:A:CYS:H	9	0.1
(1,514)	1:296:A:ILE:H	1:299:A:ASN:H	11	0.1
(1,495)	1:295:A:ILE:HA	1:297:A:CYS:H	12	0.1
(1,479)	1:280:A:LYS:H	1:283:A:ILE:HG13	2	0.1
(1,451)	1:279:A:ILE:HA	1:281:A:GLU:H	3	0.1
(1,437)	1:311:A:ARG:HG3	1:314:A:TRP:H	17	0.1
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	5	0.1
(1,416)	1:302:A:TYR:H	1:304:A:ASP:H	11	0.1
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	1	0.1
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	6	0.1
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	13	0.1
(1,389)	1:316:A:VAL:HB	1:318:A:LEU:H	16	0.1
(1,342)	1:320:A:LEU:HB3	1:321:A:MET:H	4	0.1
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	14	0.1
(1,327)	1:267:A:LEU:HG	1:268:A:VAL:H	15	0.1
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	9	0.1
(1,243)	1:360:A:ALA:HA	1:364:A:VAL:H	10	0.1
(1,105)	1:284:A:CYS:HA	1:286:A:LYS:H	3	0.1
(1,31)	1:311:A:ARG:H	1:311:A:ARG:HG2	15	0.1
(1,7)	1:314:A:TRP:HE1	1:363:A:VAL:HB	12	0.1

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

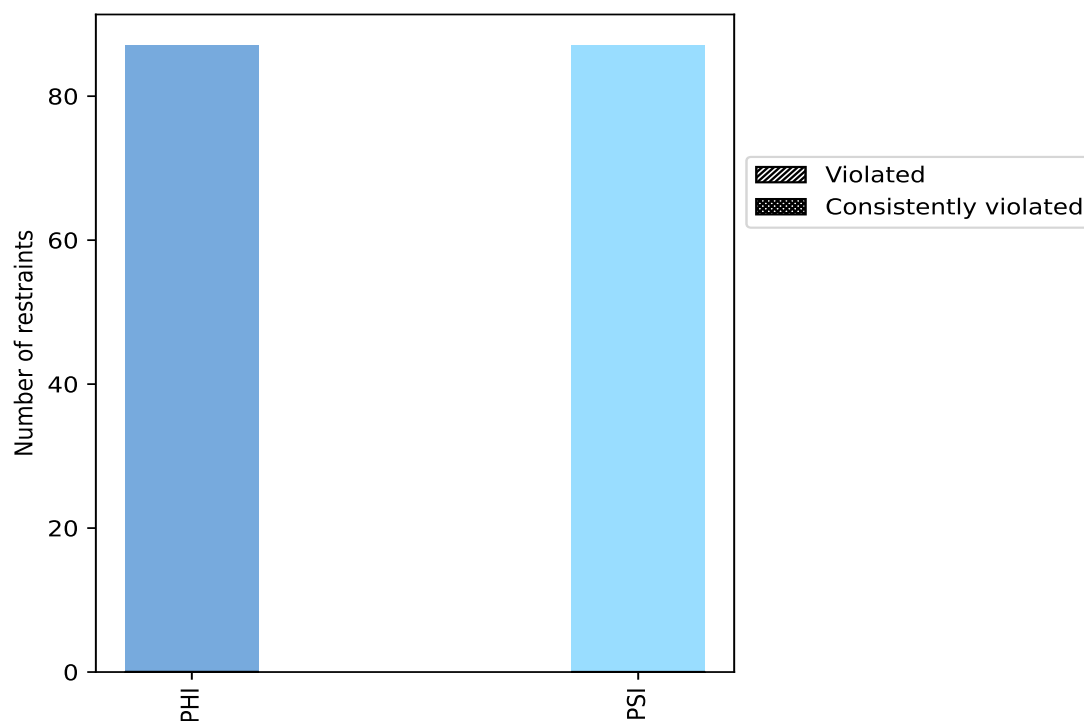
10.1 Summary of dihedral-angle violations [i](#)

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	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	87	50.0	0	0.0	0.0	0	0.0	0.0
PSI	87	50.0	0	0.0	0.0	0	0.0	0.0
Total	174	100.0	0	0.0	0.0	0	0.0	0.0

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ 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](#)

No violations found

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

No violations found

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

No violations found

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

No violations found