



Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 08:42 AM EDT

PDB ID : 6B7G
BMRB ID : 27271
Title : Solution NMR structure of BCoR in complex with AF9 (BCoR-AF9)
Authors : Schmidt, C.R.; Kuntimaddi, A.; Leach, B.I.; Bushweller, J.H.
Deposited on : 2017-10-04

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

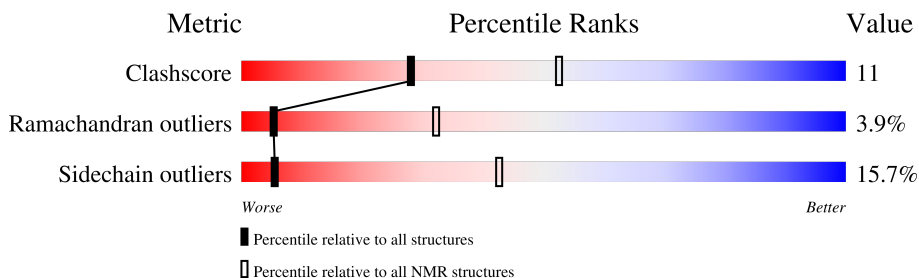
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	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	A	70	
2	B	33	

2 Ensemble composition and analysis

This entry contains 10 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:502-A:561, B:1202 (70)	0.45	5

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

Cluster number	Models
1	3, 5, 6, 10
2	4, 7, 8
3	1, 2, 9

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1680 atoms, of which 840 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Protein AF-9.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	70	1164	363	584	101	113	3	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	499	MET	-	initiating methionine	UNP P42568

- Molecule 2 is a protein called BCL-6 corepressor.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	33	516	160	256	45	54	1	0

There is a discrepancy between the modelled and reference sequences:

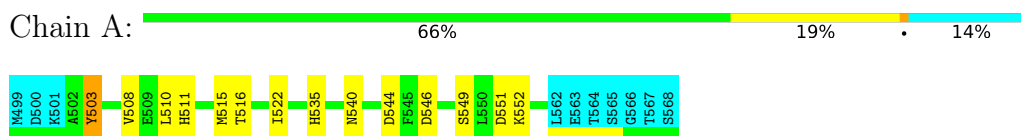
Chain	Residue	Modelled	Actual	Comment	Reference
B	1175	THR	-	expression tag	UNP Q6W2J9

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Protein AF-9



- Molecule 2: BCL-6 corepressor

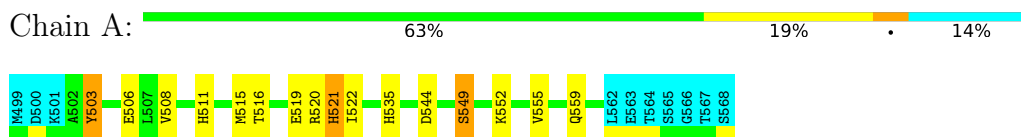


4.2 Scores per residue for each member of the ensemble

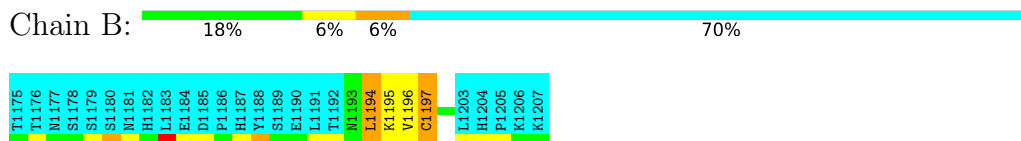
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Protein AF-9

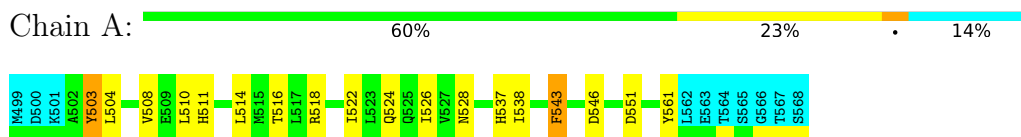


- Molecule 2: BCL-6 corepressor

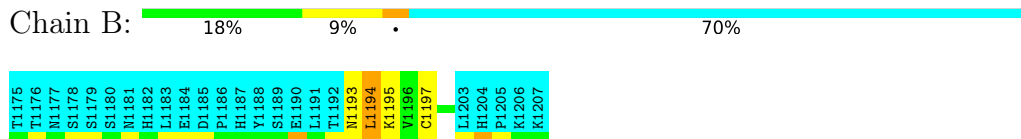


4.2.2 Score per residue for model 2

- Molecule 1: Protein AF-9

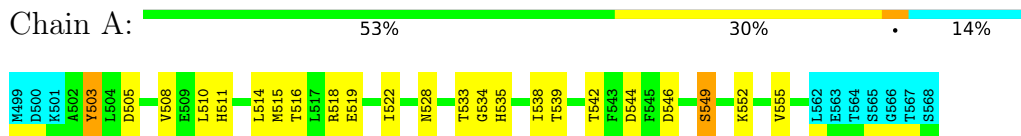


- Molecule 2: BCL-6 corepressor

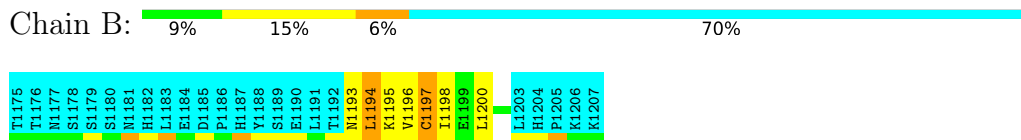


4.2.3 Score per residue for model 3

- Molecule 1: Protein AF-9

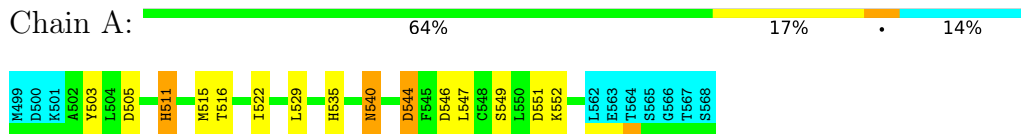


- Molecule 2: BCL-6 corepressor

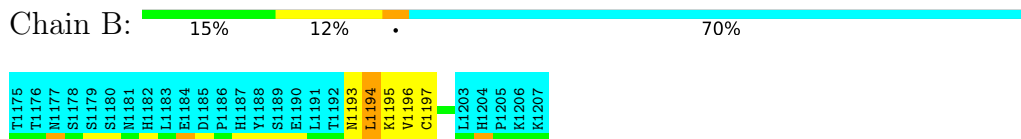


4.2.4 Score per residue for model 4

- Molecule 1: Protein AF-9

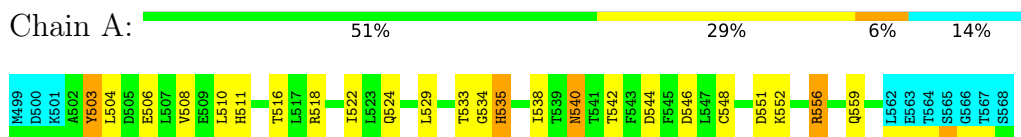


- Molecule 2: BCL-6 corepressor

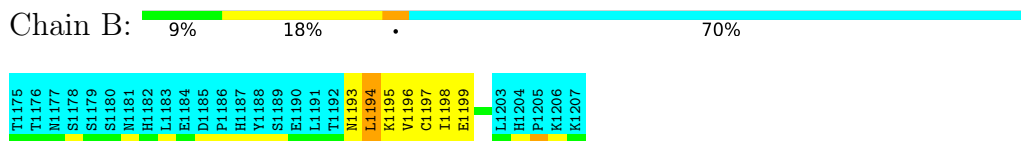


4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: Protein AF-9

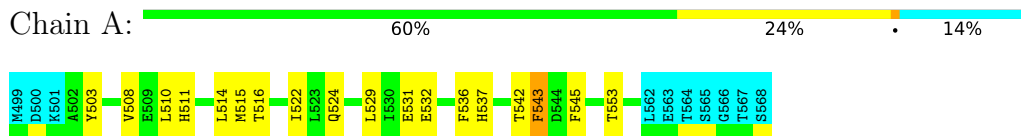


- Molecule 2: BCL-6 corepressor



4.2.6 Score per residue for model 6

- Molecule 1: Protein AF-9

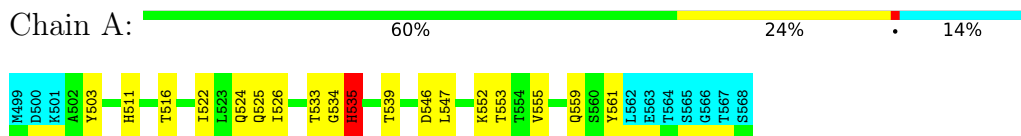


- Molecule 2: BCL-6 corepressor

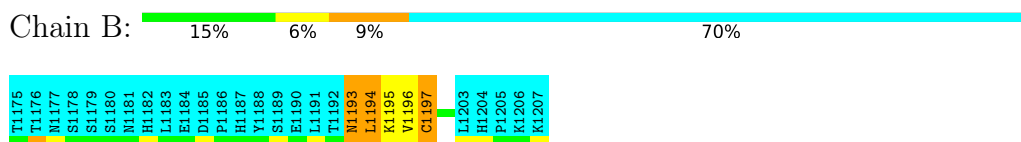


4.2.7 Score per residue for model 7

- Molecule 1: Protein AF-9

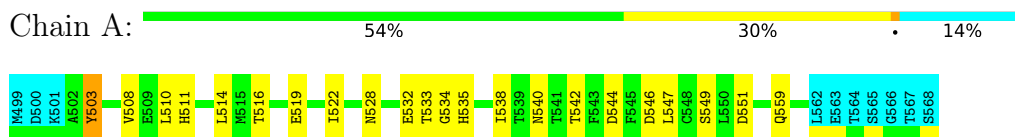


- Molecule 2: BCL-6 corepressor

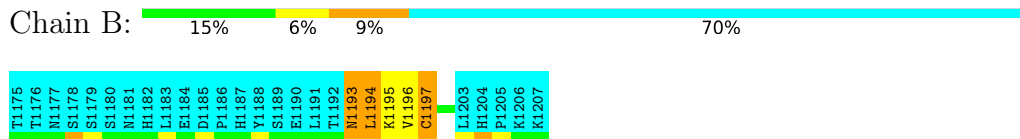


4.2.8 Score per residue for model 8

- Molecule 1: Protein AF-9

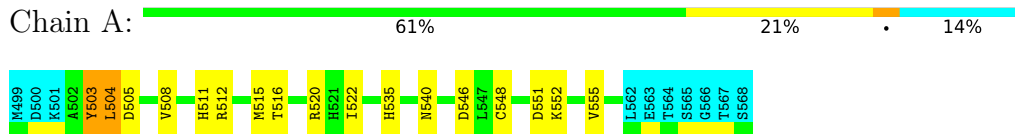


- Molecule 2: BCL-6 corepressor

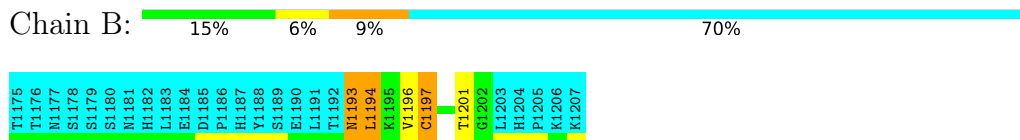


4.2.9 Score per residue for model 9

- Molecule 1: Protein AF-9

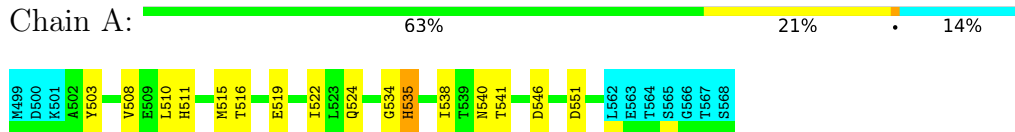


- Molecule 2: BCL-6 corepressor

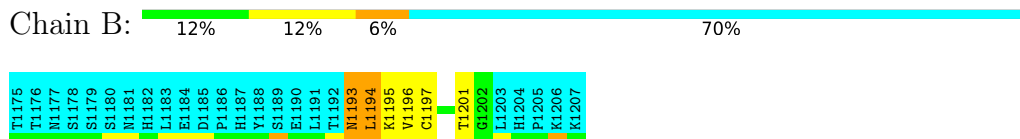


4.2.10 Score per residue for model 10

- Molecule 1: Protein AF-9



- Molecule 2: BCL-6 corepressor



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure calculation	
X-PLOR NIH	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	1247
Number of shifts mapped to atoms	1247
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	507	512	508	11±3
2	B	74	82	82	4±2
All	All	5810	5940	5900	124

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 11.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:510:LEU:O	1:A:514:LEU:HD12	0.57	1.98	3	3
1:A:511:HIS:CG	2:B:1194:LEU:HD23	0.55	2.36	1	10
1:A:547:LEU:HD12	2:B:1194:LEU:HD22	0.54	1.80	4	3
1:A:504:LEU:HD21	1:A:548:CYS:SG	0.53	2.43	9	2
1:A:520:ARG:NH2	1:A:521:HIS:CE1	0.52	2.78	1	1
1:A:522:ILE:HD12	1:A:522:ILE:N	0.51	2.20	8	7
1:A:543:PHE:O	1:A:543:PHE:CG	0.49	2.66	6	2
1:A:533:THR:HG23	1:A:534:GLY:N	0.49	2.23	3	4
1:A:522:ILE:N	1:A:522:ILE:HD12	0.46	2.24	5	3
1:A:522:ILE:N	1:A:522:ILE:CD1	0.46	2.79	1	9
2:B:1196:VAL:CG1	2:B:1197:CYS:N	0.46	2.79	5	9
1:A:543:PHE:O	1:A:543:PHE:CD2	0.46	2.69	2	1
1:A:511:HIS:NE2	2:B:1195:LYS:O	0.46	2.49	7	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:542:THR:HG23	2:B:1198:ILE:O	0.45	2.12	6	3
1:A:510:LEU:N	1:A:510:LEU:HD12	0.45	2.26	10	2
1:A:522:ILE:CD1	1:A:522:ILE:N	0.45	2.79	7	1
1:A:526:ILE:HD11	1:A:561:TYR:HB2	0.45	1.88	7	2
1:A:520:ARG:NH2	1:A:521:HIS:ND1	0.45	2.65	1	1
1:A:524:GLN:O	1:A:524:GLN:NE2	0.44	2.51	7	2
1:A:503:TYR:O	1:A:503:TYR:CD1	0.43	2.70	9	5
1:A:536:PHE:O	1:A:537:HIS:CG	0.43	2.71	6	1
1:A:543:PHE:CZ	1:A:545:PHE:CD2	0.43	3.06	6	1
1:A:510:LEU:HD12	1:A:510:LEU:N	0.43	2.28	3	2
2:B:1196:VAL:HG12	2:B:1197:CYS:N	0.43	2.27	8	5
1:A:540:ASN:ND2	1:A:541:THR:H	0.43	2.12	10	1
1:A:535:HIS:NE2	1:A:549:SER:OG	0.43	2.52	4	4
1:A:534:GLY:O	1:A:535:HIS:CG	0.43	2.72	7	2
1:A:552:LYS:O	1:A:555:VAL:N	0.43	2.52	7	4
1:A:503:TYR:O	1:A:506:GLU:N	0.43	2.50	1	1
1:A:524:GLN:NE2	1:A:524:GLN:O	0.43	2.52	6	2
1:A:544:ASP:OD1	1:A:544:ASP:N	0.43	2.52	4	1
1:A:556:ARG:NH1	1:A:559:GLN:OE1	0.43	2.51	5	1
1:A:535:HIS:CE1	1:A:549:SER:OG	0.43	2.72	4	2
1:A:534:GLY:O	1:A:535:HIS:ND1	0.43	2.52	10	1
1:A:510:LEU:N	1:A:510:LEU:CD1	0.42	2.82	3	3
1:A:518:ARG:NH1	2:B:1199:GLU:OE1	0.42	2.52	5	1
2:B:1193:ASN:OD1	2:B:1193:ASN:N	0.42	2.52	9	2
1:A:533:THR:CG2	1:A:534:GLY:N	0.42	2.83	7	4
1:A:511:HIS:NE2	2:B:1195:LYS:N	0.42	2.68	7	1
1:A:510:LEU:O	1:A:514:LEU:N	0.41	2.53	2	1
1:A:529:LEU:C	1:A:531:GLU:N	0.41	2.74	6	1
1:A:535:HIS:CD2	1:A:549:SER:OG	0.41	2.74	8	1
1:A:511:HIS:HE2	2:B:1195:LYS:H	0.41	1.59	5	1
1:A:505:ASP:N	1:A:505:ASP:OD1	0.40	2.51	9	1
1:A:552:LYS:CG	1:A:553:THR:N	0.40	2.84	7	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	60/70 (86%)	48±1 (80±2%)	11±1 (19±2%)	1±1 (2±1%)	14	59
2	B	10/33 (30%)	8±1 (77±6%)	0±1 (5±7%)	2±0 (18±4%)	0	3
All	All	700/1030 (68%)	555 (79%)	118 (17%)	27 (4%)	5	32

All 5 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	1194	LEU	10
2	B	1193	ASN	8
1	A	540	ASN	4
1	A	519	GLU	3
1	A	535	HIS	2

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	58/67 (87%)	48±2 (84±4%)	10±2 (16±4%)	5	41
2	B	9/32 (28%)	8±1 (89±9%)	1±1 (11±9%)	9	53
All	All	670/990 (68%)	565 (84%)	105 (16%)	5	42

All 34 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	503	TYR	10
1	A	516	THR	10
1	A	508	VAL	8
1	A	546	ASP	8
1	A	515	MET	6
2	B	1197	CYS	6
1	A	551	ASP	6
1	A	544	ASP	5
1	A	538	ILE	5
1	A	528	ASN	3
1	A	535	HIS	3

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Mol	Chain	Res	Type	Models (Total)
1	A	549	SER	2
1	A	504	LEU	2
1	A	518	ARG	2
1	A	543	PHE	2
1	A	505	ASP	2
1	A	539	THR	2
1	A	529	LEU	2
1	A	540	ASN	2
1	A	552	LYS	2
1	A	532	GLU	2
2	B	1193	ASN	2
2	B	1201	THR	2
1	A	521	HIS	1
1	A	537	HIS	1
1	A	519	GLU	1
1	A	511	HIS	1
1	A	506	GLU	1
1	A	556	ARG	1
1	A	553	THR	1
1	A	525	GLN	1
1	A	542	THR	1
1	A	512	ARG	1
1	A	520	ARG	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 89% for the well-defined parts and 86% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *BCoRAF9shifts_NMRSTAR_reformat2.tab*

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	1247
Number of shifts mapped to atoms	1247
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	102	2.47 ± 0.18	Should be applied
$^{13}\text{C}_\beta$	99	2.77 ± 0.08	Should be applied
$^{13}\text{C}'$	97	2.59 ± 0.13	Should be applied
^{15}N	98	-0.34 ± 0.61	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 919 atoms were assigned a chemical shift out of a possible 1032. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	352/352 (100%)	142/142 (100%)	140/140 (100%)	70/70 (100%)
Sidechain	523/600 (87%)	357/390 (92%)	160/186 (86%)	6/24 (25%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	44/80 (55%)	22/39 (56%)	22/33 (67%)	0/8 (0%)
Overall	919/1032 (89%)	521/571 (91%)	322/359 (90%)	76/102 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 86%, i.e. 1247 atoms were assigned a chemical shift out of a possible 1446. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	498/514 (97%)	201/207 (97%)	199/206 (97%)	98/101 (97%)
Sidechain	697/822 (85%)	468/533 (88%)	223/260 (86%)	6/29 (21%)
Aromatic	52/110 (47%)	26/55 (47%)	26/44 (59%)	0/11 (0%)
Overall	1247/1446 (86%)	695/795 (87%)	448/510 (88%)	104/141 (74%)

7.1.4 Statistically unusual chemical shifts [i](#)

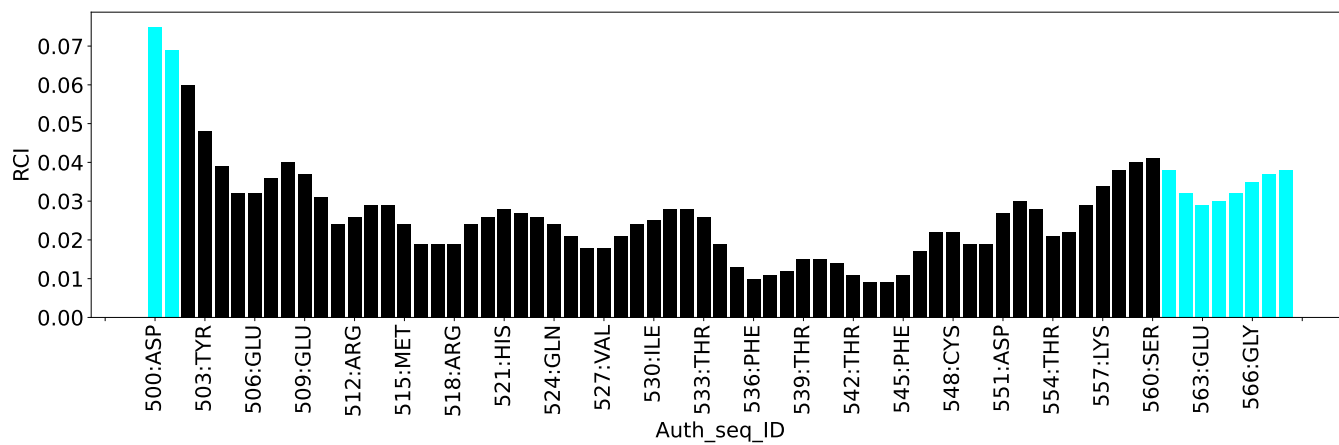
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	544	ASP	HA	6.17	3.04 – 6.12	5.2

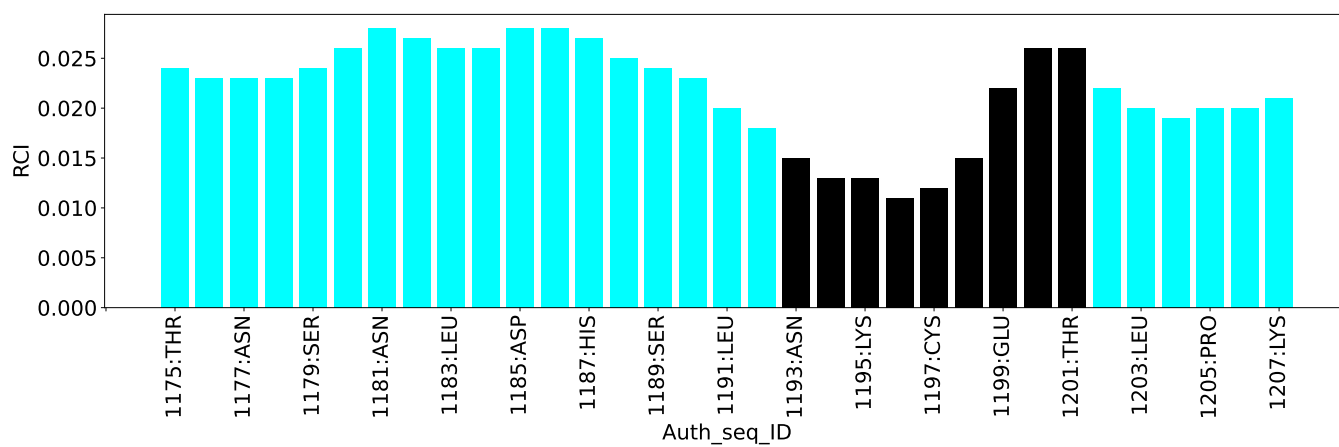
7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



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	1744
Intra-residue ($ i-j =0$)	1002
Sequential ($ i-j =1$)	350
Medium range ($ i-j >1$ and $ i-j <5$)	175
Long range ($ i-j \geq 5$)	106
Inter-chain	111
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	132
Number of unmapped restraints	0
Number of restraints per residue	18.2
Number of long range restraints per residue ¹	1.0

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)	28.3	0.2
0.2-0.5 (Medium)	78.0	0.5
>0.5 (Large)	0.9	0.59

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	6.6	2.5
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis

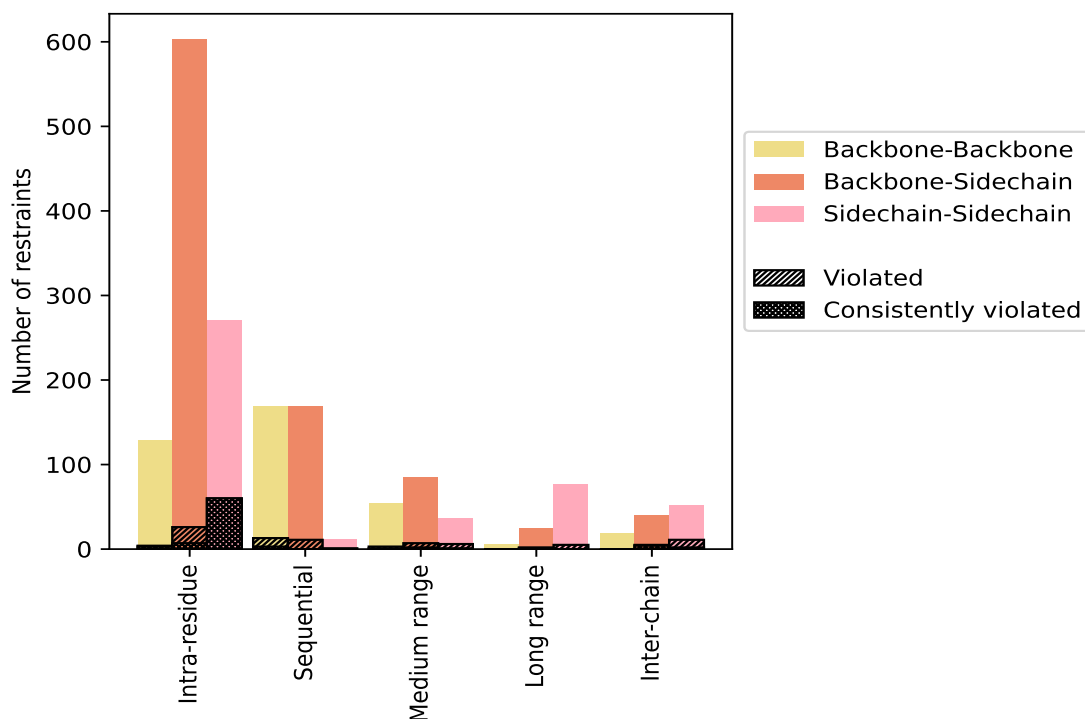
9.1 Summary of distance violations

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1002	57.5	90	9.0	5.2	70	7.0	4.0
Backbone-Backbone	129	7.4	4	3.1	0.2	3	2.3	0.2
Backbone-Sidechain	603	34.6	26	4.3	1.5	7	1.2	0.4
Sidechain-Sidechain	270	15.5	60	22.2	3.4	60	22.2	3.4
Sequential ($i-j =1$)	350	20.1	25	7.1	1.4	3	0.9	0.2
Backbone-Backbone	169	9.7	13	7.7	0.7	3	1.8	0.2
Backbone-Sidechain	169	9.7	11	6.5	0.6	0	0.0	0.0
Sidechain-Sidechain	12	0.7	1	8.3	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	175	10.0	16	9.1	0.9	4	2.3	0.2
Backbone-Backbone	54	3.1	3	5.6	0.2	1	1.9	0.1
Backbone-Sidechain	85	4.9	7	8.2	0.4	2	2.4	0.1
Sidechain-Sidechain	36	2.1	6	16.7	0.3	1	2.8	0.1
Long range ($i-j \geq 5$)	106	6.1	7	6.6	0.4	1	0.9	0.1
Backbone-Backbone	6	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	24	1.4	2	8.3	0.1	1	4.2	0.1
Sidechain-Sidechain	76	4.4	5	6.6	0.3	0	0.0	0.0
Inter-chain	111	6.4	16	14.4	0.9	6	5.4	0.3
Backbone-Backbone	19	1.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	40	2.3	5	12.5	0.3	4	10.0	0.2
Sidechain-Sidechain	52	3.0	11	21.2	0.6	2	3.8	0.1
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1744	100.0	154	8.8	8.8	84	4.8	4.8
Backbone-Backbone	377	21.6	20	5.3	1.1	7	1.9	0.4
Backbone-Sidechain	921	52.8	51	5.5	2.9	14	1.5	0.8
Sidechain-Sidechain	446	25.6	83	18.6	4.8	63	14.1	3.6

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](#)

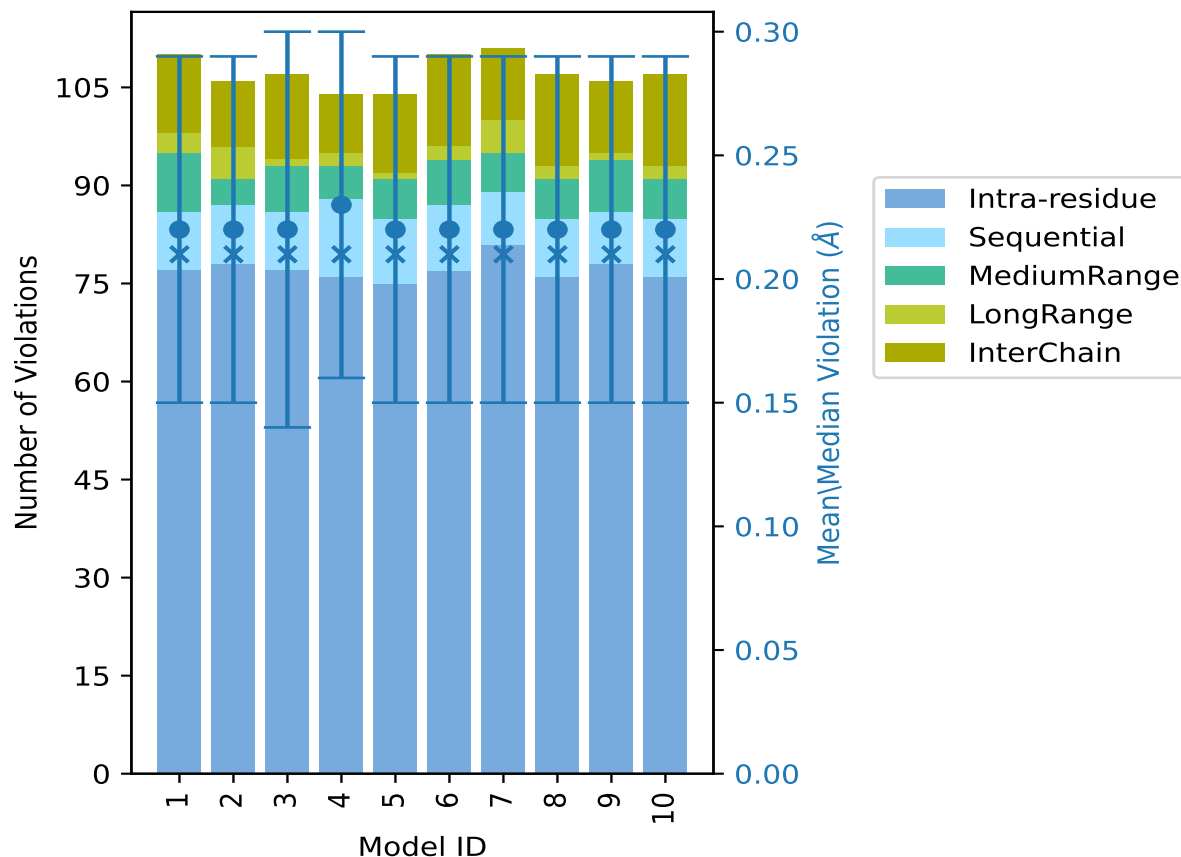
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

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	77	9	9	3	12	110	0.22	0.51	0.07	0.21
2	78	9	4	5	10	106	0.22	0.49	0.07	0.21
3	77	9	7	1	13	107	0.22	0.56	0.08	0.21
4	76	12	5	2	9	104	0.23	0.53	0.07	0.21
5	75	10	6	1	12	104	0.22	0.55	0.07	0.21
6	77	10	7	2	14	110	0.22	0.59	0.07	0.21
7	81	8	6	5	11	111	0.22	0.52	0.07	0.21
8	76	9	6	2	14	107	0.22	0.49	0.07	0.21
9	78	8	8	1	11	106	0.22	0.51	0.07	0.21
10	76	9	6	2	14	107	0.22	0.53	0.07	0.21

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 [i](#)



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

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1590(IR:912, SQ:325, MR:159, LR:99, IC:95) 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	%
5	10	6	2	1	24	1	10.0
2	4	1	0	0	7	2	20.0
3	2	4	4	1	14	3	30.0
5	1	1	0	1	8	4	40.0

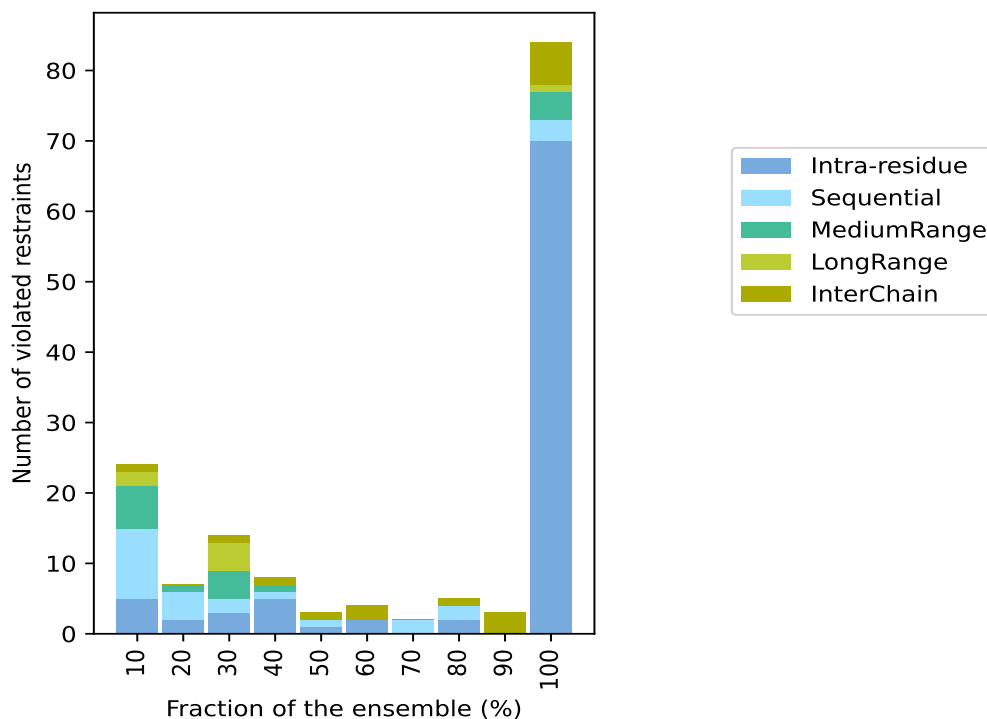
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	1	0	0	1	3	5	50.0
2	0	0	0	2	4	6	60.0
0	2	0	0	0	2	7	70.0
2	2	0	0	1	5	8	80.0
0	0	0	0	3	3	9	90.0
70	3	4	1	6	84	10	100.0

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

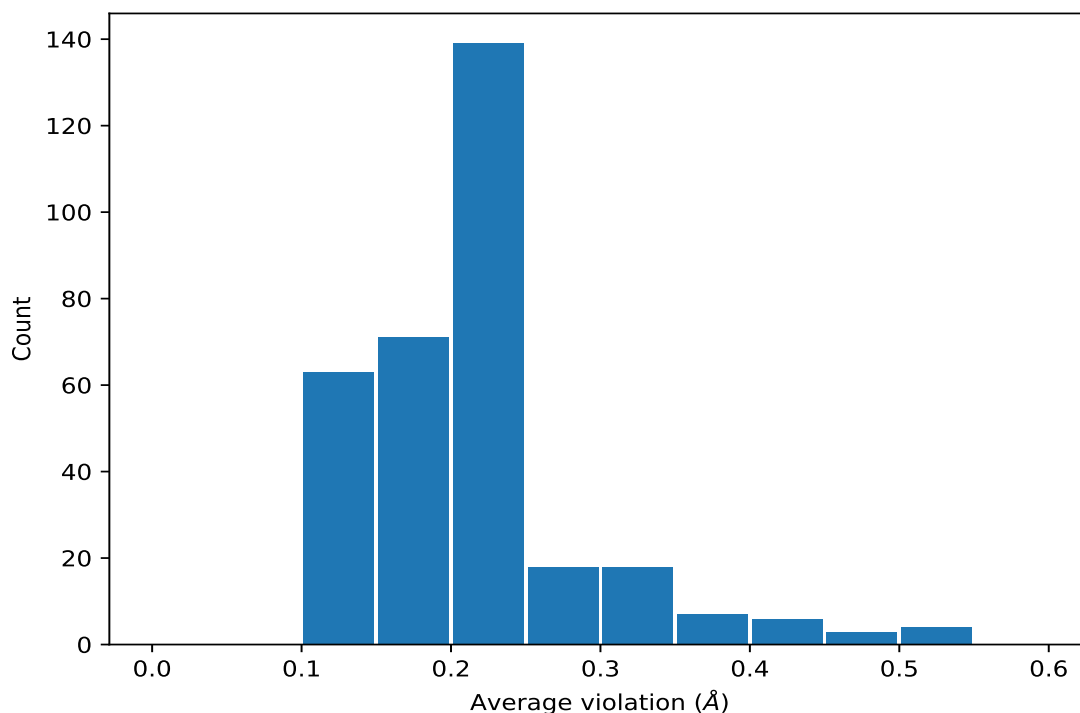
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	10	0.53	0.03	0.52
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	10	0.53	0.03	0.52
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	10	0.46	0.02	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	10	0.46	0.02	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	10	0.46	0.02	0.47
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	10	0.42	0.01	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	10	0.42	0.01	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	10	0.42	0.01	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	10	0.4	0.03	0.41
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	10	0.4	0.03	0.41
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	10	0.4	0.03	0.41
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	10	0.39	0.01	0.38
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	10	0.39	0.01	0.38
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	10	0.39	0.01	0.38
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	10	0.35	0.01	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	10	0.34	0.01	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	10	0.34	0.01	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	10	0.34	0.01	0.34
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	10	0.33	0.04	0.32
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	10	0.33	0.04	0.32
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	10	0.33	0.04	0.32
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	10	0.31	0.11	0.36
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	10	0.31	0.11	0.36
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	10	0.3	0.07	0.27
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	10	0.3	0.07	0.27
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	10	0.29	0.02	0.3
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	10	0.26	0.01	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	10	0.26	0.01	0.26
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	10	0.26	0.01	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	10	0.26	0.01	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	10	0.26	0.0	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	10	0.26	0.0	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	10	0.26	0.0	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	10	0.26	0.0	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	10	0.26	0.0	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	10	0.26	0.0	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	10	0.26	0.0	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	10	0.26	0.0	0.26
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	10	0.25	0.05	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	10	0.25	0.05	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	10	0.25	0.05	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	10	0.24	0.0	0.24
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	10	0.22	0.0	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	10	0.22	0.0	0.22
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	10	0.22	0.03	0.22
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	10	0.22	0.03	0.22
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	10	0.22	0.03	0.22
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	10	0.22	0.03	0.22
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	10	0.22	0.03	0.22
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	10	0.22	0.03	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	10	0.22	0.0	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	10	0.22	0.0	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	10	0.22	0.0	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	10	0.22	0.0	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	10	0.22	0.0	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	10	0.22	0.0	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	10	0.22	0.0	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	10	0.22	0.0	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	10	0.22	0.0	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	10	0.22	0.0	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	10	0.22	0.0	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	10	0.22	0.0	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	10	0.22	0.0	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	10	0.22	0.0	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	10	0.22	0.0	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	10	0.22	0.0	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	10	0.22	0.0	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	10	0.22	0.0	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	10	0.22	0.0	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	10	0.22	0.0	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	10	0.22	0.0	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	10	0.22	0.0	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	10	0.22	0.0	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	10	0.22	0.0	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	10	0.22	0.0	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	10	0.22	0.0	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	10	0.22	0.0	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	10	0.22	0.0	0.22
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	10	0.21	0.0	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	10	0.21	0.0	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	10	0.21	0.0	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	10	0.21	0.0	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	10	0.21	0.0	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	10	0.21	0.0	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	10	0.21	0.0	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	10	0.21	0.0	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	10	0.21	0.0	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	10	0.21	0.0	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	10	0.21	0.0	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	10	0.21	0.0	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	10	0.21	0.0	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	10	0.21	0.0	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	10	0.21	0.0	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	10	0.21	0.0	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	10	0.21	0.0	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	10	0.21	0.0	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	10	0.21	0.0	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	10	0.21	0.0	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	10	0.21	0.0	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	10	0.21	0.0	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	10	0.21	0.0	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	10	0.21	0.0	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	10	0.21	0.0	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	10	0.21	0.0	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	10	0.21	0.0	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	10	0.21	0.0	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	10	0.21	0.0	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	10	0.21	0.0	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	10	0.21	0.0	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	10	0.21	0.0	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	10	0.21	0.0	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	10	0.21	0.0	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	10	0.21	0.0	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	10	0.21	0.0	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	10	0.21	0.0	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	10	0.21	0.0	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	10	0.21	0.0	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	10	0.21	0.0	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	10	0.21	0.0	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	10	0.21	0.0	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	10	0.21	0.0	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	10	0.21	0.0	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	10	0.21	0.0	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	10	0.21	0.0	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	10	0.21	0.0	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	10	0.21	0.0	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	10	0.21	0.0	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	10	0.21	0.0	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	10	0.21	0.0	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	10	0.21	0.0	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	10	0.21	0.0	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	10	0.21	0.0	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	10	0.21	0.0	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	10	0.21	0.0	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	10	0.21	0.0	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	10	0.21	0.0	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	10	0.21	0.0	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	10	0.21	0.0	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	10	0.21	0.0	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	10	0.21	0.0	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	10	0.21	0.0	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	10	0.21	0.0	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	10	0.21	0.0	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	10	0.21	0.0	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	10	0.21	0.0	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	10	0.21	0.0	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	10	0.21	0.0	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	10	0.21	0.0	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	10	0.21	0.0	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	10	0.21	0.0	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	10	0.21	0.0	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	10	0.21	0.0	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	10	0.21	0.0	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	10	0.21	0.0	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	10	0.21	0.0	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	10	0.21	0.0	0.21
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	10	0.2	0.02	0.19
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	10	0.2	0.0	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	10	0.2	0.0	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	10	0.2	0.0	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	10	0.2	0.0	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	10	0.2	0.06	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	10	0.2	0.06	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	10	0.2	0.06	0.2
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	10	0.2	0.05	0.18
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	10	0.19	0.03	0.2
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	10	0.19	0.03	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	10	0.19	0.03	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	10	0.19	0.03	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	10	0.19	0.03	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	10	0.19	0.03	0.2
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	10	0.18	0.0	0.18
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	10	0.17	0.01	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	10	0.15	0.03	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	10	0.15	0.03	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	10	0.15	0.03	0.16
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	10	0.15	0.02	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	10	0.15	0.02	0.15
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	9	0.2	0.04	0.2
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	9	0.2	0.04	0.2
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	9	0.17	0.05	0.17
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	9	0.17	0.05	0.17
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	9	0.17	0.05	0.17
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	9	0.17	0.05	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	9	0.17	0.05	0.17
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	9	0.17	0.05	0.17
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	9	0.17	0.05	0.15
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	9	0.17	0.05	0.15
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	9	0.17	0.05	0.15
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	8	0.36	0.05	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	8	0.36	0.05	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	8	0.36	0.05	0.38
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	8	0.2	0.08	0.18
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	8	0.2	0.08	0.18
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	8	0.2	0.08	0.18
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	8	0.19	0.06	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	8	0.19	0.06	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	8	0.19	0.06	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	8	0.19	0.06	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	8	0.19	0.06	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	8	0.19	0.06	0.16
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	8	0.14	0.02	0.15
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	8	0.14	0.02	0.15
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	8	0.14	0.01	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	8	0.14	0.01	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	8	0.14	0.01	0.14
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	7	0.24	0.03	0.24
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	7	0.24	0.03	0.24
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	7	0.24	0.03	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	7	0.24	0.03	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	7	0.24	0.03	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	7	0.24	0.03	0.24
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	7	0.16	0.02	0.16
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	6	0.19	0.03	0.2
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	6	0.19	0.03	0.2
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	6	0.19	0.03	0.2
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	6	0.16	0.02	0.16
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	6	0.16	0.02	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	6	0.16	0.02	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	6	0.16	0.02	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	6	0.16	0.02	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	6	0.16	0.02	0.16
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	6	0.14	0.02	0.14
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	6	0.14	0.02	0.14
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	6	0.14	0.02	0.14
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	6	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	5	0.13	0.0	0.13
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	5	0.13	0.0	0.13
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	5	0.12	0.01	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	5	0.12	0.01	0.11
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	5	0.12	0.0	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	5	0.12	0.0	0.12
(1,1578)	1:A:537:HIS:H	1:A:538:ILE:HB	4	0.21	0.05	0.22
(1,651)	1:A:530:ILE:HD11	1:A:530:ILE:H	4	0.18	0.04	0.16
(1,651)	1:A:530:ILE:HD12	1:A:530:ILE:H	4	0.18	0.04	0.16
(1,651)	1:A:530:ILE:HD13	1:A:530:ILE:H	4	0.18	0.04	0.16
(1,1203)	2:B:1195:LYS:HB2	2:B:1195:LYS:H	4	0.15	0.01	0.16
(1,1203)	2:B:1195:LYS:HB3	2:B:1195:LYS:H	4	0.15	0.01	0.16
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG21	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG22	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG23	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG21	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG22	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG23	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG21	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG22	4	0.15	0.03	0.14
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG23	4	0.15	0.03	0.14
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD11	4	0.13	0.02	0.13
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD12	4	0.13	0.02	0.13
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD13	4	0.13	0.02	0.13
(1,194)	2:B:1203:LEU:HD21	2:B:1203:LEU:HA	4	0.12	0.01	0.12
(1,194)	2:B:1203:LEU:HD22	2:B:1203:LEU:HA	4	0.12	0.01	0.12
(1,194)	2:B:1203:LEU:HD23	2:B:1203:LEU:HA	4	0.12	0.01	0.12
(1,418)	1:A:516:THR:HG21	1:A:516:THR:H	4	0.11	0.0	0.11
(1,418)	1:A:516:THR:HG22	1:A:516:THR:H	4	0.11	0.0	0.11
(1,418)	1:A:516:THR:HG23	1:A:516:THR:H	4	0.11	0.0	0.11
(1,1333)	1:A:516:THR:HG21	1:A:516:THR:H	4	0.11	0.0	0.11
(1,1333)	1:A:516:THR:HG22	1:A:516:THR:H	4	0.11	0.0	0.11
(1,1333)	1:A:516:THR:HG23	1:A:516:THR:H	4	0.11	0.0	0.11
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD1	3	0.5	0.02	0.51
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD2	3	0.5	0.02	0.51

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD1	3	0.34	0.02	0.33
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD2	3	0.34	0.02	0.33
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD1	3	0.34	0.02	0.33
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD2	3	0.34	0.02	0.33
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD1	3	0.34	0.02	0.33
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD2	3	0.34	0.02	0.33
(1,1107)	1:A:503:TYR:HD1	1:A:503:TYR:H	3	0.27	0.02	0.27
(1,1107)	1:A:503:TYR:HD2	1:A:503:TYR:H	3	0.27	0.02	0.27
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD2	3	0.21	0.05	0.18
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD3	3	0.21	0.05	0.18
(1,1263)	1:A:504:LEU:H	1:A:503:TYR:H	3	0.21	0.01	0.21
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD11	3	0.18	0.03	0.17
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD12	3	0.18	0.03	0.17
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD13	3	0.18	0.03	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD11	3	0.18	0.03	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD12	3	0.18	0.03	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD13	3	0.18	0.03	0.17
(1,263)	1:A:504:LEU:H	1:A:504:LEU:HG	3	0.17	0.01	0.18
(1,1165)	1:A:561:TYR:HE1	1:A:522:ILE:HA	3	0.16	0.03	0.18
(1,1165)	1:A:561:TYR:HE2	1:A:522:ILE:HA	3	0.16	0.03	0.18
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB2	3	0.15	0.02	0.15
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB3	3	0.15	0.02	0.15
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB2	3	0.15	0.02	0.15
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB3	3	0.15	0.02	0.15
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB2	3	0.15	0.02	0.15
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB3	3	0.15	0.02	0.15
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE1	3	0.14	0.02	0.14
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE2	3	0.14	0.02	0.14
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE1	3	0.14	0.02	0.14
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE2	3	0.14	0.02	0.14
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE1	3	0.14	0.02	0.14
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE2	3	0.14	0.02	0.14
(1,1167)	1:A:561:TYR:HD1	1:A:558:LEU:HA	3	0.13	0.02	0.12
(1,1167)	1:A:561:TYR:HD2	1:A:558:LEU:HA	3	0.13	0.02	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG11	3	0.12	0.01	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG12	3	0.12	0.01	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG13	3	0.12	0.01	0.12
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD1	3	0.12	0.01	0.11
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD2	3	0.12	0.01	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD1	3	0.12	0.01	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD2	3	0.12	0.01	0.11
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD1	3	0.12	0.01	0.11

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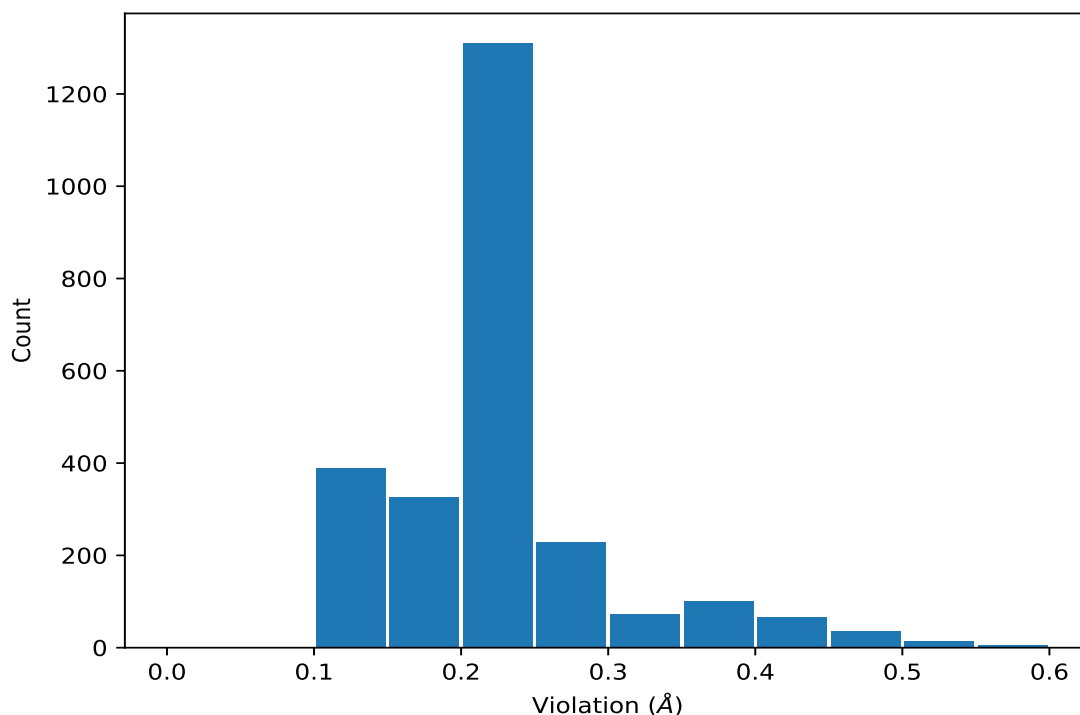
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD2	3	0.12	0.01	0.11
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD21	3	0.12	0.0	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD22	3	0.12	0.0	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD23	3	0.12	0.0	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD21	3	0.12	0.0	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD22	3	0.12	0.0	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD23	3	0.12	0.0	0.12
(1,1499)	1:A:552:LYS:HD2	1:A:552:LYS:H	2	0.3	0.12	0.3
(1,1499)	1:A:552:LYS:HD3	1:A:552:LYS:H	2	0.3	0.12	0.3
(1,559)	1:A:526:ILE:HD11	1:A:526:ILE:H	2	0.16	0.02	0.16
(1,559)	1:A:526:ILE:HD12	1:A:526:ILE:H	2	0.16	0.02	0.16
(1,559)	1:A:526:ILE:HD13	1:A:526:ILE:H	2	0.16	0.02	0.16
(1,1092)	1:A:563:GLU:HA	1:A:564:THR:H	2	0.16	0.02	0.16
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG2	2	0.14	0.03	0.14
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG3	2	0.14	0.03	0.14
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB2	2	0.12	0.01	0.12
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB3	2	0.12	0.01	0.12
(1,1242)	2:B:1204:HIS:H	2:B:1203:LEU:H	2	0.12	0.0	0.12
(1,1243)	2:B:1204:HIS:H	2:B:1203:LEU:H	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)
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	6	0.59
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	6	0.59
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	3	0.56
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	3	0.56
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	5	0.55
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	5	0.55
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	4	0.53
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	4	0.53
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	10	0.53
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	10	0.53
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD1	7	0.52
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD2	7	0.52
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	7	0.51
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	7	0.51
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	9	0.51
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD1	1	0.51
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD2	1	0.51
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	1	0.5
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	1	0.5
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	2	0.49
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	2	0.49
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG12	8	0.49
(1,1543)	1:A:561:TYR:H	1:A:526:ILE:HG13	8	0.49
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD1	4	0.48
(1,1109)	1:A:504:LEU:H	1:A:503:TYR:HD2	4	0.48
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	3	0.48
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	3	0.48
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	1	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	1	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	1	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	2	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	2	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	2	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	3	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	3	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	3	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	5	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	5	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	5	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	6	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	6	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	6	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	7	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	7	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	7	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	9	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	9	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	9	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	10	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	10	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	10	0.47
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	4	0.46
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	4	0.46
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	4	0.46
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	3	0.44
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	3	0.44
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	3	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	10	0.44
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	10	0.44
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	1	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	1	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	1	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	4	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	4	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	4	0.43
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	2	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	2	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	2	0.43
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	5	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	5	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	5	0.43
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	6	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	6	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	6	0.43
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	9	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	9	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	9	0.43
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	10	0.43
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	10	0.43
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	10	0.43
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	3	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	3	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	3	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	8	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	8	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	8	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	9	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	9	0.42
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	9	0.42
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	8	0.42
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	8	0.42
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	8	0.42
(1,1499)	1:A:552:LYS:HD2	1:A:552:LYS:H	5	0.42
(1,1499)	1:A:552:LYS:HD3	1:A:552:LYS:H	5	0.42
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	4	0.41
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	4	0.41
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	4	0.41
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD11	8	0.41
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD12	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,502)	1:A:523:LEU:HA	1:A:523:LEU:HD13	8	0.41
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	1	0.41
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	1	0.41
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	1	0.41
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	4	0.41
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	4	0.41
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	4	0.41
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	2	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	2	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	2	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	7	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	7	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	7	0.4
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	2	0.4
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	2	0.4
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	2	0.4
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	9	0.4
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	9	0.4
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	9	0.4
(1,309)	1:A:507:LEU:HD11	1:A:507:LEU:HA	7	0.4
(1,309)	1:A:507:LEU:HD12	1:A:507:LEU:HA	7	0.4
(1,309)	1:A:507:LEU:HD13	1:A:507:LEU:HA	7	0.4
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	5	0.39
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	5	0.39
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	5	0.39
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	1	0.39
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	1	0.39
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	1	0.39
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	8	0.39
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	8	0.39
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	8	0.39
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	6	0.39
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	6	0.39
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	4	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	4	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	4	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	5	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	5	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	5	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	7	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	7	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	8	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	8	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	8	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	9	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	9	0.38
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	9	0.38
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	5	0.38
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	5	0.38
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	5	0.38
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	6	0.38
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	6	0.38
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	6	0.38
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	7	0.38
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	7	0.38
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	7	0.38
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	10	0.38
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	10	0.38
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	10	0.38
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	7	0.38
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	7	0.38
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	7	0.38
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	5	0.38
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	5	0.38
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	9	0.38
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	9	0.38
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	6	0.37
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	6	0.37
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	6	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	2	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	2	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	2	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	3	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	3	0.37
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	3	0.37
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	6	0.37
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	6	0.37
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	6	0.37
(1,553)	1:A:526:ILE:HG21	1:A:526:ILE:H	3	0.37
(1,553)	1:A:526:ILE:HG22	1:A:526:ILE:H	3	0.37
(1,553)	1:A:526:ILE:HG23	1:A:526:ILE:H	3	0.37
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	8	0.37
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	8	0.37
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	10	0.37
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	10	0.37
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	3	0.36
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	5	0.36
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	4	0.36
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	4	0.36
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	4	0.36
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	5	0.36
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	5	0.36
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	5	0.36
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD1	4	0.36
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD2	4	0.36
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD1	4	0.36
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD2	4	0.36
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD1	4	0.36
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD2	4	0.36
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	6	0.36
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	6	0.36
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	8	0.36
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	8	0.36
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD11	10	0.35
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD12	10	0.35
(1,907)	1:A:550:LEU:HA	1:A:550:LEU:HD13	10	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	1	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	2	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	4	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	6	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	9	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	10	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	5	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	5	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	5	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	8	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	8	0.35
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	8	0.35
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	2	0.35
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	2	0.35
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	7	0.34
(1,67)	2:B:1194:LEU:HA	2:B:1193:ASN:H	8	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	1	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	1	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	1	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	3	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	3	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	3	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	6	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	6	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	6	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	10	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	10	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	10	0.34
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	4	0.33
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	4	0.33
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	4	0.33
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	10	0.33
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	10	0.33
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	10	0.33
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	7	0.33
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD1	1	0.33
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD2	1	0.33
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD1	1	0.33
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD2	1	0.33
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD1	1	0.33
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD2	1	0.33
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	2	0.33
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	2	0.33
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	6	0.32
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	6	0.32
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	6	0.32
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	6	0.32
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	6	0.32
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	6	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	2	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	2	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	2	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	7	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	7	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	7	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG21	9	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG22	9	0.32
(1,486)	1:A:522:ILE:H	1:A:522:ILE:HG23	9	0.32
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	7	0.32
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	7	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	2	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	2	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	2	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	9	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	9	0.32
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	9	0.32
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	3	0.32
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	3	0.32
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	3	0.32
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD1	7	0.32
(1,1163)	1:A:555:VAL:HG11	1:A:503:TYR:HD2	7	0.32
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD1	7	0.32
(1,1163)	1:A:555:VAL:HG12	1:A:503:TYR:HD2	7	0.32
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD1	7	0.32
(1,1163)	1:A:555:VAL:HG13	1:A:503:TYR:HD2	7	0.32
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	2	0.31
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	2	0.31
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	2	0.31
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	5	0.31
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	8	0.31
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	9	0.31
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	6	0.3
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	6	0.3
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	6	0.3
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	2	0.3
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD2	8	0.29
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD3	8	0.29
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	3	0.29
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	3	0.29
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	3	0.29
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	3	0.29
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	10	0.29
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	5	0.29
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	5	0.29
(1,1107)	1:A:503:TYR:HD1	1:A:503:TYR:H	4	0.29
(1,1107)	1:A:503:TYR:HD2	1:A:503:TYR:H	4	0.29
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	8	0.28
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	8	0.28
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	8	0.28
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	8	0.28
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	8	0.28
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	6	0.28
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	3	0.28
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	3	0.28
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	3	0.28
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	3	0.28
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	3	0.28
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	3	0.28
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	3	0.28
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	3	0.28
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	2	0.27
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	2	0.27
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	2	0.27
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	2	0.27
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	2	0.27
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	2	0.27
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	8	0.27
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	8	0.27
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	8	0.27
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	2	0.27
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	2	0.27
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	2	0.27
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	2	0.27
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	2	0.27
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	2	0.27
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	1	0.27
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	1	0.27
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	1	0.27
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	4	0.27
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	2	0.27
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	2	0.27
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	3	0.27
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	3	0.27
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	4	0.27
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	4	0.27
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	5	0.27
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	5	0.27
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	8	0.27
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	8	0.27
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	2	0.27
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	2	0.27
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	3	0.27
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	4	0.27
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	4	0.27
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	5	0.27
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	5	0.27
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	8	0.27
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	8	0.27
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	1	0.27
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	1	0.27
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	3	0.27
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	3	0.27
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	4	0.27
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	4	0.27
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	7	0.27
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	7	0.27
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	1	0.27
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	1	0.27
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	3	0.27
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	3	0.27
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	4	0.27
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	4	0.27
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	7	0.27
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	7	0.27
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	8	0.27
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	8	0.27
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	8	0.27
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	8	0.27
(1,1107)	1:A:503:TYR:HD1	1:A:503:TYR:H	1	0.27
(1,1107)	1:A:503:TYR:HD2	1:A:503:TYR:H	1	0.27
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	9	0.27
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	9	0.27
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	9	0.27
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	9	0.27
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	9	0.27
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	9	0.27
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	1	0.27
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	1	0.26
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	1	0.26
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	1	0.26
(1,1736)	2:B:1198:ILE:HD11	1:A:542:THR:HA	9	0.26
(1,1736)	2:B:1198:ILE:HD12	1:A:542:THR:HA	9	0.26
(1,1736)	2:B:1198:ILE:HD13	1:A:542:THR:HA	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	1	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	1	0.26
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	6	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	6	0.26
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	7	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	7	0.26
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	9	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	9	0.26
(1,1645)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	10	0.26
(1,1645)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	10	0.26
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	1	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	1	0.26
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	6	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	6	0.26
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	7	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	7	0.26
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	9	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	9	0.26
(1,1644)	1:A:524:GLN:HE21	1:A:524:GLN:HE22	10	0.26
(1,1644)	1:A:524:GLN:HE22	1:A:524:GLN:HE21	10	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	2	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	2	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	5	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	5	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	6	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	6	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	8	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	8	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	9	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	9	0.26
(1,1630)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	10	0.26
(1,1630)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	10	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	2	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	2	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	5	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	5	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	6	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	6	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	8	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	8	0.26
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	9	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1629)	1:A:528:ASN:HD21	1:A:528:ASN:HD22	10	0.26
(1,1629)	1:A:528:ASN:HD22	1:A:528:ASN:HD21	10	0.26
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	7	0.26
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	7	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	1	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	1	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	2	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	2	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	3	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	3	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	4	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	4	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	5	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	5	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	6	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	6	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	7	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	7	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	9	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	9	0.26
(1,1590)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	10	0.26
(1,1590)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	10	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	1	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	1	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	2	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	2	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	3	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	3	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	4	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	4	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	5	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	5	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	6	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	6	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	7	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	7	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	9	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	9	0.26
(1,1587)	1:A:540:ASN:HD21	1:A:540:ASN:HD22	10	0.26
(1,1587)	1:A:540:ASN:HD22	1:A:540:ASN:HD21	10	0.26
(1,1578)	1:A:537:HIS:H	1:A:538:ILE:HB	1	0.26
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	4	0.26
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	4	0.26
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	2	0.26
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	9	0.26
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	10	0.25
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	10	0.25
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	10	0.25
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	8	0.25
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	8	0.25
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	8	0.25
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	5	0.25
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	5	0.25
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	5	0.25
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	9	0.25
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	9	0.25
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	9	0.25
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	9	0.25
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	9	0.25
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	9	0.25
(1,1686)	2:B:1195:LYS:H	1:A:547:LEU:HG	1	0.25
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	9	0.25
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	10	0.25
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	1	0.25
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	1	0.25
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	4	0.25
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	4	0.25
(1,1578)	1:A:537:HIS:H	1:A:538:ILE:HB	6	0.25
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	4	0.25
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	4	0.25
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	4	0.25
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	4	0.25
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	4	0.25
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	4	0.25
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	6	0.25
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	6	0.25
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	6	0.25
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	6	0.25
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	6	0.25
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	6	0.25
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	1	0.25
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	1	0.25
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	2	0.25
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	9	0.25
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	9	0.25
(1,651)	1:A:530:ILE:HD11	1:A:530:ILE:H	2	0.24
(1,651)	1:A:530:ILE:HD12	1:A:530:ILE:H	2	0.24
(1,651)	1:A:530:ILE:HD13	1:A:530:ILE:H	2	0.24
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	3	0.24
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	3	0.24
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	3	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	6	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	6	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	6	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	10	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	10	0.24
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	10	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	1	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	2	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	3	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	4	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	5	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	6	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	7	0.24
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	10	0.24
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	5	0.24
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	8	0.24
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	8	0.24
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD1	9	0.24
(1,1595)	1:A:543:PHE:H	1:A:545:PHE:HD2	9	0.24
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	7	0.24
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	7	0.24
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	7	0.24
(1,1188)	2:B:1191:LEU:HB2	2:B:1191:LEU:H	7	0.24
(1,1188)	2:B:1191:LEU:HB3	2:B:1191:LEU:H	7	0.24
(1,1107)	1:A:503:TYR:HD1	1:A:503:TYR:H	7	0.24
(1,1107)	1:A:503:TYR:HD2	1:A:503:TYR:H	7	0.24
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	5	0.24
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	5	0.24
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	5	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	5	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	5	0.24
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	5	0.24
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	2	0.23
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	2	0.23
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	2	0.23
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	2	0.23
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	4	0.23
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	4	0.23
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	3	0.23
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	3	0.23
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	3	0.23
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	3	0.23
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	3	0.23
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	3	0.23
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	2	0.23
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	2	0.23
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	2	0.23
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	2	0.23
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	2	0.23
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	2	0.23
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	5	0.23
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	5	0.23
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	5	0.23
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	5	0.23
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	5	0.23
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	5	0.23
(1,1671)	1:A:510:LEU:H	1:A:509:GLU:HA	8	0.23
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	6	0.23
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	6	0.23
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	6	0.23
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	6	0.23
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	6	0.23
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	6	0.23
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	2	0.23
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	2	0.23
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	2	0.23
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	2	0.23
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	2	0.23
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	2	0.23
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	1	0.23
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	1	0.23
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	5	0.23
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	5	0.23
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	8	0.23
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	10	0.23
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	10	0.23
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	1	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	1	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	2	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	2	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	3	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	3	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	4	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	4	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	5	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	5	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	6	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	6	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	7	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	7	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	8	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	8	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	9	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	9	0.22
(1,877)	1:A:547:LEU:HB2	1:A:547:LEU:HB3	10	0.22
(1,877)	1:A:547:LEU:HB3	1:A:547:LEU:HB2	10	0.22
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	1	0.22
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	1	0.22
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	1	0.22
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	1	0.22
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	2	0.22
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	2	0.22
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	2	0.22
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	2	0.22
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD11	6	0.22
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD12	6	0.22
(1,753)	1:A:538:ILE:HA	1:A:538:ILE:HD13	6	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	1	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	1	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	2	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	2	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	3	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	3	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	4	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	5	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	5	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	6	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	6	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	7	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	7	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	8	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	8	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	9	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	9	0.22
(1,750)	1:A:538:ILE:HG12	1:A:538:ILE:HG13	10	0.22
(1,750)	1:A:538:ILE:HG13	1:A:538:ILE:HG12	10	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	1	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	1	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	2	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	2	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	3	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	3	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	4	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	4	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	5	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	5	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	6	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	6	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	7	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	7	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	8	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	8	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	9	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	9	0.22
(1,72)	2:B:1194:LEU:HB2	2:B:1194:LEU:HB3	10	0.22
(1,72)	2:B:1194:LEU:HB3	2:B:1194:LEU:HB2	10	0.22
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	2	0.22
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	2	0.22
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	6	0.22
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	6	0.22
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	2	0.22
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	2	0.22
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	6	0.22
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	6	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	1	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	2	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	2	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	3	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	3	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	4	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	4	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	5	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	5	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	6	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	6	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	7	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	7	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	8	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	8	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	9	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	9	0.22
(1,538)	1:A:525:GLN:HG2	1:A:525:GLN:HG3	10	0.22
(1,538)	1:A:525:GLN:HG3	1:A:525:GLN:HG2	10	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	1	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	1	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	2	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	2	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	3	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	3	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	4	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	4	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	5	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	5	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	6	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	6	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	7	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	7	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	8	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	8	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	9	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	9	0.22
(1,481)	1:A:522:ILE:HG12	1:A:522:ILE:HG13	10	0.22
(1,481)	1:A:522:ILE:HG13	1:A:522:ILE:HG12	10	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	1	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	1	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	2	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	3	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	3	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	4	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	4	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	5	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	5	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	6	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	6	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	7	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	7	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	8	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	8	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	9	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	9	0.22
(1,441)	1:A:518:ARG:HB2	1:A:518:ARG:HB3	10	0.22
(1,441)	1:A:518:ARG:HB3	1:A:518:ARG:HB2	10	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	1	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	1	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	2	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	2	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	3	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	3	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	4	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	4	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	5	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	5	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	6	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	6	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	7	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	7	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	8	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	8	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	9	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	9	0.22
(1,403)	1:A:514:LEU:HB2	1:A:514:LEU:HB3	10	0.22
(1,403)	1:A:514:LEU:HB3	1:A:514:LEU:HB2	10	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	3	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	3	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	4	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	4	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	5	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	7	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	7	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	8	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	8	0.22
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	10	0.22
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	10	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	3	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	3	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	4	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	4	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	5	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	5	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	7	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	7	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	8	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	8	0.22
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	10	0.22
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	10	0.22
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	4	0.22
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	4	0.22
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	4	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	1	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	1	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	2	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	2	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	3	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	3	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	4	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	4	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	5	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	5	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	6	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	6	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	7	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	7	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	8	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	8	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	9	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	9	0.22
(1,345)	1:A:510:LEU:HB2	1:A:510:LEU:HB3	10	0.22
(1,345)	1:A:510:LEU:HB3	1:A:510:LEU:HB2	10	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	1	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	2	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	2	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	3	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	3	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	4	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	4	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	5	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	5	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	6	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	6	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	7	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	7	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	8	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	8	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	9	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	9	0.22
(1,291)	1:A:506:GLU:HG2	1:A:506:GLU:HG3	10	0.22
(1,291)	1:A:506:GLU:HG3	1:A:506:GLU:HG2	10	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	1	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	1	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	3	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	3	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	4	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	4	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	5	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	5	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	6	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	6	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	7	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	7	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	8	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	8	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	9	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	9	0.22
(1,265)	1:A:504:LEU:HB2	1:A:504:LEU:HB3	10	0.22
(1,265)	1:A:504:LEU:HB3	1:A:504:LEU:HB2	10	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	1	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	1	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	2	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	2	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	3	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	5	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	5	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	6	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	6	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	7	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	7	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	8	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	8	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	9	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	9	0.22
(1,190)	2:B:1203:LEU:HB2	2:B:1203:LEU:HB3	10	0.22
(1,190)	2:B:1203:LEU:HB3	2:B:1203:LEU:HB2	10	0.22
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	5	0.22
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	5	0.22
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	5	0.22
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	5	0.22
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	5	0.22
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	5	0.22
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	10	0.22
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	10	0.22
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	10	0.22
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	10	0.22
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	10	0.22
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	10	0.22
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD11	4	0.22
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD12	4	0.22
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD13	4	0.22
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD11	4	0.22
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD12	4	0.22
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD13	4	0.22
(1,1263)	1:A:504:LEU:H	1:A:503:TYR:H	4	0.22
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	2	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	2	0.22
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	3	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	3	0.22
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	4	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	4	0.22
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	6	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	6	0.22
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	7	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1070)	1:A:562:LEU:HB2	1:A:562:LEU:HB3	9	0.22
(1,1070)	1:A:562:LEU:HB3	1:A:562:LEU:HB2	9	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	1	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	1	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	2	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	2	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	3	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	3	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	4	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	4	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	5	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	5	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	6	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	6	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	7	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	7	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	8	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	8	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	9	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	9	0.22
(1,1031)	1:A:559:GLN:HB2	1:A:559:GLN:HB3	10	0.22
(1,1031)	1:A:559:GLN:HB3	1:A:559:GLN:HB2	10	0.22
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	1	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	1	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	2	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	2	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	3	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	3	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	4	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	4	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	5	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	5	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	6	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	6	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	7	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	7	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	8	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	8	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	9	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	9	0.21
(1,989)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	10	0.21
(1,989)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	1	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	1	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	2	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	2	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	3	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	3	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	4	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	4	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	5	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	5	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	6	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	6	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	7	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	7	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	8	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	8	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	9	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	9	0.21
(1,986)	1:A:557:LYS:HB2	1:A:557:LYS:HB3	10	0.21
(1,986)	1:A:557:LYS:HB3	1:A:557:LYS:HB2	10	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	1	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	1	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	2	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	2	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	3	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	3	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	4	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	4	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	5	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	5	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	6	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	6	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	7	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	7	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	8	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	8	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	9	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	9	0.21
(1,862)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	10	0.21
(1,862)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	10	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	1	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	2	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	2	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	3	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	3	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	4	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	4	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	5	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	5	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	6	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	6	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	7	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	7	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	8	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	8	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	9	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	9	0.21
(1,861)	1:A:546:ASP:HB2	1:A:546:ASP:HB3	10	0.21
(1,861)	1:A:546:ASP:HB3	1:A:546:ASP:HB2	10	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	2	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	2	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	3	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	3	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	4	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	4	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	5	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	5	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	6	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	6	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	7	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	7	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	8	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	8	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	9	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	9	0.21
(1,847)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	10	0.21
(1,847)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	10	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	2	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	2	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	3	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	3	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	4	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	5	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	5	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	6	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	6	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	7	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	7	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	8	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	8	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	9	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	9	0.21
(1,846)	1:A:545:PHE:HB2	1:A:545:PHE:HB3	10	0.21
(1,846)	1:A:545:PHE:HB3	1:A:545:PHE:HB2	10	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	1	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	1	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	2	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	2	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	3	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	3	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	4	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	4	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	5	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	5	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	6	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	6	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	7	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	7	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	8	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	8	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	9	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	9	0.21
(1,832)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	10	0.21
(1,832)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	10	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	1	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	1	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	2	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	2	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	3	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	3	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	4	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	4	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	5	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	6	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	6	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	7	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	7	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	8	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	8	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	9	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	9	0.21
(1,831)	1:A:544:ASP:HB2	1:A:544:ASP:HB3	10	0.21
(1,831)	1:A:544:ASP:HB3	1:A:544:ASP:HB2	10	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	1	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	1	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	3	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	3	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	4	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	4	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	5	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	5	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	6	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	6	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	7	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	7	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	8	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	8	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	9	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	9	0.21
(1,818)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	10	0.21
(1,818)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	10	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	1	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	1	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	3	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	3	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	4	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	4	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	5	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	5	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	6	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	6	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	7	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	7	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	8	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	9	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	9	0.21
(1,817)	1:A:543:PHE:HB2	1:A:543:PHE:HB3	10	0.21
(1,817)	1:A:543:PHE:HB3	1:A:543:PHE:HB2	10	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	1	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	1	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	2	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	2	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	3	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	3	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	4	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	4	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	5	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	5	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	6	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	6	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	7	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	7	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	8	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	8	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	9	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	9	0.21
(1,8)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	10	0.21
(1,8)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	10	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	1	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	1	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	2	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	2	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	3	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	3	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	4	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	4	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	5	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	5	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	6	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	6	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	7	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	7	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	8	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	8	0.21
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	9	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,726)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	10	0.21
(1,726)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	10	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	1	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	1	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	2	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	2	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	3	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	3	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	4	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	4	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	5	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	5	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	6	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	6	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	7	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	7	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	8	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	8	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	9	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	9	0.21
(1,725)	1:A:536:PHE:HB2	1:A:536:PHE:HB3	10	0.21
(1,725)	1:A:536:PHE:HB3	1:A:536:PHE:HB2	10	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	1	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	1	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	2	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	2	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	3	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	3	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	4	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	4	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	5	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	5	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	6	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	6	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	7	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	7	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	8	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	8	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	9	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	9	0.21
(1,706)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	10	0.21
(1,706)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	1	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	1	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	2	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	2	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	3	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	3	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	4	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	4	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	5	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	5	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	6	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	6	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	7	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	7	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	8	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	8	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	9	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	9	0.21
(1,705)	1:A:534:GLY:HA2	1:A:534:GLY:HA3	10	0.21
(1,705)	1:A:534:GLY:HA3	1:A:534:GLY:HA2	10	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	1	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	1	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	2	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	2	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	3	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	3	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	4	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	4	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	5	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	5	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	6	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	6	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	7	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	7	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	8	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	8	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	9	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	9	0.21
(1,7)	2:B:1185:ASP:HB2	2:B:1185:ASP:HB3	10	0.21
(1,7)	2:B:1185:ASP:HB3	2:B:1185:ASP:HB2	10	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	1	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	2	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	2	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	3	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	3	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	4	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	4	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	5	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	5	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	6	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	6	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	7	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	7	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	8	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	8	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	9	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	9	0.21
(1,685)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	10	0.21
(1,685)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	10	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	1	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	1	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	2	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	2	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	3	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	3	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	4	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	4	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	5	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	5	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	6	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	6	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	7	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	7	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	8	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	8	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	9	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	9	0.21
(1,683)	1:A:531:GLU:HG2	1:A:531:GLU:HG3	10	0.21
(1,683)	1:A:531:GLU:HG3	1:A:531:GLU:HG2	10	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	1	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	1	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	3	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	4	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	4	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	5	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	5	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	7	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	7	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	8	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	8	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	9	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	9	0.21
(1,633)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	10	0.21
(1,633)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	10	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	1	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	1	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	3	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	3	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	4	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	4	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	5	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	5	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	7	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	7	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	8	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	8	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	9	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	9	0.21
(1,632)	1:A:530:ILE:HG12	1:A:530:ILE:HG13	10	0.21
(1,632)	1:A:530:ILE:HG13	1:A:530:ILE:HG12	10	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	1	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	1	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	2	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	2	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	3	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	3	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	4	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	4	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	5	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	5	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	6	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	6	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	7	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	8	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	8	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	9	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	9	0.21
(1,59)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	10	0.21
(1,59)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	10	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	1	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	1	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	2	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	2	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	3	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	3	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	4	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	4	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	5	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	5	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	6	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	6	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	7	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	7	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	8	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	8	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	9	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	9	0.21
(1,58)	2:B:1193:ASN:HB2	2:B:1193:ASN:HB3	10	0.21
(1,58)	2:B:1193:ASN:HB3	2:B:1193:ASN:HB2	10	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	2	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	2	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	3	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	3	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	4	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	4	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	5	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	5	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	6	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	6	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	7	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	7	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	8	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	8	0.21
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	9	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	10	0.21
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	10	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	2	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	2	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	3	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	3	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	4	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	4	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	5	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	5	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	6	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	6	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	7	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	7	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	8	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	8	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	9	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	9	0.21
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	10	0.21
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	10	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	1	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	1	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	2	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	2	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	3	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	3	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	4	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	4	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	5	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	5	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	6	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	6	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	7	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	7	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	8	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	8	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	9	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	9	0.21
(1,531)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	10	0.21
(1,531)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	10	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	1	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	2	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	2	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	3	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	3	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	4	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	4	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	5	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	5	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	6	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	6	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	7	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	7	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	8	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	8	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	9	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	9	0.21
(1,528)	1:A:525:GLN:HB2	1:A:525:GLN:HB3	10	0.21
(1,528)	1:A:525:GLN:HB3	1:A:525:GLN:HB2	10	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	1	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	1	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	2	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	2	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	3	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	3	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	4	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	4	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	5	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	5	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	6	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	6	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	7	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	7	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	8	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	8	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	9	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	9	0.21
(1,499)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	10	0.21
(1,499)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	10	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	1	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	1	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	2	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	3	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	3	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	4	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	4	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	5	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	5	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	6	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	6	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	7	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	7	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	8	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	8	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	9	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	9	0.21
(1,498)	1:A:523:LEU:HB2	1:A:523:LEU:HB3	10	0.21
(1,498)	1:A:523:LEU:HB3	1:A:523:LEU:HB2	10	0.21
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	1	0.21
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	1	0.21
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	2	0.21
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	2	0.21
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	6	0.21
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	6	0.21
(1,377)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	9	0.21
(1,377)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	9	0.21
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	1	0.21
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	1	0.21
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	2	0.21
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	2	0.21
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	6	0.21
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	6	0.21
(1,374)	1:A:511:HIS:HB2	1:A:511:HIS:HB3	9	0.21
(1,374)	1:A:511:HIS:HB3	1:A:511:HIS:HB2	9	0.21
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	1	0.21
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	1	0.21
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	1	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	1	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	1	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	2	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	2	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	3	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	3	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	4	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	5	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	5	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	6	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	6	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	7	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	7	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	8	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	8	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	9	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	9	0.21
(1,279)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	10	0.21
(1,279)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	10	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	1	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	1	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	2	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	2	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	3	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	3	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	4	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	4	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	5	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	5	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	6	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	6	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	7	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	7	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	8	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	8	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	9	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	9	0.21
(1,278)	1:A:505:ASP:HB2	1:A:505:ASP:HB3	10	0.21
(1,278)	1:A:505:ASP:HB3	1:A:505:ASP:HB2	10	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	1	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	1	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	2	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	2	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	3	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	3	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	4	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	4	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	5	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	6	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	6	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	7	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	7	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	8	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	8	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	9	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	9	0.21
(1,255)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	10	0.21
(1,255)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	10	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	1	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	1	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	2	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	2	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	3	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	3	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	4	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	4	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	5	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	5	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	6	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	6	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	7	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	7	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	8	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	8	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	9	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	9	0.21
(1,254)	1:A:503:TYR:HB2	1:A:503:TYR:HB3	10	0.21
(1,254)	1:A:503:TYR:HB3	1:A:503:TYR:HB2	10	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	1	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	1	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	2	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	2	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	3	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	3	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	4	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	4	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	5	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	5	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	6	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	7	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	7	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	8	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	8	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	9	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	9	0.21
(1,219)	2:B:1205:PRO:HB2	2:B:1205:PRO:HB3	10	0.21
(1,219)	2:B:1205:PRO:HB3	2:B:1205:PRO:HB2	10	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	1	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	1	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	1	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	1	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	1	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	1	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	4	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	4	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	4	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	4	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	4	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	4	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	10	0.21
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	10	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	10	0.21
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	10	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	10	0.21
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	10	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	1	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	1	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	2	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	2	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	3	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	3	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	4	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	4	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	5	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	5	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	6	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	6	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	7	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	7	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	8	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	9	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	9	0.21
(1,144)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	10	0.21
(1,144)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	10	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	1	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	1	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	2	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	2	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	3	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	3	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	4	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	4	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	5	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	5	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	6	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	6	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	7	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	7	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	8	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	8	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	9	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	9	0.21
(1,143)	2:B:1198:ILE:HG12	2:B:1198:ILE:HG13	10	0.21
(1,143)	2:B:1198:ILE:HG13	2:B:1198:ILE:HG12	10	0.21
(1,1263)	1:A:504:LEU:H	1:A:503:TYR:H	1	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	8	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	8	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	8	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	8	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	8	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	8	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB1	10	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB2	10	0.21
(1,1103)	1:A:503:TYR:HD1	1:A:502:ALA:HB3	10	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB1	10	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB2	10	0.21
(1,1103)	1:A:503:TYR:HD2	1:A:502:ALA:HB3	10	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	1	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	1	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	2	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	3	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	3	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	4	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	4	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	5	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	5	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	6	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	6	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	7	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	7	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	8	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	8	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	9	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	9	0.21
(1,1038)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	10	0.21
(1,1038)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	10	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	1	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	1	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	2	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	2	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	3	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	3	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	4	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	4	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	5	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	5	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	6	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	6	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	7	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	7	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	8	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	8	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	9	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	9	0.21
(1,1036)	1:A:559:GLN:HG2	1:A:559:GLN:HG3	10	0.21
(1,1036)	1:A:559:GLN:HG3	1:A:559:GLN:HG2	10	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	1	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	1	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	2	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	2	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	3	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	4	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	4	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	5	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	5	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	6	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	6	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	7	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	7	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	8	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	8	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	9	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	9	0.21
(1,1012)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	10	0.21
(1,1012)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	10	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	1	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	1	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	2	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	2	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	3	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	3	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	4	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	4	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	5	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	5	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	6	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	6	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	7	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	7	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	8	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	8	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	9	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	9	0.21
(1,1011)	1:A:558:LEU:HB2	1:A:558:LEU:HB3	10	0.21
(1,1011)	1:A:558:LEU:HB3	1:A:558:LEU:HB2	10	0.21
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	9	0.2
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	9	0.2
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	9	0.2
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	4	0.2
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	4	0.2
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	4	0.2
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	5	0.2
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	5	0.2
(1,550)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	1	0.2
(1,550)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	1	0.2
(1,547)	1:A:526:ILE:HG12	1:A:526:ILE:HG13	1	0.2
(1,547)	1:A:526:ILE:HG13	1:A:526:ILE:HG12	1	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	5	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	5	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	5	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	10	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	10	0.2
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	10	0.2
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	4	0.2
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	4	0.2
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	4	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	1	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	1	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	2	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	2	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	3	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	3	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	4	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	4	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	5	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	5	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	6	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	6	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	7	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	7	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	8	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	8	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	9	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	9	0.2
(1,22)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	10	0.2
(1,22)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	10	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	1	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	1	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	2	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	2	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	3	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	3	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	4	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	5	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	5	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	6	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	6	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	7	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	7	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	8	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	8	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	9	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	9	0.2
(1,20)	2:B:1186:PRO:HB2	2:B:1186:PRO:HB3	10	0.2
(1,20)	2:B:1186:PRO:HB3	2:B:1186:PRO:HB2	10	0.2
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	3	0.2
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	3	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	3	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	3	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	3	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	3	0.2
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	8	0.2
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	8	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	8	0.2
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	8	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	8	0.2
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	8	0.2
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	2	0.2
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	2	0.2
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	9	0.2
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	10	0.2
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	10	0.2
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	10	0.2
(1,1578)	1:A:537:HIS:H	1:A:538:ILE:HB	10	0.2
(1,1337)	1:A:517:LEU:H	1:A:516:THR:HB	8	0.2
(1,1263)	1:A:504:LEU:H	1:A:503:TYR:H	7	0.2
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	1	0.2
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	1	0.2
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	1	0.2
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	5	0.2
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	5	0.2
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	5	0.2
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	5	0.2
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	5	0.2
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	10	0.2
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	10	0.2
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	10	0.2
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	10	0.2
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	10	0.2
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	10	0.2
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	3	0.2
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	3	0.2
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	5	0.2
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	5	0.2
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG21	8	0.19
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG22	8	0.19
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG23	8	0.19
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG21	8	0.19
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG22	8	0.19
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG23	8	0.19
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG21	8	0.19
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG22	8	0.19
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG23	8	0.19
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	8	0.19
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	8	0.19
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	8	0.19
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	6	0.19
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	6	0.19
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	6	0.19
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	6	0.19
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	6	0.19
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	6	0.19
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	1	0.19
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	1	0.19
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	1	0.19
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	1	0.19
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	1	0.19
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	1	0.19
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	1	0.19
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	6	0.19
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	7	0.19
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	8	0.19
(1,1554)	1:A:563:GLU:H	1:A:563:GLU:HG2	9	0.19
(1,1554)	1:A:563:GLU:H	1:A:563:GLU:HG3	9	0.19
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	2	0.19
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	4	0.19
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	7	0.19
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	2	0.19
(1,1165)	1:A:561:TYR:HE1	1:A:522:ILE:HA	2	0.19
(1,1165)	1:A:561:TYR:HE2	1:A:522:ILE:HA	2	0.19
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	6	0.19
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	6	0.19
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	10	0.19
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	10	0.19
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	7	0.19
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB2	6	0.18
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB3	6	0.18
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB2	6	0.18
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB3	6	0.18
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB2	6	0.18
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB3	6	0.18
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	3	0.18
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	3	0.18
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	3	0.18
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	3	0.18
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	3	0.18
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	3	0.18
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD2	2	0.18
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD3	2	0.18
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG21	7	0.18
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG22	7	0.18
(1,284)	1:A:505:ASP:HA	1:A:508:VAL:HG23	7	0.18
(1,263)	1:A:504:LEU:H	1:A:504:LEU:HG	3	0.18
(1,263)	1:A:504:LEU:H	1:A:504:LEU:HG	8	0.18
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	7	0.18
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	7	0.18
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	7	0.18
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	7	0.18
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	7	0.18
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	7	0.18
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	7	0.18
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	7	0.18
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	7	0.18
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	7	0.18
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	7	0.18
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	7	0.18
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	8	0.18
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	3	0.18
(1,1614)	1:A:559:GLN:H	1:A:557:LYS:H	4	0.18
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	6	0.18
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	6	0.18
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	6	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	1	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	5	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	6	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	8	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	9	0.18
(1,1526)	1:A:557:LYS:HA	1:A:557:LYS:H	10	0.18
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	6	0.18
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	1	0.18
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	1	0.18
(1,1165)	1:A:561:TYR:HE1	1:A:522:ILE:HA	7	0.18
(1,1165)	1:A:561:TYR:HE2	1:A:522:ILE:HA	7	0.18
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	5	0.18
(1,738)	1:A:538:ILE:HD11	1:A:536:PHE:HE1	1	0.17
(1,738)	1:A:538:ILE:HD11	1:A:536:PHE:HE2	1	0.17
(1,738)	1:A:538:ILE:HD12	1:A:536:PHE:HE1	1	0.17
(1,738)	1:A:538:ILE:HD12	1:A:536:PHE:HE2	1	0.17
(1,738)	1:A:538:ILE:HD13	1:A:536:PHE:HE1	1	0.17
(1,738)	1:A:538:ILE:HD13	1:A:536:PHE:HE2	1	0.17
(1,651)	1:A:530:ILE:HD11	1:A:530:ILE:H	4	0.17
(1,651)	1:A:530:ILE:HD12	1:A:530:ILE:H	4	0.17
(1,651)	1:A:530:ILE:HD13	1:A:530:ILE:H	4	0.17
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	10	0.17
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	10	0.17
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	10	0.17
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	10	0.17
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	10	0.17
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	10	0.17
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	7	0.17
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	7	0.17
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	7	0.17
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE1	7	0.17
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE2	7	0.17
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE1	7	0.17
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE2	7	0.17
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE1	7	0.17
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE2	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:A:526:ILE:HD11	1:A:526:ILE:H	7	0.17
(1,559)	1:A:526:ILE:HD12	1:A:526:ILE:H	7	0.17
(1,559)	1:A:526:ILE:HD13	1:A:526:ILE:H	7	0.17
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD2	3	0.17
(1,440)	1:A:518:ARG:HA	1:A:518:ARG:HD3	3	0.17
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	6	0.17
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	6	0.17
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	6	0.17
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG12	6	0.17
(1,1740)	2:B:1196:VAL:HG21	2:B:1198:ILE:HG13	6	0.17
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG12	6	0.17
(1,1740)	2:B:1196:VAL:HG22	2:B:1198:ILE:HG13	6	0.17
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG12	6	0.17
(1,1740)	2:B:1196:VAL:HG23	2:B:1198:ILE:HG13	6	0.17
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	4	0.17
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	4	0.17
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	4	0.17
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	4	0.17
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	4	0.17
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	4	0.17
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	2	0.17
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	2	0.17
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	2	0.17
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	2	0.17
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	2	0.17
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	2	0.17
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	9	0.17
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	9	0.17
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	9	0.17
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	9	0.17
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	9	0.17
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	9	0.17
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD11	7	0.17
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD12	7	0.17
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD13	7	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD11	7	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD12	7	0.17
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD13	7	0.17
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	1	0.17
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG2	8	0.17
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG3	8	0.17
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	1	0.17
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	1	0.17
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	3	0.17
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	3	0.17
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	3	0.17
(1,1558)	1:A:564:THR:H	1:A:563:GLU:HB2	4	0.17
(1,1558)	1:A:564:THR:H	1:A:563:GLU:HB3	4	0.17
(1,1499)	1:A:552:LYS:HD2	1:A:552:LYS:H	9	0.17
(1,1499)	1:A:552:LYS:HD3	1:A:552:LYS:H	9	0.17
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	6	0.17
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	6	0.17
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	6	0.17
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	8	0.17
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	5	0.17
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	5	0.17
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	5	0.17
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	3	0.17
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	3	0.17
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	3	0.17
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	3	0.17
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	3	0.17
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	3	0.17
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	10	0.17
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	10	0.17
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	4	0.17
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	8	0.17
(1,1092)	1:A:563:GLU:HA	1:A:564:THR:H	4	0.17
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	7	0.16
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	7	0.16
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	7	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	5	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	5	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	5	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	5	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	5	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	5	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	8	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	8	0.16
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	8	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	8	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	8	0.16
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	6	0.16
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	6	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	6	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	6	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	6	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	6	0.16
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	10	0.16
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	10	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	10	0.16
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	10	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	10	0.16
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	10	0.16
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD11	1	0.16
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD12	1	0.16
(1,1732)	1:A:503:TYR:HE1	1:A:507:LEU:HD13	1	0.16
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD11	1	0.16
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD12	1	0.16
(1,1732)	1:A:503:TYR:HE2	1:A:507:LEU:HD13	1	0.16
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	3	0.16
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	6	0.16
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	9	0.16
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	10	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	9	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	9	0.16
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	9	0.16
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	10	0.16
(1,1203)	2:B:1195:LYS:HB2	2:B:1195:LYS:H	3	0.16
(1,1203)	2:B:1195:LYS:HB3	2:B:1195:LYS:H	3	0.16
(1,1203)	2:B:1195:LYS:HB2	2:B:1195:LYS:H	7	0.16
(1,1203)	2:B:1195:LYS:HB3	2:B:1195:LYS:H	7	0.16
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	1	0.16
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	1	0.16
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	1	0.16
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	1	0.16
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	1	0.16
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	1	0.16
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	8	0.16
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	8	0.16
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	4	0.16
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	4	0.16
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	7	0.16
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	8	0.16
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	8	0.16
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	7	0.16
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	7	0.16
(1,103)	2:B:1195:LYS:HA	2:B:1195:LYS:HD2	3	0.16
(1,103)	2:B:1195:LYS:HA	2:B:1195:LYS:HD3	3	0.16
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB2	10	0.15
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB3	10	0.15
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB2	10	0.15
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB3	10	0.15
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB2	10	0.15
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB3	10	0.15
(1,651)	1:A:530:ILE:HD11	1:A:530:ILE:H	1	0.15
(1,651)	1:A:530:ILE:HD12	1:A:530:ILE:H	1	0.15
(1,651)	1:A:530:ILE:HD13	1:A:530:ILE:H	1	0.15
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	1	0.15
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	1	0.15
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	1	0.15
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	1	0.15
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	1	0.15
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	1	0.15
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG21	3	0.15
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG22	3	0.15
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG23	3	0.15
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG21	3	0.15
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG22	3	0.15
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG23	3	0.15
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG21	3	0.15
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG22	3	0.15
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG23	3	0.15
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD11	5	0.15
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD12	5	0.15
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD13	5	0.15
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	9	0.15
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	9	0.15
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	9	0.15
(1,263)	1:A:504:LEU:H	1:A:504:LEU:HG	6	0.15
(1,209)	2:B:1205:PRO:HD2	2:B:1203:LEU:HD11	9	0.15
(1,209)	2:B:1205:PRO:HD2	2:B:1203:LEU:HD12	9	0.15
(1,209)	2:B:1205:PRO:HD2	2:B:1203:LEU:HD13	9	0.15
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	1	0.15
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	1	0.15
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	1	0.15
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	1	0.15
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	1	0.15
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD1	9	0.15
(1,1739)	2:B:1196:VAL:HG11	1:A:545:PHE:HD2	9	0.15
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD1	9	0.15
(1,1739)	2:B:1196:VAL:HG12	1:A:545:PHE:HD2	9	0.15
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD1	9	0.15
(1,1739)	2:B:1196:VAL:HG13	1:A:545:PHE:HD2	9	0.15
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	4	0.15
(1,1685)	2:B:1193:ASN:H	2:B:1194:LEU:H	5	0.15
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	2	0.15
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	2	0.15
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	2	0.15
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	9	0.15
(1,1203)	2:B:1195:LYS:HB2	2:B:1195:LYS:H	2	0.15
(1,1203)	2:B:1195:LYS:HB3	2:B:1195:LYS:H	2	0.15
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	3	0.15
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	3	0.15
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	3	0.15
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	6	0.15
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	6	0.15
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	6	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	2	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	2	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	4	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	4	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	5	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	5	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	6	0.15
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	6	0.15
(1,1167)	1:A:561:TYR:HD1	1:A:558:LEU:HA	9	0.15
(1,1167)	1:A:561:TYR:HD2	1:A:558:LEU:HA	9	0.15
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	1	0.15
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	1	0.15
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	9	0.15
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	9	0.15
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	7	0.15
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	7	0.15
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	3	0.15
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1099)	2:B:1194:LEU:HG	1:A:511:HIS:HE1	10	0.15
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	5	0.14
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	5	0.14
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	5	0.14
(1,651)	1:A:530:ILE:HD11	1:A:530:ILE:H	9	0.14
(1,651)	1:A:530:ILE:HD12	1:A:530:ILE:H	9	0.14
(1,651)	1:A:530:ILE:HD13	1:A:530:ILE:H	9	0.14
(1,561)	1:A:527:VAL:HG21	2:B:1198:ILE:HB	6	0.14
(1,561)	1:A:527:VAL:HG22	2:B:1198:ILE:HB	6	0.14
(1,561)	1:A:527:VAL:HG23	2:B:1198:ILE:HB	6	0.14
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE1	8	0.14
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE2	8	0.14
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE1	8	0.14
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE2	8	0.14
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE1	8	0.14
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE2	8	0.14
(1,559)	1:A:526:ILE:HD11	1:A:526:ILE:H	2	0.14
(1,559)	1:A:526:ILE:HD12	1:A:526:ILE:H	2	0.14
(1,559)	1:A:526:ILE:HD13	1:A:526:ILE:H	2	0.14
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD11	10	0.14
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD12	10	0.14
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD13	10	0.14
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	3	0.14
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	3	0.14
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	3	0.14
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	1	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	1	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	1	0.14
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	2	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	2	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	2	0.14
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	5	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	5	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	5	0.14
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	6	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	6	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	6	0.14
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	9	0.14
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	9	0.14
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	9	0.14
(1,3)	2:B:1184:GLU:H	2:B:1183:LEU:HA	6	0.14
(1,194)	2:B:1203:LEU:HD21	2:B:1203:LEU:HA	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,194)	2:B:1203:LEU:HD22	2:B:1203:LEU:HA	7	0.14
(1,194)	2:B:1203:LEU:HD23	2:B:1203:LEU:HA	7	0.14
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	3	0.14
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	8	0.14
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	8	0.14
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	8	0.14
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	3	0.14
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	3	0.14
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	3	0.14
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	9	0.14
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	9	0.14
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	9	0.14
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	10	0.14
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	10	0.14
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	10	0.14
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	8	0.14
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	8	0.14
(1,1203)	2:B:1195:LYS:HB2	2:B:1195:LYS:H	9	0.14
(1,1203)	2:B:1195:LYS:HB3	2:B:1195:LYS:H	9	0.14
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	7	0.14
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	7	0.14
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD1	6	0.14
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD2	6	0.14
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD1	6	0.14
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD2	6	0.14
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD1	6	0.14
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD2	6	0.14
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	4	0.14
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	4	0.14
(1,1100)	2:B:1194:LEU:HB2	1:A:511:HIS:HD2	8	0.14
(1,1100)	2:B:1194:LEU:HB3	1:A:511:HIS:HD2	8	0.14
(1,1092)	1:A:563:GLU:HA	1:A:564:THR:H	9	0.14
(1,977)	1:A:556:ARG:HA	1:A:556:ARG:HD2	5	0.13
(1,977)	1:A:556:ARG:HA	1:A:556:ARG:HD3	5	0.13
(1,793)	1:A:543:PHE:HD1	2:B:1198:ILE:HB	7	0.13
(1,793)	1:A:543:PHE:HD2	2:B:1198:ILE:HB	7	0.13
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB2	2	0.13
(1,659)	1:A:530:ILE:HD11	1:A:536:PHE:HB3	2	0.13
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB2	2	0.13
(1,659)	1:A:530:ILE:HD12	1:A:536:PHE:HB3	2	0.13
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB2	2	0.13
(1,659)	1:A:530:ILE:HD13	1:A:536:PHE:HB3	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD11	9	0.13
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD12	9	0.13
(1,619)	1:A:530:ILE:HG12	2:B:1198:ILE:HD13	9	0.13
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD11	9	0.13
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD12	9	0.13
(1,619)	1:A:530:ILE:HG13	2:B:1198:ILE:HD13	9	0.13
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG21	10	0.13
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG22	10	0.13
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG23	10	0.13
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG21	10	0.13
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG22	10	0.13
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG23	10	0.13
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG21	10	0.13
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG22	10	0.13
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG23	10	0.13
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG11	10	0.13
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG12	10	0.13
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG13	10	0.13
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	8	0.13
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	8	0.13
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	8	0.13
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	10	0.13
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	10	0.13
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	10	0.13
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	6	0.13
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	7	0.13
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	7	0.13
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	7	0.13
(1,1578)	1:A:537:HIS:H	1:A:538:ILE:HB	3	0.13
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB2	4	0.13
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB3	4	0.13
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	7	0.13
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	7	0.13
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	7	0.13
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	5	0.13
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	2	0.13
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	2	0.13
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	1	0.13
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	1	0.13
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	8	0.13
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	8	0.13
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	10	0.13
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	8	0.13
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	8	0.13
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	8	0.13
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	3	0.13
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	3	0.13
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD1	1	0.13
(1,1104)	1:A:503:TYR:HA	1:A:503:TYR:HD2	1	0.13
(1,810)	1:A:543:PHE:HD1	1:A:538:ILE:HD11	2	0.12
(1,810)	1:A:543:PHE:HD1	1:A:538:ILE:HD12	2	0.12
(1,810)	1:A:543:PHE:HD1	1:A:538:ILE:HD13	2	0.12
(1,810)	1:A:543:PHE:HD2	1:A:538:ILE:HD11	2	0.12
(1,810)	1:A:543:PHE:HD2	1:A:538:ILE:HD12	2	0.12
(1,810)	1:A:543:PHE:HD2	1:A:538:ILE:HD13	2	0.12
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG21	5	0.12
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG22	5	0.12
(1,562)	1:A:527:VAL:HG21	2:B:1198:ILE:HG23	5	0.12
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG21	5	0.12
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG22	5	0.12
(1,562)	1:A:527:VAL:HG22	2:B:1198:ILE:HG23	5	0.12
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG21	5	0.12
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG22	5	0.12
(1,562)	1:A:527:VAL:HG23	2:B:1198:ILE:HG23	5	0.12
(1,512)	1:A:524:GLN:H	1:A:521:HIS:HA	9	0.12
(1,418)	1:A:516:THR:HG21	1:A:516:THR:H	4	0.12
(1,418)	1:A:516:THR:HG22	1:A:516:THR:H	4	0.12
(1,418)	1:A:516:THR:HG23	1:A:516:THR:H	4	0.12
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD11	6	0.12
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD12	6	0.12
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD13	6	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG11	6	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG12	6	0.12
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG13	6	0.12
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG11	1	0.12
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG12	1	0.12
(1,365)	1:A:511:HIS:HA	2:B:1196:VAL:HG13	1	0.12
(1,327)	1:A:508:VAL:HG21	1:A:509:GLU:HA	3	0.12
(1,327)	1:A:508:VAL:HG22	1:A:509:GLU:HA	3	0.12
(1,327)	1:A:508:VAL:HG23	1:A:509:GLU:HA	3	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	1	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	1	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	1	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	1	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	1	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	1	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	1	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	1	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	6	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	6	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	6	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	6	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	6	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	6	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	6	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	6	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	6	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	7	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	7	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	7	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	7	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	7	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	7	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	7	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	7	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	7	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	10	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	10	0.12
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	10	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	10	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	10	0.12
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	10	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	10	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	10	0.12
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	10	0.12
(1,194)	2:B:1203:LEU:HD21	2:B:1203:LEU:HA	6	0.12
(1,194)	2:B:1203:LEU:HD22	2:B:1203:LEU:HA	6	0.12
(1,194)	2:B:1203:LEU:HD23	2:B:1203:LEU:HA	6	0.12
(1,194)	2:B:1203:LEU:HD21	2:B:1203:LEU:HA	8	0.12
(1,194)	2:B:1203:LEU:HD22	2:B:1203:LEU:HA	8	0.12
(1,194)	2:B:1203:LEU:HD23	2:B:1203:LEU:HA	8	0.12
(1,194)	2:B:1203:LEU:HD21	2:B:1203:LEU:HA	10	0.12
(1,194)	2:B:1203:LEU:HD22	2:B:1203:LEU:HA	10	0.12
(1,194)	2:B:1203:LEU:HD23	2:B:1203:LEU:HA	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD1	8	0.12
(1,1738)	2:B:1196:VAL:HG21	1:A:545:PHE:HD2	8	0.12
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD1	8	0.12
(1,1738)	2:B:1196:VAL:HG22	1:A:545:PHE:HD2	8	0.12
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD1	8	0.12
(1,1738)	2:B:1196:VAL:HG23	1:A:545:PHE:HD2	8	0.12
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	5	0.12
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	7	0.12
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	5	0.12
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	5	0.12
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	5	0.12
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB2	1	0.12
(1,1567)	1:A:534:GLY:H	1:A:535:HIS:HB3	1	0.12
(1,1425)	1:A:538:ILE:H	1:A:537:HIS:HB2	4	0.12
(1,1425)	1:A:538:ILE:H	1:A:537:HIS:HB3	4	0.12
(1,1356)	1:A:523:LEU:HD21	1:A:523:LEU:H	1	0.12
(1,1356)	1:A:523:LEU:HD22	1:A:523:LEU:H	1	0.12
(1,1356)	1:A:523:LEU:HD23	1:A:523:LEU:H	1	0.12
(1,1333)	1:A:516:THR:HG21	1:A:516:THR:H	4	0.12
(1,1333)	1:A:516:THR:HG22	1:A:516:THR:H	4	0.12
(1,1333)	1:A:516:THR:HG23	1:A:516:THR:H	4	0.12
(1,1258)	1:A:502:ALA:H	1:A:503:TYR:H	3	0.12
(1,1243)	2:B:1204:HIS:H	2:B:1203:LEU:H	5	0.12
(1,1242)	2:B:1204:HIS:H	2:B:1203:LEU:H	5	0.12
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	6	0.12
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	6	0.12
(1,1240)	2:B:1203:LEU:HB2	2:B:1203:LEU:H	7	0.12
(1,1240)	2:B:1203:LEU:HB3	2:B:1203:LEU:H	7	0.12
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	10	0.12
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	10	0.12
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	10	0.12
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	2	0.12
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	2	0.12
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	2	0.12
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	2	0.12
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	2	0.12
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	2	0.12
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	8	0.12
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	8	0.12
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	8	0.12
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	8	0.12
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	8	0.12
(1,1186)	2:B:1190:GLU:H	2:B:1191:LEU:H	7	0.12
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD1	9	0.12
(1,1169)	1:A:561:TYR:HA	1:A:561:TYR:HD2	9	0.12
(1,1167)	1:A:561:TYR:HD1	1:A:558:LEU:HA	6	0.12
(1,1167)	1:A:561:TYR:HD2	1:A:558:LEU:HA	6	0.12
(1,1165)	1:A:561:TYR:HE1	1:A:522:ILE:HA	1	0.12
(1,1165)	1:A:561:TYR:HE2	1:A:522:ILE:HA	1	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD21	1	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD22	1	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD23	1	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD21	1	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD22	1	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD23	1	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD21	7	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD22	7	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD23	7	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD21	7	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD22	7	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD23	7	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD21	9	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD22	9	0.12
(1,1160)	1:A:545:PHE:HD1	1:A:547:LEU:HD23	9	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD21	9	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD22	9	0.12
(1,1160)	1:A:545:PHE:HD2	1:A:547:LEU:HD23	9	0.12
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	5	0.12
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	5	0.12
(1,1125)	1:A:530:ILE:HG21	1:A:545:PHE:HD1	7	0.12
(1,1125)	1:A:530:ILE:HG21	1:A:545:PHE:HD2	7	0.12
(1,1125)	1:A:530:ILE:HG22	1:A:545:PHE:HD1	7	0.12
(1,1125)	1:A:530:ILE:HG22	1:A:545:PHE:HD2	7	0.12
(1,1125)	1:A:530:ILE:HG23	1:A:545:PHE:HD1	7	0.12
(1,1125)	1:A:530:ILE:HG23	1:A:545:PHE:HD2	7	0.12
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	2	0.11
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	2	0.11
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	2	0.11
(1,752)	1:A:538:ILE:HG21	1:A:538:ILE:H	8	0.11
(1,752)	1:A:538:ILE:HG22	1:A:538:ILE:H	8	0.11
(1,752)	1:A:538:ILE:HG23	1:A:538:ILE:H	8	0.11
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE1	2	0.11
(1,560)	1:A:526:ILE:HD11	1:A:561:TYR:HE2	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE1	2	0.11
(1,560)	1:A:526:ILE:HD12	1:A:561:TYR:HE2	2	0.11
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE1	2	0.11
(1,560)	1:A:526:ILE:HD13	1:A:561:TYR:HE2	2	0.11
(1,418)	1:A:516:THR:HG21	1:A:516:THR:H	1	0.11
(1,418)	1:A:516:THR:HG22	1:A:516:THR:H	1	0.11
(1,418)	1:A:516:THR:HG23	1:A:516:THR:H	1	0.11
(1,418)	1:A:516:THR:HG21	1:A:516:THR:H	2	0.11
(1,418)	1:A:516:THR:HG22	1:A:516:THR:H	2	0.11
(1,418)	1:A:516:THR:HG23	1:A:516:THR:H	2	0.11
(1,418)	1:A:516:THR:HG21	1:A:516:THR:H	10	0.11
(1,418)	1:A:516:THR:HG22	1:A:516:THR:H	10	0.11
(1,418)	1:A:516:THR:HG23	1:A:516:THR:H	10	0.11
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD11	3	0.11
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD12	3	0.11
(1,381)	1:A:511:HIS:HA	1:A:514:LEU:HD13	3	0.11
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG11	3	0.11
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG12	3	0.11
(1,366)	1:A:511:HIS:HD2	2:B:1196:VAL:HG13	3	0.11
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD11	8	0.11
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD12	8	0.11
(1,318)	1:A:508:VAL:HG21	2:B:1194:LEU:HD13	8	0.11
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD11	8	0.11
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD12	8	0.11
(1,318)	1:A:508:VAL:HG22	2:B:1194:LEU:HD13	8	0.11
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD11	8	0.11
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD12	8	0.11
(1,318)	1:A:508:VAL:HG23	2:B:1194:LEU:HD13	8	0.11
(1,274)	1:A:505:ASP:HB2	1:A:502:ALA:HA	8	0.11
(1,274)	1:A:505:ASP:HB3	1:A:502:ALA:HA	8	0.11
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG2	3	0.11
(1,1656)	1:A:517:LEU:H	1:A:515:MET:HG3	3	0.11
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	4	0.11
(1,1653)	1:A:519:GLU:H	1:A:519:GLU:HA	9	0.11
(1,1608)	1:A:555:VAL:H	1:A:552:LYS:HB2	1	0.11
(1,1608)	1:A:555:VAL:H	1:A:552:LYS:HB3	1	0.11
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG21	4	0.11
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG22	4	0.11
(1,1601)	1:A:547:LEU:H	2:B:1196:VAL:HG23	4	0.11
(1,1483)	1:A:550:LEU:H	1:A:550:LEU:HG	7	0.11
(1,1367)	1:A:526:ILE:H	1:A:523:LEU:HA	5	0.11
(1,1360)	1:A:524:GLN:H	1:A:523:LEU:HD11	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1360)	1:A:524:GLN:H	1:A:523:LEU:HD12	2	0.11
(1,1360)	1:A:524:GLN:H	1:A:523:LEU:HD13	2	0.11
(1,1333)	1:A:516:THR:HG21	1:A:516:THR:H	1	0.11
(1,1333)	1:A:516:THR:HG22	1:A:516:THR:H	1	0.11
(1,1333)	1:A:516:THR:HG23	1:A:516:THR:H	1	0.11
(1,1333)	1:A:516:THR:HG21	1:A:516:THR:H	2	0.11
(1,1333)	1:A:516:THR:HG22	1:A:516:THR:H	2	0.11
(1,1333)	1:A:516:THR:HG23	1:A:516:THR:H	2	0.11
(1,1333)	1:A:516:THR:HG21	1:A:516:THR:H	10	0.11
(1,1333)	1:A:516:THR:HG22	1:A:516:THR:H	10	0.11
(1,1333)	1:A:516:THR:HG23	1:A:516:THR:H	10	0.11
(1,1272)	1:A:504:LEU:H	1:A:505:ASP:H	4	0.11
(1,1271)	1:A:504:LEU:H	1:A:505:ASP:H	4	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	5	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	5	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	6	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	6	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB2	10	0.11
(1,1255)	1:A:502:ALA:H	1:A:501:LYS:HB3	10	0.11
(1,1244)	2:B:1204:HIS:H	2:B:1203:LEU:HA	7	0.11
(1,1243)	2:B:1204:HIS:H	2:B:1203:LEU:H	3	0.11
(1,1242)	2:B:1204:HIS:H	2:B:1203:LEU:H	3	0.11
(1,1201)	2:B:1194:LEU:HD11	1:A:507:LEU:H	9	0.11
(1,1201)	2:B:1194:LEU:HD12	1:A:507:LEU:H	9	0.11
(1,1201)	2:B:1194:LEU:HD13	1:A:507:LEU:H	9	0.11
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB2	9	0.11
(1,120)	2:B:1196:VAL:HG21	1:A:514:LEU:HB3	9	0.11
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB2	9	0.11
(1,120)	2:B:1196:VAL:HG22	1:A:514:LEU:HB3	9	0.11
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB2	9	0.11
(1,120)	2:B:1196:VAL:HG23	1:A:514:LEU:HB3	9	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD11	6	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD12	6	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD13	6	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD21	6	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD22	6	0.11
(1,1192)	2:B:1192:THR:H	2:B:1191:LEU:HD23	6	0.11
(1,1167)	1:A:561:TYR:HD1	1:A:558:LEU:HA	1	0.11
(1,1167)	1:A:561:TYR:HD2	1:A:558:LEU:HA	1	0.11
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	2	0.11
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	2	0.11
(1,1159)	1:A:545:PHE:HD1	1:A:546:ASP:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:A:545:PHE:HD2	1:A:546:ASP:H	10	0.11
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD1	3	0.11
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD2	3	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD1	3	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD2	3	0.11
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD1	3	0.11
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD2	3	0.11
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD1	10	0.11
(1,1110)	1:A:507:LEU:HD11	1:A:503:TYR:HD2	10	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD1	10	0.11
(1,1110)	1:A:507:LEU:HD12	1:A:503:TYR:HD2	10	0.11
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD1	10	0.11
(1,1110)	1:A:507:LEU:HD13	1:A:503:TYR:HD2	10	0.11

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

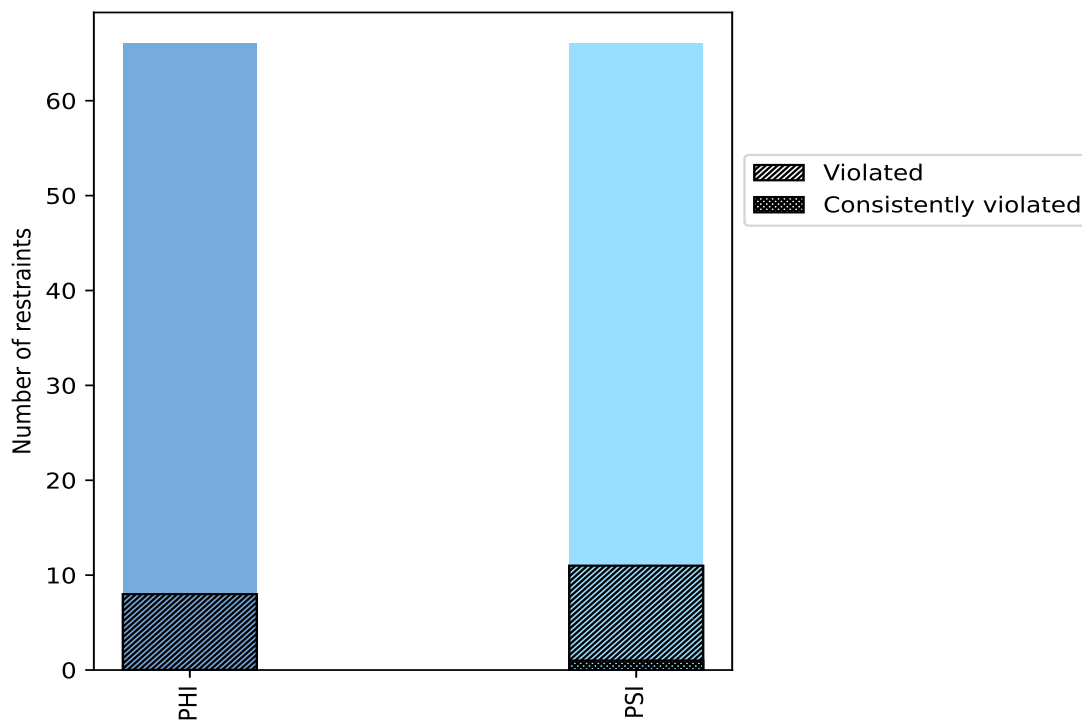
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	66	50.0	8	12.1	6.1	0	0.0	0.0
PSI	66	50.0	11	16.7	8.3	1	1.5	0.8
Total	132	100.0	19	14.4	14.4	1	0.8	0.8

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

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



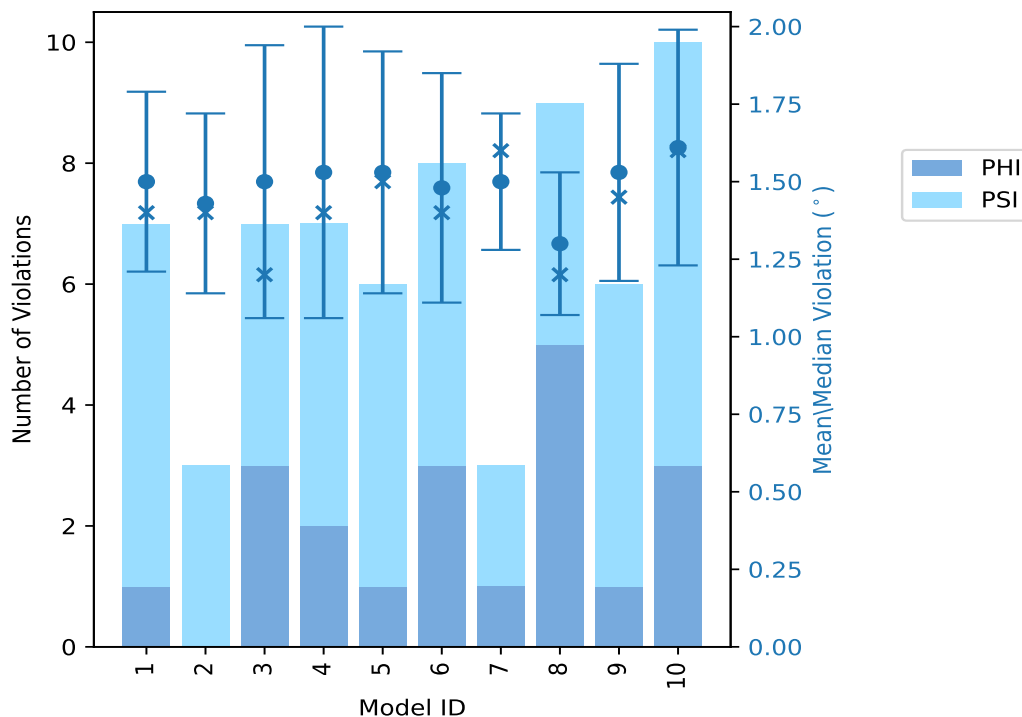
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	1	6	7	1.5	2.1	0.29	1.4
2	0	3	3	1.43	1.8	0.29	1.4
3	3	4	7	1.5	2.3	0.44	1.2
4	2	5	7	1.53	2.5	0.47	1.4
5	1	5	6	1.53	2.2	0.39	1.5
6	3	5	8	1.48	2.2	0.37	1.4
7	1	2	3	1.5	1.7	0.22	1.6
8	5	4	9	1.3	1.9	0.23	1.2
9	1	5	6	1.53	2.0	0.35	1.45
10	3	7	10	1.61	2.2	0.38	1.6

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



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

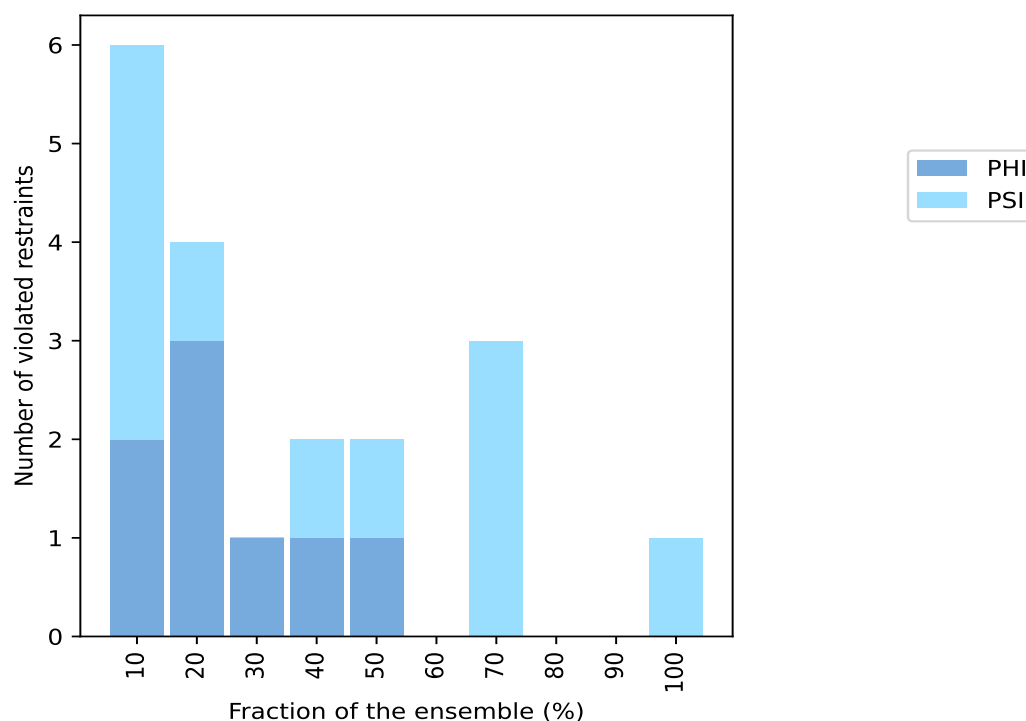
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
2	4	6	1	10.0
3	1	4	2	20.0
1	0	1	3	30.0
1	1	2	4	40.0
1	1	2	5	50.0
0	0	0	6	60.0
0	3	3	7	70.0
0	0	0	8	80.0
0	0	0	9	90.0
0	1	1	10	100.0

¹ Number of models with violations

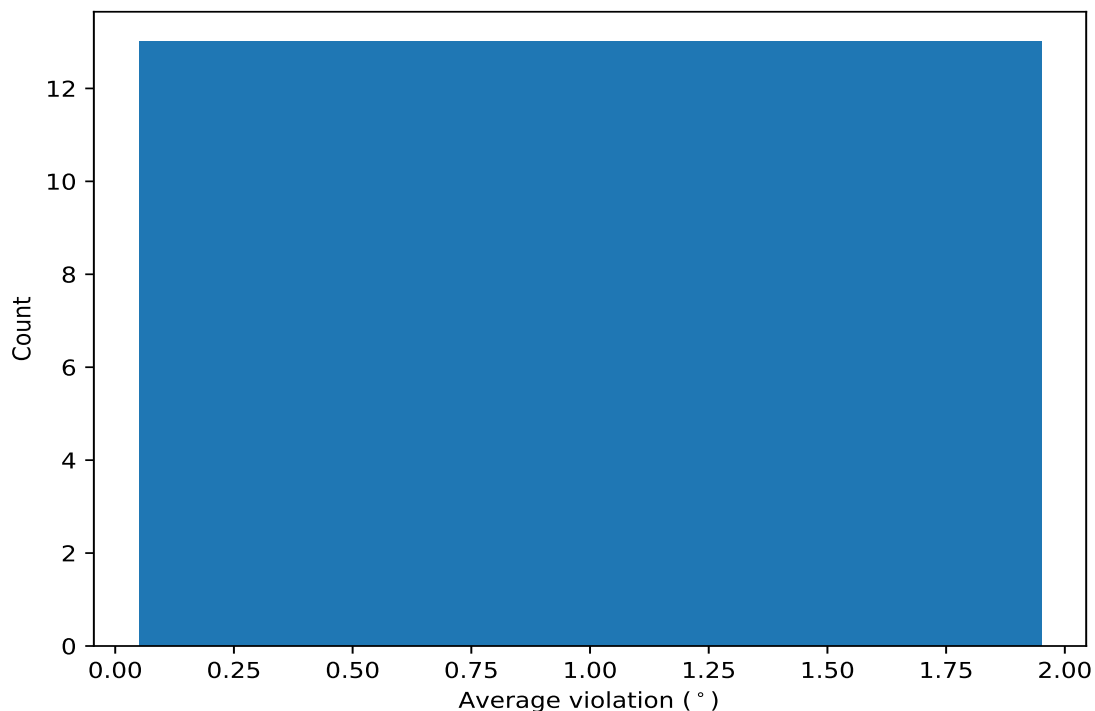
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



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

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

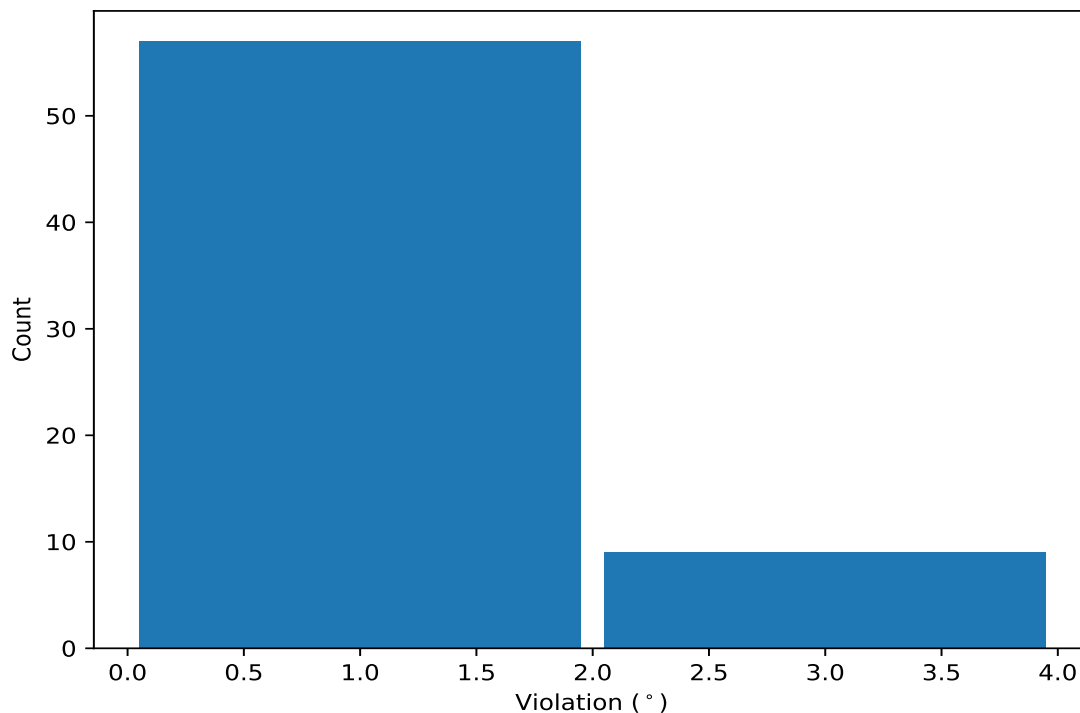
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	10	1.84	0.09	1.85
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	7	1.97	0.31	2.1
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	7	1.67	0.32	1.5
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	7	1.31	0.27	1.2
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	5	1.36	0.27	1.3
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	5	1.26	0.21	1.1
(1,119)	2:B:1194:LEU:C	2:B:1195:LYS:N	2:B:1195:LYS:CA	2:B:1195:LYS:C	4	1.35	0.05	1.35
(1,124)	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2:B:1198:ILE:N	4	1.3	0.07	1.3
(1,77)	1:A:543:PHE:C	1:A:544:ASP:N	1:A:544:ASP:CA	1:A:544:ASP:C	3	1.17	0.05	1.2
(1,108)	1:A:559:GLN:N	1:A:559:GLN:CA	1:A:559:GLN:C	1:A:560:SER:N	2	1.3	0.2	1.3
(1,125)	2:B:1197:CYS:C	2:B:1198:ILE:N	2:B:1198:ILE:CA	2:B:1198:ILE:C	2	1.3	0.1	1.3
(1,123)	2:B:1196:VAL:C	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2	1.2	0.0	1.2
(1,21)	1:A:511:HIS:C	1:A:512:ARG:N	1:A:512:ARG:CA	1:A:512:ARG:C	2	1.15	0.05	1.15

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,72)	1:A:541:THR:N	1:A:541:THR:CA	1:A:541:THR:C	1:A:542:THR:N	4	2.5
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	3	2.3
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	5	2.2
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	10	2.2
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	6	2.2
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	1	2.1
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	10	2.1
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	9	2.0
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	9	2.0
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	3	1.9
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	4	1.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	6	1.9
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	8	1.9
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	10	1.9
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	10	1.8
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	2	1.8
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	5	1.8
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	10	1.8
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	3	1.7
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	1	1.7
(1,118)	2:B:1185:ASP:N	2:B:1185:ASP:CA	2:B:1185:ASP:C	2:B:1186:PRO:N	7	1.7
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	7	1.6
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	5	1.6
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	6	1.5
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	1	1.5
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	9	1.5
(1,108)	1:A:559:GLN:N	1:A:559:GLN:CA	1:A:559:GLN:C	1:A:560:SER:N	4	1.5
(1,76)	1:A:543:PHE:N	1:A:543:PHE:CA	1:A:543:PHE:C	1:A:544:ASP:N	4	1.4
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	2	1.4
(1,125)	2:B:1197:CYS:C	2:B:1198:ILE:N	2:B:1198:ILE:CA	2:B:1198:ILE:C	8	1.4
(1,124)	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2:B:1198:ILE:N	6	1.4
(1,119)	2:B:1194:LEU:C	2:B:1195:LYS:N	2:B:1195:LYS:CA	2:B:1195:LYS:C	5	1.4
(1,119)	2:B:1194:LEU:C	2:B:1195:LYS:N	2:B:1195:LYS:CA	2:B:1195:LYS:C	6	1.4
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	1	1.4
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	9	1.4
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	10	1.4
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	1	1.3
(1,34)	1:A:519:GLU:N	1:A:519:GLU:CA	1:A:519:GLU:C	1:A:520:ARG:N	8	1.3
(1,124)	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2:B:1198:ILE:N	1	1.3
(1,124)	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2:B:1198:ILE:N	10	1.3
(1,119)	2:B:1194:LEU:C	2:B:1195:LYS:N	2:B:1195:LYS:CA	2:B:1195:LYS:C	8	1.3
(1,119)	2:B:1194:LEU:C	2:B:1195:LYS:N	2:B:1195:LYS:CA	2:B:1195:LYS:C	10	1.3
(1,77)	1:A:543:PHE:C	1:A:544:ASP:N	1:A:544:ASP:CA	1:A:544:ASP:C	7	1.2
(1,77)	1:A:543:PHE:C	1:A:544:ASP:N	1:A:544:ASP:CA	1:A:544:ASP:C	8	1.2
(1,64)	1:A:536:PHE:N	1:A:536:PHE:CA	1:A:536:PHE:C	1:A:537:HIS:N	1	1.2
(1,29)	1:A:515:MET:C	1:A:516:THR:N	1:A:516:THR:CA	1:A:516:THR:C	8	1.2
(1,21)	1:A:511:HIS:C	1:A:512:ARG:N	1:A:512:ARG:CA	1:A:512:ARG:C	3	1.2
(1,14)	1:A:507:LEU:N	1:A:507:LEU:CA	1:A:507:LEU:C	1:A:508:VAL:N	4	1.2
(1,125)	2:B:1197:CYS:C	2:B:1198:ILE:N	2:B:1198:ILE:CA	2:B:1198:ILE:C	3	1.2
(1,124)	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	2:B:1198:ILE:N	9	1.2
(1,123)	2:B:1196:VAL:C	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	6	1.2
(1,123)	2:B:1196:VAL:C	2:B:1197:CYS:N	2:B:1197:CYS:CA	2:B:1197:CYS:C	10	1.2
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	8	1.2
(1,77)	1:A:543:PHE:C	1:A:544:ASP:N	1:A:544:ASP:CA	1:A:544:ASP:C	4	1.1
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	3	1.1
(1,37)	1:A:520:ARG:C	1:A:521:HIS:N	1:A:521:HIS:CA	1:A:521:HIS:C	9	1.1
(1,26)	1:A:514:LEU:N	1:A:514:LEU:CA	1:A:514:LEU:C	1:A:515:MET:N	5	1.1
(1,21)	1:A:511:HIS:C	1:A:512:ARG:N	1:A:512:ARG:CA	1:A:512:ARG:C	8	1.1
(1,108)	1:A:559:GLN:N	1:A:559:GLN:CA	1:A:559:GLN:C	1:A:560:SER:N	10	1.1
(1,103)	1:A:556:ARG:C	1:A:557:LYS:N	1:A:557:LYS:CA	1:A:557:LYS:C	4	1.1
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	2	1.1
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	5	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,102)	1:A:556:ARG:N	1:A:556:ARG:CA	1:A:556:ARG:C	1:A:557:LYS:N	6	1.1
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	3	1.1
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	6	1.1
(1,10)	1:A:505:ASP:N	1:A:505:ASP:CA	1:A:505:ASP:C	1:A:506:GLU:N	8	1.1