



Full wwPDB NMR Structure Validation Report ⓘ

Jun 5, 2023 – 01:28 PM EDT

PDB ID : 2M8G
BMRB ID : 19251
Title : Structure, function, and tethering of DNA-binding domains in 54 transcriptional activators
Authors : Hong, E.; Wemmer, D.
Deposited on : 2013-05-19

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.33

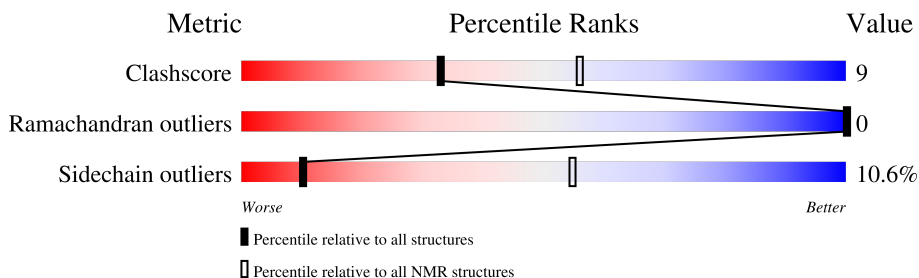
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 75%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 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	X	70	 41% 16% 43%

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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	X:454-X:493 (40)	0.11	11

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

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

The models can be grouped into 2 clusters and 5 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1101 atoms, of which 515 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Transcriptional regulator.

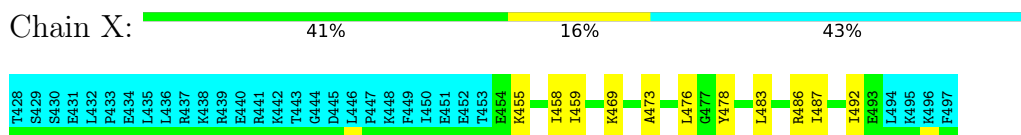
Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	X	70	1101	377	515	104	105	0

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: Transcriptional regulator

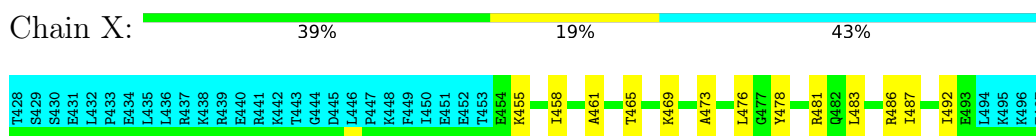


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

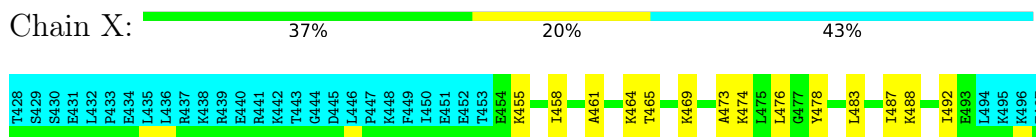
4.2.1 Score per residue for model 1

- Molecule 1: Transcriptional regulator



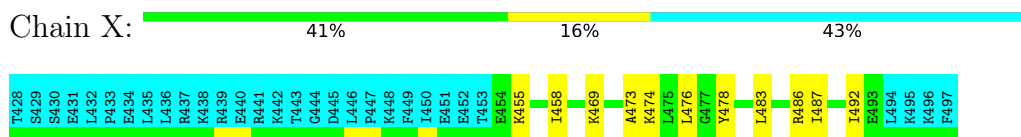
4.2.2 Score per residue for model 2

- Molecule 1: Transcriptional regulator



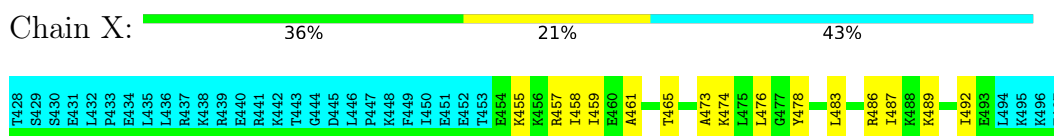
4.2.3 Score per residue for model 3

- Molecule 1: Transcriptional regulator



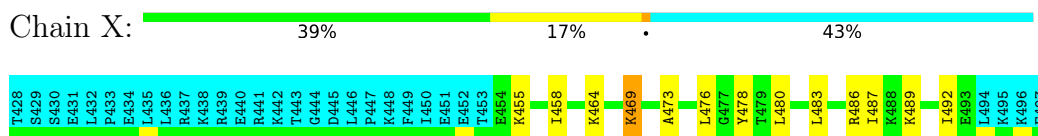
4.2.4 Score per residue for model 4

- Molecule 1: Transcriptional regulator



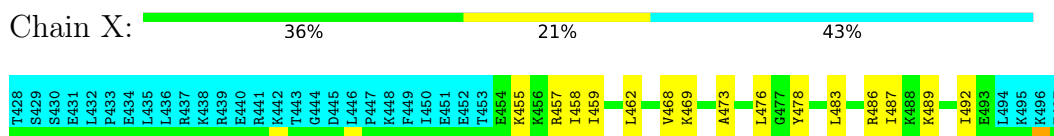
4.2.5 Score per residue for model 5

- Molecule 1: Transcriptional regulator



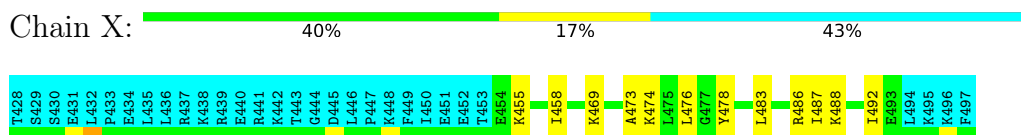
4.2.6 Score per residue for model 6

- Molecule 1: Transcriptional regulator



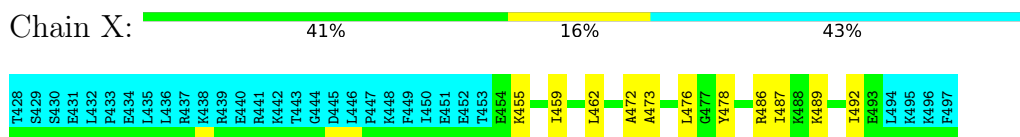
4.2.7 Score per residue for model 7

- Molecule 1: Transcriptional regulator



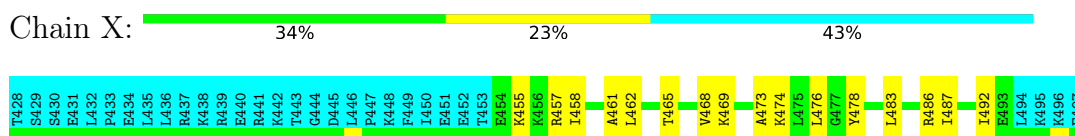
4.2.8 Score per residue for model 8

- Molecule 1: Transcriptional regulator



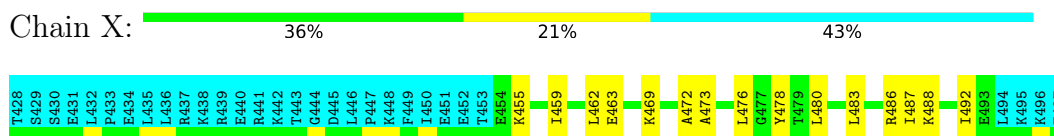
4.2.9 Score per residue for model 9

- Molecule 1: Transcriptional regulator



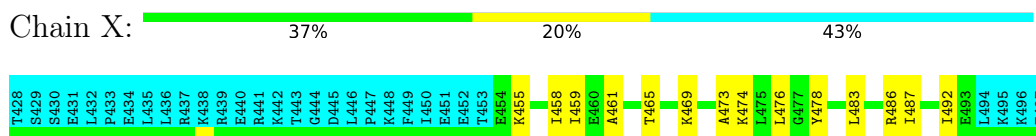
4.2.10 Score per residue for model 10

- Molecule 1: Transcriptional regulator



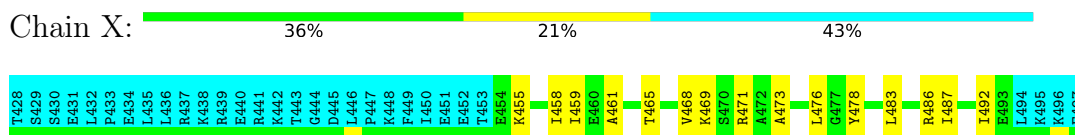
4.2.11 Score per residue for model 11 (medoid)

- Molecule 1: Transcriptional regulator



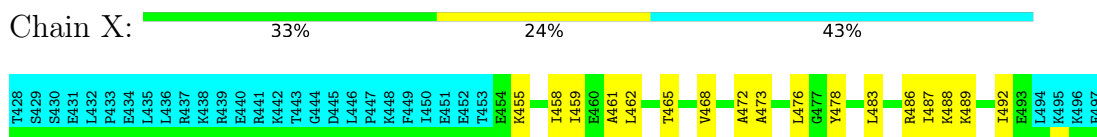
4.2.12 Score per residue for model 12

- Molecule 1: Transcriptional regulator



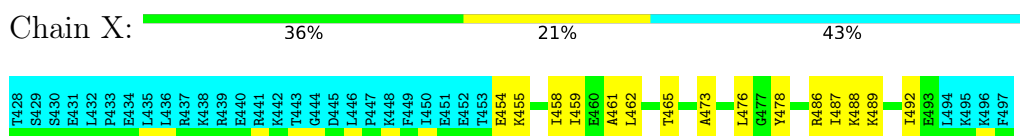
4.2.13 Score per residue for model 13

- Molecule 1: Transcriptional regulator



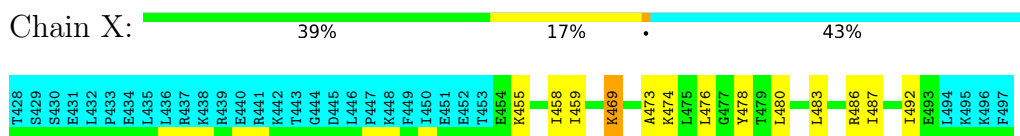
4.2.14 Score per residue for model 14

- Molecule 1: Transcriptional regulator



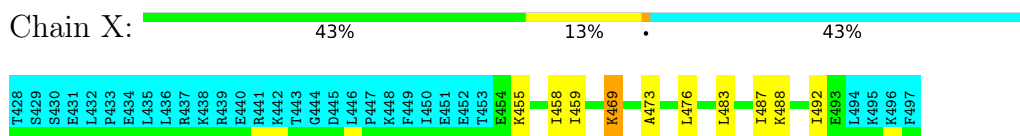
4.2.15 Score per residue for model 15

- Molecule 1: Transcriptional regulator



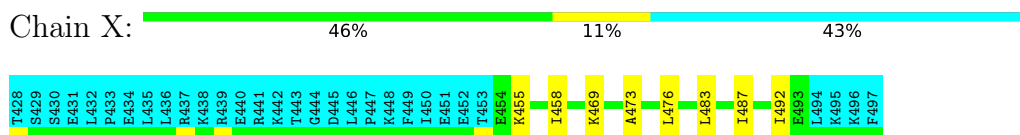
4.2.16 Score per residue for model 16

- Molecule 1: Transcriptional regulator



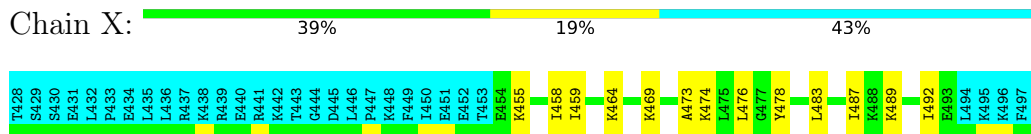
4.2.17 Score per residue for model 17

- Molecule 1: Transcriptional regulator



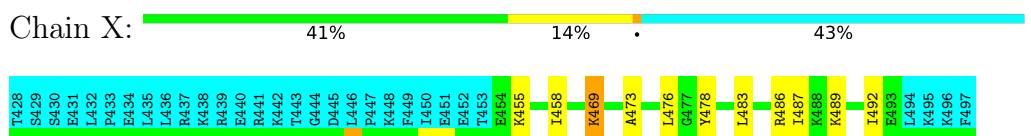
4.2.18 Score per residue for model 18

- Molecule 1: Transcriptional regulator



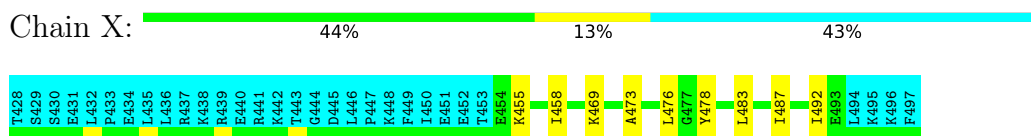
4.2.19 Score per residue for model 19

- Molecule 1: Transcriptional regulator



4.2.20 Score per residue for model 20

- Molecule 1: Transcriptional regulator



5 Refinement protocol and experimental data overview

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

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

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

Software name	Classification	Version
CYANA	structure solution	
MOLMOL	refinement	
CYANA	refinement	

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	658
Number of shifts mapped to atoms	577
Number of unparsed shifts	0
Number of shifts with mapping errors	81
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	75%

6 Model quality

6.1 Standard geometry

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

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	X	334	301	366	6±1
All	All	6680	6020	7320	129

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:X:458:ILE:HD13	1:X:476:LEU:HD13	0.67	1.65	16	18
1:X:469:LYS:HG3	1:X:483:LEU:HD23	0.65	1.67	6	1
1:X:487:ILE:HD13	1:X:492:ILE:HD12	0.64	1.69	12	20
1:X:459:ILE:HD12	1:X:492:ILE:HG23	0.59	1.73	10	11
1:X:469:LYS:CE	1:X:480:LEU:HD13	0.58	2.28	15	1
1:X:473:ALA:HB2	1:X:483:LEU:HD22	0.56	1.78	13	3
1:X:469:LYS:CG	1:X:483:LEU:HD23	0.55	2.31	6	2
1:X:473:ALA:HA	1:X:483:LEU:HD13	0.55	1.79	12	13
1:X:473:ALA:HB1	1:X:478:TYR:O	0.55	2.02	13	18
1:X:469:LYS:HG2	1:X:483:LEU:HD23	0.51	1.82	15	2
1:X:480:LEU:HD12	1:X:480:LEU:O	0.51	2.06	15	1
1:X:469:LYS:O	1:X:483:LEU:HD22	0.51	2.06	16	13
1:X:472:ALA:O	1:X:476:LEU:HD12	0.51	2.06	10	3
1:X:469:LYS:HE2	1:X:480:LEU:HD13	0.49	1.83	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:X:473:ALA:CA	1:X:483:LEU:HD13	0.47	2.38	2	7
1:X:461:ALA:O	1:X:465:THR:HG23	0.47	2.09	1	8
1:X:462:LEU:HD23	1:X:468:VAL:O	0.47	2.10	9	3
1:X:468:VAL:HG21	1:X:471:ARG:CZ	0.46	2.40	12	1
1:X:462:LEU:HD11	1:X:487:ILE:HD11	0.46	1.88	8	3

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	X	40/70 (57%)	40±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	800/1400 (57%)	800 (100%)	0 (0%)	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	X	34/63 (54%)	30±1 (89±4%)	4±1 (11±4%)	10	55
All	All	680/1260 (54%)	608 (89%)	72 (11%)	10	55

All 12 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	X	455	LYS	20
1	X	486	ARG	15
1	X	474	LYS	8

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Mol	Chain	Res	Type	Models (Total)
1	X	489	LYS	8
1	X	488	LYS	6
1	X	469	LYS	4
1	X	464	LYS	3
1	X	457	ARG	3
1	X	480	LEU	2
1	X	481	ARG	1
1	X	463	GLU	1
1	X	454	GLU	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 monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 75% for the well-defined parts and 62% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	658
Number of shifts mapped to atoms	577
Number of unparsed shifts	0
Number of shifts with mapping errors	81
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

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

- No matching atom found in the structure. All 81 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	X	430	SER	HB2	3.898	0.02	1
1	X	431	GLU	HB2	1.938	0.02	1
1	X	431	GLU	HG2	2.254	0.02	2
1	X	432	LEU	HB2	1.619	0.02	1
1	X	433	PRO	HB2	2.33	0.02	2
1	X	433	PRO	HG2	2.062	0.02	1
1	X	433	PRO	HD2	3.897	0.02	2
1	X	434	GLU	HB2	2.031	0.02	1
1	X	445	ASP	HB2	2.722	0.02	2
1	X	448	LYS	HB2	1.789	0.02	1
1	X	449	PHE	HB2	3.198	0.02	1
1	X	450	ILE	HG12	1.501	0.02	2
1	X	451	GLU	HB2	2.113	0.02	1
1	X	451	GLU	HG2	2.393	0.02	2

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	X	452	GLU	HB2	2.093	0.02	2
1	X	454	GLU	HB2	2.123	0.02	1
1	X	454	GLU	HG2	2.478	0.02	1
1	X	455	LYS	HB2	1.68	0.02	2
1	X	455	LYS	HG2	1.204	0.02	2
1	X	455	LYS	HD2	1.683	0.02	1
1	X	455	LYS	HE2	2.957	0.02	2
1	X	456	LYS	HB2	1.897	0.02	1
1	X	456	LYS	HG2	1.573	0.02	2
1	X	457	ARG	HB2	1.978	0.02	2
1	X	457	ARG	HG2	1.77	0.02	2
1	X	457	ARG	HD2	3.234	0.02	2
1	X	458	ILE	HG12	2.144	0.02	2
1	X	459	ILE	HG12	1.847	0.02	2
1	X	460	GLU	HB2	2.122	0.02	2
1	X	460	GLU	HG2	2.465	0.02	2
1	X	462	LEU	HB2	1.693	0.02	2
1	X	463	GLU	HB2	2.235	0.02	2
1	X	463	GLU	HG2	2.542	0.02	2
1	X	464	LYS	HB2	1.957	0.02	2
1	X	464	LYS	HG2	1.616	0.02	2
1	X	464	LYS	HD2	1.668	0.02	1
1	X	467	TYR	HB2	3.343	0.02	2
1	X	471	ARG	HB2	1.993	0.02	2
1	X	471	ARG	HG2	1.833	0.02	2
1	X	471	ARG	HD2	3.281	0.02	1
1	X	474	LYS	HB2	1.984	0.02	1
1	X	474	LYS	HG2	1.623	0.02	2
1	X	474	LYS	HD2	1.755	0.02	1
1	X	475	LEU	HB2	1.814	0.02	2
1	X	476	LEU	HB2	1.378	0.02	2
1	X	478	TYR	HB2	3.7	0.02	2
1	X	480	LEU	HB2	1.721	0.02	1
1	X	481	ARG	HB2	1.874	0.02	2
1	X	481	ARG	HG2	1.735	0.02	2
1	X	481	ARG	HD2	3.214	0.02	1
1	X	482	GLN	HB2	2.326	0.02	2
1	X	482	GLN	HG2	2.364	0.02	2
1	X	483	LEU	HB2	2.26	0.02	2
1	X	484	ASP	HB2	2.767	0.02	2
1	X	485	TYR	HB2	3.245	0.02	2

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	X	486	ARG	HB2	1.764	0.02	1
1	X	486	ARG	HG2	1.904	0.02	2
1	X	486	ARG	HD2	3.04	0.02	2
1	X	487	ILE	HG12	1.891	0.02	2
1	X	488	LYS	HB2	1.852	0.02	2
1	X	488	LYS	HG2	1.468	0.02	2
1	X	488	LYS	HD2	1.674	0.02	1
1	X	488	LYS	HE2	2.968	0.02	1
1	X	489	LYS	HB2	1.259	0.02	2
1	X	489	LYS	HG2	1.086	0.02	2
1	X	489	LYS	HD2	1.393	0.02	2
1	X	489	LYS	HE2	2.843	0.02	1
1	X	490	TYR	HB2	3.265	0.02	2
1	X	492	ILE	HG12	1.703	0.02	2
1	X	493	GLU	HB2	1.942	0.02	1
1	X	493	GLU	HG2	2.267	0.02	2
1	X	494	LEU	HB2	1.739	0.02	2
1	X	495	LYS	HB2	1.258	0.02	2
1	X	495	LYS	HG2	0.9721	0.02	1
1	X	495	LYS	HD2	1.48	0.02	1
1	X	495	LYS	HE2	2.836	0.02	1
1	X	496	LYS	HB2	1.716	0.02	2
1	X	496	LYS	HG2	1.313	0.02	1
1	X	496	LYS	HD2	1.641	0.02	1
1	X	496	LYS	HE2	2.966	0.02	1
1	X	497	PHE	HB2	3.198	0.02	2

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
$^{13}\text{C}_\alpha$	61	-1.64 ± 0.18	Should be checked
$^{13}\text{C}_\beta$	55	-0.83 ± 0.22	Should be checked
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	57	-0.81 ± 0.21	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 75%, i.e. 460 atoms were assigned a chemical

shift out of a possible 610. 0 out of 6 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	157/203 (77%)	79/83 (95%)	39/80 (49%)	39/40 (98%)
Sidechain	287/371 (77%)	200/239 (84%)	86/112 (77%)	1/20 (5%)
Aromatic	16/36 (44%)	16/16 (100%)	0/20 (0%)	0/0 (—%)
Overall	460/610 (75%)	295/338 (87%)	125/212 (59%)	40/60 (67%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 62%, i.e. 658 atoms were assigned a chemical shift out of a possible 1061. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	234/350 (67%)	116/142 (82%)	61/140 (44%)	57/68 (84%)
Sidechain	402/655 (61%)	275/420 (65%)	126/201 (63%)	1/34 (3%)
Aromatic	22/56 (39%)	22/26 (85%)	0/30 (0%)	0/0 (—%)
Overall	658/1061 (62%)	413/588 (70%)	187/371 (50%)	58/102 (57%)

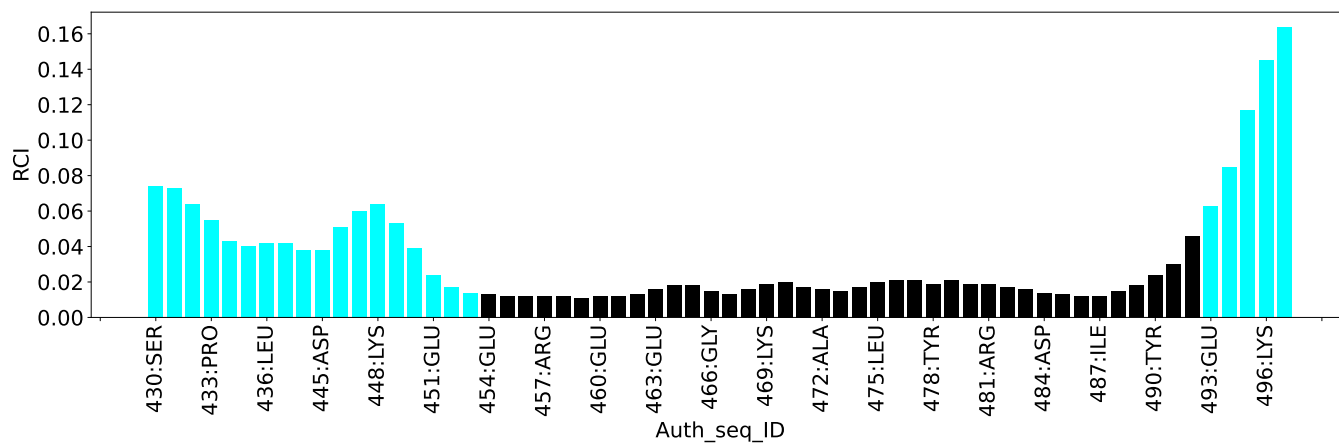
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain X:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1168
Intra-residue ($ i-j =0$)	286
Sequential ($ i-j =1$)	274
Medium range ($ i-j >1$ and $ i-j <5$)	284
Long range ($ i-j \geq 5$)	252
Inter-chain	0
Hydrogen bond restraints	72
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	476
Number of restraints per residue	16.7
Number of long range restraints per residue ¹	3.6

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

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	18.9	0.2
0.2-0.5 (Medium)	43.5	0.5
>0.5 (Large)	38.8	2.41

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis

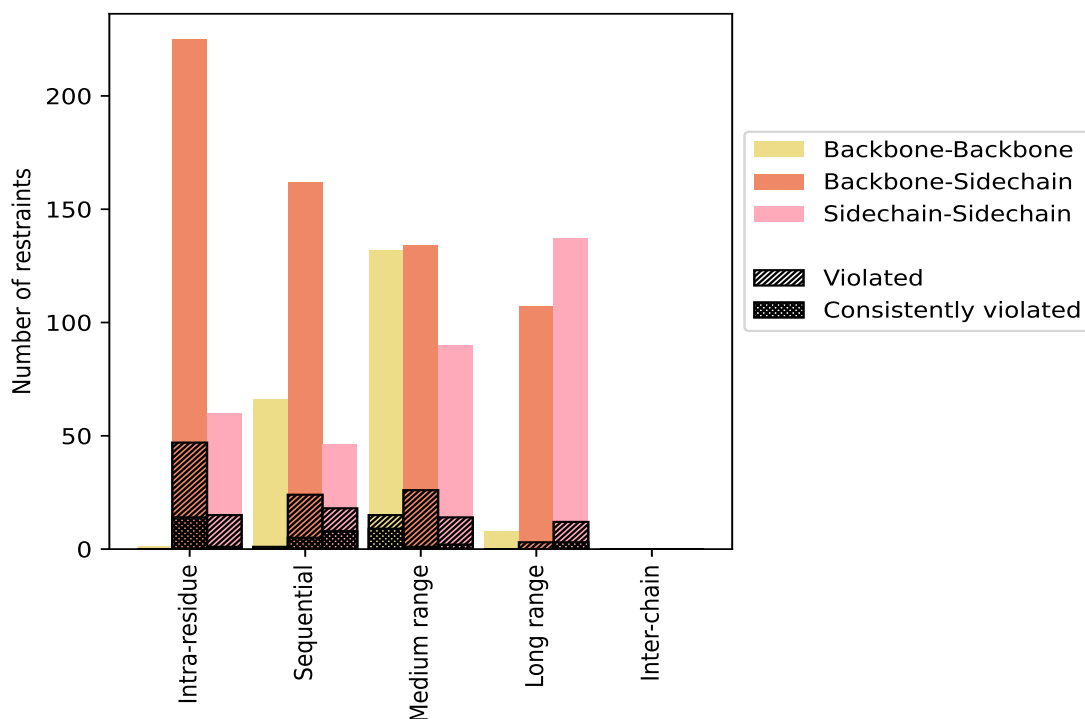
9.1 Summary of distance violations

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 ($i-j =0$)	286	24.5	62	21.7	5.3	15	5.2	1.3
Backbone-Backbone	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	225	19.3	47	20.9	4.0	14	6.2	1.2
Sidechain-Sidechain	60	5.1	15	25.0	1.3	1	1.7	0.1
Sequential ($i-j =1$)	274	23.5	43	15.7	3.7	13	4.7	1.1
Backbone-Backbone	66	5.7	1	1.5	0.1	0	0.0	0.0
Backbone-Sidechain	162	13.9	24	14.8	2.1	5	3.1	0.4
Sidechain-Sidechain	46	3.9	18	39.1	1.5	8	17.4	0.7
Medium range ($i-j >1$ & $i-j <5$)	284	24.3	40	14.1	3.4	3	1.1	0.3
Backbone-Backbone	60	5.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	134	11.5	26	19.4	2.2	1	0.7	0.1
Sidechain-Sidechain	90	7.7	14	15.6	1.2	2	2.2	0.2
Long range ($i-j \geq 5$)	252	21.6	15	6.0	1.3	3	1.2	0.3
Backbone-Backbone	8	0.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	107	9.2	3	2.8	0.3	0	0.0	0.0
Sidechain-Sidechain	137	11.7	12	8.8	1.0	3	2.2	0.3
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	72	6.2	15	20.8	1.3	9	12.5	0.8
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1168	100.0	175	15.0	15.0	43	3.7	3.7
Backbone-Backbone	207	17.7	16	7.7	1.4	9	4.3	0.8
Backbone-Sidechain	628	53.8	100	15.9	8.6	20	3.2	1.7
Sidechain-Sidechain	333	28.5	59	17.7	5.1	14	4.2	1.2

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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	37	24	28	7	0	96	0.45	1.51	0.31	0.34
2	36	24	30	7	0	97	0.48	1.41	0.29	0.4
3	33	23	29	7	0	92	0.51	1.63	0.33	0.42
4	37	25	29	11	0	102	0.49	1.9	0.34	0.36
5	42	28	35	7	0	112	0.5	1.94	0.37	0.38
6	44	23	30	9	0	106	0.5	1.82	0.37	0.4
7	35	23	30	6	0	94	0.46	1.57	0.3	0.4
8	37	25	33	11	0	106	0.5	1.98	0.36	0.38
9	37	28	32	8	0	105	0.49	1.94	0.36	0.4
10	41	24	34	11	0	110	0.48	2.41	0.36	0.37
11	36	24	32	6	0	98	0.49	2.19	0.35	0.39

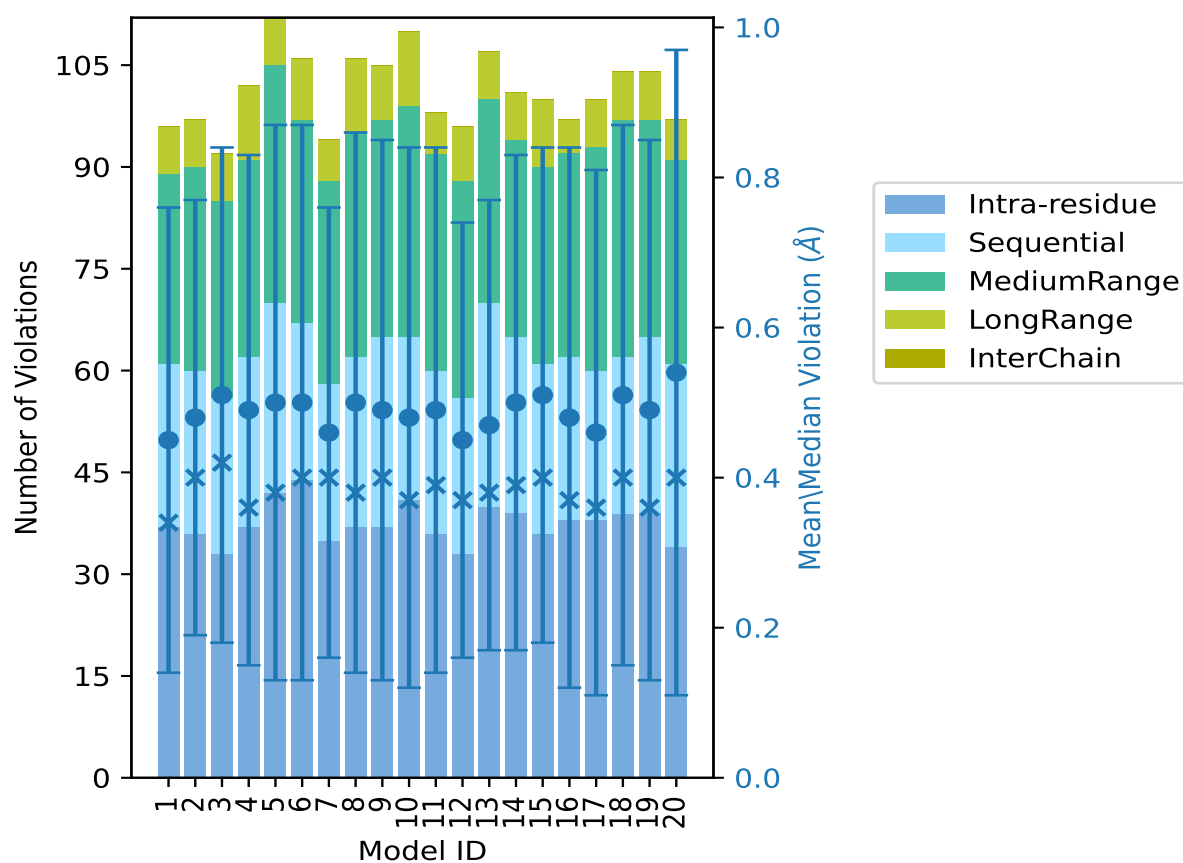
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
12	33	23	32	8	0	96	0.45	1.42	0.29	0.37
13	40	30	30	7	0	107	0.47	1.64	0.3	0.38
14	39	26	29	7	0	101	0.5	1.49	0.33	0.39
15	36	25	29	10	0	100	0.51	1.78	0.33	0.4
16	38	24	30	5	0	97	0.48	2.14	0.36	0.37
17	38	22	33	7	0	100	0.46	2.23	0.35	0.36
18	39	23	35	7	0	104	0.51	1.54	0.36	0.4
19	39	26	32	7	0	104	0.49	1.68	0.36	0.36
20	34	27	30	6	0	97	0.54	2.12	0.43	0.4

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

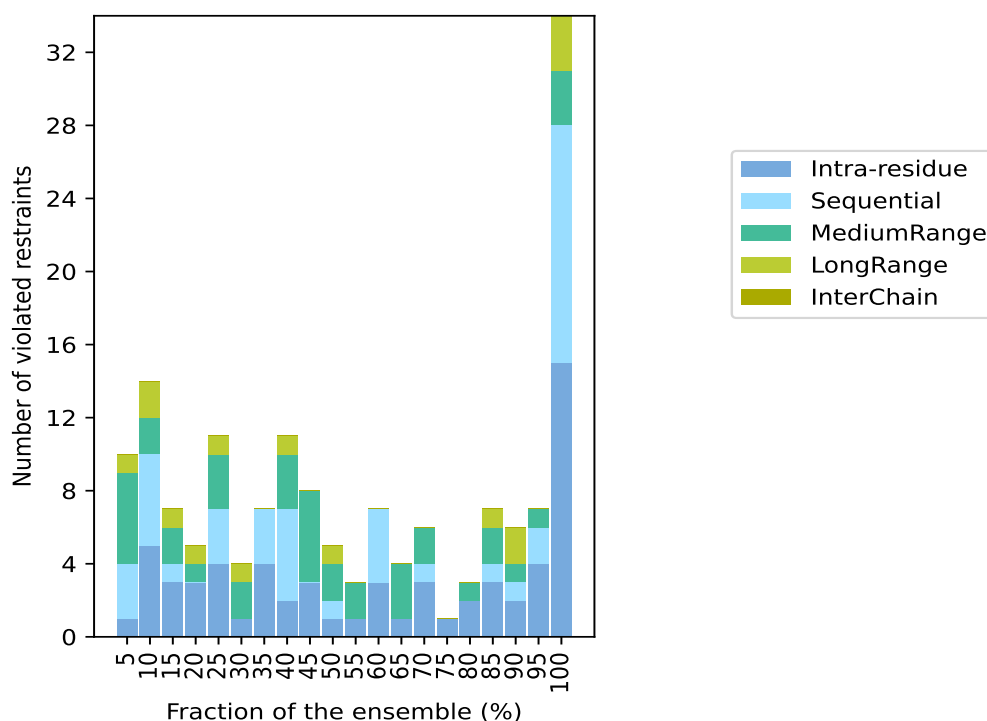
9.3 Distance violation statistics for the ensemble

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, 936(IR:224, SQ:231, MR:244, LR:237, 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	3	5	1	0	10	1	5.0
5	5	2	2	0	14	2	10.0
3	1	2	1	0	7	3	15.0
3	0	1	1	0	5	4	20.0
4	3	3	1	0	11	5	25.0
1	0	2	1	0	4	6	30.0
4	3	0	0	0	7	7	35.0
2	5	3	1	0	11	8	40.0
3	0	5	0	0	8	9	45.0
1	1	2	1	0	5	10	50.0
1	0	2	0	0	3	11	55.0
3	4	0	0	0	7	12	60.0
1	0	3	0	0	4	13	65.0
3	1	2	0	0	6	14	70.0
1	0	0	0	0	1	15	75.0
2	0	1	0	0	3	16	80.0
3	1	2	1	0	7	17	85.0
2	1	1	2	0	6	18	90.0
4	2	1	0	0	7	19	95.0
15	13	3	3	0	34	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶ Number of models with violations

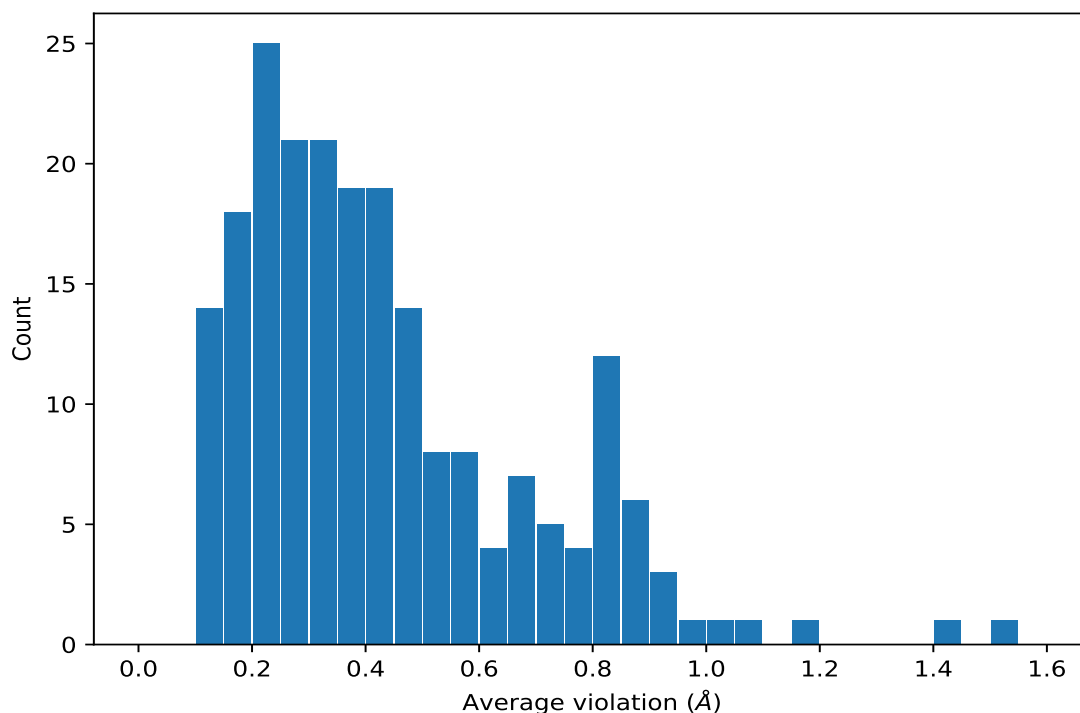
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	20	1.53	0.36	1.42
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	20	1.16	0.28	1.24
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	20	1.08	0.53	1.1
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	20	1.03	0.24	1.13
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	20	0.95	0.29	0.85
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	20	0.88	0.12	0.86
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	20	0.88	0.12	0.86
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	20	0.88	0.12	0.86
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	20	0.83	0.12	0.82
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	20	0.83	0.12	0.82
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	20	0.83	0.12	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	20	0.81	0.02	0.82
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	20	0.8	0.09	0.82
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	20	0.8	0.09	0.82
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	20	0.8	0.09	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	20	0.77	0.08	0.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	20	0.74	0.06	0.76
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	20	0.71	0.19	0.78
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	20	0.71	0.19	0.78
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	20	0.71	0.19	0.78
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	20	0.7	0.05	0.69
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	20	0.65	0.01	0.66
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	20	0.61	0.07	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	20	0.6	0.0	0.6
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	20	0.58	0.01	0.58
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	20	0.58	0.12	0.55
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	20	0.57	0.08	0.59
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	20	0.53	0.01	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	20	0.53	0.01	0.53
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	20	0.53	0.47	0.27
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	20	0.5	0.06	0.51
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	20	0.49	0.47	0.22
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	20	0.47	0.05	0.46
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	20	0.42	0.11	0.45
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	20	0.41	0.07	0.37
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	20	0.39	0.11	0.36
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	20	0.38	0.07	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	20	0.37	0.03	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	20	0.37	0.03	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	20	0.37	0.03	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	20	0.37	0.03	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	20	0.37	0.03	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	20	0.37	0.03	0.37
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	20	0.33	0.02	0.33
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	20	0.32	0.01	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	20	0.31	0.01	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	20	0.31	0.01	0.31
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	20	0.3	0.02	0.3
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	20	0.29	0.01	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	20	0.28	0.01	0.28
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	20	0.27	0.01	0.27
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	20	0.25	0.02	0.24
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	20	0.23	0.02	0.23
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	20	0.21	0.01	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	20	0.21	0.01	0.21
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	20	0.2	0.06	0.19
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	20	0.19	0.03	0.2
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	19	1.41	0.44	1.38

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	19	0.92	0.01	0.92
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	19	0.85	0.02	0.85
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	19	0.39	0.15	0.39
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	19	0.37	0.17	0.47
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	19	0.2	0.06	0.18
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	19	0.2	0.06	0.18
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	19	0.2	0.06	0.18
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	19	0.12	0.02	0.11
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	18	0.87	0.36	0.79
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	18	0.76	0.39	0.84
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	18	0.75	0.35	0.69
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	18	0.54	0.25	0.51
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	18	0.49	0.09	0.5
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	18	0.49	0.09	0.5
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	18	0.49	0.09	0.5
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	18	0.41	0.23	0.38
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	18	0.15	0.01	0.15
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	17	0.96	0.01	0.96
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	17	0.89	0.6	0.44
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	17	0.86	0.3	1.04
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	17	0.44	0.1	0.49
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	17	0.44	0.1	0.49
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	17	0.44	0.1	0.49
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	17	0.36	0.04	0.37
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	17	0.32	0.14	0.35
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	17	0.28	0.14	0.27
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	17	0.24	0.04	0.25
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	16	0.41	0.25	0.28
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	16	0.38	0.11	0.4
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	16	0.17	0.05	0.16
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	16	0.12	0.01	0.12
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	15	0.43	0.01	0.43
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	14	0.57	0.22	0.57
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	14	0.43	0.15	0.39
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	14	0.27	0.02	0.27
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	14	0.18	0.03	0.18
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	14	0.17	0.04	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	14	0.15	0.05	0.13
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	13	0.68	0.58	0.27
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	13	0.42	0.06	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	13	0.42	0.06	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	13	0.42	0.06	0.41
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	13	0.37	0.15	0.37
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	13	0.37	0.12	0.4
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	13	0.17	0.04	0.18
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	12	0.56	0.17	0.62
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	12	0.53	0.34	0.37
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	12	0.4	0.06	0.43
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	12	0.37	0.22	0.26
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	12	0.36	0.17	0.34
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	12	0.18	0.09	0.14
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	12	0.14	0.02	0.14
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	12	0.14	0.02	0.14
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	12	0.14	0.02	0.14
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	11	0.81	0.28	0.97
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	11	0.61	0.68	0.22
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	11	0.42	0.18	0.39
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	10	0.71	0.19	0.76
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	10	0.46	0.3	0.36
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	10	0.22	0.07	0.21
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	10	0.22	0.07	0.21
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	10	0.22	0.07	0.21
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	10	0.19	0.05	0.2
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	10	0.14	0.01	0.15
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	9	0.77	0.37	0.63
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	9	0.55	0.23	0.62
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	9	0.46	0.01	0.46
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	9	0.4	0.1	0.4
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	9	0.34	0.07	0.37
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	9	0.22	0.05	0.21
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	9	0.21	0.04	0.2
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	9	0.19	0.02	0.19
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	8	0.8	0.53	0.82
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	8	0.68	0.36	0.6
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	8	0.53	0.03	0.51
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	8	0.4	0.37	0.29
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	8	0.38	0.14	0.32
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	8	0.32	0.05	0.32
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	8	0.3	0.39	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	8	0.24	0.05	0.22
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	8	0.22	0.18	0.12
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	8	0.2	0.04	0.18
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	8	0.15	0.02	0.16
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	7	0.62	0.26	0.75
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	7	0.55	0.16	0.61
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	7	0.35	0.05	0.35
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	7	0.34	0.06	0.36
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	7	0.27	0.04	0.29
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	7	0.26	0.06	0.27
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	7	0.15	0.02	0.16
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	6	0.8	0.57	0.55
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	6	0.41	0.36	0.17
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	6	0.24	0.07	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	6	0.24	0.07	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	6	0.24	0.07	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	6	0.24	0.07	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	6	0.24	0.07	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	6	0.24	0.07	0.28
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	6	0.2	0.03	0.22
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	6	0.17	0.01	0.17
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	5	0.94	0.35	1.12
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	5	0.64	0.21	0.74
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	5	0.51	0.37	0.49
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	5	0.48	0.16	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	5	0.48	0.16	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	5	0.48	0.16	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	5	0.48	0.16	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	5	0.48	0.16	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	5	0.48	0.16	0.58
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	5	0.44	0.05	0.45
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	5	0.42	0.22	0.57
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	5	0.35	0.19	0.49
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	5	0.34	0.21	0.21
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	5	0.27	0.11	0.31
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	5	0.19	0.04	0.21
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	5	0.19	0.04	0.21
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	5	0.19	0.04	0.21
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	5	0.16	0.0	0.16
(1,975)	1:X:458:ILE:HG13	1:X:486:ARG:HD3	4	0.36	0.18	0.36
(1,949)	1:X:455:LYS:HA	1:X:455:LYS:HE3	4	0.34	0.03	0.35
(1,1056)	1:X:483:LEU:HA	1:X:486:ARG:HD3	4	0.34	0.12	0.32

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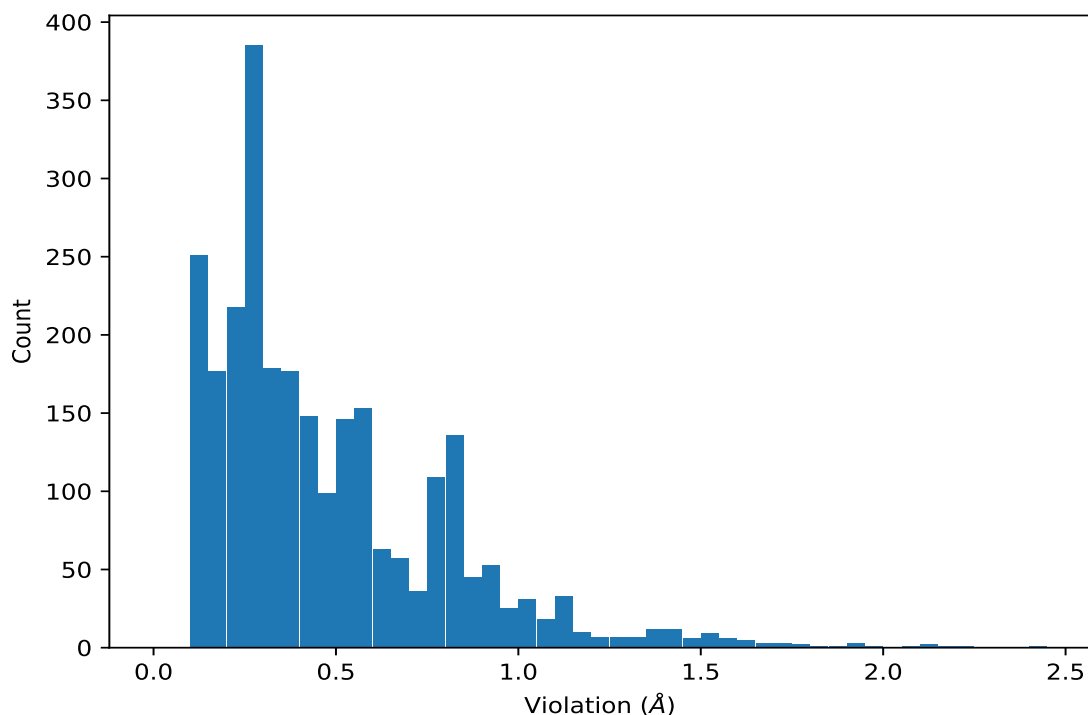
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,945)	1:X:452:GLU:H	1:X:452:GLU:HB3	4	0.25	0.03	0.26
(1,1089)	1:X:495:LYS:HB3	1:X:495:LYS:HD3	4	0.19	0.04	0.19
(1,1080)	1:X:493:GLU:HB3	1:X:494:LEU:HB3	3	0.65	0.0	0.65
(1,1060)	1:X:486:ARG:H	1:X:486:ARG:HD3	3	0.45	0.19	0.57
(1,934)	1:X:449:PHE:HA	1:X:452:GLU:HB3	3	0.38	0.05	0.4
(1,238)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	3	0.34	0.02	0.34
(1,1044)	1:X:478:TYR:HE1	1:X:486:ARG:HD3	3	0.29	0.12	0.28
(1,1044)	1:X:478:TYR:HE2	1:X:486:ARG:HD3	3	0.29	0.12	0.28
(1,271)	1:X:489:LYS:HB3	1:X:489:LYS:HE3	3	0.28	0.1	0.34
(1,712)	1:X:479:THR:H	1:X:482:GLN:HB3	3	0.15	0.03	0.16
(1,1055)	1:X:482:GLN:HB3	1:X:486:ARG:HD3	2	0.8	0.03	0.8
(1,540)	1:X:461:ALA:H	1:X:464:LYS:HD3	2	0.7	0.21	0.7
(1,597)	1:X:464:LYS:HD3	1:X:465:THR:H	2	0.66	0.34	0.66
(1,782)	1:X:486:ARG:HB3	1:X:487:ILE:H	2	0.35	0.03	0.35
(1,930)	1:X:432:LEU:HD11	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,930)	1:X:432:LEU:HD12	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,930)	1:X:432:LEU:HD13	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,930)	1:X:432:LEU:HD21	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,930)	1:X:432:LEU:HD22	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,930)	1:X:432:LEU:HD23	1:X:433:PRO:HD3	2	0.32	0.08	0.32
(1,266)	1:X:489:LYS:HA	1:X:489:LYS:HE3	2	0.28	0.0	0.28
(1,1057)	1:X:485:TYR:HB3	1:X:486:ARG:HG3	2	0.24	0.01	0.24
(1,892)	1:X:474:LYS:H	1:X:474:LYS:HD3	2	0.21	0.1	0.21
(1,1061)	1:X:486:ARG:HA	1:X:486:ARG:HG3	2	0.17	0.01	0.17
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD1	2	0.16	0.02	0.16
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD2	2	0.16	0.02	0.16
(1,1072)	1:X:489:LYS:HA	1:X:489:LYS:HD3	2	0.16	0.04	0.16
(1,852)	1:X:493:GLU:HB3	1:X:494:LEU:H	2	0.15	0.01	0.15
(1,1011)	1:X:467:TYR:HB3	1:X:495:LYS:HB3	2	0.14	0.02	0.14
(1,372)	1:X:458:ILE:HA	1:X:476:LEU:HG	2	0.12	0.0	0.12

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)
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	10	2.41
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	17	2.23
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	11	2.19
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	16	2.14
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	20	2.12
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	20	2.06
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	8	1.98
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	5	1.94
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	9	1.94
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	20	1.92
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	4	1.9
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	6	1.82
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	15	1.78
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	16	1.75
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	8	1.74
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	8	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	9	1.72
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	20	1.69
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	5	1.68
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	19	1.68
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	13	1.64
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	19	1.64
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	3	1.63
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	6	1.61
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	19	1.6
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	20	1.59
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	10	1.59
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	15	1.59
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	7	1.57
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	17	1.55
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	10	1.55
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	18	1.54
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	5	1.54
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	18	1.53
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	6	1.51
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	1	1.51
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	5	1.51
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	11	1.51
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	18	1.51
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	20	1.5
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	14	1.49
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	16	1.46
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	11	1.46
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	5	1.46
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	19	1.46
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	4	1.46
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	1	1.43
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	19	1.43
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	12	1.42
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	18	1.42
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	4	1.42
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	2	1.41
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	4	1.41
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	6	1.41
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	18	1.41
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	20	1.41
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	2	1.41
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	4	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	16	1.4
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	18	1.4
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	18	1.4
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	6	1.39
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	17	1.38
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	3	1.38
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	19	1.38
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	14	1.38
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	14	1.37
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	6	1.36
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	3	1.35
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	13	1.35
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	7	1.34
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	9	1.32
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	5	1.32
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	9	1.32
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	14	1.32
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	16	1.31
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	6	1.31
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	2	1.28
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	17	1.28
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	15	1.27
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	2	1.26
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	9	1.26
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	15	1.26
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	3	1.25
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	1	1.24
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	20	1.24
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	19	1.23
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	11	1.22
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	9	1.22
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	11	1.21
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	5	1.21
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	12	1.2
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	10	1.2
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	14	1.19
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	7	1.18
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	20	1.18
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	16	1.17
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	18	1.17
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	11	1.17
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	8	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	18	1.16
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	6	1.15
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	9	1.15
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	4	1.14
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	8	1.14
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	17	1.14
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	1	1.14
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	10	1.14
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	8	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	2	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	7	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	10	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	11	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	12	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	13	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	14	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	15	1.13
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	18	1.13
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	6	1.13
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	5	1.13
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	6	1.12
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	1	1.12
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	3	1.12
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	5	1.12
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	15	1.11
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	15	1.11
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	13	1.11
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	14	1.11
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	16	1.11
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	9	1.1
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	13	1.1
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	8	1.1
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	12	1.1
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	17	1.1
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	14	1.09
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	12	1.09
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	14	1.08
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	15	1.08
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	8	1.08
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	19	1.07
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	19	1.07
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	19	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	3	1.07
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	1	1.06
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	15	1.06
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	15	1.06
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	15	1.06
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	8	1.06
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	19	1.05
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	8	1.05
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	11	1.05
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	18	1.05
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	3	1.04
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	3	1.04
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	3	1.04
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	7	1.04
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	7	1.04
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	7	1.04
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	12	1.04
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	4	1.04
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	3	1.04
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	1	1.04
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	5	1.03
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	14	1.03
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	14	1.03
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	14	1.03
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	15	1.03
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	19	1.03
(1,953)	1:X:455:LYS:HE3	1:X:456:LYS:HB3	10	1.02
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	20	1.02
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	3	1.02
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	14	1.0
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	14	1.0
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	14	1.0
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	17	1.0
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	17	1.0
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	17	1.0
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	7	1.0
(1,597)	1:X:464:LYS:HD3	1:X:465:THR:H	5	1.0
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	10	1.0
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	10	1.0
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	10	1.0
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	10	1.0
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	13	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	9	0.99
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	9	0.98
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	9	0.98
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	9	0.98
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	5	0.98
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	15	0.98
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	16	0.97
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	13	0.97
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	6	0.96
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	6	0.96
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	6	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	2	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	3	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	4	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	5	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	6	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	7	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	8	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	11	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	12	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	13	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	15	0.96
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	18	0.96
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	9	0.96
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	10	0.95
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	20	0.95
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	1	0.95
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	10	0.95
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	14	0.95
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	17	0.95
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	8	0.95
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	8	0.95
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	8	0.95
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	9	0.95
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	12	0.94
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	12	0.94
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	12	0.94
(1,853)	1:X:493:GLU:H	1:X:493:GLU:HB3	9	0.94
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	5	0.94
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	18	0.94
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	18	0.94
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	18	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	1	0.94
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	4	0.93
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	8	0.93
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	14	0.93
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	15	0.93
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	20	0.93
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	11	0.93
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	11	0.93
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	11	0.93
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	5	0.92
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	4	0.92
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	4	0.92
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	4	0.92
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	10	0.92
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	17	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	2	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	3	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	6	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	7	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	9	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	10	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	11	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	12	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	16	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	18	0.92
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	19	0.92
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	20	0.91
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	10	0.91
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	4	0.91
(1,540)	1:X:461:ALA:H	1:X:464:LYS:HD3	5	0.91
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	5	0.91
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	17	0.91
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	10	0.91
(1,261)	1:X:488:LYS:HA	1:X:488:LYS:HD3	13	0.9
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	1	0.9
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	8	0.89
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	8	0.89
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	8	0.89
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	18	0.89
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	18	0.89
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	18	0.89
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	9	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	9	0.89
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	9	0.89
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	4	0.89
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	4	0.89
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	4	0.89
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	9	0.89
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	9	0.89
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	9	0.89
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	16	0.89
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	19	0.88
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	7	0.88
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	8	0.88
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	13	0.88
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	13	0.88
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	13	0.88
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	4	0.88
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	12	0.87
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	12	0.87
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	12	0.87
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	17	0.87
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	17	0.87
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	17	0.87
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	3	0.87
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	15	0.87
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	20	0.87
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	7	0.87
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	7	0.87
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	7	0.87
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	16	0.87
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	16	0.87
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	16	0.87
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	2	0.87
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	1	0.86
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	4	0.86
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	4	0.86
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	14	0.86
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	18	0.86
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	6	0.86
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	2	0.85
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	11	0.85
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	3	0.85
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	13	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	14	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	2	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	6	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	7	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	9	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	11	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	12	0.85
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	16	0.85
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	12	0.84
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	16	0.84
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	6	0.84
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	13	0.84
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	13	0.84
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	13	0.84
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	7	0.84
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	5	0.84
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	18	0.83
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	14	0.83
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	8	0.83
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	5	0.83
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	6	0.83
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	7	0.83
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	11	0.83
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	13	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	1	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	1	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	1	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	2	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	2	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	2	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	4	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	4	0.83
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	4	0.83
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	10	0.83
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	19	0.83
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	17	0.83
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	17	0.83
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	17	0.83
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	3	0.83
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	15	0.83
(1,1055)	1:X:482:GLN:HB3	1:X:486:ARG:HD3	14	0.83
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	13	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	13	0.82
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	13	0.82
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	5	0.82
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	4	0.82
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	2	0.82
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	3	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	1	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	2	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	4	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	5	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	10	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	12	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	16	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	19	0.82
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	20	0.82
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	19	0.82
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	19	0.82
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	19	0.82
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	6	0.82
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	6	0.82
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	6	0.82
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	15	0.82
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	15	0.82
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	15	0.82
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	17	0.82
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	1	0.82
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	1	0.82
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	1	0.82
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	20	0.82
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	20	0.82
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	20	0.82
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	12	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	2	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	4	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	10	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	13	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	19	0.82
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	20	0.82
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	15	0.81
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	15	0.81
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	15	0.81
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	15	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	11	0.81
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	19	0.81
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	13	0.81
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	20	0.81
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	13	0.81
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	3	0.81
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	8	0.81
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	15	0.81
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	18	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	5	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	5	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	5	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	6	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	6	0.81
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	6	0.81
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	5	0.81
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	6	0.81
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	6	0.81
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	6	0.81
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	4	0.81
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	8	0.81
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	1	0.81
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	8	0.81
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	15	0.81
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	1	0.8
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	1	0.8
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	1	0.8
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	11	0.8
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	11	0.8
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	11	0.8
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	20	0.8
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	20	0.8
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	20	0.8
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	13	0.8
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	7	0.8
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	8	0.8
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	14	0.8
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	17	0.8
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	17	0.8
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	17	0.8
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	5	0.8
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	5	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	5	0.8
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	18	0.8
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	3	0.8
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	14	0.8
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	3	0.8
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	9	0.8
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	19	0.79
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	15	0.79
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	20	0.79
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	12	0.79
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	10	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	11	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	11	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	11	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	16	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	16	0.79
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	16	0.79
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	4	0.79
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	4	0.79
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	4	0.79
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	12	0.79
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	12	0.79
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	12	0.79
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	18	0.79
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	18	0.79
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	18	0.79
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	2	0.79
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	2	0.79
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	2	0.79
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	15	0.79
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	15	0.79
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	15	0.79
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	8	0.79
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	7	0.79
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	14	0.79
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	2	0.78
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	2	0.78
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	2	0.78
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	18	0.78
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	18	0.78
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	18	0.78
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	14	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	12	0.78
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	15	0.78
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	2	0.78
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	9	0.78
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	20	0.78
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	20	0.78
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	20	0.78
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	1	0.78
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	1	0.78
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	1	0.78
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	2	0.78
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	2	0.78
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	2	0.78
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	7	0.78
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	7	0.78
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	7	0.78
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	5	0.78
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	5	0.78
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	5	0.78
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	16	0.78
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	4	0.78
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	7	0.77
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	19	0.77
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	1	0.77
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	3	0.77
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	3	0.77
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	3	0.77
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	3	0.77
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	11	0.77
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	11	0.77
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	11	0.77
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	13	0.77
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	13	0.77
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	13	0.77
(1,306)	1:X:488:LYS:HB3	1:X:488:LYS:HD3	13	0.77
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	9	0.77
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	11	0.77
(1,1055)	1:X:482:GLN:HB3	1:X:486:ARG:HD3	13	0.77
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	3	0.76
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	14	0.76
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	13	0.76
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	5	0.76
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	19	0.76
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	20	0.76
(1,566)	1:X:456:LYS:H	1:X:456:LYS:HB3	17	0.76
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	8	0.76
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	8	0.76
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	8	0.76
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	10	0.76
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	10	0.76
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	10	0.76
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	14	0.76
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	14	0.76
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	14	0.76
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	3	0.76
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	3	0.76
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	3	0.76
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	13	0.76
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	17	0.76
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	6	0.76
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	17	0.76
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	18	0.76
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	17	0.75
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	3	0.75
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	9	0.75
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	14	0.75
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	6	0.75
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	19	0.75
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	3	0.75
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	11	0.75
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	15	0.75
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	17	0.75
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	9	0.74
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	10	0.74
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	10	0.74
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	10	0.74
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	2	0.74
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	8	0.74
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	5	0.74
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	4	0.74
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	8	0.74
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	8	0.74
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	12	0.74
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	12	0.74
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	12	0.74
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	3	0.74
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	7	0.74
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	14	0.74
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	18	0.74
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	7	0.73
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	9	0.73
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	12	0.73
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	2	0.73
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	13	0.73
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	6	0.72
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	8	0.72
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	12	0.71
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	16	0.71
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	16	0.71
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	16	0.71
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	9	0.71
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	17	0.71
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	2	0.71
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	17	0.71
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	3	0.71
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	18	0.71
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	7	0.71
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	4	0.7
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	14	0.7
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	8	0.7
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	14	0.7
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	16	0.7
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	10	0.7
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	6	0.7
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	6	0.69
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	3	0.69
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	8	0.69
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	19	0.69
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	19	0.69
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	19	0.69
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	18	0.69
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	15	0.68
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	12	0.68
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	14	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	18	0.68
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	1	0.68
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	10	0.68
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	20	0.67
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	6	0.67
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	3	0.67
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	7	0.67
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	11	0.67
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	12	0.67
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	18	0.67
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	10	0.67
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	10	0.67
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	10	0.67
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	2	0.67
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	11	0.66
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	16	0.66
(1,986)	1:X:461:ALA:HB1	1:X:464:LYS:HB3	5	0.66
(1,986)	1:X:461:ALA:HB2	1:X:464:LYS:HB3	5	0.66
(1,986)	1:X:461:ALA:HB3	1:X:464:LYS:HB3	5	0.66
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	16	0.66
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	1	0.66
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	2	0.66
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	5	0.66
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	9	0.66
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	20	0.66
(1,1080)	1:X:493:GLU:HB3	1:X:494:LEU:HB3	19	0.66
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	2	0.65
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	10	0.65
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	13	0.65
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	18	0.65
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	7	0.65
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	13	0.65
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	6	0.65
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	14	0.65
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	15	0.65
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	19	0.65
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	6	0.65
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	14	0.65
(1,1080)	1:X:493:GLU:HB3	1:X:494:LEU:HB3	16	0.65
(1,1080)	1:X:493:GLU:HB3	1:X:494:LEU:HB3	20	0.65
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	11	0.64
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	4	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	15	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	15	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	15	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	15	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	15	0.64
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	15	0.64
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	19	0.64
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	7	0.64
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	6	0.64
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	4	0.64
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	8	0.64
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	10	0.64
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	13	0.64
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	9	0.64
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	1	0.64
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	2	0.63
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	10	0.63
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	15	0.63
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	11	0.63
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	13	0.63
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	16	0.63
(1,699)	1:X:478:TYR:H	1:X:478:TYR:HB3	17	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	7	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	7	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	7	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	9	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	9	0.63
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	9	0.63
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	19	0.63
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	13	0.62
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	18	0.62
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	9	0.62
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	19	0.62
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	9	0.62
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	11	0.62
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	15	0.62
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	16	0.62
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	5	0.62
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	1	0.62
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	12	0.62
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	16	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD11	3	0.62
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD12	3	0.62
(1,43)	1:X:455:LYS:HD3	1:X:459:ILE:HD13	3	0.62
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	16	0.62
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	16	0.62
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	20	0.62
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	17	0.61
(1,943)	1:X:451:GLU:HG3	1:X:452:GLU:HB3	4	0.61
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	16	0.61
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	9	0.61
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	18	0.61
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	20	0.61
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	13	0.61
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	14	0.61
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	9	0.61
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	11	0.61
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	17	0.61
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	20	0.61
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	8	0.61
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	6	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	1	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	2	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	3	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	4	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	5	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	6	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	7	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	8	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	9	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	11	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	12	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	13	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	15	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	17	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	18	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	19	0.6
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	20	0.6
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	15	0.6
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	5	0.6
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	19	0.6
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	17	0.6
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	19	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	6	0.6
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	12	0.6
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	4	0.6
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	8	0.6
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	15	0.6
(1,1060)	1:X:486:ARG:H	1:X:486:ARG:HD3	13	0.6
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	15	0.6
(1,994)	1:X:464:LYS:H	1:X:464:LYS:HB3	5	0.59
(1,975)	1:X:458:ILE:HG13	1:X:486:ARG:HD3	4	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	8	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	8	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	8	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	8	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	8	0.59
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	8	0.59
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	10	0.59
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	14	0.59
(1,898)	1:X:463:GLU:H	1:X:463:GLU:HB3	16	0.59
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	18	0.59
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	19	0.59
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	18	0.59
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	20	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	1	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	2	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	6	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	7	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	12	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	13	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	14	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	15	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	19	0.59
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	20	0.59
(1,1086)	1:X:494:LEU:HB3	1:X:495:LYS:H	5	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	1	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	2	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	3	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	5	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	7	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	9	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	10	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	11	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	12	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	13	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	14	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	17	0.59
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	19	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	9	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	9	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	9	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	16	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	16	0.59
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	16	0.59
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	4	0.59
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	8	0.59
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	1	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	14	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	14	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	14	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	14	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	14	0.58
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	14	0.58
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	8	0.58
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	14	0.58
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	4	0.58
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	19	0.58
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	2	0.58
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	7	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	3	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	4	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	5	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	8	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	9	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	10	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	11	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	16	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	17	0.58
(1,653)	1:X:471:ARG:H	1:X:471:ARG:HB3	18	0.58
(1,267)	1:X:485:TYR:HE1	1:X:489:LYS:HE3	4	0.58
(1,267)	1:X:485:TYR:HE2	1:X:489:LYS:HE3	4	0.58
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	1	0.58
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	1	0.58
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	1	0.58
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	12	0.58
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	12	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	12	0.58
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	7	0.57
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	8	0.57
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	4	0.57
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	3	0.57
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	4	0.57
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	15	0.57
(1,571)	1:X:456:LYS:HB3	1:X:457:ARG:H	17	0.57
(1,211)	1:X:473:ALA:HB1	1:X:480:LEU:HB3	14	0.57
(1,211)	1:X:473:ALA:HB2	1:X:480:LEU:HB3	14	0.57
(1,211)	1:X:473:ALA:HB3	1:X:480:LEU:HB3	14	0.57
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	20	0.57
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	17	0.57
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	17	0.57
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	17	0.57
(1,1060)	1:X:486:ARG:H	1:X:486:ARG:HD3	14	0.57
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	10	0.57
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	19	0.56
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	15	0.56
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	12	0.56
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	16	0.56
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	13	0.56
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	17	0.56
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	18	0.56
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	11	0.56
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	11	0.56
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	11	0.56
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	10	0.56
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	3	0.55
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	14	0.55
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	17	0.55
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	11	0.55
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	11	0.55
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	15	0.55
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	16	0.55
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	8	0.55
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	12	0.55
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	20	0.55
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	6	0.55
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	2	0.55
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	3	0.55
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	4	0.55
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	15	0.55
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	1	0.55
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	10	0.55
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	11	0.54
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	6	0.54
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	8	0.54
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	14	0.54
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	19	0.54
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	13	0.54
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	10	0.54
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	2	0.54
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	14	0.54
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	14	0.54
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	14	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	1	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	6	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	9	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	11	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	13	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	17	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	19	0.54
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	20	0.54
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	4	0.54
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	13	0.54
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	19	0.54
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	19	0.54
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	19	0.54
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	4	0.54
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	13	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	1	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	2	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	3	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	5	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	7	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	9	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	12	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	13	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	16	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	18	0.53
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	20	0.53
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	20	0.53
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	9	0.53
(1,883)	1:X:432:LEU:HB3	1:X:434:GLU:H	18	0.53
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	13	0.53
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	6	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	3	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	4	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	5	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	8	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	10	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	14	0.53
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	15	0.53
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	17	0.52
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	4	0.52
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	11	0.52
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	10	0.52
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	5	0.52
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	3	0.52
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	10	0.52
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	10	0.52
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	10	0.52
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	2	0.52
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	7	0.52
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	12	0.52
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	18	0.52
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	2	0.52
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	3	0.52
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	20	0.52
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	1	0.52
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	9	0.52
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	11	0.52
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	18	0.52
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	20	0.52
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	8	0.52
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	9	0.52
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	4	0.52
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	13	0.52
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	18	0.52
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	18	0.52
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	18	0.52
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	18	0.52
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	15	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	5	0.51
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	5	0.51
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	5	0.51
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	9	0.51
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	9	0.51
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	9	0.51
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	12	0.51
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	12	0.51
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	12	0.51
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	10	0.51
(1,969)	1:X:458:ILE:HA	1:X:458:ILE:HG13	15	0.51
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	11	0.51
(1,762)	1:X:485:TYR:H	1:X:486:ARG:HB3	8	0.51
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	15	0.51
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	15	0.51
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	15	0.51
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	15	0.51
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	14	0.51
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	2	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	2	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	3	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	5	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	7	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	10	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	12	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	16	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	17	0.51
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	19	0.51
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	11	0.51
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	16	0.51
(1,1056)	1:X:483:LEU:HA	1:X:486:ARG:HD3	14	0.51
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	1	0.51
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	5	0.51
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	20	0.51
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	2	0.5
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	1	0.5
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	1	0.5
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	1	0.5
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	2	0.5
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	2	0.5
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	2	0.5
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	16	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	16	0.5
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	16	0.5
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	18	0.5
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	18	0.5
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	18	0.5
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	19	0.5
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	19	0.5
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	19	0.5
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	12	0.5
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	13	0.5
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	19	0.5
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	7	0.5
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	3	0.5
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	6	0.5
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	8	0.5
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	15	0.5
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	16	0.5
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	19	0.5
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	12	0.5
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	19	0.5
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	5	0.5
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	5	0.5
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	5	0.5
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	11	0.5
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	1	0.49
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	20	0.49
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	3	0.49
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	3	0.49
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	3	0.49
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	7	0.49
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	7	0.49
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	7	0.49
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	7	0.49
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	9	0.49
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	1	0.49
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	9	0.49
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	16	0.49
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	14	0.49
(1,540)	1:X:461:ALA:H	1:X:464:LYS:HD3	4	0.49
(1,517)	1:X:462:LEU:H	1:X:462:LEU:HB3	16	0.49
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	17	0.49
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	7	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	16	0.49
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	14	0.49
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	6	0.49
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	7	0.49
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	13	0.49
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	17	0.49
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	11	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	2	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	2	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	2	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	3	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	3	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	3	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	20	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	20	0.49
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	20	0.49
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	5	0.49
(1,1026)	1:X:474:LYS:H	1:X:474:LYS:HG3	18	0.49
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	18	0.48
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	5	0.48
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	11	0.48
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	12	0.48
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	17	0.48
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	19	0.48
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	8	0.48
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	15	0.48
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	9	0.48
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	12	0.48
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	5	0.48
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	10	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	7	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	7	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	7	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	15	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	15	0.48
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	15	0.48
(1,954)	1:X:455:LYS:HE3	1:X:456:LYS:HG3	10	0.47
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	9	0.47
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	18	0.47
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	9	0.47
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	14	0.47
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	17	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	5	0.47
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	13	0.47
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	12	0.47
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	4	0.47
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	5	0.47
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	12	0.47
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	13	0.47
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	5	0.47
(1,323)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	6	0.47
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	10	0.47
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	9	0.46
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	11	0.46
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	11	0.46
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	11	0.46
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	15	0.46
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	15	0.46
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	15	0.46
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	2	0.46
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	17	0.46
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	9	0.46
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	19	0.46
(1,300)	1:X:492:ILE:HB	1:X:493:GLU:HB3	20	0.46
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	2	0.46
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	11	0.46
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	1	0.46
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	6	0.46
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	6	0.46
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	17	0.45
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	8	0.45
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	2	0.45
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	5	0.45
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	15	0.45
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	20	0.45
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	3	0.45
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	10	0.45
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	6	0.45
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	16	0.45
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	10	0.45
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	18	0.45
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	8	0.44
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	10	0.44
(1,975)	1:X:458:ILE:HG13	1:X:486:ARG:HD3	6	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	20	0.44
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	6	0.44
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	6	0.44
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	1	0.44
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	3	0.44
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	4	0.44
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	7	0.44
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	10	0.44
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	16	0.44
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	2	0.44
(1,651)	1:X:471:ARG:H	1:X:471:ARG:HD3	14	0.44
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	5	0.44
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	17	0.44
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	6	0.44
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	6	0.44
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	6	0.44
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	7	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	4	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	5	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	9	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	10	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	12	0.44
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	17	0.44
(1,1044)	1:X:478:TYR:HE1	1:X:486:ARG:HD3	8	0.44
(1,1044)	1:X:478:TYR:HE2	1:X:486:ARG:HD3	8	0.44
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	16	0.44
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	13	0.43
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	13	0.43
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	13	0.43
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	13	0.43
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	13	0.43
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	13	0.43
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	2	0.43
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	12	0.43
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	18	0.43
(1,934)	1:X:449:PHE:HA	1:X:452:GLU:HB3	18	0.43
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	9	0.43
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	10	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	4	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	7	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	8	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	9	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	11	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	16	0.43
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	17	0.43
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	6	0.43
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	6	0.43
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	3	0.43
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	7	0.43
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	7	0.43
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	18	0.43
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	6	0.42
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	17	0.42
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	17	0.42
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	17	0.42
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	20	0.42
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	20	0.42
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	20	0.42
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	3	0.42
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	19	0.42
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	3	0.42
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	8	0.42
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	18	0.42
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	18	0.42
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	18	0.42
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	20	0.42
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	2	0.42
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	13	0.42
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	18	0.42
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	10	0.42
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	16	0.42
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	19	0.42
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	11	0.42
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	13	0.42
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	19	0.42
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	5	0.41
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	11	0.41
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	12	0.41
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	7	0.41
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	12	0.41
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	15	0.41
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	20	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	12	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	12	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	12	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	13	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	13	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	13	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	19	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	19	0.41
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	19	0.41
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	15	0.41
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	8	0.41
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	13	0.41
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	18	0.41
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	10	0.41
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	6	0.41
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	1	0.41
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	2	0.41
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	8	0.41
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	16	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	14	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	14	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	14	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	14	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	14	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	14	0.4
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	10	0.4
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	15	0.4
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	20	0.4
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	12	0.4
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	20	0.4
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	14	0.4
(1,934)	1:X:449:PHE:HA	1:X:452:GLU:HB3	8	0.4
(1,930)	1:X:432:LEU:HD11	1:X:433:PRO:HD3	7	0.4
(1,930)	1:X:432:LEU:HD12	1:X:433:PRO:HD3	7	0.4
(1,930)	1:X:432:LEU:HD13	1:X:433:PRO:HD3	7	0.4
(1,930)	1:X:432:LEU:HD21	1:X:433:PRO:HD3	7	0.4
(1,930)	1:X:432:LEU:HD22	1:X:433:PRO:HD3	7	0.4
(1,930)	1:X:432:LEU:HD23	1:X:433:PRO:HD3	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	2	0.4
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	11	0.4
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	17	0.4
(1,768)	1:X:486:ARG:H	1:X:486:ARG:HB3	6	0.4
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	9	0.4
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	8	0.4
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	8	0.4
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	8	0.4
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	9	0.4
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	2	0.4
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	3	0.4
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	7	0.4
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	10	0.4
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	5	0.4
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	11	0.4
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	20	0.4
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	2	0.4
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	20	0.4
(1,1052)	1:X:481:ARG:HB3	1:X:481:ARG:HG3	6	0.4
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	11	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	11	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	11	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	11	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	11	0.39
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	11	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	7	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	8	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	10	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	13	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	14	0.39
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	15	0.39
(1,96)	1:X:448:LYS:HB3	1:X:449:PHE:HB3	14	0.39
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	5	0.39
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	11	0.39
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	9	0.39
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	16	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	1	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	1	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	1	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	2	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	2	0.39
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	15	0.39
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	20	0.39
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	1	0.39
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	5	0.39
(1,1056)	1:X:483:LEU:HA	1:X:486:ARG:HD3	13	0.39
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	12	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	4	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	17	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	17	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	17	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	17	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	17	0.38
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	17	0.38
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	1	0.38
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	18	0.38
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	19	0.38
(1,948)	1:X:454:GLU:HG3	1:X:486:ARG:HD3	6	0.38
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	13	0.38
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	13	0.38
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	14	0.38
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	1	0.38
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	15	0.38
(1,782)	1:X:486:ARG:HB3	1:X:487:ILE:H	14	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	5	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	5	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	5	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	6	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	6	0.38
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	6	0.38
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	20	0.38
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	7	0.38
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	11	0.38
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	5	0.38
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	8	0.38
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	8	0.38
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	8	0.38
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	14	0.38
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	2	0.37
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	10	0.37
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	13	0.37
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	6	0.37
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	6	0.37
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	6	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	2	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	3	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	12	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	18	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	19	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	20	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	20	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	20	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	20	0.37
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	20	0.37
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	2	0.37
(1,949)	1:X:455:LYS:HA	1:X:455:LYS:HE3	16	0.37
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	3	0.37
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	8	0.37
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	15	0.37
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	16	0.37
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	10	0.37
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	12	0.37
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	13	0.37
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	4	0.37
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	10	0.37
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	11	0.37
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	13	0.37
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	17	0.37
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	5	0.37
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	6	0.37
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	15	0.37
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	9	0.37
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	17	0.37
(1,238)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	10	0.37
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	4	0.37
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	19	0.37
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	7	0.37
(1,1078)	1:X:493:GLU:HA	1:X:493:GLU:HG3	16	0.37
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	15	0.37
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	4	0.36
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	11	0.36
(1,983)	1:X:461:ALA:HA	1:X:464:LYS:HB3	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	1	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	5	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	7	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	7	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	7	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	7	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	7	0.36
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	7	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	10	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	10	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	10	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	10	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	10	0.36
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	10	0.36
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	16	0.36
(1,949)	1:X:455:LYS:HA	1:X:455:LYS:HE3	11	0.36
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	7	0.36
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	4	0.36
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG21	4	0.36
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG22	4	0.36
(1,53)	1:X:455:LYS:HD3	1:X:459:ILE:HG23	4	0.36
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	1	0.36
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	4	0.36
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	19	0.36
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	1	0.36
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	16	0.36
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	19	0.36
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	17	0.36
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	6	0.36
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	9	0.36
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	8	0.36
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	8	0.35
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	15	0.35
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	1	0.35
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	18	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	9	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	15	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	15	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	15	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	15	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	15	0.35
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	15	0.35
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	13	0.35
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	8	0.35
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	16	0.35
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	17	0.35
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	10	0.35
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	12	0.35
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	16	0.35
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	6	0.35
(1,342)	1:X:474:LYS:HA	1:X:474:LYS:HD3	19	0.35
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	12	0.35
(1,271)	1:X:489:LYS:HB3	1:X:489:LYS:HE3	8	0.35
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	13	0.35
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	17	0.35
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	6	0.34
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	8	0.34
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	13	0.34
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	14	0.34
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	16	0.34
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	16	0.34
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	8	0.34
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	11	0.34
(1,949)	1:X:455:LYS:HA	1:X:455:LYS:HE3	20	0.34
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	19	0.34
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	7	0.34
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	8	0.34
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	11	0.34
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	20	0.34
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	5	0.34
(1,271)	1:X:489:LYS:HB3	1:X:489:LYS:HE3	13	0.34
(1,238)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	4	0.34
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	2	0.34
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	18	0.34
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	6	0.34
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	16	0.33
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	6	0.33
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	9	0.33
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	12	0.33
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	16	0.33
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	16	0.33
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	16	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	16	0.33
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	16	0.33
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	16	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	1	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	4	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	5	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	9	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	12	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	17	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	18	0.33
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	20	0.33
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	14	0.33
(1,597)	1:X:464:LYS:HD3	1:X:465:THR:H	4	0.33
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	13	0.33
(1,231)	1:X:485:TYR:HB3	1:X:486:ARG:HB3	14	0.33
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	2	0.33
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	4	0.33
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	4	0.33
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	20	0.33
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	15	0.33
(1,1079)	1:X:493:GLU:HB3	1:X:493:GLU:HG3	18	0.33
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	4	0.33
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	4	0.33
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	4	0.33
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	5	0.33
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	8	0.33
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	15	0.33
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	9	0.33
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	4	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	5	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	8	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	14	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	19	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	20	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	2	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	3	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	5	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	6	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	7	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	17	0.32
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	19	0.32
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	7	0.32
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	17	0.32
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	19	0.32
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	8	0.32
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	10	0.32
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	13	0.32
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	20	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	10	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	10	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	10	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	10	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	10	0.32
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	10	0.32
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	2	0.32
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	3	0.32
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	6	0.32
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	14	0.32
(1,933)	1:X:449:PHE:HA	1:X:451:GLU:HG3	10	0.32
(1,782)	1:X:486:ARG:HB3	1:X:487:ILE:H	13	0.32
(1,442)	1:X:471:ARG:HA	1:X:471:ARG:HD3	18	0.32
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	18	0.32
(1,238)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	6	0.32
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	20	0.32
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	13	0.32
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	15	0.32
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	1	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	2	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	3	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	7	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	9	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	10	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	11	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	12	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	13	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	16	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	17	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	18	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	1	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	9	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	10	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	11	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	15	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	18	0.31
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	20	0.31
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	2	0.31
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	4	0.31
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	10	0.31
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	15	0.31
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	18	0.31
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	2	0.31
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	4	0.31
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	11	0.31
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	14	0.31
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	15	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD11	8	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD12	8	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD13	8	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD21	8	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD22	8	0.31
(1,973)	1:X:458:ILE:HG13	1:X:476:LEU:HD23	8	0.31
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	7	0.31
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	19	0.31
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	17	0.31
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	11	0.31
(1,934)	1:X:449:PHE:HA	1:X:452:GLU:HB3	6	0.31
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	15	0.31
(1,892)	1:X:474:LYS:H	1:X:474:LYS:HD3	15	0.31
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	2	0.31
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	14	0.31
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	17	0.31
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	18	0.31
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	19	0.31
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	13	0.31
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	3	0.31
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	3	0.31
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	3	0.31
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	3	0.31
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	9	0.31
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	19	0.31
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	10	0.31
(2,57)	1:X:484:ASP:O	1:X:488:LYS:N	15	0.3
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	4	0.3
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	14	0.3
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	1	0.3
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	5	0.3
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	11	0.3
(2,49)	1:X:470:SER:O	1:X:474:LYS:N	20	0.3
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	12	0.3
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	5	0.3
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	12	0.3
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	14	0.3
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	19	0.3
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	6	0.3
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	12	0.3
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	18	0.3
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	10	0.3
(1,967)	1:X:458:ILE:H	1:X:458:ILE:HG13	16	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	14	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	14	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	14	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	14	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	14	0.3
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	14	0.3
(1,949)	1:X:455:LYS:HA	1:X:455:LYS:HE3	17	0.3
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	2	0.3
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	15	0.3
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	6	0.3
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	2	0.3
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	18	0.3
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	1	0.3
(1,500)	1:X:434:GLU:HB3	1:X:435:LEU:H	16	0.3
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	10	0.3
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	11	0.3
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	12	0.3
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	12	0.3
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	12	0.3
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	12	0.3
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	12	0.3
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	12	0.3
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	17	0.3
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	12	0.3
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	14	0.3
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	19	0.3
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	5	0.3
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	3	0.3
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	18	0.3
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	4	0.3
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	4	0.3
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	4	0.3
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	12	0.3
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	13	0.3
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	10	0.3
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	11	0.3
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	13	0.29
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	14	0.29
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	9	0.29
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	10	0.29
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	17	0.29
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	18	0.29
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	1	0.29
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	3	0.29
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	20	0.29
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	11	0.29
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	18	0.29
(1,975)	1:X:458:ILE:HG13	1:X:486:ARG:HD3	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	10	0.29
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	10	0.29
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	9	0.29
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	11	0.29
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	15	0.29
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	16	0.29
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	18	0.29
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	1	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	5	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	5	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	5	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	20	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	20	0.29
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	20	0.29
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	5	0.29
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	8	0.29
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	15	0.29
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	16	0.29
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	17	0.29
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	16	0.29
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	19	0.29
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	19	0.29
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	19	0.29
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	19	0.29
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	19	0.29
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	19	0.29
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	1	0.29
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	16	0.29
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	2	0.29
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	8	0.29
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	3	0.29
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	7	0.29
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	15	0.29
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	10	0.29
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	10	0.29
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	10	0.29
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	2	0.29
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	13	0.29
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	18	0.29
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	7	0.28
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	13	0.28
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	13	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	1	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	3	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	4	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	6	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	7	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	8	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	11	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	16	0.28
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	20	0.28
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	5	0.28
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	7	0.28
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	9	0.28
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	16	0.28
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	19	0.28
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	2	0.28
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	13	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	8	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	15	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	15	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	15	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	15	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	15	0.28
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	15	0.28
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	20	0.28
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	15	0.28
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	6	0.28
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	3	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	2	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	3	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	6	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	9	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	14	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	19	0.28
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	20	0.28
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	8	0.28
(1,266)	1:X:489:LYS:HA	1:X:489:LYS:HE3	5	0.28
(1,266)	1:X:489:LYS:HA	1:X:489:LYS:HE3	19	0.28
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	9	0.28
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	17	0.28
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	17	0.28
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	17	0.28
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	17	0.28
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	17	0.28
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	5	0.28
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	7	0.28
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	9	0.28
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	13	0.28
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	12	0.28
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	4	0.28
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	20	0.28
(1,1044)	1:X:478:TYR:HE1	1:X:486:ARG:HD3	4	0.28
(1,1044)	1:X:478:TYR:HE2	1:X:486:ARG:HD3	4	0.28
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	15	0.28
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	15	0.28
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	15	0.28
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	1	0.28
(2,55)	1:X:482:GLN:O	1:X:486:ARG:N	14	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	1	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	2	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	3	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	8	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	9	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	11	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	12	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	18	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	20	0.27
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	4	0.27
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	5	0.27
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	11	0.27
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	20	0.27
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	11	0.27
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	13	0.27
(2,44)	1:X:459:ILE:O	1:X:463:GLU:N	15	0.27
(2,43)	1:X:458:ILE:O	1:X:462:LEU:N	17	0.27
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	1	0.27
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	1	0.27
(1,945)	1:X:452:GLU:H	1:X:452:GLU:HB3	6	0.27
(1,945)	1:X:452:GLU:H	1:X:452:GLU:HB3	8	0.27
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	8	0.27
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	10	0.27
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	13	0.27
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	11	0.27
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	11	0.27
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	8	0.27
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	12	0.27
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	12	0.27
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	12	0.27
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	1	0.27
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	10	0.27
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	13	0.27
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	2	0.27
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	3	0.27
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	7	0.27
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	19	0.27
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	19	0.27
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	19	0.27
(1,273)	1:X:486:ARG:HB3	1:X:489:LYS:HB3	4	0.27
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	1	0.27
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	2	0.27
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	7	0.27
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	7	0.27
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	7	0.27
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	7	0.27
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	7	0.27
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	7	0.27
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	9	0.27
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	17	0.27
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	5	0.27
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	19	0.27
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	5	0.27
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	8	0.27
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	9	0.27
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	12	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	13	0.27
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	15	0.27
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	2	0.27
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	19	0.27
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	15	0.27
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	19	0.27
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	4	0.26
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	5	0.26
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	10	0.26
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	17	0.26
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	13	0.26
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	1	0.26
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	6	0.26
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	18	0.26
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	4	0.26
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	10	0.26
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	18	0.26
(1,945)	1:X:452:GLU:H	1:X:452:GLU:HB3	18	0.26
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	5	0.26
(1,692)	1:X:454:GLU:HG3	1:X:456:LYS:H	7	0.26
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	18	0.26
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	10	0.26
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	18	0.26
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	16	0.26
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	16	0.26
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	16	0.26
(1,310)	1:X:492:ILE:HG21	1:X:493:GLU:HB3	20	0.26
(1,310)	1:X:492:ILE:HG22	1:X:493:GLU:HB3	20	0.26
(1,310)	1:X:492:ILE:HG23	1:X:493:GLU:HB3	20	0.26
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	3	0.26
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	11	0.26
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	11	0.26
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	11	0.26
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	11	0.26
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	11	0.26
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	11	0.26
(1,204)	1:X:479:THR:HA	1:X:480:LEU:HB3	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	1	0.26
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	3	0.26
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	20	0.26
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	2	0.26
(1,1085)	1:X:494:LEU:HA	1:X:495:LYS:HB3	14	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	1	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	2	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	3	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	7	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	10	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	11	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	14	0.26
(1,1075)	1:X:492:ILE:HB	1:X:493:GLU:HG3	17	0.26
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	3	0.26
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	10	0.26
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	15	0.26
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	10	0.26
(1,1014)	1:X:471:ARG:H	1:X:474:LYS:HG3	6	0.26
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	15	0.25
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	16	0.25
(2,54)	1:X:481:ARG:O	1:X:485:TYR:N	19	0.25
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	8	0.25
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	2	0.25
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	3	0.25
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	12	0.25
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	1	0.25
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	2	0.25
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	3	0.25
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	9	0.25
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	19	0.25
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	4	0.25
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	17	0.25
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	14	0.25
(1,937)	1:X:450:ILE:H	1:X:452:GLU:HB3	17	0.25
(1,930)	1:X:432:LEU:HD11	1:X:433:PRO:HD3	20	0.25
(1,930)	1:X:432:LEU:HD12	1:X:433:PRO:HD3	20	0.25
(1,930)	1:X:432:LEU:HD13	1:X:433:PRO:HD3	20	0.25
(1,930)	1:X:432:LEU:HD21	1:X:433:PRO:HD3	20	0.25
(1,930)	1:X:432:LEU:HD22	1:X:433:PRO:HD3	20	0.25
(1,930)	1:X:432:LEU:HD23	1:X:433:PRO:HD3	20	0.25
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	1	0.25
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	4	0.25
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	10	0.25
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	16	0.25
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	1	0.25
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	3	0.25
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	9	0.25
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	8	0.25
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	14	0.25
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	11	0.25
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	12	0.25
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	5	0.25
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	13	0.25
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	18	0.25
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	18	0.25
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	18	0.25
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	18	0.25
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	18	0.25
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	18	0.25
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	18	0.25
(1,212)	1:X:480:LEU:HB3	1:X:480:LEU:HG	10	0.25
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	14	0.25
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	4	0.25
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	4	0.25
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	10	0.25
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	11	0.25
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	17	0.25
(1,1057)	1:X:485:TYR:HB3	1:X:486:ARG:HG3	4	0.25
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	1	0.25
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	1	0.25
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	1	0.25
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	5	0.25
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	5	0.25
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	20	0.25
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	20	0.25
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	20	0.25
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	17	0.24
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	7	0.24
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	19	0.24
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	5	0.24
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	13	0.24
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	14	0.24
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	8	0.24
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	8	0.24
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	8	0.24
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	2	0.24
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	10	0.24
(1,929)	1:X:432:LEU:HB3	1:X:433:PRO:HD3	7	0.24
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	5	0.24
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	17	0.24
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	1	0.24
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	4	0.24
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	4	0.24
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	4	0.24
(1,345)	1:X:463:GLU:HA	1:X:463:GLU:HG3	4	0.24
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	5	0.24
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	18	0.24
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	19	0.24
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	9	0.24
(1,1090)	1:X:495:LYS:HB3	1:X:495:LYS:HE3	14	0.24
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD11	10	0.24
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD12	10	0.24
(1,1065)	1:X:486:ARG:HG3	1:X:487:ILE:HD13	10	0.24
(1,1057)	1:X:485:TYR:HB3	1:X:486:ARG:HG3	10	0.24
(1,1056)	1:X:483:LEU:HA	1:X:486:ARG:HD3	10	0.24
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	10	0.24
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	11	0.24
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	11	0.24
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	11	0.24
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	18	0.24
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	18	0.24
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	18	0.24
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	8	0.24
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	3	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	4	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	5	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	7	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	9	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	10	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	11	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	12	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	16	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	19	0.23
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	20	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	6	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	7	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	8	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	16	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	17	0.23
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	20	0.23
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	3	0.23
(1,869)	1:X:495:LYS:HG3	1:X:496:LYS:H	17	0.23
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	1	0.23
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	13	0.23
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	16	0.23
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	16	0.23
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	16	0.23
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	4	0.23
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	13	0.23
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	13	0.23
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	14	0.23
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	14	0.23
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	4	0.23
(1,1089)	1:X:495:LYS:HB3	1:X:495:LYS:HD3	6	0.23
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	1	0.23
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	3	0.23
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	6	0.23
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	19	0.23
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	8	0.22
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	2	0.22
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	6	0.22
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	18	0.22
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	9	0.22
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	6	0.22
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	6	0.22
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	13	0.22
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	16	0.22
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	19	0.22
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	12	0.22
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	20	0.22
(1,803)	1:X:489:LYS:H	1:X:489:LYS:HE3	8	0.22
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	4	0.22
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	12	0.22
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	5	0.22
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	12	0.22
(1,1074)	1:X:489:LYS:HD3	1:X:490:TYR:H	13	0.22
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	7	0.22
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	9	0.22
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	2	0.22
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	7	0.22
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	18	0.22
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	1	0.22
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	5	0.22
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	11	0.22
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	2	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	5	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	7	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	10	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	11	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	15	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	20	0.21
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	9	0.21
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	12	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD11	13	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD12	13	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD13	13	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD21	13	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD22	13	0.21
(1,966)	1:X:457:ARG:HD3	1:X:476:LEU:HD23	13	0.21
(1,960)	1:X:457:ARG:HA	1:X:457:ARG:HG3	9	0.21
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	5	0.21
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	10	0.21
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	9	0.21
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	18	0.21
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	4	0.21
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	20	0.21
(1,633)	1:X:468:VAL:H	1:X:471:ARG:HD3	14	0.21
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	13	0.21
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	2	0.21
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	2	0.21
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	2	0.21
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	6	0.21
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	6	0.21
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	6	0.21
(1,235)	1:X:483:LEU:HD11	1:X:486:ARG:HB3	20	0.21
(1,235)	1:X:483:LEU:HD12	1:X:486:ARG:HB3	20	0.21
(1,235)	1:X:483:LEU:HD13	1:X:486:ARG:HB3	20	0.21
(1,235)	1:X:483:LEU:HD21	1:X:486:ARG:HB3	20	0.21
(1,235)	1:X:483:LEU:HD22	1:X:486:ARG:HB3	20	0.21
(1,235)	1:X:483:LEU:HD23	1:X:486:ARG:HB3	20	0.21
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	11	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	1	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	1	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	2	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	2	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	4	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	4	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	5	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	5	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	6	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	6	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	9	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	9	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	10	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	10	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	11	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	11	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	12	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	12	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	15	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	15	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	16	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	16	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	17	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	17	0.21
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	18	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	20	0.21
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	20	0.21
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	20	0.21
(1,138)	1:X:467:TYR:HB3	1:X:496:LYS:HE3	6	0.21
(1,1096)	1:X:497:PHE:H	1:X:497:PHE:HB3	3	0.21
(1,1091)	1:X:495:LYS:HB3	1:X:496:LYS:H	5	0.21
(1,1089)	1:X:495:LYS:HB3	1:X:495:LYS:HD3	7	0.21
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	15	0.21
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	2	0.21
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	12	0.21
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	15	0.21
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	1	0.21
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	15	0.21
(1,1056)	1:X:483:LEU:HA	1:X:486:ARG:HD3	6	0.21
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	12	0.21
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	18	0.21
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	20	0.21
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	1	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	3	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	12	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	16	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	17	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	18	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	19	0.2
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	14	0.2
(2,45)	1:X:460:GLU:O	1:X:464:LYS:N	15	0.2
(1,998)	1:X:464:LYS:HB3	1:X:465:THR:H	5	0.2
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	1	0.2
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	12	0.2
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	20	0.2
(1,864)	1:X:495:LYS:H	1:X:495:LYS:HD3	1	0.2
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	3	0.2
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	13	0.2
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	18	0.2
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	6	0.2
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	12	0.2
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	8	0.2
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	3	0.2
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	3	0.2
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	7	0.2
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	7	0.2
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	8	0.2
(1,221)	1:X:478:TYR:HD1	1:X:483:LEU:HB3	19	0.2
(1,221)	1:X:478:TYR:HD2	1:X:483:LEU:HB3	19	0.2
(1,1087)	1:X:494:LEU:HG	1:X:495:LYS:HB3	7	0.2
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	11	0.2
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	9	0.2
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	12	0.2
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	16	0.2
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	13	0.2
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	8	0.2
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	8	0.2
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	8	0.2
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	9	0.19
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	17	0.19
(2,48)	1:X:469:LYS:O	1:X:473:ALA:N	16	0.19
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	8	0.19
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	8	0.19
(1,947)	1:X:453:THR:HG21	1:X:457:ARG:HG3	16	0.19
(1,947)	1:X:453:THR:HG22	1:X:457:ARG:HG3	16	0.19
(1,947)	1:X:453:THR:HG23	1:X:457:ARG:HG3	16	0.19
(1,945)	1:X:452:GLU:H	1:X:452:GLU:HB3	5	0.19
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	7	0.19
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	17	0.19
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	9	0.19
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	10	0.19
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	11	0.19
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	12	0.19
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	18	0.19
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	10	0.19
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	15	0.19
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	15	0.19
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	15	0.19
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	13	0.19
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	19	0.19
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	14	0.19
(1,1095)	1:X:496:LYS:HB3	1:X:496:LYS:HE3	12	0.19
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	16	0.19
(1,1072)	1:X:489:LYS:HA	1:X:489:LYS:HD3	18	0.19
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	16	0.19
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	17	0.19
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	20	0.19
(1,1060)	1:X:486:ARG:H	1:X:486:ARG:HD3	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	9	0.19
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	8	0.19
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	4	0.19
(2,53)	1:X:480:LEU:O	1:X:484:ASP:N	15	0.18
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	8	0.18
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	17	0.18
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	19	0.18
(1,995)	1:X:464:LYS:H	1:X:464:LYS:HG3	5	0.18
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	2	0.18
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	6	0.18
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	7	0.18
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	16	0.18
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD1	13	0.18
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD2	13	0.18
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	18	0.18
(1,600)	1:X:466:GLY:H	1:X:471:ARG:HD3	4	0.18
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	11	0.18
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	11	0.18
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	11	0.18
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	9	0.18
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	15	0.18
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	7	0.18
(1,1092)	1:X:495:LYS:HB3	1:X:496:LYS:HB3	18	0.18
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	12	0.18
(1,1063)	1:X:486:ARG:HB3	1:X:486:ARG:HD3	8	0.18
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	5	0.18
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	12	0.18
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	18	0.18
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	20	0.18
(1,1061)	1:X:486:ARG:HA	1:X:486:ARG:HG3	14	0.18
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	8	0.18
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	17	0.18
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	19	0.18
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	19	0.18
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	19	0.18
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	5	0.18
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	4	0.17
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	6	0.17
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	10	0.17
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	2	0.17
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	3	0.17
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	9	0.17
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	15	0.17
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	16	0.17
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	14	0.17
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	16	0.17
(1,931)	1:X:433:PRO:HD3	1:X:434:GLU:H	19	0.17
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	4	0.17
(1,712)	1:X:479:THR:H	1:X:482:GLN:HB3	13	0.17
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	11	0.17
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	20	0.17
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	5	0.17
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	6	0.17
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	14	0.17
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	2	0.17
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	11	0.17
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	17	0.17
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	10	0.17
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	10	0.17
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	10	0.17
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	5	0.17
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	14	0.17
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	3	0.17
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	19	0.17
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	2	0.17
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	2	0.17
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	2	0.17
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	3	0.17
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	3	0.17
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	3	0.17
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	7	0.17
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	7	0.17
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	7	0.17
(1,1089)	1:X:495:LYS:HB3	1:X:495:LYS:HD3	10	0.17
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	5	0.17
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	14	0.17
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	5	0.17
(1,1071)	1:X:489:LYS:H	1:X:489:LYS:HD3	19	0.17
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	17	0.17
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	1	0.17
(1,1002)	1:X:464:LYS:HG3	1:X:465:THR:H	5	0.17
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	7	0.16
(2,50)	1:X:471:ARG:O	1:X:475:LEU:N	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	5	0.16
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	16	0.16
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	19	0.16
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	8	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	6	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	6	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	6	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	6	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	6	0.16
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	6	0.16
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	1	0.16
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	4	0.16
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	1	0.16
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	12	0.16
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	15	0.16
(1,944)	1:X:451:GLU:HG3	1:X:453:THR:H	10	0.16
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	2	0.16
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	11	0.16
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	8	0.16
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	9	0.16
(1,935)	1:X:450:ILE:H	1:X:450:ILE:HG13	19	0.16
(1,852)	1:X:493:GLU:HB3	1:X:494:LEU:H	20	0.16
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	17	0.16
(1,712)	1:X:479:THR:H	1:X:482:GLN:HB3	18	0.16
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	1	0.16
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	5	0.16
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	9	0.16
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	14	0.16
(1,360)	1:X:448:LYS:HA	1:X:451:GLU:HB3	10	0.16
(1,339)	1:X:471:ARG:HA	1:X:474:LYS:HB3	17	0.16
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	3	0.16
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	15	0.16
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	2	0.16
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	8	0.16
(1,1088)	1:X:494:LEU:HG	1:X:496:LYS:HB3	20	0.16
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	10	0.16
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	17	0.16
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	9	0.16
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	11	0.16
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	19	0.16
(1,1061)	1:X:486:ARG:HA	1:X:486:ARG:HG3	13	0.16
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:X:474:LYS:HA	1:X:474:LYS:HG3	16	0.16
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	2	0.16
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	2	0.16
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	2	0.16
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	3	0.16
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	3	0.16
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	3	0.16
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	7	0.16
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	7	0.16
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	7	0.16
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	9	0.16
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	9	0.16
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	9	0.16
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	12	0.16
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	12	0.16
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	12	0.16
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	11	0.16
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	14	0.16
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	20	0.16
(1,1015)	1:X:471:ARG:HA	1:X:474:LYS:HG3	4	0.16
(1,1011)	1:X:467:TYR:HB3	1:X:495:LYS:HB3	15	0.16
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	16	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	1	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	3	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	4	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	8	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	9	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	11	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	12	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	17	0.15
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	18	0.15
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	4	0.15
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	19	0.15
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	6	0.15
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	3	0.15
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	1	0.15
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	11	0.15
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	2	0.15
(1,873)	1:X:496:LYS:H	1:X:496:LYS:HG3	6	0.15
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD1	14	0.15
(1,764)	1:X:485:TYR:H	1:X:485:TYR:HD2	14	0.15
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	3	0.15
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	8	0.15
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	15	0.15
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	18	0.15
(1,508)	1:X:448:LYS:HB3	1:X:450:ILE:H	19	0.15
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	4	0.15
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	10	0.15
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	13	0.15
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	13	0.15
(1,228)	1:X:480:LEU:HG	1:X:484:ASP:HB3	16	0.15
(1,214)	1:X:481:ARG:HB3	1:X:481:ARG:HD3	16	0.15
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	5	0.15
(1,1068)	1:X:488:LYS:H	1:X:489:LYS:HD3	19	0.15
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	1	0.15
(1,1062)	1:X:486:ARG:HA	1:X:486:ARG:HD3	16	0.15
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	11	0.15
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	14	0.15
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	17	0.15
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	17	0.15
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	17	0.15
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	18	0.15
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	4	0.14
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	8	0.14
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	17	0.14
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	2	0.14
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	5	0.14
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	11	0.14
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	2	0.14
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	7	0.14
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	15	0.14
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	20	0.14
(1,997)	1:X:464:LYS:HB3	1:X:464:LYS:HD3	19	0.14
(1,979)	1:X:458:ILE:HD11	1:X:486:ARG:HG3	4	0.14
(1,979)	1:X:458:ILE:HD12	1:X:486:ARG:HG3	4	0.14
(1,979)	1:X:458:ILE:HD13	1:X:486:ARG:HG3	4	0.14
(1,959)	1:X:457:ARG:H	1:X:457:ARG:HD3	7	0.14
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	7	0.14
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	10	0.14
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	3	0.14
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	17	0.14
(1,893)	1:X:474:LYS:HD3	1:X:475:LEU:H	18	0.14
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,852)	1:X:493:GLU:HB3	1:X:494:LEU:H	19	0.14
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	19	0.14
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	4	0.14
(1,594)	1:X:464:LYS:H	1:X:464:LYS:HD3	16	0.14
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	19	0.14
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	18	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	4	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	4	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	4	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	6	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	6	0.14
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	6	0.14
(1,271)	1:X:489:LYS:HB3	1:X:489:LYS:HE3	14	0.14
(1,248)	1:X:482:GLN:HB3	1:X:486:ARG:HD3	14	0.14
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	6	0.14
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	6	0.14
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	6	0.14
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	8	0.14
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	8	0.14
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	8	0.14
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	16	0.14
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	16	0.14
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	16	0.14
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	19	0.14
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	19	0.14
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	19	0.14
(1,1094)	1:X:496:LYS:HB3	1:X:496:LYS:HD3	15	0.14
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	9	0.14
(1,1044)	1:X:478:TYR:HE1	1:X:486:ARG:HD3	10	0.14
(1,1044)	1:X:478:TYR:HE2	1:X:486:ARG:HD3	10	0.14
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	4	0.14
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	12	0.14
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	19	0.14
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	10	0.13
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	19	0.13
(2,51)	1:X:472:ALA:O	1:X:476:LEU:N	8	0.13
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	10	0.13
(1,932)	1:X:445:ASP:HB3	1:X:446:LEU:H	12	0.13
(1,882)	1:X:434:GLU:H	1:X:434:GLU:HB3	6	0.13
(1,881)	1:X:433:PRO:HG3	1:X:434:GLU:H	5	0.13
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	7	0.13
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	7	0.13
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	9	0.13
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	12	0.13
(1,591)	1:X:450:ILE:HB	1:X:453:THR:H	16	0.13
(1,513)	1:X:451:GLU:H	1:X:453:THR:HG21	17	0.13
(1,513)	1:X:451:GLU:H	1:X:453:THR:HG22	17	0.13
(1,513)	1:X:451:GLU:H	1:X:453:THR:HG23	17	0.13
(1,454)	1:X:481:ARG:HA	1:X:481:ARG:HD3	4	0.13
(1,352)	1:X:454:GLU:HB3	1:X:490:TYR:HD1	4	0.13
(1,352)	1:X:454:GLU:HB3	1:X:490:TYR:HD2	4	0.13
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	7	0.13
(1,1093)	1:X:496:LYS:H	1:X:496:LYS:HB3	17	0.13
(1,1089)	1:X:495:LYS:HB3	1:X:495:LYS:HD3	9	0.13
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	9	0.13
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	1	0.13
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	3	0.13
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	11	0.13
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	13	0.13
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	15	0.13
(1,1067)	1:X:486:ARG:HD3	1:X:490:TYR:HE1	8	0.13
(1,1067)	1:X:486:ARG:HD3	1:X:490:TYR:HE2	8	0.13
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	17	0.13
(1,1054)	1:X:481:ARG:HG3	1:X:485:TYR:H	12	0.13
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	1	0.13
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	5	0.13
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	9	0.13
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	12	0.13
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	19	0.13
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	6	0.13
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	6	0.13
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	6	0.13
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	14	0.13
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	14	0.13
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	14	0.13
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	9	0.13
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	1	0.12
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	3	0.12
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	7	0.12
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	9	0.12
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	18	0.12
(2,37)	1:X:482:GLN:O	1:X:486:ARG:H	6	0.12
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD11	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD12	9	0.12
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD13	9	0.12
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD21	9	0.12
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD22	9	0.12
(1,965)	1:X:457:ARG:HG3	1:X:476:LEU:HD23	9	0.12
(1,956)	1:X:455:LYS:HE3	1:X:492:ILE:HA	18	0.12
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	7	0.12
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	8	0.12
(1,941)	1:X:451:GLU:HA	1:X:451:GLU:HG3	14	0.12
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	1	0.12
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	5	0.12
(1,939)	1:X:450:ILE:HG13	1:X:451:GLU:H	20	0.12
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	5	0.12
(1,875)	1:X:496:LYS:HG3	1:X:497:PHE:H	13	0.12
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	14	0.12
(1,866)	1:X:493:GLU:HB3	1:X:495:LYS:H	18	0.12
(1,863)	1:X:495:LYS:H	1:X:495:LYS:HG3	2	0.12
(1,802)	1:X:488:LYS:H	1:X:488:LYS:HE3	4	0.12
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	6	0.12
(1,438)	1:X:471:ARG:HA	1:X:474:LYS:HD3	19	0.12
(1,385)	1:X:461:ALA:HA	1:X:464:LYS:HD3	1	0.12
(1,372)	1:X:458:ILE:HA	1:X:476:LEU:HG	13	0.12
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD11	7	0.12
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD12	7	0.12
(1,354)	1:X:454:GLU:HG3	1:X:458:ILE:HD13	7	0.12
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	10	0.12
(1,332)	1:X:432:LEU:HB3	1:X:432:LEU:HG	16	0.12
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	12	0.12
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	16	0.12
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	19	0.12
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	9	0.12
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	9	0.12
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	9	0.12
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	12	0.12
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	12	0.12
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	12	0.12
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	13	0.12
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	13	0.12
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	13	0.12
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	14	0.12
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	14	0.12
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:X:473:ALA:HB1	1:X:474:LYS:HB3	17	0.12
(1,173)	1:X:473:ALA:HB2	1:X:474:LYS:HB3	17	0.12
(1,173)	1:X:473:ALA:HB3	1:X:474:LYS:HB3	17	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	1	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	3	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	13	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	16	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	19	0.12
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	20	0.12
(1,1081)	1:X:493:GLU:HG3	1:X:494:LEU:H	8	0.12
(1,1072)	1:X:489:LYS:HA	1:X:489:LYS:HD3	14	0.12
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	1	0.12
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	11	0.12
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	17	0.12
(1,1020)	1:X:472:ALA:HB1	1:X:475:LEU:HB3	13	0.12
(1,1020)	1:X:472:ALA:HB2	1:X:475:LEU:HB3	13	0.12
(1,1020)	1:X:472:ALA:HB3	1:X:475:LEU:HB3	13	0.12
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	6	0.12
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	13	0.12
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	13	0.11
(2,56)	1:X:483:LEU:O	1:X:487:ILE:N	14	0.11
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	2	0.11
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	5	0.11
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	11	0.11
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	12	0.11
(2,52)	1:X:479:THR:O	1:X:483:LEU:N	20	0.11
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	10	0.11
(2,47)	1:X:468:VAL:O	1:X:472:ALA:N	20	0.11
(1,975)	1:X:458:ILE:HG13	1:X:486:ARG:HD3	5	0.11
(1,958)	1:X:457:ARG:H	1:X:457:ARG:HG3	6	0.11
(1,936)	1:X:450:ILE:H	1:X:451:GLU:HG3	1	0.11
(1,892)	1:X:474:LYS:H	1:X:474:LYS:HD3	6	0.11
(1,872)	1:X:496:LYS:HA	1:X:497:PHE:H	12	0.11
(1,801)	1:X:488:LYS:H	1:X:488:LYS:HD3	5	0.11
(1,712)	1:X:479:THR:H	1:X:482:GLN:HB3	6	0.11
(1,683)	1:X:474:LYS:HB3	1:X:475:LEU:H	10	0.11
(1,659)	1:X:472:ALA:H	1:X:474:LYS:HD3	17	0.11
(1,372)	1:X:458:ILE:HA	1:X:476:LEU:HG	6	0.11
(1,357)	1:X:450:ILE:HG21	1:X:451:GLU:HB3	13	0.11
(1,357)	1:X:450:ILE:HG22	1:X:451:GLU:HB3	13	0.11
(1,357)	1:X:450:ILE:HG23	1:X:451:GLU:HB3	13	0.11
(1,246)	1:X:485:TYR:HD1	1:X:486:ARG:HD3	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:X:485:TYR:HD2	1:X:486:ARG:HD3	13	0.11
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	1	0.11
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	9	0.11
(1,237)	1:X:483:LEU:HA	1:X:486:ARG:HB3	17	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	2	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	6	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	7	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	8	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	10	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	11	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	14	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	15	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	17	0.11
(1,1082)	1:X:494:LEU:H	1:X:494:LEU:HB3	18	0.11
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	9	0.11
(1,1059)	1:X:486:ARG:H	1:X:486:ARG:HG3	12	0.11
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	18	0.11
(1,1022)	1:X:473:ALA:H	1:X:475:LEU:HB3	20	0.11
(1,1017)	1:X:472:ALA:H	1:X:475:LEU:HB3	17	0.11
(1,1011)	1:X:467:TYR:HB3	1:X:495:LYS:HB3	8	0.11

10 Dihedral-angle violation analysis

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value