



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 03:35 PM EST

PDB ID : 2LFE
BMRB ID : 17750
Title : Solution NMR structure of N-terminal domain of human E3 ubiquitin-protein ligase HECW2, Northeast structural genomics consortium (NESG) target ht6306A
Authors : Lemak, A.; Yee, A.; Houliston, S.; Garcia, M.; Chitayat, S.; Dhe-Paganon, S.; Montelione, G.T.; Arrowsmith, C.; Northeast Structural Genomics Consortium (NESG); Structural Genomics Consortium (SGC)
Deposited on : 2011-06-29

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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 : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

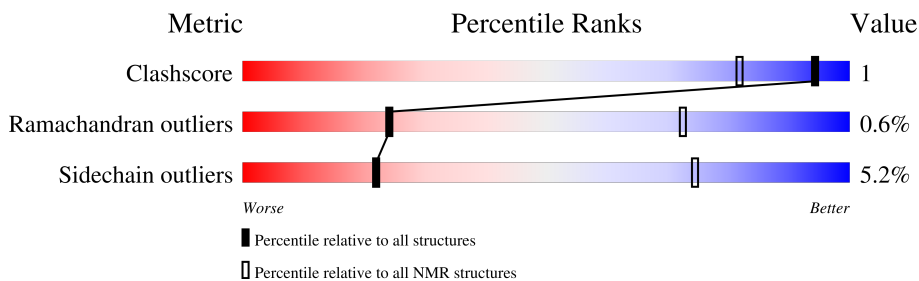
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 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	138	

2 Ensemble composition and analysis i

This entry contains 16 models. Model 10 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:59-A:144, A:149-A:162 (100)	0.70	10

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 5 clusters and 1 single-model cluster was found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1684 atoms, of which 827 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called E3 ubiquitin-protein ligase HECW2.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	106	1684	551	827	141	161	4	0

There are 18 discrepancies between the modelled and reference sequences:

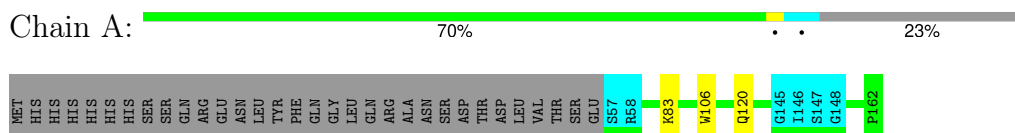
Chain	Residue	Modelled	Actual	Comment	Reference
A	25	MET	-	expression tag	UNP Q9P2P5
A	26	HIS	-	expression tag	UNP Q9P2P5
A	27	HIS	-	expression tag	UNP Q9P2P5
A	28	HIS	-	expression tag	UNP Q9P2P5
A	29	HIS	-	expression tag	UNP Q9P2P5
A	30	HIS	-	expression tag	UNP Q9P2P5
A	31	HIS	-	expression tag	UNP Q9P2P5
A	32	SER	-	expression tag	UNP Q9P2P5
A	33	SER	-	expression tag	UNP Q9P2P5
A	34	GLN	-	expression tag	UNP Q9P2P5
A	35	ARG	-	expression tag	UNP Q9P2P5
A	36	GLU	-	expression tag	UNP Q9P2P5
A	37	ASN	-	expression tag	UNP Q9P2P5
A	38	LEU	-	expression tag	UNP Q9P2P5
A	39	TYR	-	expression tag	UNP Q9P2P5
A	40	PHE	-	expression tag	UNP Q9P2P5
A	41	GLN	-	expression tag	UNP Q9P2P5
A	42	GLY	-	expression tag	UNP Q9P2P5

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: E3 ubiquitin-protein ligase HECW2

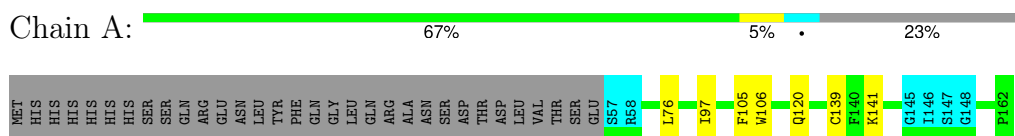


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

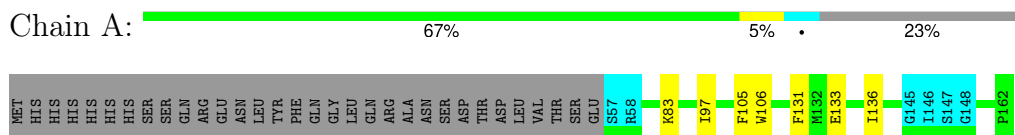
4.2.1 Score per residue for model 1

- Molecule 1: E3 ubiquitin-protein ligase HECW2



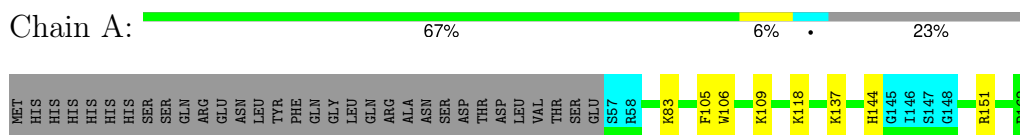
4.2.2 Score per residue for model 2

- Molecule 1: E3 ubiquitin-protein ligase HECW2



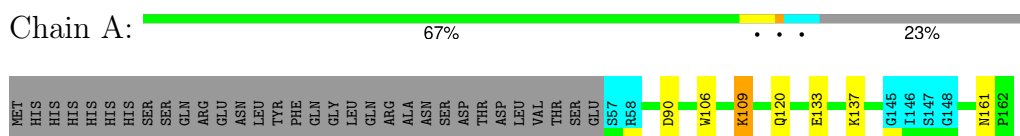
4.2.3 Score per residue for model 3

- Molecule 1: E3 ubiquitin-protein ligase HECW2



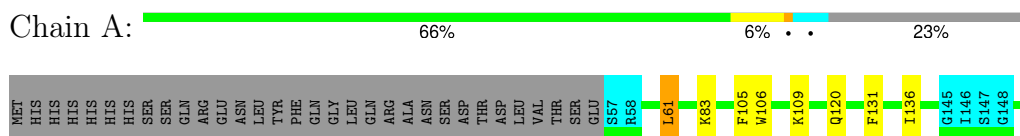
4.2.4 Score per residue for model 4

- Molecule 1: E3 ubiquitin-protein ligase HECW2



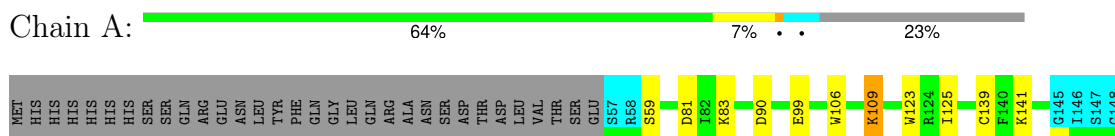
4.2.5 Score per residue for model 5

- Molecule 1: E3 ubiquitin-protein ligase HECW2



4.2.6 Score per residue for model 6

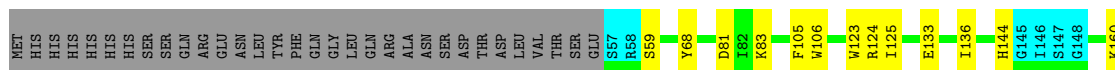
- Molecule 1: E3 ubiquitin-protein ligase HECW2



4.2.7 Score per residue for model 7

- Molecule 1: E3 ubiquitin-protein ligase HECW2



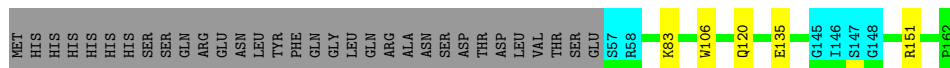


W161
P162

4.2.8 Score per residue for model 8

- Molecule 1: E3 ubiquitin-protein ligase HECW2

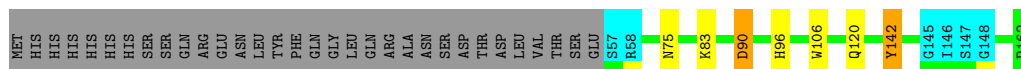
Chain A: 69% 23%



4.2.9 Score per residue for model 9

- Molecule 1: E3 ubiquitin-protein ligase HECW2

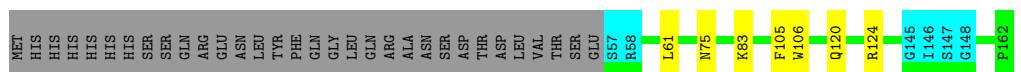
Chain A: 67% 23%



4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: E3 ubiquitin-protein ligase HECW2

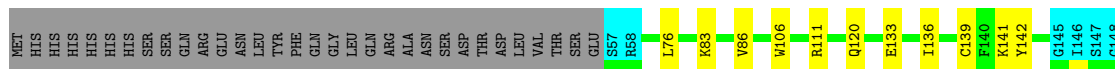
Chain A: 67% 5% 23%



4.2.11 Score per residue for model 11

- Molecule 1: E3 ubiquitin-protein ligase HECW2

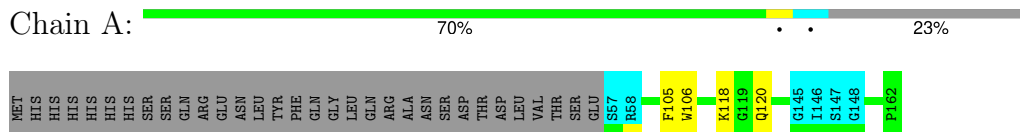
Chain A: 64% 9% 23%



R151
P162

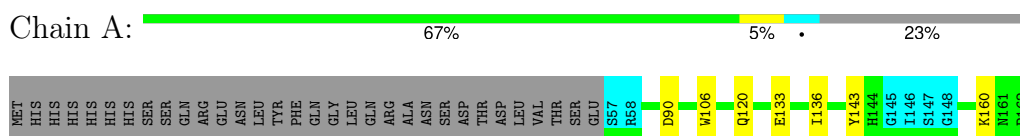
4.2.12 Score per residue for model 12

- Molecule 1: E3 ubiquitin-protein ligase HECW2



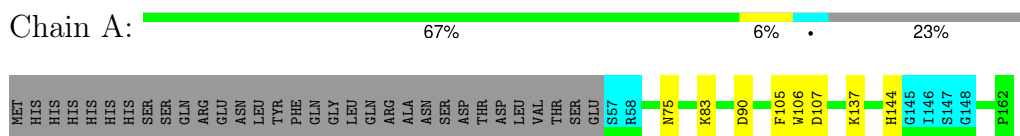
4.2.13 Score per residue for model 13

- Molecule 1: E3 ubiquitin-protein ligase HECW2



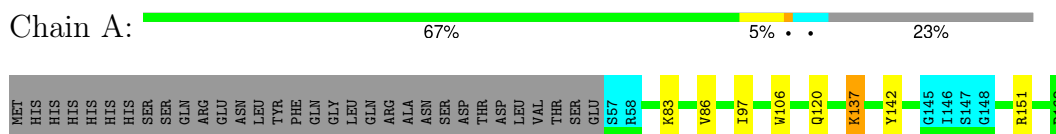
4.2.14 Score per residue for model 14

- Molecule 1: E3 ubiquitin-protein ligase HECW2



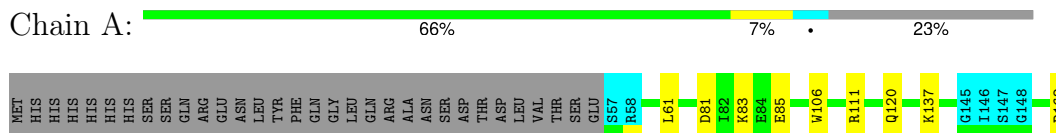
4.2.15 Score per residue for model 15

- Molecule 1: E3 ubiquitin-protein ligase HECW2



4.2.16 Score per residue for model 16

- Molecule 1: E3 ubiquitin-protein ligase HECW2



5 Refinement protocol and experimental data overview

The models were refined using the following method: *restrained molecular dynamics*.

Of the 100 calculated structures, 16 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
CYANA	structure solution	
CNS	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	1434
Number of shifts mapped to atoms	1273
Number of unparsed shifts	0
Number of shifts with mapping errors	161
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	818	787	785	2±1
All	All	13088	12592	12560	27

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 1.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:139:CYS:SG	1:A:141:LYS:HE3	0.53	2.44	1	3
1:A:86:VAL:HG12	1:A:151:ARG:HH12	0.47	1.69	15	1
1:A:109:LYS:HA	1:A:109:LYS:NZ	0.46	2.26	6	1
1:A:144:HIS:HB2	1:A:151:ARG:HD3	0.46	1.87	3	1
1:A:133:GLU:HB2	1:A:136:ILE:HG13	0.46	1.88	7	4
1:A:109:LYS:HA	1:A:109:LYS:HE2	0.46	1.87	3	3
1:A:90:ASP:HB3	1:A:142:TYR:HE1	0.45	1.70	9	1
1:A:133:GLU:O	1:A:161:ASN:HB3	0.43	2.13	4	1
1:A:123:TRP:CZ3	1:A:125:ILE:HG12	0.43	2.48	6	2
1:A:131:PHE:HA	1:A:136:ILE:HG12	0.42	1.90	5	2
1:A:68:TYR:OH	1:A:124:ARG:HG3	0.42	2.15	7	1
1:A:75:ASN:ND2	1:A:124:ARG:HB3	0.41	2.30	10	1
1:A:59:SER:HA	1:A:81:ASP:O	0.41	2.16	6	2
1:A:97:ILE:HB	1:A:137:LYS:HB2	0.41	1.93	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:86:VAL:HA	1:A:151:ARG:HH12	0.40	1.76	11	1
1:A:90:ASP:HB2	1:A:143:TYR:O	0.40	2.17	13	1
1:A:61:LEU:HB2	1:A:152:ALA:HB1	0.40	1.93	5	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	99/138 (72%)	88±2 (89±2%)	11±3 (11±3%)	1±1 (1±1%)	24	72
All	All	1584/2208 (72%)	1403 (89%)	171 (11%)	10 (1%)	24	72

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	105	PHE	8
1	A	97	ILE	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	89/123 (72%)	84±2 (95±2%)	5±2 (5±2%)	22	74
All	All	1424/1968 (72%)	1350 (95%)	74 (5%)	22	74

All 22 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	106	TRP	16
1	A	83	LYS	12
1	A	120	GLN	11
1	A	137	LYS	5
1	A	61	LEU	3
1	A	142	TYR	3
1	A	76	LEU	2
1	A	118	LYS	2
1	A	109	LYS	2
1	A	144	HIS	2
1	A	160	LYS	2
1	A	75	ASN	2
1	A	90	ASP	2
1	A	111	ARG	2
1	A	99	GLU	1
1	A	135	GLU	1
1	A	151	ARG	1
1	A	96	HIS	1
1	A	107	ASP	1
1	A	81	ASP	1
1	A	85	GLU	1
1	A	162	PRO	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 88% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	1434
Number of shifts mapped to atoms	1273
Number of unparsed shifts	0
Number of shifts with mapping errors	161
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	7

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

- No matching atom found in the structure. All 161 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	43	LEU	HA	4.206	0.04	1
1	A	43	LEU	CA	55.349	0.40	1
1	A	43	LEU	HB3	1.469	0.04	2
1	A	43	LEU	CB	42.35	0.40	1
1	A	43	LEU	HB2	1.527	0.04	2
1	A	43	LEU	HG	1.477	0.04	1
1	A	43	LEU	CG	26.819	0.40	1
1	A	43	LEU	HD11	0.799	0.04	2
1	A	43	LEU	HD12	0.799	0.04	2
1	A	43	LEU	HD13	0.799	0.04	2
1	A	43	LEU	CD1	24.83	0.40	2
1	A	43	LEU	HD21	0.741	0.04	2
1	A	43	LEU	HD22	0.741	0.04	2
1	A	43	LEU	HD23	0.741	0.04	2

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	43	LEU	CD2	23.468	0.40	2
1	A	43	LEU	H	7.881	0.04	1
1	A	43	LEU	N	121.393	0.40	1
1	A	43	LEU	C	177.422	0.40	1
1	A	44	GLN	HA	4.182	0.04	1
1	A	44	GLN	CA	55.977	0.40	1
1	A	44	GLN	HB3	1.86	0.04	2
1	A	44	GLN	CB	29.294	0.40	1
1	A	44	GLN	HB2	1.965	0.04	2
1	A	44	GLN	HG2	2.223	0.04	2
1	A	44	GLN	HG3	2.223	0.04	2
1	A	44	GLN	CG	33.792	0.40	1
1	A	44	GLN	H	8.246	0.04	1
1	A	44	GLN	N	120.78	0.40	1
1	A	44	GLN	C	175.921	0.40	1
1	A	45	ARG	HA	4.189	0.04	1
1	A	45	ARG	CA	55.922	0.40	1
1	A	45	ARG	HB3	1.63	0.04	2
1	A	45	ARG	CB	31.083	0.40	1
1	A	45	ARG	HB2	1.733	0.04	2
1	A	45	ARG	HG2	1.503	0.04	2
1	A	45	ARG	HG3	1.503	0.04	2
1	A	45	ARG	CG	26.982	0.40	1
1	A	45	ARG	HD2	3.063	0.04	2
1	A	45	ARG	HD3	3.063	0.04	2
1	A	45	ARG	CD	43.244	0.40	1
1	A	45	ARG	H	8.18	0.04	1
1	A	45	ARG	N	122.04	0.40	1
1	A	45	ARG	C	175.962	0.40	1
1	A	46	ALA	HA	4.19	0.04	1
1	A	46	ALA	CA	52.592	0.40	1
1	A	46	ALA	HB1	1.282	0.04	1
1	A	46	ALA	HB2	1.282	0.04	1
1	A	46	ALA	HB3	1.282	0.04	1
1	A	46	ALA	CB	19.4	0.40	1
1	A	46	ALA	H	8.288	0.04	1
1	A	46	ALA	N	125.104	0.40	1
1	A	46	ALA	C	177.49	0.40	1
1	A	47	ASN	HA	4.593	0.04	1
1	A	47	ASN	CA	53.356	0.40	1
1	A	47	ASN	HB3	2.677	0.04	2

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	47	ASN	CB	39.012	0.40	1
1	A	47	ASN	HB2	2.748	0.04	2
1	A	47	ASN	HD21	6.85	0.04	2
1	A	47	ASN	ND2	113.27	0.40	1
1	A	47	ASN	HD22	7.538	0.04	2
1	A	47	ASN	H	8.354	0.04	1
1	A	47	ASN	N	117.971	0.40	1
1	A	47	ASN	C	175.279	0.40	1
1	A	48	SER	HA	4.36	0.04	1
1	A	48	SER	CA	58.488	0.40	1
1	A	48	SER	HB2	3.841	0.04	2
1	A	48	SER	HB3	3.841	0.04	2
1	A	48	SER	CB	63.947	0.40	1
1	A	48	SER	H	8.2	0.04	1
1	A	48	SER	N	115.74	0.40	1
1	A	48	SER	C	174.433	0.40	1
1	A	49	ASP	HA	4.556	0.04	1
1	A	49	ASP	CA	54.694	0.40	1
1	A	49	ASP	HB3	2.571	0.04	2
1	A	49	ASP	CB	40.95	0.40	1
1	A	49	ASP	HB2	2.654	0.04	2
1	A	49	ASP	H	8.352	0.04	1
1	A	49	ASP	N	122.414	0.40	1
1	A	49	ASP	C	176.603	0.40	1
1	A	50	THR	HA	4.194	0.04	1
1	A	50	THR	CA	62.064	0.40	1
1	A	50	THR	HB	4.146	0.04	1
1	A	50	THR	CB	69.652	0.40	1
1	A	50	THR	HG21	1.088	0.04	1
1	A	50	THR	HG22	1.088	0.04	1
1	A	50	THR	HG23	1.088	0.04	1
1	A	50	THR	CG2	21.466	0.40	1
1	A	50	THR	H	7.934	0.04	1
1	A	50	THR	N	113.34	0.40	1
1	A	50	THR	C	174.378	0.40	1
1	A	51	ASP	HA	4.507	0.04	1
1	A	51	ASP	CA	54.53	0.40	1
1	A	51	ASP	HB3	2.517	0.04	2
1	A	51	ASP	CB	41.019	0.40	1
1	A	51	ASP	HB2	2.606	0.04	2
1	A	51	ASP	H	8.202	0.04	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	51	ASP	N	122.584	0.40	1
1	A	51	ASP	C	176.057	0.40	1
1	A	52	LEU	HA	4.216	0.04	1
1	A	52	LEU	CA	55.322	0.40	1
1	A	52	LEU	HB3	1.468	0.04	2
1	A	52	LEU	CB	42.351	0.40	1
1	A	52	LEU	HB2	1.529	0.04	2
1	A	52	LEU	HG	1.485	0.04	1
1	A	52	LEU	CG	26.873	0.40	1
1	A	52	LEU	HD11	0.798	0.04	2
1	A	52	LEU	HD12	0.798	0.04	2
1	A	52	LEU	HD13	0.798	0.04	2
1	A	52	LEU	CD1	24.912	0.40	2
1	A	52	LEU	HD21	0.741	0.04	2
1	A	52	LEU	HD22	0.741	0.04	2
1	A	52	LEU	HD23	0.741	0.04	2
1	A	52	LEU	CD2	23.468	0.40	2
1	A	52	LEU	H	7.991	0.04	1
1	A	52	LEU	N	122.329	0.40	1
1	A	52	LEU	C	177.381	0.40	1
1	A	53	VAL	HA	4.039	0.04	1
1	A	53	VAL	CA	62.637	0.40	1
1	A	53	VAL	HB	1.985	0.04	1
1	A	53	VAL	CB	32.502	0.40	1
1	A	53	VAL	HG11	0.828	0.04	2
1	A	53	VAL	HG12	0.828	0.04	2
1	A	53	VAL	HG13	0.828	0.04	2
1	A	53	VAL	CG1	21.098	0.40	2
1	A	53	VAL	HG21	0.842	0.04	2
1	A	53	VAL	HG22	0.842	0.04	2
1	A	53	VAL	HG23	0.842	0.04	2
1	A	53	VAL	CG2	20.744	0.40	2
1	A	53	VAL	H	8.065	0.04	1
1	A	53	VAL	N	121.478	0.40	1
1	A	53	VAL	C	176.548	0.40	1
1	A	54	THR	HA	4.292	0.04	1
1	A	54	THR	CA	61.681	0.40	1
1	A	54	THR	HB	4.169	0.04	1
1	A	54	THR	CB	69.843	0.40	1
1	A	54	THR	HG21	1.092	0.04	1
1	A	54	THR	HG22	1.092	0.04	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	54	THR	HG23	1.092	0.04	1
1	A	54	THR	CG2	21.466	0.40	1
1	A	54	THR	H	8.158	0.04	1
1	A	54	THR	N	117.715	0.40	1
1	A	54	THR	C	174.706	0.40	1
1	A	55	SER	HA	4.339	0.04	1
1	A	55	SER	CA	58.652	0.40	1
1	A	55	SER	HB3	3.732	0.04	2
1	A	55	SER	CB	63.729	0.40	1
1	A	55	SER	HB2	3.807	0.04	2
1	A	55	SER	H	8.244	0.04	1
1	A	55	SER	N	117.92	0.40	1
1	A	55	SER	C	174.61	0.40	1
1	A	56	GLU	HA	4.216	0.04	1
1	A	56	GLU	CA	56.605	0.40	1
1	A	56	GLU	HB3	1.828	0.04	2
1	A	56	GLU	CB	30.264	0.40	1
1	A	56	GLU	HB2	1.971	0.04	2
1	A	56	GLU	HG3	2.138	0.04	2
1	A	56	GLU	CG	36.312	0.40	1
1	A	56	GLU	HG2	2.19	0.04	2
1	A	56	GLU	H	8.335	0.04	1
1	A	56	GLU	N	122.567	0.40	1
1	A	56	GLU	C	176.303	0.40	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
$^{13}\text{C}_\alpha$	118	0.13 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	110	-0.07 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	106	0.49 ± 0.13	None needed (< 0.5 ppm)
^{15}N	106	0.33 ± 0.67	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. 1223 atoms were assigned a chemical shift out of a possible 1378. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	470/492 (96%)	194/199 (97%)	187/200 (94%)	89/93 (96%)
Sidechain	645/728 (89%)	439/473 (93%)	197/231 (85%)	9/24 (38%)
Aromatic	108/158 (68%)	54/76 (71%)	51/74 (69%)	3/8 (38%)
Overall	1223/1378 (89%)	687/748 (92%)	435/505 (86%)	101/125 (81%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 1272 atoms were assigned a chemical shift out of a possible 1447. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	491/524 (94%)	203/213 (95%)	196/212 (92%)	92/99 (93%)
Sidechain	673/765 (88%)	458/497 (92%)	206/241 (85%)	9/27 (33%)
Aromatic	108/158 (68%)	54/76 (71%)	51/74 (69%)	3/8 (38%)
Overall	1272/1447 (88%)	715/786 (91%)	453/527 (86%)	104/134 (78%)

7.1.4 Statistically unusual chemical shifts [i](#)

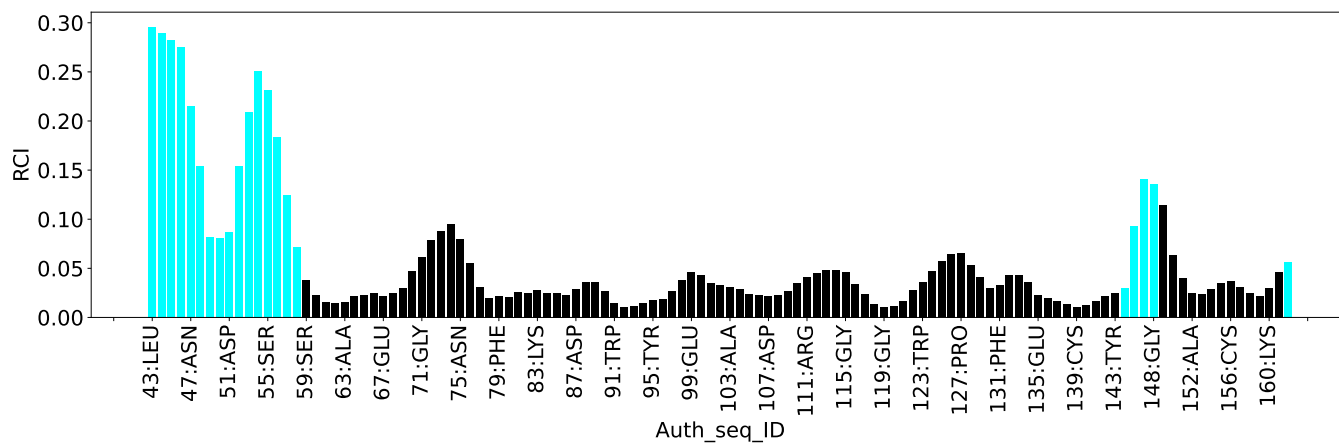
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	123	TRP	CZ3	1000.00	113.48 – 129.28	556.1
1	A	109	LYS	HE3	0.99	1.92 – 3.89	-9.7
1	A	109	LYS	HD2	0.22	0.58 – 2.64	-6.8
1	A	109	LYS	HD3	0.22	0.54 – 2.65	-6.5
1	A	143	TYR	HB3	0.65	0.93 – 4.76	-5.7
1	A	130	TYR	HB3	0.90	0.93 – 4.76	-5.1
1	A	130	TYR	HB2	1.07	1.09 – 4.72	-5.1

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1993
Intra-residue ($ i-j =0$)	469
Sequential ($ i-j =1$)	524
Medium range ($ i-j >1$ and $ i-j <5$)	180
Long range ($ i-j \geq 5$)	764
Inter-chain	0
Hydrogen bond restraints	56
Disulfide bond restraints	0
Total dihedral-angle restraints	175
Number of unmapped restraints	0
Number of restraints per residue	15.7
Number of long range restraints per residue ¹	5.9

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)	12.6	0.2
0.2-0.5 (Medium)	10.8	0.5
>0.5 (Large)	50.2	4.35

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	8.4	7.34
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

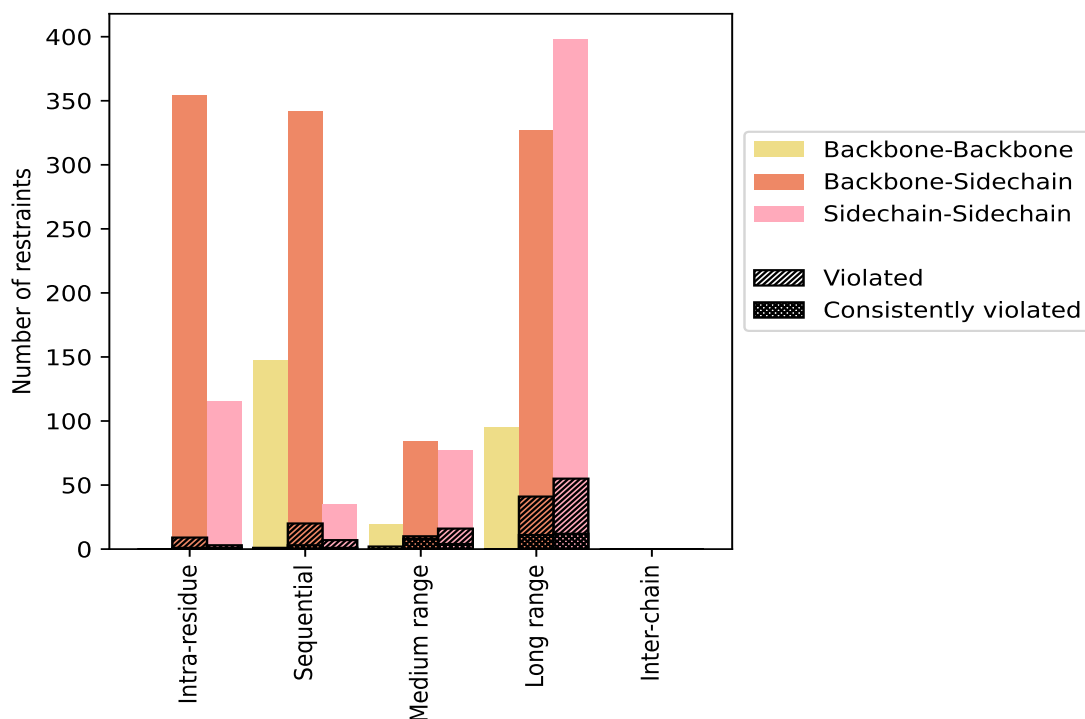
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	469	23.5	12	2.6	0.6	2	0.4	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	354	17.8	9	2.5	0.5	1	0.3	0.1
Sidechain-Sidechain	115	5.8	3	2.6	0.2	1	0.9	0.1
Sequential ($i-j =1$)	524	26.3	28	5.3	1.4	4	0.8	0.2
Backbone-Backbone	147	7.4	1	0.7	0.1	0	0.0	0.0
Backbone-Sidechain	342	17.2	20	5.8	1.0	3	0.9	0.2
Sidechain-Sidechain	35	1.8	7	20.0	0.4	1	2.9	0.1
Medium range ($i-j >1$ & $i-j <5$)	180	9.0	28	15.6	1.4	12	6.7	0.6
Backbone-Backbone	19	1.0	2	10.5	0.1	0	0.0	0.0
Backbone-Sidechain	84	4.2	10	11.9	0.5	8	9.5	0.4
Sidechain-Sidechain	77	3.9	16	20.8	0.8	4	5.2	0.2
Long range ($i-j \geq 5$)	764	38.3	89	11.6	4.5	22	2.9	1.1
Backbone-Backbone	95	4.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	271	13.6	34	12.5	1.7	10	3.7	0.5
Sidechain-Sidechain	398	20.0	55	13.8	2.8	12	3.0	0.6
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	56	2.8	7	12.5	0.4	1	1.8	0.1
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1993	100.0	164	8.2	8.2	41	2.1	2.1
Backbone-Backbone	261	13.1	3	1.1	0.2	0	0.0	0.0
Backbone-Sidechain	1107	55.5	80	7.2	4.0	23	2.1	1.2
Sidechain-Sidechain	625	31.4	81	13.0	4.1	18	2.9	0.9

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	5	11	17	37	0	70	1.1	3.32	0.87	0.96
2	2	12	14	49	0	77	1.31	4.3	0.97	1.22
3	5	14	16	56	0	91	1.21	4.28	1.01	0.96
4	3	9	16	48	0	76	1.14	4.2	0.92	0.96
5	3	11	16	50	0	80	1.18	4.24	1.01	0.88
6	4	15	15	46	0	80	1.31	4.35	1.03	1.15
7	6	9	15	42	0	72	1.19	4.28	0.97	0.9
8	8	8	19	39	0	74	1.11	3.43	0.89	0.86
9	3	10	21	41	0	75	1.2	4.23	0.92	0.95
10	2	14	16	50	0	82	1.29	4.34	0.99	1.04

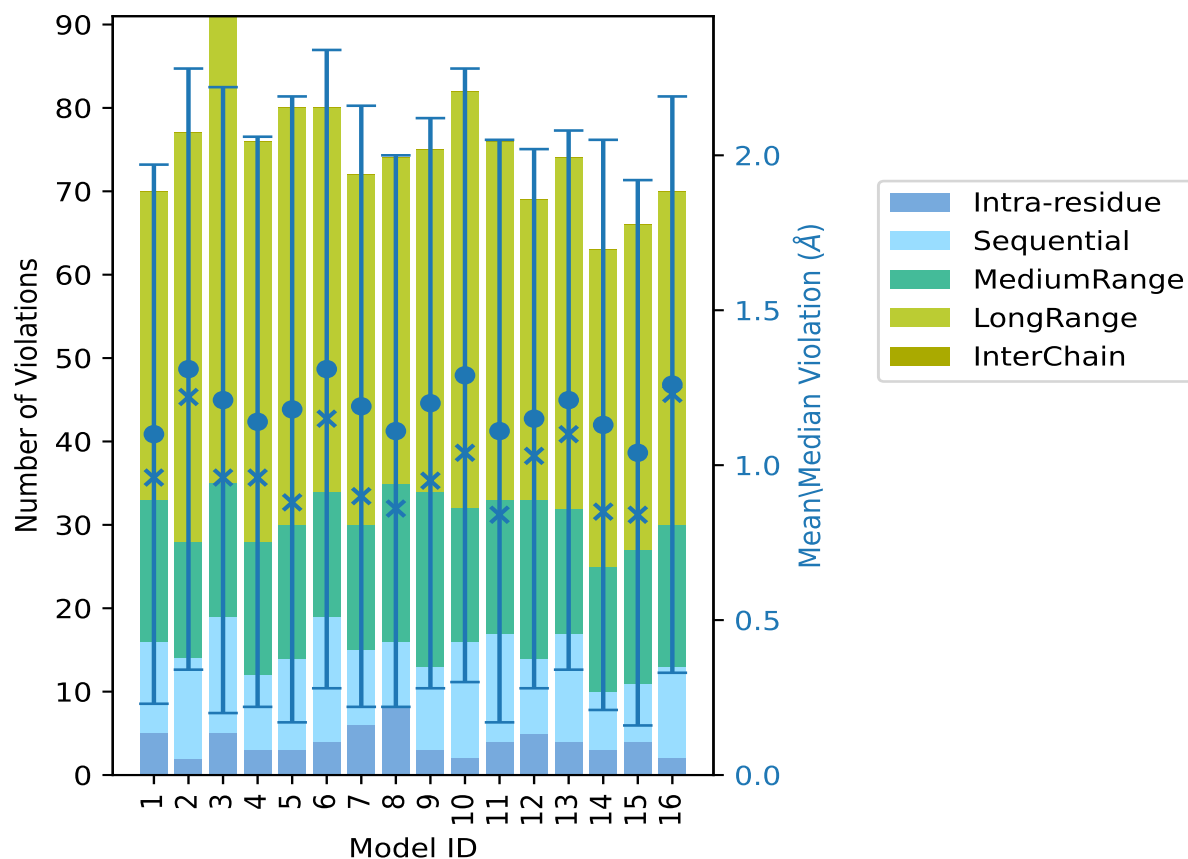
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	4	13	16	43	0	76	1.11	3.95	0.94	0.84
12	5	9	19	36	0	69	1.15	3.72	0.87	1.03
13	4	13	15	42	0	74	1.21	3.39	0.87	1.1
14	3	7	15	38	0	63	1.13	3.73	0.92	0.85
15	4	7	16	39	0	66	1.04	3.09	0.88	0.84
16	2	11	17	40	0	70	1.26	3.68	0.93	1.23

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

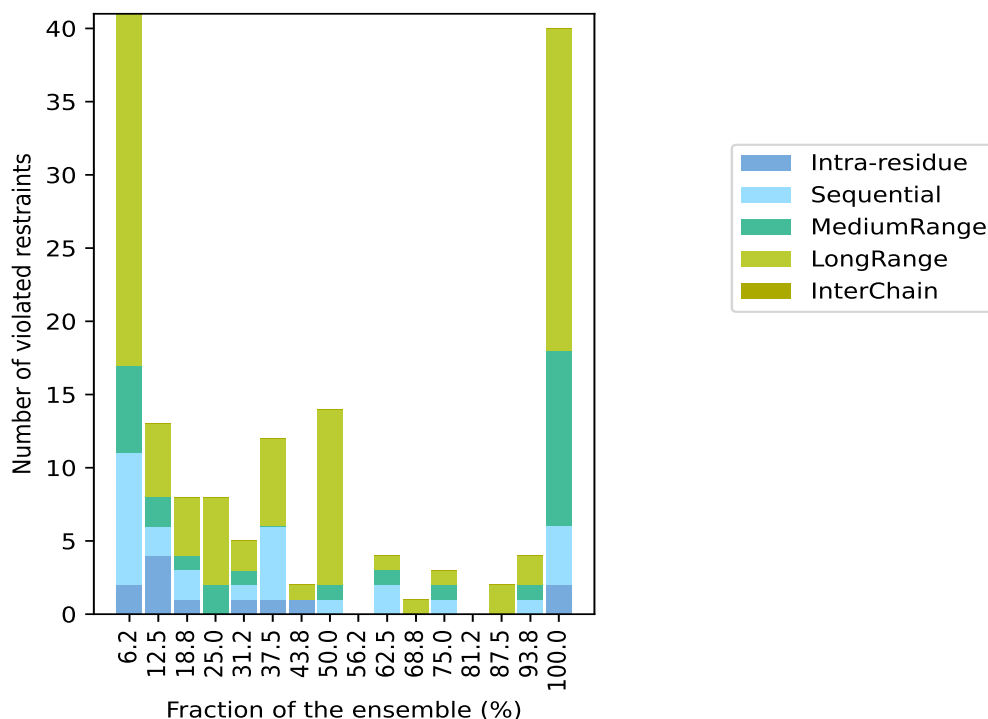
9.3 Distance violation statistics for the ensemble

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, 1780(IR:457, SQ:496, MR:152, LR:675, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
2	9	6	24	0	41	1	6.2
4	2	2	5	0	13	2	12.5
1	2	1	4	0	8	3	18.8
0	0	2	6	0	8	4	25.0
1	1	1	2	0	5	5	31.2
1	5	0	6	0	12	6	37.5
1	0	0	1	0	2	7	43.8
0	1	1	12	0	14	8	50.0
0	0	0	0	0	0	9	56.2
0	2	1	1	0	4	10	62.5
0	0	0	1	0	1	11	68.8
0	1	1	1	0	3	12	75.0
0	0	0	0	0	0	13	81.2
0	0	0	2	0	2	14	87.5
0	1	1	2	0	4	15	93.8
2	4	12	22	0	40	16	100.0

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

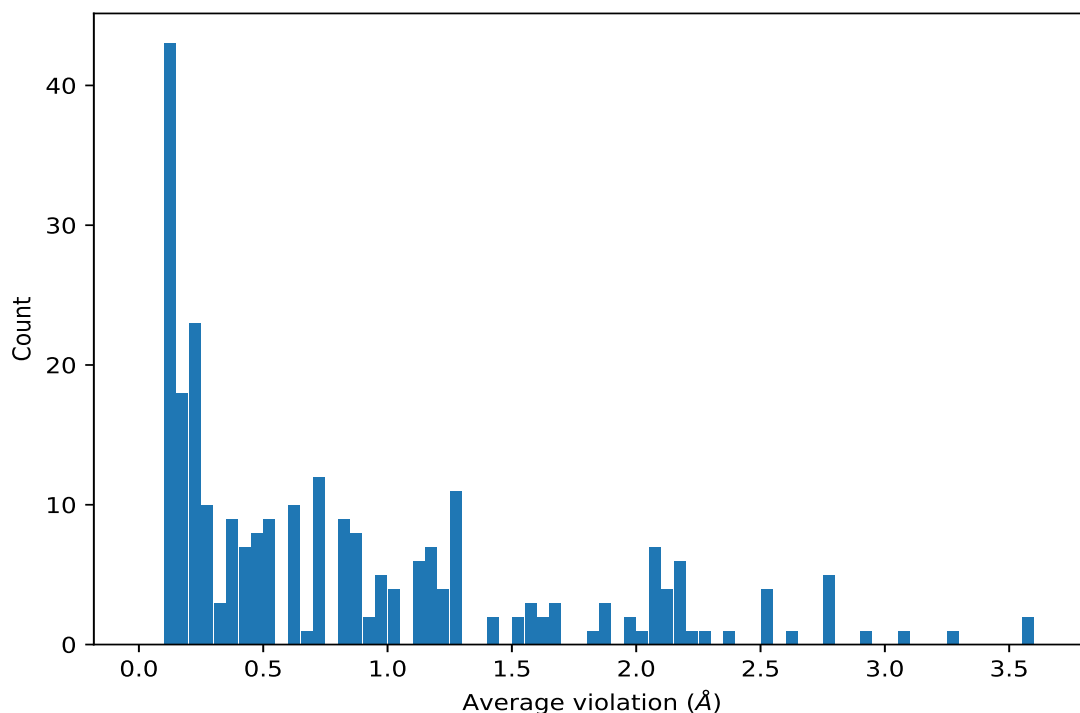
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	16	3.27	0.35	3.28
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	16	2.77	0.17	2.78
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	16	2.76	0.17	2.72
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	16	2.76	0.17	2.72
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	16	2.76	0.17	2.72
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	16	2.36	0.14	2.37
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	16	2.25	0.16	2.26
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	16	2.23	0.13	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	16	2.17	0.25	2.16
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	16	2.17	0.25	2.16
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	16	2.17	0.25	2.16
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	16	2.17	0.25	2.16
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	16	2.17	0.25	2.16
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	16	2.17	0.25	2.16
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	16	2.12	0.17	2.09
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	16	2.12	0.17	2.09

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	16	2.12	0.17	2.09
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	16	2.1	0.12	2.1
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	16	2.08	0.66	2.41
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	16	2.08	0.66	2.41
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	16	2.08	0.66	2.41
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	16	2.05	0.22	2.03
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	16	2.04	0.23	1.95
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	16	1.99	0.22	1.99
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	16	1.95	0.52	1.89
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	16	1.86	0.78	2.04
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	16	1.86	0.78	2.04
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	16	1.86	0.78	2.04
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	16	1.84	0.21	1.78
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	16	1.69	0.35	1.6
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	16	1.68	0.28	1.62
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	16	1.65	0.28	1.63
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	16	1.63	0.12	1.6
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	16	1.6	0.21	1.6
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	16	1.55	1.02	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	16	1.55	1.02	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	16	1.55	1.02	1.06
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	16	1.44	0.18	1.42
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	16	1.42	0.06	1.42
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	16	1.27	0.26	1.28
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	16	1.27	0.26	1.28
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	16	1.27	0.26	1.28
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	16	1.26	0.15	1.23
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	16	1.2	0.23	1.19
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	16	1.18	0.23	1.18
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	16	1.13	0.58	0.85
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	16	1.13	0.58	0.85
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	16	1.13	0.58	0.85
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	16	1.03	0.18	1.08
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	16	0.96	0.14	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	16	0.96	0.14	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	16	0.96	0.14	0.96
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	16	0.89	0.26	0.9
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	16	0.87	0.08	0.91
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	16	0.8	0.06	0.81
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	16	0.8	0.06	0.81
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	16	0.8	0.06	0.81
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	16	0.73	0.15	0.75

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	16	0.73	0.15	0.75
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	16	0.73	0.15	0.75
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	16	0.71	0.22	0.66
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	16	0.71	0.22	0.66
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	16	0.71	0.22	0.66
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	16	0.7	0.19	0.7
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	16	0.7	0.19	0.7
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	16	0.7	0.19	0.7
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	16	0.7	0.19	0.7
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	16	0.7	0.19	0.7
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	16	0.7	0.19	0.7
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	16	0.68	0.18	0.65
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	16	0.45	0.15	0.46
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	16	0.45	0.15	0.46
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	16	0.45	0.15	0.46
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	16	0.39	0.04	0.4
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	16	0.19	0.04	0.2
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	15	0.91	0.35	1.01
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	15	0.52	0.17	0.46
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	15	0.52	0.17	0.46
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	15	0.52	0.17	0.46
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	15	0.41	0.15	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	15	0.41	0.15	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	15	0.41	0.15	0.42
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	15	0.17	0.05	0.17
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	15	0.17	0.05	0.17
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	15	0.17	0.05	0.17
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	14	2.52	2.03	4.22
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	14	0.33	0.29	0.24
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	14	0.33	0.29	0.24
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	14	0.33	0.29	0.24
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	12	0.88	0.65	0.7
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	12	0.88	0.65	0.7
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	12	0.88	0.65	0.7
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	12	0.18	0.03	0.18
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	12	0.17	0.03	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	12	0.17	0.03	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	12	0.17	0.03	0.17
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	11	0.43	0.27	0.36
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	10	1.17	0.66	1.17
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	10	1.17	0.66	1.17
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	10	1.17	0.66	1.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	10	1.17	0.66	1.17
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	10	1.17	0.66	1.17
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	10	1.17	0.66	1.17
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	10	0.38	0.68	0.16
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	10	0.16	0.04	0.18
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	10	0.16	0.04	0.18
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	10	0.14	0.03	0.14
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	9	0.13	0.02	0.13
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	8	3.58	0.29	3.76
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	8	2.91	0.46	3.06
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	8	2.52	0.15	2.53
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	8	2.52	0.15	2.53
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	8	2.52	0.15	2.53
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	8	2.09	0.11	2.08
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	8	2.09	0.11	2.08
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	8	2.09	0.11	2.08
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	8	1.26	0.67	1.1
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	8	1.21	0.17	1.27
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	8	1.21	0.17	1.27
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	8	1.21	0.17	1.27
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	8	1.13	0.52	1.06
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	8	1.13	0.52	1.06
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	8	1.13	0.52	1.06
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	8	0.96	0.06	0.96
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	8	0.85	0.62	0.95
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	8	0.85	0.62	0.95
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	8	0.85	0.62	0.95
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	8	0.84	0.08	0.84
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	8	0.84	0.08	0.84
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	8	0.84	0.08	0.84
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	8	0.81	0.34	0.86
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	8	0.81	0.34	0.86
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	8	0.81	0.34	0.86
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	8	0.35	0.14	0.34
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	8	0.35	0.14	0.34
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	8	0.35	0.14	0.34
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	8	0.35	0.16	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	8	0.28	0.06	0.27
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	8	0.28	0.06	0.27
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	7	0.64	0.12	0.63
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	7	0.12	0.01	0.12
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	7	0.12	0.01	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	7	0.12	0.01	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	7	0.12	0.01	0.12
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	6	3.55	0.31	3.7
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	6	3.08	0.42	3.14
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	6	2.78	0.55	2.52
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	6	1.52	0.19	1.51
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	6	1.52	0.19	1.51
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	6	1.27	0.84	0.8
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	6	1.01	0.71	0.62
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	6	1.01	0.71	0.62
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	6	0.96	0.07	0.97
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	6	0.62	0.4	0.5
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	6	0.62	0.4	0.5
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	6	0.62	0.4	0.5
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	6	0.42	0.12	0.42
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	6	0.42	0.12	0.42
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	6	0.42	0.12	0.42
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	6	0.36	0.13	0.36
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	6	0.36	0.13	0.36
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	6	0.36	0.13	0.36
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	6	0.22	0.11	0.18
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	6	0.22	0.11	0.18
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	6	0.22	0.11	0.18
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	6	0.1	0.0	0.1
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	5	0.6	0.38	0.63
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	5	0.5	0.05	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	5	0.5	0.05	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	5	0.5	0.05	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	5	0.5	0.05	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	5	0.5	0.05	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	5	0.5	0.05	0.49
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	5	0.27	0.1	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	5	0.27	0.1	0.24
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	5	0.27	0.1	0.24
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	5	0.26	0.08	0.24
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	5	0.2	0.06	0.16
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	5	0.2	0.06	0.16
(1,1494)	1:109:A:LYS:HE3	1:140:A:PHE:HE2	4	0.94	0.23	0.94
(1,890)	1:138:A:ILE:HD11	1:140:A:PHE:HD1	4	0.48	0.06	0.47
(1,890)	1:138:A:ILE:HD12	1:140:A:PHE:HD1	4	0.48	0.06	0.47
(1,890)	1:138:A:ILE:HD13	1:140:A:PHE:HD1	4	0.48	0.06	0.47
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD11	4	0.21	0.05	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD12	4	0.21	0.05	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD13	4	0.21	0.05	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD21	4	0.21	0.05	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD22	4	0.21	0.05	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD23	4	0.21	0.05	0.23
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE2	4	0.2	0.06	0.18
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE3	4	0.2	0.06	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE2	4	0.2	0.06	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE3	4	0.2	0.06	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE2	4	0.2	0.06	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE3	4	0.2	0.06	0.18
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB1	4	0.19	0.04	0.2
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB2	4	0.19	0.04	0.2
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB3	4	0.19	0.04	0.2
(1,235)	1:109:A:LYS:HG3	1:141:A:LYS:H	4	0.15	0.02	0.15
(2,49)	1:142:A:TYR:O	1:152:A:ALA:H	4	0.14	0.02	0.13
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG11	4	0.12	0.01	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG12	4	0.12	0.01	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG13	4	0.12	0.01	0.12
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG2	4	0.12	0.01	0.12
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG3	4	0.12	0.01	0.12
(1,254)	1:143:A:TYR:HE1	1:150:A:LEU:H	3	2.63	0.4	2.7
(1,323)	1:68:A:TYR:HD1	1:72:A:GLN:HE21	3	1.02	0.67	0.62
(1,1068)	1:68:A:TYR:HD2	1:125:A:ILE:HB	3	0.25	0.1	0.24
(1,296)	1:117:A:GLN:HA	1:117:A:GLN:HE22	3	0.17	0.02	0.18
(1,1166)	1:126:A:GLU:HG2	1:127:A:PRO:HD2	3	0.14	0.02	0.14
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB1	3	0.13	0.01	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB2	3	0.13	0.01	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB3	3	0.13	0.01	0.12
(1,1254)	1:83:A:LYS:HA	1:117:A:GLN:HE21	3	0.12	0.0	0.12
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG21	3	0.11	0.0	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG22	3	0.11	0.0	0.11

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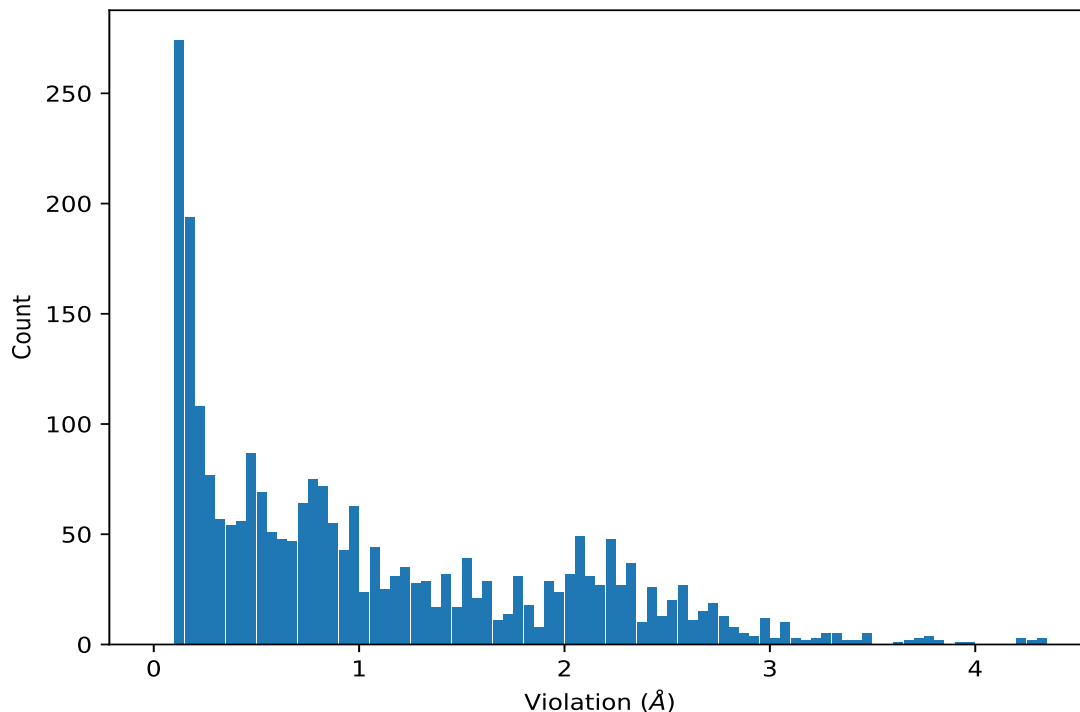
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG23	3	0.11	0.0	0.11
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB2	2	0.45	0.0	0.45
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB3	2	0.45	0.0	0.45
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG21	2	0.26	0.12	0.26
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG22	2	0.26	0.12	0.26
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG23	2	0.26	0.12	0.26
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG21	2	0.24	0.01	0.24
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG22	2	0.24	0.01	0.24
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG23	2	0.24	0.01	0.24
(1,1197)	1:97:A:ILE:HD11	1:137:A:LYS:HB3	2	0.2	0.04	0.2
(1,1197)	1:97:A:ILE:HD12	1:137:A:LYS:HB3	2	0.2	0.04	0.2
(1,1197)	1:97:A:ILE:HD13	1:137:A:LYS:HB3	2	0.2	0.04	0.2
(1,1330)	1:83:A:LYS:HA	1:83:A:LYS:HD3	2	0.16	0.02	0.16
(1,1745)	1:84:A:GLU:HB2	1:85:A:GLU:H	2	0.15	0.0	0.15
(1,1745)	1:84:A:GLU:HB3	1:85:A:GLU:H	2	0.15	0.0	0.15
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB2	2	0.14	0.03	0.14
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB3	2	0.14	0.03	0.14
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB2	2	0.14	0.03	0.14
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB3	2	0.14	0.03	0.14
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE1	2	0.13	0.01	0.13
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE2	2	0.13	0.01	0.13
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE3	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,1615)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	2	0.13	0.01	0.13
(1,587)	1:117:A:GLN:H	1:117:A:GLN:HE21	2	0.12	0.02	0.12
(1,1276)	1:70:A:LEU:HD21	1:127:A:PRO:HG2	2	0.12	0.02	0.12
(1,1276)	1:70:A:LEU:HD22	1:127:A:PRO:HG2	2	0.12	0.02	0.12
(1,1276)	1:70:A:LEU:HD23	1:127:A:PRO:HG2	2	0.12	0.02	0.12
(1,151)	1:150:A:LEU:HD21	1:153:A:THR:H	2	0.12	0.0	0.12
(1,151)	1:150:A:LEU:HD22	1:153:A:THR:H	2	0.12	0.0	0.12
(1,151)	1:150:A:LEU:HD23	1:153:A:THR:H	2	0.12	0.0	0.12
(2,50)	1:142:A:TYR:O	1:152:A:ALA:N	2	0.12	0.0	0.12
(1,1371)	1:121:A:ILE:HG13	1:122:A:VAL:H	2	0.11	0.0	0.11

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)
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	6	4.35
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	10	4.34
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	2	4.3
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	3	4.28
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	7	4.28
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	5	4.24
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	9	4.23
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	4	4.2
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	11	3.95
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	6	3.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	10	3.82
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	10	3.8
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	3	3.78
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	3	3.78
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	2	3.77
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	11	3.76
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	5	3.74
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	14	3.73
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	12	3.72
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	16	3.68
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	16	3.65
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	6	3.61
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	10	3.48
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	5	3.46
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	5	3.46
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	5	3.46
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	3	3.46
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	8	3.43
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	16	3.42
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	13	3.39
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	3	3.36
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	6	3.34
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	1	3.32
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	1	3.32
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	1	3.32
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	5	3.3
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	7	3.29
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	13	3.27
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	7	3.26
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	7	3.26
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	7	3.26
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	3	3.23
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	4	3.2
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	11	3.2
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	6	3.17
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	10	3.16
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	9	3.14
(1,1222)	1:108:A:SER:HA	1:140:A:PHE:HE2	9	3.14
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	6	3.12
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	15	3.09
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	15	3.09
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	15	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	6	3.09
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	10	3.08
(1,254)	1:143:A:TYR:HE1	1:150:A:LEU:H	5	3.08
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	7	3.07
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	14	3.05
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	14	3.05
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	14	3.05
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	2	3.03
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	16	3.03
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	7	3.02
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	15	2.98
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	15	2.98
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	15	2.98
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	2	2.98
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	2	2.98
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	2	2.98
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	1	2.98
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	5	2.97
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	5	2.97
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	5	2.97
(1,331)	1:106:A:TRP:HE1	1:130:A:TYR:HE1	13	2.97
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	15	2.95
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	8	2.92
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	5	2.91
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	1	2.91
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	13	2.9
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	4	2.88
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	9	2.87
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	9	2.87
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	9	2.87
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	10	2.87
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	14	2.84
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	12	2.82
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	12	2.81
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	12	2.81
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	12	2.81
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	12	2.81
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	12	2.81
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	12	2.81
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	12	2.79
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	12	2.79
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	12	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	1	2.78
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	1	2.78
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	1	2.78
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	6	2.78
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	6	2.78
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	6	2.78
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	3	2.78
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	2	2.77
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	2	2.77
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	11	2.76
(1,891)	1:96:A:HIS:HA	1:131:A:PHE:HE2	9	2.74
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	8	2.73
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	8	2.73
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	8	2.73
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	5	2.73
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	4	2.72
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	4	2.72
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	4	2.72
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	3	2.72
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	3	2.72
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	3	2.72
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	6	2.72
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	6	2.72
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	6	2.72
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	12	2.71
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	12	2.71
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	12	2.71
(1,254)	1:143:A:TYR:HE1	1:150:A:LEU:H	8	2.7
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	4	2.7
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	8	2.69
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	15	2.69
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	8	2.68
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	8	2.68
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	8	2.68
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	2	2.67
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	2	2.67
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	2	2.67
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	11	2.67
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	13	2.66
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	13	2.66
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	13	2.66
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	11	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	11	2.65
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	11	2.65
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	16	2.64
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	16	2.64
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	16	2.64
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	7	2.64
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	6	2.63
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	6	2.63
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	6	2.63
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	10	2.61
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	10	2.61
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	10	2.61
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	15	2.61
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	10	2.59
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	10	2.59
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	10	2.59
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	8	2.58
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	8	2.58
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	8	2.58
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	4	2.58
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	4	2.58
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	4	2.58
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	16	2.57
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	9	2.57
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	9	2.57
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	9	2.57
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	7	2.57
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	7	2.57
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	7	2.57
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	10	2.57
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	8	2.56
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	7	2.56
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	7	2.56
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	7	2.56
(1,835)	1:63:A:ALA:HB1	1:79:A:PHE:HD2	16	2.56
(1,835)	1:63:A:ALA:HB2	1:79:A:PHE:HD2	16	2.56
(1,835)	1:63:A:ALA:HB3	1:79:A:PHE:HD2	16	2.56
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	4	2.56
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	4	2.56
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	4	2.56
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	11	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	1	2.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	1	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	1	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	2	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	2	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	2	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	4	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	4	2.54
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	4	2.54
(1,138)	1:104:A:ASN:H	1:105:A:PHE:HD1	9	2.54
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	14	2.53
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	2	2.52
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	2	2.52
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	2	2.52
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	9	2.51
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	9	2.51
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	9	2.51
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	16	2.51
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	3	2.5
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	11	2.49
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	11	2.49
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	11	2.49
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	3	2.49
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	3	2.49
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	3	2.49
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	13	2.49
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	5	2.48
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	16	2.47
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	7	2.46
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	15	2.46
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	8	2.45
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	3	2.45
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	6	2.44
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	6	2.44
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	6	2.44
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	6	2.44
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	6	2.44
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	6	2.44
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	3	2.44
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	2	2.44
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	6	2.43
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	6	2.43
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	6	2.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	3	2.43
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	3	2.43
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	3	2.43
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	14	2.43
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	15	2.43
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	6	2.42
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	14	2.42
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	16	2.42
(1,51)	1:68:A:TYR:HD2	1:70:A:LEU:H	9	2.42
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	14	2.42
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	9	2.41
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	10	2.41
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	12	2.4
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	12	2.4
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	12	2.4
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	6	2.39
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	9	2.39
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	5	2.38
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	5	2.38
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	5	2.38
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	13	2.38
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	2	2.37
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	5	2.37
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	6	2.35
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	15	2.35
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	1	2.34
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	12	2.34
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	3	2.33
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	4	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	9	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	9	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	9	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	9	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	9	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	9	2.32
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	13	2.32
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	5	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	5	2.32
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	5	2.32
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	11	2.32
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	14	2.31
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	14	2.31
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	14	2.31
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	14	2.31
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	14	2.31
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	14	2.31
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	10	2.31
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	10	2.31
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	10	2.31
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	2	2.31
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	14	2.31
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	1	2.31
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	3	2.3
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	1	2.3
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	5	2.3
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	16	2.3
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	13	2.3
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	4	2.28
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	1	2.28
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	15	2.27
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	4	2.27
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	12	2.26
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	12	2.26
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	12	2.26
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	12	2.26
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	12	2.26
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	12	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	3	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	3	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	3	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	3	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	3	2.26
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	3	2.26
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	14	2.26
(1,836)	1:63:A:ALA:HB1	1:140:A:PHE:HE1	7	2.26
(1,836)	1:63:A:ALA:HB2	1:140:A:PHE:HE1	7	2.26
(1,836)	1:63:A:ALA:HB3	1:140:A:PHE:HE1	7	2.26
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	7	2.26
(1,1321)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	10	2.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	14	2.25
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	14	2.25
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	14	2.25
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	5	2.25
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	4	2.25
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	4	2.24
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	4	2.24
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	4	2.24
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	15	2.24
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	2	2.24
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	8	2.24
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	13	2.24
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	8	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	8	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	8	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	8	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	8	2.23
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	8	2.23
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	2	2.23
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	3	2.23
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	4	2.23
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	2	2.22
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	2	2.22
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	2	2.22
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	2	2.22
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	2	2.22
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	2	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	5	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	5	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	5	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	5	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	5	2.22
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	5	2.22
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	13	2.22
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	3	2.22
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	3	2.22
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	3	2.22
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	9	2.22
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	2	2.21
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	2	2.21
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	2	2.21
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	2	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	2	2.21
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	2	2.21
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	11	2.21
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	11	2.21
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	11	2.21
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	6	2.21
(1,332)	1:106:A:TRP:HE1	1:130:A:TYR:HD1	13	2.21
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	7	2.21
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	10	2.21
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	10	2.2
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	6	2.2
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	6	2.19
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	14	2.18
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	2	2.18
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	2	2.18
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	2	2.18
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	10	2.17
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	10	2.17
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	10	2.17
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	6	2.17
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	6	2.17
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	6	2.17
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	5	2.17
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	5	2.17
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	5	2.17
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	1	2.17
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	14	2.17
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	8	2.17
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	14	2.16
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	14	2.16
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	14	2.16
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	9	2.16
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	3	2.15
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	3	2.15
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	3	2.15
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	2	2.15
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	7	2.15
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	8	2.15
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	6	2.14
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	6	2.14
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	6	2.14
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	11	2.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	15	2.14
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	11	2.14
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	16	2.14
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	16	2.13
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	16	2.13
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	11	2.13
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	9	2.13
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	9	2.13
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	9	2.13
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	2	2.12
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	8	2.11
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	8	2.11
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	8	2.11
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	6	2.11
(1,254)	1:143:A:TYR:HE1	1:150:A:LEU:H	1	2.11
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	12	2.1
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	12	2.1
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	12	2.1
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	13	2.1
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	13	2.1
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	13	2.1
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	5	2.1
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	5	2.1
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	12	2.1
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	14	2.1
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	10	2.1
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	6	2.1
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	12	2.09
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	12	2.09
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	12	2.09
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	12	2.09
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	12	2.09
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	12	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	11	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	11	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	11	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	11	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	11	2.09
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	11	2.09
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	7	2.09
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	7	2.09
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	7	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	13	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	13	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	13	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	13	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	13	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	13	2.08
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	5	2.08
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	5	2.08
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	5	2.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	9	2.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	9	2.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	9	2.08
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	8	2.08
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	1	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	1	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	1	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	1	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	1	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	1	2.07
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	8	2.07
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	12	2.07
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	2	2.06
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	2	2.06
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	2	2.06
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	2	2.06
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	2	2.06
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	2	2.06
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	13	2.06
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	3	2.06
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	7	2.06
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	13	2.05
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	3	2.05
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	2	2.05
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	12	2.05
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	10	2.04
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	10	2.04
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	10	2.04
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	9	2.04
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	10	2.04
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	10	2.03
(1,73)	1:77:A:ILE:H	1:79:A:PHE:HD2	8	2.03
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	4	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	4	2.02
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	4	2.02
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	15	2.02
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	15	2.02
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	15	2.02
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	2	2.02
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	2	2.02
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	2	2.02
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	16	2.02
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	13	2.02
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	15	2.02
(1,19)	1:64:A:SER:H	1:79:A:PHE:HD2	11	2.02
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	7	2.01
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	7	2.01
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	7	2.01
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	7	2.01
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	7	2.01
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	7	2.01
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	4	2.01
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	7	2.01
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	7	2.01
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	7	2.01
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	14	2.0
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	11	2.0
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	2	1.99
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	2	1.99
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	2	1.99
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	9	1.98
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	3	1.98
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	9	1.97
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	9	1.97
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	9	1.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	12	1.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	12	1.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	12	1.97
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	11	1.97
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	11	1.97
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	11	1.97
(1,323)	1:68:A:TYR:HD1	1:72:A:GLN:HE21	8	1.97
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	11	1.96
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	10	1.96
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	1	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	1	1.95
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	1	1.95
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	10	1.95
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	10	1.95
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	10	1.95
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	8	1.95
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	10	1.94
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	10	1.94
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	10	1.94
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	10	1.94
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	10	1.94
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	10	1.94
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	9	1.94
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	2	1.94
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	13	1.93
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	13	1.93
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	13	1.93
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	16	1.93
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	14	1.92
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	16	1.92
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG21	16	1.91
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG22	16	1.91
(1,1086)	1:131:A:PHE:HE2	1:136:A:ILE:HG23	16	1.91
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD11	5	1.91
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD12	5	1.91
(1,945)	1:140:A:PHE:HD1	1:157:A:ILE:HD13	5	1.91
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	16	1.91
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	16	1.91
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	16	1.91
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	13	1.91
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	12	1.91
(1,258)	1:142:A:TYR:HD2	1:151:A:ARG:H	9	1.91
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	1	1.9
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	6	1.9
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	12	1.9
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	13	1.89
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	13	1.89
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	15	1.88
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	16	1.88
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	2	1.87
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	4	1.87
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	10	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	1	1.86
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	12	1.84
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	4	1.84
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	11	1.84
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	12	1.83
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	12	1.83
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	12	1.83
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	15	1.83
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	7	1.83
(1,790)	1:64:A:SER:HA	1:79:A:PHE:HD2	3	1.81
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	6	1.81
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	7	1.81
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	10	1.8
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	10	1.8
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	10	1.8
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	3	1.8
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	4	1.8
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	4	1.8
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	3	1.8
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	15	1.79
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	2	1.79
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	2	1.79
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	2	1.79
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	3	1.79
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	15	1.79
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	16	1.78
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	16	1.78
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	16	1.78
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	16	1.78
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	16	1.78
(1,1652)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	16	1.78
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	14	1.78
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	9	1.78
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	6	1.78
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	8	1.78
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	14	1.78
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	7	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	3	1.77
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	3	1.77
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	13	1.77
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	3	1.76
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	3	1.76
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	12	1.76
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	11	1.75
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	11	1.75
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	11	1.74
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	1	1.74
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	4	1.74
(1,1304)	1:140:A:PHE:HD1	1:157:A:ILE:HG12	4	1.73
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	16	1.73
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	5	1.73
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	11	1.72
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	13	1.71
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	1	1.7
(1,1250)	1:68:A:TYR:HD2	1:70:A:LEU:HA	5	1.7
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	11	1.7
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	4	1.7
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	10	1.7
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	5	1.7
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	9	1.69
(1,375)	1:64:A:SER:H	1:79:A:PHE:HE2	7	1.68
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	4	1.67
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	12	1.66
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	12	1.66
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	12	1.66
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	14	1.65
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	14	1.65
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	14	1.65
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	8	1.65
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	1	1.65
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	16	1.64
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	16	1.64
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	16	1.64
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	6	1.64
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	1	1.64
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	1	1.63
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	1	1.63
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	1	1.63
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	1	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	1	1.63
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	1	1.63
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	2	1.63
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	6	1.63
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	10	1.63
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	16	1.62
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	7	1.62
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	1	1.62
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	1	1.62
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	1	1.62
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	4	1.62
(1,76)	1:78:A:ILE:H	1:79:A:PHE:HD2	8	1.62
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	10	1.62
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	10	1.61
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	15	1.61
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	13	1.6
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	7	1.6
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	2	1.6
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	7	1.6
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	12	1.6
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	5	1.59
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	6	1.59
(1,830)	1:63:A:ALA:HA	1:79:A:PHE:HD2	16	1.59
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	2	1.59
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	12	1.57
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	10	1.57
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	10	1.57
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	1	1.57
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	13	1.57
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	16	1.57
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	16	1.57
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	2	1.56
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	2	1.56
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	2	1.56
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	15	1.56
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	12	1.56
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	11	1.55
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	5	1.55
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	6	1.55
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	15	1.55
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	16	1.55
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	1	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	1	1.54
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	1	1.54
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	1	1.54
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	1	1.54
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	1	1.54
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	13	1.54
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	13	1.54
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	13	1.54
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	7	1.54
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	7	1.54
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	7	1.54
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	10	1.54
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	10	1.54
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	7	1.54
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	11	1.53
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	12	1.53
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	16	1.53
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	15	1.52
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	7	1.52
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	7	1.52
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	7	1.52
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	8	1.52
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	8	1.52
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	8	1.52
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	11	1.52
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	2	1.51
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	3	1.51
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	3	1.51
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	3	1.51
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	12	1.51
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	12	1.51
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	12	1.51
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	16	1.51
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	16	1.51
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	16	1.51
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	1	1.51
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	1	1.5
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	11	1.5
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	1	1.49
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	1	1.49
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	1	1.49
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	7	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	2	1.49
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	5	1.48
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	12	1.48
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	1	1.48
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	12	1.47
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	6	1.46
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	14	1.46
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	2	1.46
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	6	1.45
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	6	1.45
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	7	1.45
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	14	1.45
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	5	1.45
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	2	1.44
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	2	1.44
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	2	1.44
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	5	1.44
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	14	1.44
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	12	1.43
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	8	1.43
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	8	1.43
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	8	1.43
(1,202)	1:131:A:PHE:HD2	1:133:A:GLU:H	9	1.43
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	13	1.43
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	5	1.43
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	13	1.43
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	13	1.43
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	3	1.42
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	3	1.42
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	3	1.42
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	3	1.42
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	3	1.42
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	8	1.42
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	12	1.41
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	5	1.41
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	16	1.41
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	1	1.4
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	1	1.4
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	1	1.4
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	2	1.4
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	13	1.4
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	13	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	13	1.4
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	14	1.4
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	9	1.4
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	3	1.38
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	3	1.38
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	3	1.38
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	2	1.38
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	1	1.38
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	6	1.38
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	4	1.38
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	13	1.37
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	13	1.37
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	13	1.37
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	7	1.37
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	4	1.37
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	15	1.37
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	8	1.36
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	10	1.36
(1,1084)	1:131:A:PHE:HD2	1:136:A:ILE:HB	9	1.36
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	8	1.35
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	13	1.34
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	13	1.34
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	13	1.34
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	9	1.34
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	16	1.33
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	16	1.33
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	16	1.33
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	16	1.33
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	16	1.33
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	16	1.33
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	7	1.33
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	10	1.33
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	6	1.33
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	6	1.33
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	6	1.33
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	13	1.32
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	1	1.32
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	15	1.32
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	15	1.32
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	15	1.32
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	8	1.32
(1,77)	1:79:A:PHE:H	1:79:A:PHE:HD2	2	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	6	1.31
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	9	1.31
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	9	1.31
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	4	1.3
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	9	1.3
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	16	1.3
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	1	1.3
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	4	1.29
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	4	1.29
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	4	1.29
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	8	1.28
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	10	1.28
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	10	1.28
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	10	1.28
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	6	1.28
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	6	1.28
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	6	1.28
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	6	1.28
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	6	1.28
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	6	1.28
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	6	1.28
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	4	1.27
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	4	1.27
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	4	1.27
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	16	1.27
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	13	1.27
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	9	1.26
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	9	1.26
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	9	1.26
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	16	1.26
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	16	1.26
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	16	1.26
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	13	1.25
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	12	1.25
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	2	1.25
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	12	1.24
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	12	1.24
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	12	1.24
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	12	1.24
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	12	1.24
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	12	1.24
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	5	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:68:A:TYR:HE2	1:70:A:LEU:HA	16	1.24
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	8	1.24
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	3	1.24
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	16	1.23
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	16	1.23
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	16	1.23
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	16	1.23
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	16	1.23
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	16	1.23
(1,1323)	1:129:A:PRO:HD2	1:130:A:TYR:HD2	16	1.23
(1,1323)	1:129:A:PRO:HD3	1:130:A:TYR:HD2	16	1.23
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	8	1.23
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	8	1.23
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	8	1.23
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	3	1.23
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	3	1.23
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	3	1.23
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	5	1.23
(1,1494)	1:109:A:LYS:HE3	1:140:A:PHE:HE2	2	1.22
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	12	1.22
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	12	1.22
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	12	1.22
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	6	1.22
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	6	1.21
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	7	1.21
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	1	1.2
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	4	1.2
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	15	1.2
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	13	1.19
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	13	1.19
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	13	1.19
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	13	1.19
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	13	1.19
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	13	1.19
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	7	1.18
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	10	1.18
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	3	1.18
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	14	1.17
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	4	1.17
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	4	1.17
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	4	1.17
(1,67)	1:68:A:TYR:HE1	1:76:A:LEU:H	11	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	15	1.17
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	15	1.16
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	6	1.16
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	6	1.16
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	6	1.16
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	5	1.16
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	5	1.16
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	5	1.16
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	10	1.15
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	10	1.15
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	10	1.15
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	10	1.15
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	10	1.15
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	10	1.15
(1,72)	1:77:A:ILE:H	1:79:A:PHE:HE2	8	1.15
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	6	1.15
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	11	1.15
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	12	1.14
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	12	1.14
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	12	1.14
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	12	1.14
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	9	1.13
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	14	1.13
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	14	1.13
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	14	1.13
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	13	1.13
(1,1494)	1:109:A:LYS:HE3	1:140:A:PHE:HE2	10	1.12
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	7	1.12
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	7	1.12
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	7	1.12
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	10	1.12
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	10	1.12
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	10	1.12
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	2	1.12
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	14	1.11
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	14	1.11
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	14	1.11
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	3	1.11
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	15	1.11
(1,1519)	1:64:A:SER:HA	1:79:A:PHE:HE2	3	1.1
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	4	1.1
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	1	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	6	1.09
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	6	1.09
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	6	1.09
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	9	1.09
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	16	1.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	3	1.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	3	1.08
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	3	1.08
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	5	1.08
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	14	1.08
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	3	1.07
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	3	1.07
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	3	1.07
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	3	1.07
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	3	1.07
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	3	1.07
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	11	1.07
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	3	1.07
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	16	1.07
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	15	1.07
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	15	1.07
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	15	1.07
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	8	1.07
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	10	1.06
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	10	1.06
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	10	1.06
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	10	1.06
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	13	1.06
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	13	1.06
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	13	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	4	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	4	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	4	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	9	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	9	1.06
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	9	1.06
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	14	1.06
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	14	1.06
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	14	1.06
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	4	1.05
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	4	1.05
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	4	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	4	1.05
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	7	1.05
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	8	1.04
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	8	1.04
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	8	1.04
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	11	1.04
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	14	1.03
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	12	1.03
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	10	1.02
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	10	1.02
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	10	1.02
(1,196)	1:131:A:PHE:HD2	1:132:A:MET:H	9	1.02
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	3	1.02
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	6	1.02
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	13	1.02
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	11	1.01
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	11	1.01
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	11	1.01
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	5	1.01
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	9	1.0
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	9	1.0
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	9	1.0
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	15	1.0
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	9	1.0
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	9	1.0
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	9	1.0
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	5	0.99
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	3	0.99
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	3	0.99
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	3	0.99
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	3	0.99
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	3	0.99
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	3	0.99
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	4	0.99
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	4	0.99
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	4	0.99
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	2	0.99
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	2	0.99
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	2	0.99
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	4	0.99
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	6	0.99
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	1	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	13	0.97
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	13	0.97
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	13	0.97
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	13	0.97
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	13	0.97
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	13	0.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	13	0.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	13	0.97
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	13	0.97
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	2	0.97
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	2	0.97
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	2	0.97
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	8	0.97
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	8	0.97
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	8	0.97
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	1	0.97
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	1	0.97
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	1	0.97
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	13	0.97
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	10	0.97
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	14	0.96
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	2	0.96
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	2	0.96
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	2	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	5	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	5	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	5	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	13	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	13	0.96
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	13	0.96
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	3	0.96
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	10	0.96
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	12	0.96
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	12	0.95
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	12	0.95
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	12	0.95
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	1	0.95
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	1	0.95
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	1	0.95
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	15	0.95
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	15	0.95
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	10	0.95
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	10	0.95
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	10	0.95
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	9	0.95
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	1	0.95
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	10	0.94
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	10	0.94
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	10	0.94
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	10	0.94
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	10	0.94
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	10	0.94
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	4	0.93
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	2	0.93
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	3	0.93
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	3	0.93
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	3	0.93
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	16	0.93
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	16	0.93
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	16	0.93
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	1	0.93
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	5	0.93
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	8	0.93
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	9	0.92
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	9	0.92
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	9	0.92
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	7	0.92
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	7	0.92
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	7	0.92
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	15	0.92
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	15	0.92
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	15	0.92
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	2	0.92
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	2	0.92
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	10	0.92
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	6	0.91
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	6	0.91
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	6	0.91
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	10	0.91
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	12	0.91
(1,145)	1:105:A:PHE:HD2	1:106:A:TRP:H	9	0.91
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	3	0.91
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	13	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	15	0.91
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	16	0.91
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	8	0.9
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	13	0.9
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	6	0.9
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	5	0.9
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	5	0.89
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	5	0.89
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	5	0.89
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	13	0.89
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	13	0.89
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	13	0.89
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	11	0.89
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	2	0.89
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	11	0.89
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	9	0.89
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	11	0.88
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	11	0.88
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	11	0.88
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	13	0.88
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	13	0.88
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	13	0.88
(1,1227)	1:92:A:ILE:HD11	1:140:A:PHE:HE2	5	0.88
(1,1227)	1:92:A:ILE:HD12	1:140:A:PHE:HE2	5	0.88
(1,1227)	1:92:A:ILE:HD13	1:140:A:PHE:HE2	5	0.88
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	3	0.88
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	3	0.88
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	3	0.88
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	10	0.88
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	10	0.88
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	10	0.88
(1,229)	1:140:A:PHE:HD2	1:141:A:LYS:H	7	0.88
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	11	0.88
(1,58)	1:68:A:TYR:HE2	1:71:A:GLY:H	12	0.88
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	7	0.87
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	7	0.87
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	7	0.87
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	11	0.87
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	11	0.87
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	11	0.87
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	4	0.87
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	4	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	4	0.87
(1,193)	1:130:A:TYR:HD2	1:131:A:PHE:H	16	0.87
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	6	0.86
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	6	0.86
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	6	0.86
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	1	0.86
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	1	0.86
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	1	0.86
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	6	0.86
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	9	0.86
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	9	0.86
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	9	0.86
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	11	0.85
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	11	0.85
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	11	0.85
(1,995)	1:68:A:TYR:HD2	1:159:A:VAL:HA	15	0.85
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	14	0.85
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	14	0.85
(1,937)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	14	0.85
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	13	0.84
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	13	0.84
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	13	0.84
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	15	0.84
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	15	0.84
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	15	0.84
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	7	0.84
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	1	0.84
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	1	0.84
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	1	0.84
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	6	0.83
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	6	0.83
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	6	0.83
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	6	0.83
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	6	0.83
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	6	0.83
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	14	0.83
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	14	0.83
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	14	0.83
(1,1648)	1:68:A:TYR:HD1	1:72:A:GLN:HE21	8	0.82
(1,1648)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	8	0.82
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	11	0.82
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	7	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	7	0.82
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	7	0.82
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	3	0.82
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	3	0.82
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	3	0.82
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	5	0.82
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	5	0.82
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	5	0.82
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	16	0.82
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	10	0.81
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	10	0.81
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	10	0.81
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	10	0.81
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	10	0.81
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	10	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	9	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	14	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	14	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	14	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	14	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	14	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	14	0.81
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	8	0.81
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	8	0.81
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	8	0.81
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	1	0.81
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	5	0.81
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	5	0.81
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	5	0.81
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	2	0.81
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	2	0.81
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	2	0.81
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	8	0.8
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	8	0.8
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	8	0.8
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	8	0.8
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	8	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	8	0.8
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	2	0.8
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	2	0.8
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	2	0.8
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	7	0.8
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	7	0.8
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	7	0.8
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	11	0.79
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	11	0.79
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	11	0.79
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	11	0.79
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	11	0.79
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	11	0.79
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	6	0.79
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	4	0.78
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	4	0.78
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	4	0.78
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	4	0.78
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	4	0.78
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	4	0.78
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	8	0.78
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	3	0.78
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	16	0.78
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	16	0.78
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	16	0.78
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	2	0.78
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	2	0.78
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	2	0.78
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	10	0.78
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	10	0.78
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	10	0.78
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	3	0.77
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	3	0.77
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	3	0.77
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	3	0.77
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	3	0.77
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	3	0.77
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	12	0.77
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	5	0.77
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	5	0.77
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	5	0.77
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	12	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	12	0.77
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	12	0.77
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	13	0.77
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	13	0.77
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	13	0.77
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	16	0.77
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	16	0.77
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	16	0.77
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	16	0.76
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	16	0.76
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	16	0.76
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	5	0.76
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	5	0.76
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	5	0.76
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	9	0.76
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	9	0.76
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	9	0.76
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	5	0.76
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	5	0.76
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	5	0.76
(1,1494)	1:109:A:LYS:HE3	1:140:A:PHE:HE2	3	0.75
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	10	0.75
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	10	0.75
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	10	0.75
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	16	0.75
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	16	0.75
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	16	0.75
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	3	0.75
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	3	0.75
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	3	0.75
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	8	0.75
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	8	0.75
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	8	0.75
(1,842)	1:92:A:ILE:HD11	1:142:A:TYR:HE1	9	0.75
(1,842)	1:92:A:ILE:HD12	1:142:A:TYR:HE1	9	0.75
(1,842)	1:92:A:ILE:HD13	1:142:A:TYR:HE1	9	0.75
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG21	7	0.75
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG22	7	0.75
(1,828)	1:131:A:PHE:HD2	1:138:A:ILE:HG23	7	0.75
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	4	0.75
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	3	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	3	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	3	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	3	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	3	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	4	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	5	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	5	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	5	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	5	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	5	0.74
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	5	0.74
(1,1517)	1:68:A:TYR:HE1	1:76:A:LEU:HB2	9	0.74
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	12	0.74
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	12	0.74
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	12	0.74
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	2	0.74
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	2	0.74
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	2	0.74
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	4	0.74
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	4	0.74
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	4	0.74
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	1	0.74
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	1	0.74
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	1	0.74
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	4	0.74
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	3	0.74
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	4	0.73
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	4	0.73
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	4	0.73
(1,846)	1:92:A:ILE:HG21	1:140:A:PHE:HE2	6	0.73
(1,846)	1:92:A:ILE:HG22	1:140:A:PHE:HE2	6	0.73
(1,846)	1:92:A:ILE:HG23	1:140:A:PHE:HE2	6	0.73
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	11	0.73
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	7	0.73
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	8	0.72
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	8	0.72
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	8	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	14	0.72
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	4	0.71
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	4	0.71
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	4	0.71
(1,1046)	1:78:A:ILE:HG21	1:79:A:PHE:HD2	6	0.71
(1,1046)	1:78:A:ILE:HG22	1:79:A:PHE:HD2	6	0.71
(1,1046)	1:78:A:ILE:HG23	1:79:A:PHE:HD2	6	0.71
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	14	0.71
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	14	0.71
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	14	0.71
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	6	0.7
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	6	0.7
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	6	0.7
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	4	0.7
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	4	0.7
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	4	0.7
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	8	0.7
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	8	0.7
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	8	0.7
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	12	0.7
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	9	0.69
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	9	0.69
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	9	0.69
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	9	0.69
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	9	0.69
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	9	0.69
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	9	0.69
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	9	0.69
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	9	0.69
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	5	0.69
(1,85)	1:79:A:PHE:HD1	1:80:A:TRP:H	14	0.69
(1,1494)	1:109:A:LYS:HE3	1:140:A:PHE:HE2	5	0.68
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	10	0.68
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	10	0.68
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	10	0.68
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	9	0.68
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	9	0.68
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	9	0.68
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	14	0.68
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	14	0.68
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	14	0.68
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	3	0.67
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	3	0.67
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	10	0.66
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	1	0.66
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	1	0.66
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	1	0.66
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	11	0.66
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	11	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	11	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	11	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	11	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	11	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	11	0.65
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	4	0.65
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	4	0.65
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	4	0.65
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	2	0.65
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	2	0.65
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	2	0.65
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	10	0.65
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	10	0.65
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	10	0.65
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	14	0.65
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	15	0.65
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	4	0.65
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	1	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	2	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	2	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	2	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	2	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	2	0.64
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	2	0.64
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	5	0.64
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	11	0.63
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	11	0.63
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	5	0.63
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	5	0.63
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	5	0.63
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	5	0.63
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	5	0.63
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	11	0.63
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	11	0.63
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	11	0.63
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	8	0.63
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	8	0.63
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	8	0.63
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	11	0.63
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	11	0.63
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	11	0.63
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	9	0.63
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	9	0.63
(1,9)	1:62:A:THR:H	1:79:A:PHE:HD2	7	0.63
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	13	0.62
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	13	0.62
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	13	0.62
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	13	0.62
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	13	0.62
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	13	0.62
(1,323)	1:68:A:TYR:HD1	1:72:A:GLN:HE21	12	0.62
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	11	0.61
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	6	0.61
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	3	0.6
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	3	0.6
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	12	0.6
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	12	0.6
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	12	0.6
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	10	0.6
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	15	0.59
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	15	0.59
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	15	0.59
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	15	0.59
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	15	0.59
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	15	0.59
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	2	0.59
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	2	0.59
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	2	0.59
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	2	0.59
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	2	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	2	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	10	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	10	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	10	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	10	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	10	0.59
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	10	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	3	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	3	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	3	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	3	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	3	0.59
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	3	0.59
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	12	0.59
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	12	0.59
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	12	0.59
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	7	0.59
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	7	0.59
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	7	0.59
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	11	0.58
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	11	0.58
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	11	0.58
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	5	0.58
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	5	0.58
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	5	0.58
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	2	0.57
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	2	0.57
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	2	0.57
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	14	0.57
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	14	0.57
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	14	0.57
(1,890)	1:138:A:ILE:HD11	1:140:A:PHE:HD1	9	0.57
(1,890)	1:138:A:ILE:HD12	1:140:A:PHE:HD1	9	0.57
(1,890)	1:138:A:ILE:HD13	1:140:A:PHE:HD1	9	0.57
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	5	0.56
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	5	0.56
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	5	0.56
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	13	0.55
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	13	0.55
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	13	0.55
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	1	0.54
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	1	0.54
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	12	0.54
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	12	0.54
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	12	0.54
(1,1322)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	10	0.53
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	11	0.53
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	11	0.53
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	11	0.53
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	15	0.53
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	15	0.53
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	15	0.53
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	10	0.53
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	10	0.53
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	10	0.53
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	8	0.53
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	7	0.52
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	7	0.52
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	7	0.52
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	7	0.52
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	7	0.52
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	7	0.52
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	11	0.52
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	11	0.52
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	11	0.52
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	9	0.52
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	9	0.52
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	9	0.52
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	9	0.52
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	15	0.51
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	15	0.51
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	15	0.51
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	15	0.51
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	15	0.51
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	15	0.51
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	4	0.51
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	4	0.51
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	4	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	3	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	3	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	3	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	10	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	10	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	10	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	14	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	14	0.51
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	14	0.51
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	3	0.51
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	3	0.51
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	3	0.51
(1,843)	1:92:A:ILE:HD11	1:142:A:TYR:HD1	15	0.51
(1,843)	1:92:A:ILE:HD12	1:142:A:TYR:HD1	15	0.51
(1,843)	1:92:A:ILE:HD13	1:142:A:TYR:HD1	15	0.51
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	16	0.51
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	16	0.51
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	16	0.51
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	5	0.51
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	16	0.5
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	16	0.5
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	16	0.5
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	16	0.5
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	16	0.5
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	16	0.5
(1,890)	1:138:A:ILE:HD11	1:140:A:PHE:HD1	7	0.5
(1,890)	1:138:A:ILE:HD12	1:140:A:PHE:HD1	7	0.5
(1,890)	1:138:A:ILE:HD13	1:140:A:PHE:HD1	7	0.5
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	7	0.5
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	10	0.5
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	6	0.49
(1,1711)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	7	0.49
(1,1711)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	7	0.49
(1,1711)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	7	0.49
(1,1711)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	7	0.49
(1,1711)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	7	0.49
(1,1711)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	7	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	14	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	14	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	14	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	14	0.49
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	14	0.49
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	6	0.49
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	6	0.49
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	6	0.49
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	8	0.49
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	8	0.49
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	8	0.49
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	3	0.49
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD11	16	0.48
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD12	16	0.48
(1,1251)	1:68:A:TYR:HE2	1:70:A:LEU:HD13	16	0.48
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	15	0.48
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	15	0.48
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	15	0.48
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	8	0.48
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	4	0.48
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	13	0.47
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	13	0.47
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	13	0.47
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	13	0.47
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	13	0.47
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	13	0.47
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	8	0.47
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	8	0.47
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	8	0.47
(1,323)	1:68:A:TYR:HD1	1:72:A:GLN:HE21	9	0.47
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	2	0.46
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	7	0.46
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	7	0.46
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	7	0.46
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	10	0.46
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	10	0.46
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	10	0.46
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	9	0.46
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	9	0.46
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	9	0.46
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	5	0.46
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	5	0.46
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	5	0.46
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	15	0.46
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	15	0.46
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	15	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	5	0.46
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	5	0.46
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	5	0.46
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB2	5	0.45
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB3	5	0.45
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB2	8	0.45
(1,1912)	1:143:A:TYR:HE1	1:150:A:LEU:HB3	8	0.45
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	6	0.45
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	6	0.45
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	8	0.45
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	8	0.45
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	8	0.45
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	8	0.45
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	8	0.45
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	8	0.45
(1,1132)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	14	0.45
(1,1132)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	14	0.45
(1,1132)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	14	0.45
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	9	0.45
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	13	0.45
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	13	0.45
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	13	0.45
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	6	0.45
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	6	0.45
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	6	0.45
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	6	0.45
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	6	0.45
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	6	0.45
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	11	0.44
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	11	0.44
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	11	0.44
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD21	11	0.44
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD22	11	0.44
(1,1649)	1:68:A:TYR:HD1	1:76:A:LEU:HD23	11	0.44
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	6	0.44
(1,890)	1:138:A:ILE:HD11	1:140:A:PHE:HD1	3	0.44
(1,890)	1:138:A:ILE:HD12	1:140:A:PHE:HD1	3	0.44
(1,890)	1:138:A:ILE:HD13	1:140:A:PHE:HD1	3	0.44
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	16	0.43
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	3	0.43
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	3	0.43
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	9	0.42
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	9	0.42
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	9	0.42
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	4	0.42
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	8	0.42
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	9	0.42
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	9	0.42
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	9	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	15	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	15	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	15	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG21	16	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG22	16	0.42
(1,1080)	1:68:A:TYR:HE2	1:125:A:ILE:HG23	16	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	7	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	7	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	7	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	13	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	13	0.42
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	13	0.42
(1,48)	1:68:A:TYR:HE2	1:69:A:THR:H	16	0.42
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	3	0.41
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	3	0.41
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	3	0.41
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	10	0.41
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	10	0.41
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	10	0.41
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	10	0.41
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	12	0.41
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	14	0.41
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	4	0.41
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	13	0.4
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	13	0.4
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	13	0.4
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	5	0.4
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	7	0.4
(1,890)	1:138:A:ILE:HD11	1:140:A:PHE:HD1	10	0.4
(1,890)	1:138:A:ILE:HD12	1:140:A:PHE:HD1	10	0.4
(1,890)	1:138:A:ILE:HD13	1:140:A:PHE:HD1	10	0.4
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	11	0.4
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	11	0.4
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	11	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	1	0.39
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	7	0.39
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	7	0.39
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	11	0.39
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	6	0.39
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	6	0.39
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	6	0.39
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	16	0.39
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	16	0.39
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	16	0.39
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG21	5	0.38
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG22	5	0.38
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG23	5	0.38
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	3	0.38
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	15	0.38
(1,1068)	1:68:A:TYR:HD2	1:125:A:ILE:HB	12	0.38
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	10	0.38
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	10	0.38
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	10	0.38
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	12	0.38
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	12	0.38
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	12	0.38
(1,1863)	1:129:A:PRO:HG2	1:130:A:TYR:HD2	10	0.37
(1,1863)	1:129:A:PRO:HG3	1:130:A:TYR:HD2	10	0.37
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD21	15	0.37
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD22	15	0.37
(1,810)	1:68:A:TYR:HE2	1:70:A:LEU:HD23	15	0.37
(1,187)	1:128:A:GLY:H	1:131:A:PHE:HD1	16	0.37
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	15	0.36
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	2	0.36
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	13	0.36
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	14	0.36
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	14	0.36
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	14	0.36
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	4	0.36
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	4	0.36
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	4	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	1	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	1	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	1	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	2	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	2	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	9	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	9	0.36
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	9	0.36
(1,416)	1:72:A:GLN:H	1:72:A:GLN:HG2	8	0.36
(1,416)	1:72:A:GLN:H	1:72:A:GLN:HG3	8	0.36
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	1	0.35
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	2	0.35
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	3	0.35
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	9	0.35
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	9	0.35
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	9	0.35
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD11	15	0.34
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD12	15	0.34
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD13	15	0.34
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD21	15	0.34
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD22	15	0.34
(1,1653)	1:68:A:TYR:HD2	1:70:A:LEU:HD23	15	0.34
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	1	0.34
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	1	0.34
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	1	0.34
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	11	0.34
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	11	0.34
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	11	0.34
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	13	0.34
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	7	0.34
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	7	0.34
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	7	0.34
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	2	0.34
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	2	0.34
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	2	0.34
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	4	0.33
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	4	0.33
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	4	0.33
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	4	0.33
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	4	0.33
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	7	0.32
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	7	0.32
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	7	0.32
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	12	0.32
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	12	0.32
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1308)	1:65:A:MET:HE1	1:68:A:TYR:HE1	6	0.31
(1,1308)	1:65:A:MET:HE2	1:68:A:TYR:HE1	6	0.31
(1,1308)	1:65:A:MET:HE3	1:68:A:TYR:HE1	6	0.31
(1,1105)	1:68:A:TYR:HB3	1:68:A:TYR:HE2	6	0.31
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	4	0.31
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	4	0.31
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	4	0.31
(1,1076)	1:125:A:ILE:HD11	1:131:A:PHE:HD1	16	0.31
(1,1076)	1:125:A:ILE:HD12	1:131:A:PHE:HD1	16	0.31
(1,1076)	1:125:A:ILE:HD13	1:131:A:PHE:HD1	16	0.31
(1,921)	1:68:A:TYR:HD1	1:76:A:LEU:HB2	12	0.31
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	10	0.31
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	10	0.31
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	10	0.31
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	16	0.3
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	16	0.3
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	16	0.3
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE2	3	0.3
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE3	3	0.3
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE2	3	0.3
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE3	3	0.3
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE2	3	0.3
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE3	3	0.3
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	10	0.3
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	11	0.3
(1,294)	1:101:A:SER:HB2	1:104:A:ASN:HD22	15	0.3
(1,294)	1:101:A:SER:HB3	1:104:A:ASN:HD22	15	0.3
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	3	0.29
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	9	0.29
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	9	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	2	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	2	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	2	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	5	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	5	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	5	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	16	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	16	0.29
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	16	0.29
(1,1302)	1:76:A:LEU:HD21	1:140:A:PHE:HE1	6	0.28
(1,1302)	1:76:A:LEU:HD22	1:140:A:PHE:HE1	6	0.28
(1,1302)	1:76:A:LEU:HD23	1:140:A:PHE:HE1	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	14	0.28
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	14	0.28
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	14	0.28
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	13	0.28
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	13	0.28
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	13	0.28
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	13	0.27
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	6	0.27
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	6	0.27
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	10	0.27
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	10	0.27
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	13	0.27
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	13	0.27
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	13	0.27
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	11	0.27
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	11	0.27
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	4	0.27
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD11	3	0.26
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD12	3	0.26
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD13	3	0.26
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD21	3	0.26
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD22	3	0.26
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD23	3	0.26
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	6	0.26
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	6	0.26
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	6	0.26
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	4	0.26
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	4	0.26
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	4	0.26
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	12	0.26
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	12	0.26
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG11	3	0.25
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG12	3	0.25
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG13	3	0.25
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG21	3	0.25
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG22	3	0.25
(1,1763)	1:90:A:ASP:HB2	1:113:A:VAL:HG23	3	0.25
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG11	3	0.25
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG12	3	0.25
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG13	3	0.25
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG21	3	0.25
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG22	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1763)	1:90:A:ASP:HB3	1:113:A:VAL:HG23	3	0.25
(1,1571)	1:58:A:ARG:HA	1:83:A:LYS:HD2	12	0.25
(1,1571)	1:58:A:ARG:HA	1:83:A:LYS:HD3	12	0.25
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	7	0.25
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG21	7	0.25
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG22	7	0.25
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG23	7	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	2	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	2	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	2	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	11	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	11	0.25
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	11	0.25
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	6	0.25
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	6	0.25
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	6	0.25
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	7	0.25
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	7	0.25
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	7	0.25
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	13	0.25
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	1	0.24
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	6	0.24
(1,1262)	1:103:A:ALA:HB1	1:105:A:PHE:HD1	9	0.24
(1,1262)	1:103:A:ALA:HB2	1:105:A:PHE:HD1	9	0.24
(1,1262)	1:103:A:ALA:HB3	1:105:A:PHE:HD1	9	0.24
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB1	8	0.24
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB2	8	0.24
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB3	8	0.24
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG21	8	0.24
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG22	8	0.24
(1,1135)	1:114:A:THR:H	1:114:A:THR:HG23	8	0.24
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG21	1	0.24
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG22	1	0.24
(1,1087)	1:131:A:PHE:HD2	1:136:A:ILE:HG23	1	0.24
(1,1068)	1:68:A:TYR:HD2	1:125:A:ILE:HB	9	0.24
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	9	0.24
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	1	0.24
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	1	0.24
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	1	0.24
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	5	0.24
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	5	0.24
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	15	0.24
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	15	0.24
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	15	0.24
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	8	0.24
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	8	0.24
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	8	0.24
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD11	15	0.24
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD12	15	0.24
(1,816)	1:131:A:PHE:HE2	1:138:A:ILE:HD13	15	0.24
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	8	0.23
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	7	0.23
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	7	0.23
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	7	0.23
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	7	0.23
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	7	0.23
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	7	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD11	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD12	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD13	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD21	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD22	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD23	11	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD11	13	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD12	13	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD13	13	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD21	13	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD22	13	0.23
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD23	13	0.23
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	5	0.23
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	5	0.23
(1,1197)	1:97:A:ILE:HD11	1:137:A:LYS:HB3	3	0.23
(1,1197)	1:97:A:ILE:HD12	1:137:A:LYS:HB3	3	0.23
(1,1197)	1:97:A:ILE:HD13	1:137:A:LYS:HB3	3	0.23
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	10	0.23
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	15	0.23
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	15	0.23
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	15	0.23
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	3	0.23
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	3	0.23
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	3	0.23
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	14	0.23
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	14	0.23
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	8	0.23
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	8	0.23
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	6	0.22
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	7	0.22
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	2	0.22
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	2	0.22
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB1	14	0.22
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB2	14	0.22
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB3	14	0.22
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	2	0.22
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	2	0.22
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	2	0.22
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	3	0.22
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	11	0.21
(1,1493)	1:109:A:LYS:HD2	1:140:A:PHE:HE2	3	0.21
(1,1493)	1:109:A:LYS:HD3	1:140:A:PHE:HE2	3	0.21
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	2	0.21
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	14	0.21
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	15	0.21
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	10	0.21
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	10	0.21
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	10	0.21
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	15	0.21
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	16	0.21
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	10	0.21
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	4	0.2
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	15	0.2
(1,1827)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	8	0.2
(1,1827)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	8	0.2
(1,1827)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	8	0.2
(1,1827)	1:113:A:VAL:HG21	1:142:A:TYR:HD1	8	0.2
(1,1827)	1:113:A:VAL:HG22	1:142:A:TYR:HD1	8	0.2
(1,1827)	1:113:A:VAL:HG23	1:142:A:TYR:HD1	8	0.2
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	1	0.2
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	3	0.2
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	3	0.2
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	3	0.2
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	14	0.2
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	14	0.2
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	14	0.2
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	15	0.2
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	15	0.2
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	14	0.19
(1,1808)	1:101:A:SER:HB2	1:104:A:ASN:HD21	15	0.19
(1,1808)	1:101:A:SER:HB2	1:104:A:ASN:HD22	15	0.19
(1,1808)	1:101:A:SER:HB3	1:104:A:ASN:HD21	15	0.19
(1,1808)	1:101:A:SER:HB3	1:104:A:ASN:HD22	15	0.19
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	14	0.19
(1,1179)	1:86:A:VAL:HG11	1:117:A:GLN:HA	3	0.19
(1,1179)	1:86:A:VAL:HG12	1:117:A:GLN:HA	3	0.19
(1,1179)	1:86:A:VAL:HG13	1:117:A:GLN:HA	3	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	5	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	5	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	5	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	16	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	16	0.19
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	16	0.19
(1,922)	1:76:A:LEU:HD11	1:140:A:PHE:HE1	5	0.19
(1,922)	1:76:A:LEU:HD12	1:140:A:PHE:HE1	5	0.19
(1,922)	1:76:A:LEU:HD13	1:140:A:PHE:HE1	5	0.19
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	13	0.19
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	2	0.19
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	2	0.19
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	4	0.19
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	4	0.19
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	12	0.19
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	12	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	8	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	8	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	8	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	12	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	12	0.19
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	12	0.19
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	5	0.19
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	6	0.19
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	16	0.19
(1,1828)	1:113:A:VAL:HG11	1:142:A:TYR:HE1	15	0.18
(1,1828)	1:113:A:VAL:HG12	1:142:A:TYR:HE1	15	0.18
(1,1828)	1:113:A:VAL:HG13	1:142:A:TYR:HE1	15	0.18
(1,1828)	1:113:A:VAL:HG21	1:142:A:TYR:HE1	15	0.18
(1,1828)	1:113:A:VAL:HG22	1:142:A:TYR:HE1	15	0.18
(1,1828)	1:113:A:VAL:HG23	1:142:A:TYR:HE1	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB2	12	0.18
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB3	12	0.18
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB2	12	0.18
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB3	12	0.18
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	13	0.18
(1,1330)	1:83:A:LYS:HA	1:83:A:LYS:HD3	3	0.18
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	14	0.18
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	14	0.18
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	14	0.18
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE2	4	0.18
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE3	4	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE2	4	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE3	4	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE2	4	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE3	4	0.18
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE2	15	0.18
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE3	15	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE2	15	0.18
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE3	15	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE2	15	0.18
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE3	15	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	13	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	13	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	13	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	15	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	15	0.18
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	15	0.18
(1,980)	1:57:A:SER:HB2	1:58:A:ARG:HD2	8	0.18
(1,980)	1:57:A:SER:HB2	1:58:A:ARG:HD3	8	0.18
(1,980)	1:57:A:SER:HB3	1:58:A:ARG:HD2	8	0.18
(1,980)	1:57:A:SER:HB3	1:58:A:ARG:HD3	8	0.18
(1,899)	1:114:A:THR:H	1:121:A:ILE:HD11	11	0.18
(1,899)	1:114:A:THR:H	1:121:A:ILE:HD12	11	0.18
(1,899)	1:114:A:THR:H	1:121:A:ILE:HD13	11	0.18
(1,861)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	3	0.18
(1,861)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	3	0.18
(1,861)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	3	0.18
(1,823)	1:138:A:ILE:HG21	1:157:A:ILE:HG21	4	0.18
(1,823)	1:138:A:ILE:HG21	1:157:A:ILE:HG22	4	0.18
(1,823)	1:138:A:ILE:HG21	1:157:A:ILE:HG23	4	0.18
(1,823)	1:138:A:ILE:HG22	1:157:A:ILE:HG21	4	0.18
(1,823)	1:138:A:ILE:HG22	1:157:A:ILE:HG22	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:138:A:ILE:HG22	1:157:A:ILE:HG23	4	0.18
(1,823)	1:138:A:ILE:HG23	1:157:A:ILE:HG21	4	0.18
(1,823)	1:138:A:ILE:HG23	1:157:A:ILE:HG22	4	0.18
(1,823)	1:138:A:ILE:HG23	1:157:A:ILE:HG23	4	0.18
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	10	0.18
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	10	0.18
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	11	0.18
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	11	0.18
(1,296)	1:117:A:GLN:HA	1:117:A:GLN:HE22	1	0.18
(1,296)	1:117:A:GLN:HA	1:117:A:GLN:HE22	15	0.18
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	1	0.18
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	1	0.18
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	1	0.18
(1,235)	1:109:A:LYS:HG3	1:141:A:LYS:H	2	0.18
(1,201)	1:133:A:GLU:H	1:135:A:GLU:H	6	0.18
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	5	0.17
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	3	0.17
(1,1518)	1:68:A:TYR:HE1	1:124:A:ARG:HA	4	0.17
(1,1406)	1:135:A:GLU:HG2	1:136:A:ILE:H	6	0.17
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB1	1	0.17
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB2	1	0.17
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB3	1	0.17
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	14	0.17
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	14	0.17
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	14	0.17
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	13	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	3	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	3	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	3	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	9	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	9	0.17
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	9	0.17
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	1	0.17
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	7	0.17
(2,49)	1:142:A:TYR:O	1:152:A:ALA:H	2	0.16
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	5	0.16
(1,1515)	1:68:A:TYR:HD2	1:69:A:THR:H	15	0.16
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE2	8	0.16
(1,1290)	1:97:A:ILE:HD11	1:137:A:LYS:HE3	8	0.16
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE2	8	0.16
(1,1290)	1:97:A:ILE:HD12	1:137:A:LYS:HE3	8	0.16
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1290)	1:97:A:ILE:HD13	1:137:A:LYS:HE3	8	0.16
(1,1197)	1:97:A:ILE:HD11	1:137:A:LYS:HB3	4	0.16
(1,1197)	1:97:A:ILE:HD12	1:137:A:LYS:HB3	4	0.16
(1,1197)	1:97:A:ILE:HD13	1:137:A:LYS:HB3	4	0.16
(1,1166)	1:126:A:GLU:HG2	1:127:A:PRO:HD2	2	0.16
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	7	0.16
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	7	0.16
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	7	0.16
(1,1062)	1:75:A:ASN:HD22	1:122:A:VAL:HG21	11	0.16
(1,1062)	1:75:A:ASN:HD22	1:122:A:VAL:HG22	11	0.16
(1,1062)	1:75:A:ASN:HD22	1:122:A:VAL:HG23	11	0.16
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	5	0.16
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	5	0.16
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	5	0.16
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	2	0.16
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	9	0.16
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	12	0.16
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	6	0.16
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	6	0.16
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	6	0.16
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	5	0.16
(1,860)	1:61:A:LEU:HD21	1:78:A:ILE:HD11	3	0.16
(1,860)	1:61:A:LEU:HD21	1:78:A:ILE:HD12	3	0.16
(1,860)	1:61:A:LEU:HD21	1:78:A:ILE:HD13	3	0.16
(1,860)	1:61:A:LEU:HD22	1:78:A:ILE:HD11	3	0.16
(1,860)	1:61:A:LEU:HD22	1:78:A:ILE:HD12	3	0.16
(1,860)	1:61:A:LEU:HD22	1:78:A:ILE:HD13	3	0.16
(1,860)	1:61:A:LEU:HD23	1:78:A:ILE:HD11	3	0.16
(1,860)	1:61:A:LEU:HD23	1:78:A:ILE:HD12	3	0.16
(1,860)	1:61:A:LEU:HD23	1:78:A:ILE:HD13	3	0.16
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	2	0.16
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	2	0.16
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	2	0.16
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG21	5	0.16
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG22	5	0.16
(1,829)	1:131:A:PHE:HE2	1:138:A:ILE:HG23	5	0.16
(1,637)	1:124:A:ARG:HG3	1:125:A:ILE:H	1	0.16
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	1	0.16
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	1	0.16
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	6	0.16
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	6	0.16
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	10	0.16
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	10	0.16
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	4	0.16
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	8	0.16
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	9	0.15
(1,1745)	1:84:A:GLU:HB2	1:85:A:GLU:H	1	0.15
(1,1745)	1:84:A:GLU:HB3	1:85:A:GLU:H	1	0.15
(1,1745)	1:84:A:GLU:HB2	1:85:A:GLU:H	6	0.15
(1,1745)	1:84:A:GLU:HB3	1:85:A:GLU:H	6	0.15
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG21	4	0.15
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG22	4	0.15
(1,1175)	1:140:A:PHE:HD1	1:154:A:THR:HG23	4	0.15
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	10	0.15
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	10	0.15
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	10	0.15
(1,981)	1:57:A:SER:HA	1:58:A:ARG:HG2	9	0.15
(1,981)	1:57:A:SER:HA	1:58:A:ARG:HG3	9	0.15
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	3	0.15
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	11	0.15
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	11	0.15
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	11	0.15
(1,804)	1:70:A:LEU:HD11	1:131:A:PHE:HD1	14	0.15
(1,804)	1:70:A:LEU:HD12	1:131:A:PHE:HD1	14	0.15
(1,804)	1:70:A:LEU:HD13	1:131:A:PHE:HD1	14	0.15
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	11	0.15
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	11	0.15
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	11	0.15
(1,235)	1:109:A:LYS:HG3	1:141:A:LYS:H	10	0.15
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	12	0.14
(2,49)	1:142:A:TYR:O	1:152:A:ALA:H	4	0.14
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	10	0.14
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	16	0.14
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	3	0.14
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	3	0.14
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	3	0.14
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	3	0.14
(1,1746)	1:84:A:GLU:HG2	1:85:A:GLU:H	5	0.14
(1,1746)	1:84:A:GLU:HG3	1:85:A:GLU:H	5	0.14
(1,1615)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	8	0.14
(1,1615)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	8	0.14
(1,1615)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	8	0.14
(1,1615)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	8	0.14
(1,1615)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	8	0.14
(1,1516)	1:68:A:TYR:HE2	1:125:A:ILE:HB	12	0.14
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE1	13	0.14
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE2	13	0.14
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE3	13	0.14
(1,1307)	1:65:A:MET:HE1	1:68:A:TYR:HD1	5	0.14
(1,1307)	1:65:A:MET:HE2	1:68:A:TYR:HD1	5	0.14
(1,1307)	1:65:A:MET:HE3	1:68:A:TYR:HD1	5	0.14
(1,1276)	1:70:A:LEU:HD21	1:127:A:PRO:HG2	9	0.14
(1,1276)	1:70:A:LEU:HD22	1:127:A:PRO:HG2	9	0.14
(1,1276)	1:70:A:LEU:HD23	1:127:A:PRO:HG2	9	0.14
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB1	16	0.14
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB2	16	0.14
(1,1239)	1:61:A:LEU:HB3	1:63:A:ALA:HB3	16	0.14
(1,1166)	1:126:A:GLU:HG2	1:127:A:PRO:HD2	11	0.14
(1,1101)	1:136:A:ILE:H	1:158:A:THR:HG21	11	0.14
(1,1101)	1:136:A:ILE:H	1:158:A:THR:HG22	11	0.14
(1,1101)	1:136:A:ILE:H	1:158:A:THR:HG23	11	0.14
(1,1068)	1:68:A:TYR:HD2	1:125:A:ILE:HB	10	0.14
(1,994)	1:135:A:GLU:HB2	1:160:A:LYS:H	8	0.14
(1,994)	1:135:A:GLU:HB3	1:160:A:LYS:H	8	0.14
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	10	0.14
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	13	0.14
(1,959)	1:68:A:TYR:HD1	1:157:A:ILE:HG21	2	0.14
(1,959)	1:68:A:TYR:HD1	1:157:A:ILE:HG22	2	0.14
(1,959)	1:68:A:TYR:HD1	1:157:A:ILE:HG23	2	0.14
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	8	0.14
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	8	0.14
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	8	0.14
(1,858)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	9	0.14
(1,858)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	9	0.14
(1,858)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	9	0.14
(1,690)	1:97:A:ILE:HG12	1:137:A:LYS:H	16	0.14
(1,587)	1:117:A:GLN:H	1:117:A:GLN:HE21	15	0.14
(1,322)	1:68:A:TYR:HD1	1:72:A:GLN:HE22	16	0.14
(1,296)	1:117:A:GLN:HA	1:117:A:GLN:HE22	7	0.14
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	5	0.14
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	5	0.14
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	5	0.14
(1,235)	1:109:A:LYS:HG3	1:141:A:LYS:H	16	0.14
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:103:A:ALA:HA	1:105:A:PHE:H	12	0.14
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB1	14	0.14
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB2	14	0.14
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB3	14	0.14
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	2	0.13
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	8	0.13
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	11	0.13
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	15	0.13
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	2	0.13
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	9	0.13
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	9	0.13
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	9	0.13
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	9	0.13
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	12	0.13
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	12	0.13
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	12	0.13
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	12	0.13
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG2	11	0.13
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG3	11	0.13
(1,1330)	1:83:A:LYS:HA	1:83:A:LYS:HD3	8	0.13
(1,1320)	1:113:A:VAL:HG11	1:142:A:TYR:HD1	15	0.13
(1,1320)	1:113:A:VAL:HG12	1:142:A:TYR:HD1	15	0.13
(1,1320)	1:113:A:VAL:HG13	1:142:A:TYR:HD1	15	0.13
(1,1265)	1:117:A:GLN:HG3	1:118:A:LYS:H	12	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	4	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	4	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	4	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	9	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	9	0.13
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	9	0.13
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	4	0.13
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	4	0.13
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	4	0.13
(1,1039)	1:78:A:ILE:HG12	1:140:A:PHE:HE1	7	0.13
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	11	0.13
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	11	0.13
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	11	0.13
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	2	0.13
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG2	4	0.13
(1,338)	1:58:A:ARG:H	1:58:A:ARG:HG3	4	0.13
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	6	0.13
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	6	0.13
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD11	7	0.13
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD12	7	0.13
(1,273)	1:156:A:CYS:H	1:157:A:ILE:HD13	7	0.13
(1,235)	1:109:A:LYS:HG3	1:141:A:LYS:H	11	0.13
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG11	14	0.13
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG12	14	0.13
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG13	14	0.13
(2,56)	1:80:A:TRP:O	1:119:A:GLY:N	5	0.12
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	16	0.12
(2,50)	1:142:A:TYR:O	1:152:A:ALA:N	2	0.12
(2,49)	1:142:A:TYR:O	1:152:A:ALA:H	8	0.12
(2,49)	1:142:A:TYR:O	1:152:A:ALA:H	13	0.12
(2,33)	1:94:A:LEU:O	1:107:A:ASP:H	12	0.12
(1,1913)	1:144:A:HIS:HB2	1:149:A:ALA:H	13	0.12
(1,1913)	1:144:A:HIS:HB3	1:149:A:ALA:H	13	0.12
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	6	0.12
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	6	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	6	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	6	0.12
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	8	0.12
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	8	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	8	0.12
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	8	0.12
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG2	1	0.12
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG3	1	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD11	15	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD12	15	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD13	15	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD21	15	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD22	15	0.12
(1,1650)	1:68:A:TYR:HE1	1:76:A:LEU:HD23	15	0.12
(1,1615)	1:61:A:LEU:HD11	1:142:A:TYR:HD1	5	0.12
(1,1615)	1:61:A:LEU:HD12	1:142:A:TYR:HD1	5	0.12
(1,1615)	1:61:A:LEU:HD13	1:142:A:TYR:HD1	5	0.12
(1,1615)	1:61:A:LEU:HD21	1:142:A:TYR:HD1	5	0.12
(1,1615)	1:61:A:LEU:HD22	1:142:A:TYR:HD1	5	0.12
(1,1615)	1:61:A:LEU:HD23	1:142:A:TYR:HD1	5	0.12
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE1	8	0.12
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE2	8	0.12
(1,1319)	1:132:A:MET:H	1:132:A:MET:HE3	8	0.12
(1,1254)	1:83:A:LYS:HA	1:117:A:GLN:HE21	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1254)	1:83:A:LYS:HA	1:117:A:GLN:HE21	16	0.12
(1,1166)	1:126:A:GLU:HG2	1:127:A:PRO:HD2	4	0.12
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	8	0.12
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	8	0.12
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	8	0.12
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD11	1	0.12
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD12	1	0.12
(1,923)	1:68:A:TYR:HD1	1:76:A:LEU:HD13	1	0.12
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	1	0.12
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	11	0.12
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	3	0.12
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	3	0.12
(1,274)	1:97:A:ILE:HG13	1:156:A:CYS:H	16	0.12
(1,221)	1:140:A:PHE:H	1:140:A:PHE:HD1	7	0.12
(1,217)	1:97:A:ILE:HG12	1:138:A:ILE:H	14	0.12
(1,151)	1:150:A:LEU:HD21	1:153:A:THR:H	15	0.12
(1,151)	1:150:A:LEU:HD22	1:153:A:THR:H	15	0.12
(1,151)	1:150:A:LEU:HD23	1:153:A:THR:H	15	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG11	3	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG12	3	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG13	3	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG11	13	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG12	13	0.12
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG13	13	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB1	2	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB2	2	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB3	2	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB1	5	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB2	5	0.12
(1,13)	1:62:A:THR:H	1:63:A:ALA:HB3	5	0.12
(2,50)	1:142:A:TYR:O	1:152:A:ALA:N	4	0.11
(2,21)	1:157:A:ILE:O	1:138:A:ILE:H	14	0.11
(2,3)	1:78:A:ILE:O	1:121:A:ILE:H	11	0.11
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	5	0.11
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	5	0.11
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	5	0.11
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	5	0.11
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD2	7	0.11
(1,1896)	1:137:A:LYS:HB2	1:137:A:LYS:HD3	7	0.11
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD2	7	0.11
(1,1896)	1:137:A:LYS:HB3	1:137:A:LYS:HD3	7	0.11
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB2	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1807)	1:101:A:SER:HB2	1:104:A:ASN:HB3	9	0.11
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB2	9	0.11
(1,1807)	1:101:A:SER:HB3	1:104:A:ASN:HB3	9	0.11
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG2	7	0.11
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG3	7	0.11
(1,1784)	1:94:A:LEU:HD11	1:96:A:HIS:HD2	9	0.11
(1,1784)	1:94:A:LEU:HD12	1:96:A:HIS:HD2	9	0.11
(1,1784)	1:94:A:LEU:HD13	1:96:A:HIS:HD2	9	0.11
(1,1784)	1:94:A:LEU:HD21	1:96:A:HIS:HD2	9	0.11
(1,1784)	1:94:A:LEU:HD22	1:96:A:HIS:HD2	9	0.11
(1,1784)	1:94:A:LEU:HD23	1:96:A:HIS:HD2	9	0.11
(1,1544)	1:131:A:PHE:HA	1:136:A:ILE:HG12	5	0.11
(1,1544)	1:131:A:PHE:HA	1:136:A:ILE:HG13	5	0.11
(1,1371)	1:121:A:ILE:HG13	1:122:A:VAL:H	16	0.11
(1,1276)	1:70:A:LEU:HD21	1:127:A:PRO:HG2	3	0.11
(1,1276)	1:70:A:LEU:HD22	1:127:A:PRO:HG2	3	0.11
(1,1276)	1:70:A:LEU:HD23	1:127:A:PRO:HG2	3	0.11
(1,1254)	1:83:A:LYS:HA	1:117:A:GLN:HE21	12	0.11
(1,1137)	1:136:A:ILE:HG12	1:160:A:LYS:HA	7	0.11
(1,1137)	1:136:A:ILE:HG13	1:160:A:LYS:HA	7	0.11
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	3	0.11
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	3	0.11
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	3	0.11
(1,1047)	1:78:A:ILE:HG21	1:140:A:PHE:HE1	14	0.11
(1,1047)	1:78:A:ILE:HG22	1:140:A:PHE:HE1	14	0.11
(1,1047)	1:78:A:ILE:HG23	1:140:A:PHE:HE1	14	0.11
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	1	0.11
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	3	0.11
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	4	0.11
(1,968)	1:93:A:GLY:H	1:94:A:LEU:HA	7	0.11
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD11	12	0.11
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD12	12	0.11
(1,915)	1:131:A:PHE:HD2	1:136:A:ILE:HD13	12	0.11
(1,888)	1:103:A:ALA:HA	1:105:A:PHE:HD1	12	0.11
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	5	0.11
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	5	0.11
(1,683)	1:135:A:GLU:HG3	1:136:A:ILE:H	1	0.11
(1,587)	1:117:A:GLN:H	1:117:A:GLN:HE21	1	0.11
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	1	0.11
(1,333)	1:109:A:LYS:H	1:140:A:PHE:HE2	12	0.11
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	8	0.11
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:69:A:THR:HG21	1:161:A:ASN:H	14	0.11
(1,289)	1:69:A:THR:HG22	1:161:A:ASN:H	14	0.11
(1,289)	1:69:A:THR:HG23	1:161:A:ASN:H	14	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG21	6	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG22	6	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG23	6	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG21	10	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG22	10	0.11
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG23	10	0.11
(1,151)	1:150:A:LEU:HD21	1:153:A:THR:H	1	0.11
(1,151)	1:150:A:LEU:HD22	1:153:A:THR:H	1	0.11
(1,151)	1:150:A:LEU:HD23	1:153:A:THR:H	1	0.11
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG11	15	0.11
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG12	15	0.11
(1,69)	1:76:A:LEU:H	1:122:A:VAL:HG13	15	0.11
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	4	0.1
(2,55)	1:80:A:TRP:O	1:119:A:GLY:H	14	0.1
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG2	6	0.1
(1,1801)	1:97:A:ILE:HG12	1:137:A:LYS:HG3	6	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG11	1	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG12	1	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG13	1	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG21	1	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG22	1	0.1
(1,1760)	1:90:A:ASP:H	1:113:A:VAL:HG23	1	0.1
(1,1371)	1:121:A:ILE:HG13	1:122:A:VAL:H	5	0.1
(1,1111)	1:77:A:ILE:HD11	1:121:A:ILE:H	13	0.1
(1,1111)	1:77:A:ILE:HD12	1:121:A:ILE:H	13	0.1
(1,1111)	1:77:A:ILE:HD13	1:121:A:ILE:H	13	0.1
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG21	1	0.1
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG22	1	0.1
(1,1064)	1:76:A:LEU:HB3	1:122:A:VAL:HG23	1	0.1
(1,947)	1:138:A:ILE:H	1:157:A:ILE:HD11	7	0.1
(1,947)	1:138:A:ILE:H	1:157:A:ILE:HD12	7	0.1
(1,947)	1:138:A:ILE:H	1:157:A:ILE:HD13	7	0.1
(1,900)	1:109:A:LYS:HE2	1:121:A:ILE:HD11	10	0.1
(1,900)	1:109:A:LYS:HE2	1:121:A:ILE:HD12	10	0.1
(1,900)	1:109:A:LYS:HE2	1:121:A:ILE:HD13	10	0.1
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	7	0.1
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	7	0.1
(1,773)	1:160:A:LYS:HD2	1:161:A:ASN:H	13	0.1
(1,773)	1:160:A:LYS:HD3	1:161:A:ASN:H	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	3	0.1
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	12	0.1
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	13	0.1
(1,299)	1:117:A:GLN:HB2	1:117:A:GLN:HE22	14	0.1
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG21	11	0.1
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG22	11	0.1
(1,231)	1:141:A:LYS:H	1:154:A:THR:HG23	11	0.1
(1,156)	1:80:A:TRP:HZ2	1:116:A:THR:H	3	0.1

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

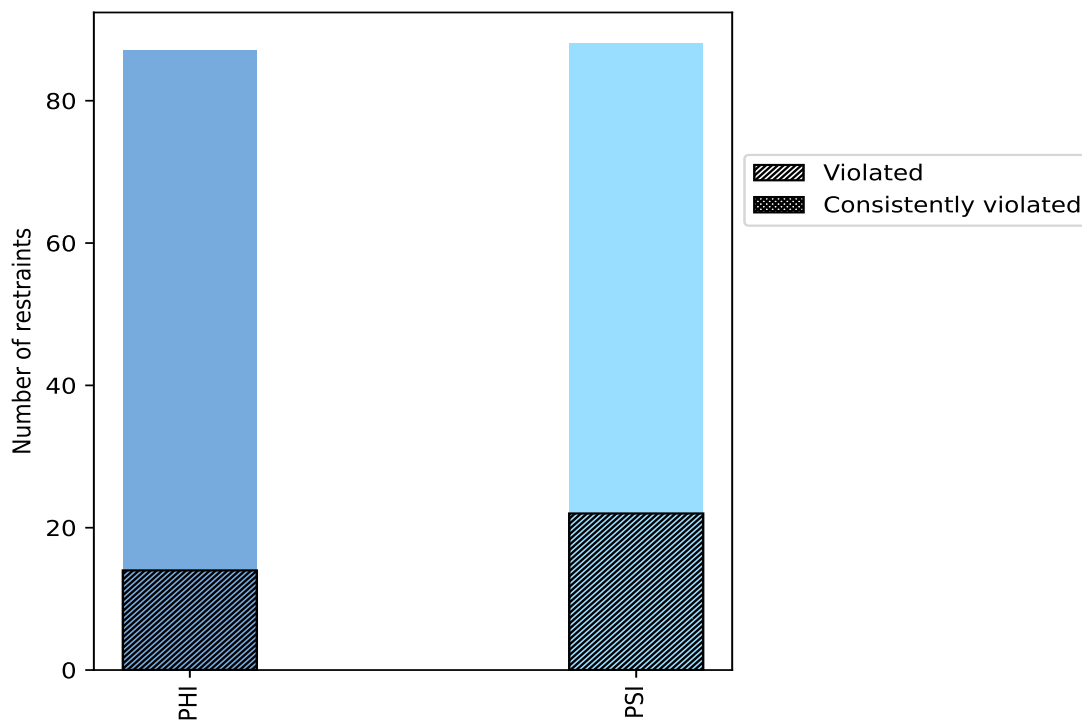
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	87	49.7	14	16.1	8.0	0	0.0	0.0
PSI	88	50.3	22	25.0	12.6	0	0.0	0.0
Total	175	100.0	36	20.6	20.6	0	0.0	0.0

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

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



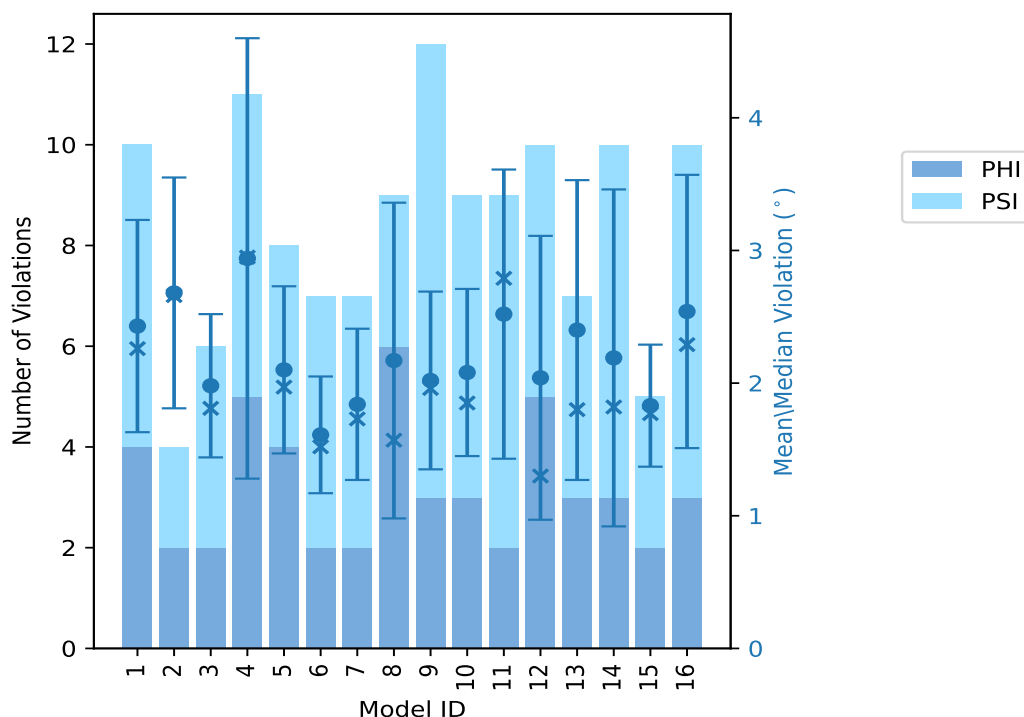
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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	4	6	10	2.43	3.87	0.8	2.26
2	2	2	4	2.68	3.73	0.87	2.66
3	2	4	6	1.98	2.74	0.54	1.81
4	5	6	11	2.94	7.34	1.66	2.95
5	4	4	8	2.1	2.99	0.63	1.97
6	2	5	7	1.61	2.21	0.44	1.52
7	2	5	7	1.84	2.84	0.57	1.73
8	6	3	9	2.17	4.23	1.19	1.57
9	3	9	12	2.02	3.2	0.67	1.96
10	3	6	9	2.08	3.01	0.63	1.85
11	2	7	9	2.52	3.99	1.09	2.79
12	5	5	10	2.04	3.82	1.07	1.3
13	3	4	7	2.4	4.47	1.13	1.8
14	3	7	10	2.19	5.3	1.27	1.82
15	2	3	5	1.83	2.58	0.46	1.77
16	3	7	10	2.54	4.88	1.03	2.29

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	%
6	7	13	1	6.2
2	3	5	2	12.5
1	2	3	3	18.8
2	0	2	4	25.0
0	4	4	5	31.2
0	4	4	6	37.5
1	0	1	7	43.8
0	0	0	8	50.0
1	1	2	9	56.2
0	0	0	10	62.5
0	1	1	11	68.8

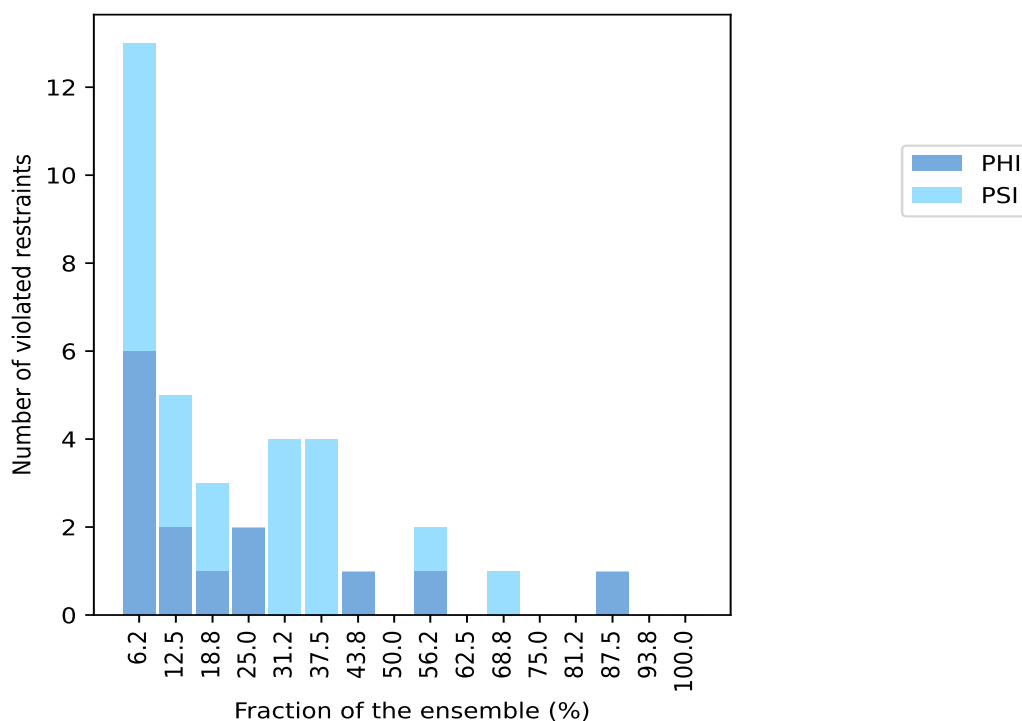
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
0	0	0	12	75.0
0	0	0	13	81.2
1	0	1	14	87.5
0	0	0	15	93.8
0	0	0	16	100.0

¹ Number of models with violations

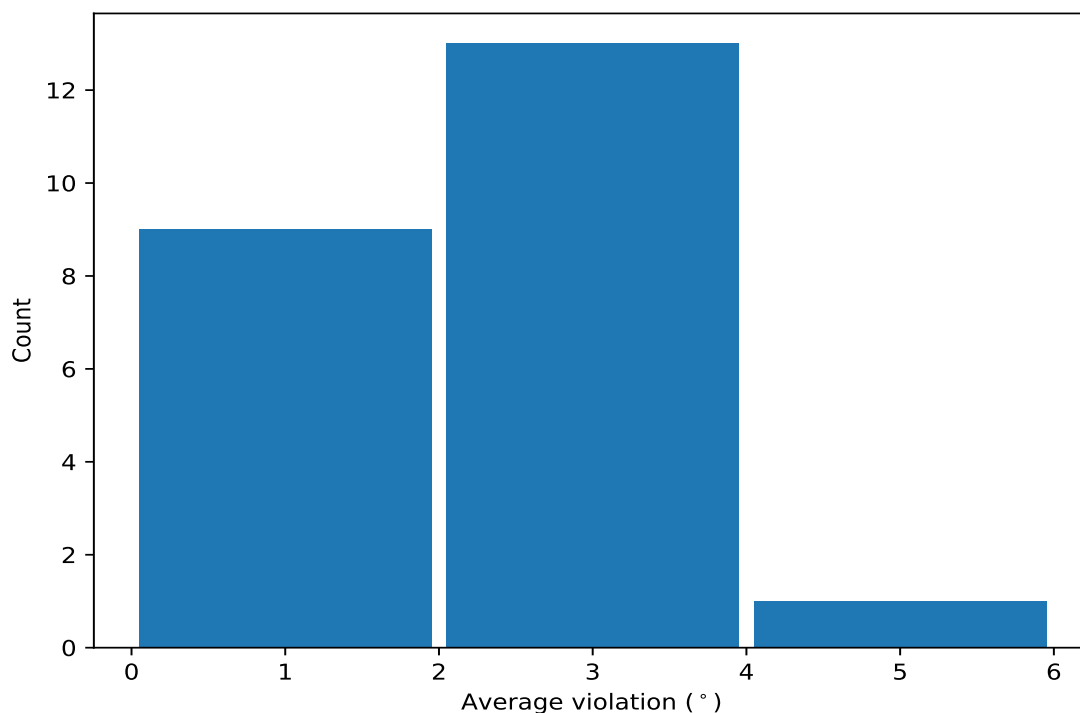
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	14	2.59	0.9	2.9
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	11	2.14	0.78	2.15
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	9	2.52	1.23	2.09
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	9	2.11	0.6	2.2
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	7	1.99	0.85	1.7
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	6	2.86	0.82	2.82
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	6	2.65	0.88	2.46
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	6	2.33	1.21	1.81
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	6	1.58	0.42	1.56
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	5	2.67	1.1	2.75
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	5	2.46	0.6	2.74
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	5	2.09	0.47	1.95
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	5	1.94	0.7	1.77
(1,68)	1:99:A:GLU:C	1:100:A:ASN:N	1:100:A:ASN:CA	1:100:A:ASN:C	4	2.64	0.95	2.64
(1,54)	1:91:A:TRP:C	1:92:A:ILE:N	1:92:A:ILE:CA	1:92:A:ILE:C	4	1.32	0.18	1.32
(1,3)	1:58:A:ARG:N	1:58:A:ARG:CA	1:58:A:ARG:C	1:59:A:SER:N	3	4.23	2.2	2.79
(1,81)	1:107:A:ASP:N	1:107:A:ASP:CA	1:107:A:ASP:C	1:108:A:SER:N	3	2.99	1.72	2.47
(1,40)	1:80:A:TRP:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	3	2.28	0.88	2.68
(1,131)	1:136:A:ILE:N	1:136:A:ILE:CA	1:136:A:ILE:C	1:137:A:LYS:N	2	1.7	0.38	1.7
(1,137)	1:139:A:CYS:N	1:139:A:CYS:CA	1:139:A:CYS:C	1:140:A:PHE:N	2	1.3	0.21	1.3
(1,25)	1:71:A:GLY:N	1:71:A:GLY:CA	1:71:A:GLY:C	1:72:A:GLN:N	2	1.27	0.08	1.27

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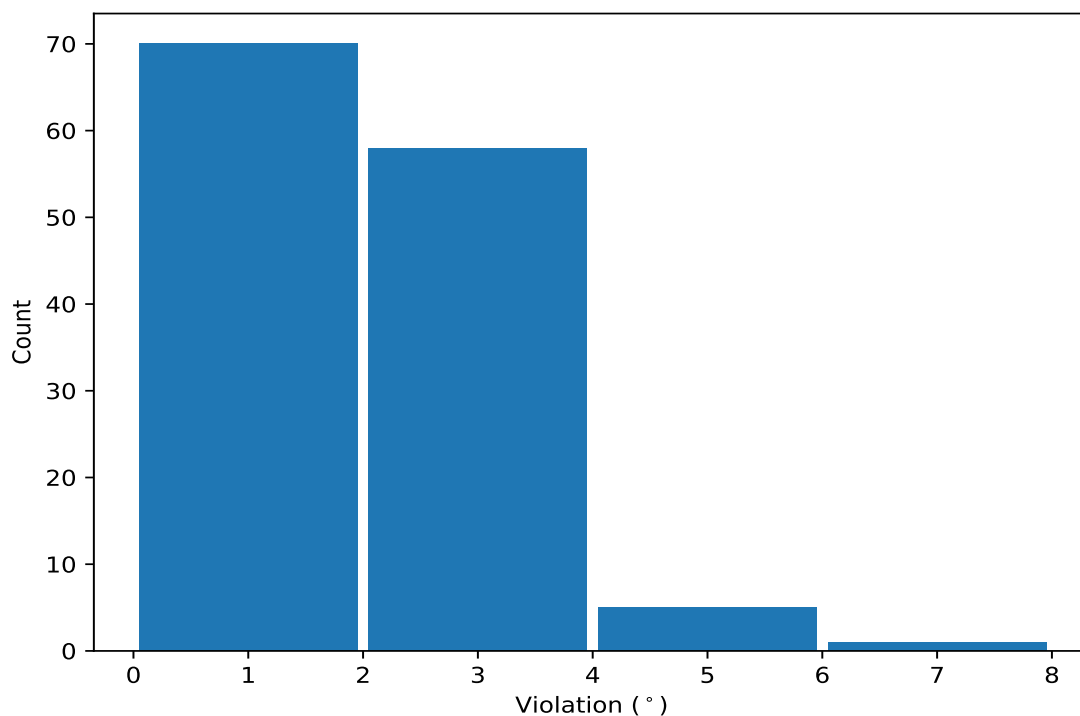
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,46)	1:85:A:GLU:C	1:86:A:VAL:N	1:86:A:VAL:CA	1:86:A:VAL:C	2	1.19	0.04	1.19
(1,102)	1:118:A:LYS:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	2	1.14	0.01	1.14

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 (°)
(1,3)	1:58:A:ARG:N	1:58:A:ARG:CA	1:58:A:ARG:C	1:59:A:SER:N	4	7.34
(1,81)	1:107:A:ASP:N	1:107:A:ASP:CA	1:107:A:ASP:C	1:108:A:SER:N	14	5.3
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	16	4.88
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	13	4.47
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	4	4.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	8	4.23
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	11	3.99
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	1	3.87
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	12	3.82
(1,68)	1:99:A:GLU:C	1:100:A:ASN:N	1:100:A:ASN:CA	1:100:A:ASN:C	16	3.74
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	2	3.73
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	11	3.69
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	8	3.65
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	4	3.52
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	13	3.43
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	8	3.41
(1,68)	1:99:A:GLU:C	1:100:A:ASN:N	1:100:A:ASN:CA	1:100:A:ASN:C	12	3.41
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	11	3.39
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	14	3.39
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	2	3.36
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	11	3.34
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	1	3.29
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	1	3.25
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	12	3.2
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	9	3.2
(1,40)	1:80:A:TRP:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	4	3.11
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	10	3.01
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	5	2.99
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	4	2.96
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	4	2.95
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	9	2.92
(1,2)	1:57:A:SER:C	1:58:A:ARG:N	1:58:A:ARG:CA	1:58:A:ARG:C	5	2.9
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	10	2.85
(1,172)	1:143:A:TYR:C	1:144:A:HIS:N	1:144:A:HIS:CA	1:144:A:HIS:C	12	2.84
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	7	2.84
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	10	2.83
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	13	2.81
(1,3)	1:58:A:ARG:N	1:58:A:ARG:CA	1:58:A:ARG:C	1:59:A:SER:N	11	2.79
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	14	2.75
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	16	2.75
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	3	2.74
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	16	2.73
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	16	2.7
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	9	2.68
(1,40)	1:80:A:TRP:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1	2.68
(1,26)	1:72:A:GLN:C	1:73:A:ALA:N	1:73:A:ALA:CA	1:73:A:ALA:C	3	2.67
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	15	2.58
(1,3)	1:58:A:ARG:N	1:58:A:ARG:CA	1:58:A:ARG:C	1:59:A:SER:N	5	2.56
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	7	2.49
(1,81)	1:107:A:ASP:N	1:107:A:ASP:CA	1:107:A:ASP:C	1:108:A:SER:N	9	2.47
(1,9)	1:61:A:LEU:N	1:61:A:LEU:CA	1:61:A:LEU:C	1:62:A:THR:N	1	2.38
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	5	2.36
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	9	2.34
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	10	2.25
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	6	2.21
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	8	2.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	9	2.19
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	14	2.19
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	4	2.15
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	1	2.13
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	1	2.09
(1,131)	1:136:A:ILE:N	1:136:A:ILE:CA	1:136:A:ILE:C	1:137:A:LYS:N	6	2.08
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	14	2.07
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	15	2.03
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	6	1.99
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	1	1.95
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	2	1.95
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	4	1.94
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	7	1.89
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	16	1.88
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	3	1.87
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	16	1.86
(1,68)	1:99:A:GLU:C	1:100:A:ASN:N	1:100:A:ASN:CA	1:100:A:ASN:C	11	1.86
(1,11)	1:62:A:THR:N	1:62:A:THR:CA	1:62:A:THR:C	1:63:A:ALA:N	16	1.85
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	10	1.85
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	13	1.8
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	15	1.77
(1,57)	1:93:A:GLY:N	1:93:A:GLY:CA	1:93:A:GLY:C	1:94:A:LEU:N	3	1.75
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	13	1.73
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	7	1.73
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	9	1.73
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	2	1.7
(1,62)	1:95:A:TYR:C	1:96:A:HIS:N	1:96:A:HIS:CA	1:96:A:HIS:C	10	1.67
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	16	1.64
(1,115)	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	1:126:A:GLU:N	10	1.59
(1,54)	1:91:A:TRP:C	1:92:A:ILE:N	1:92:A:ILE:CA	1:92:A:ILE:C	5	1.58
(1,41)	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1:82:A:ILE:N	14	1.58
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	8	1.57
(1,68)	1:99:A:GLU:C	1:100:A:ASN:N	1:100:A:ASN:CA	1:100:A:ASN:C	1	1.56
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	5	1.55
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	9	1.54
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	6	1.52
(1,87)	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	1:111:A:ARG:N	15	1.52
(1,137)	1:139:A:CYS:N	1:139:A:CYS:CA	1:139:A:CYS:C	1:140:A:PHE:N	3	1.51
(1,19)	1:68:A:TYR:N	1:68:A:TYR:CA	1:68:A:TYR:C	1:69:A:THR:N	10	1.51
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	5	1.5
(1,85)	1:109:A:LYS:N	1:109:A:LYS:CA	1:109:A:LYS:C	1:110:A:ASN:N	4	1.48
(1,5)	1:59:A:SER:N	1:59:A:SER:CA	1:59:A:SER:C	1:60:A:SER:N	9	1.47
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	12	1.42
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	13	1.39
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	7	1.37
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	11	1.35
(1,121)	1:130:A:TYR:N	1:130:A:TYR:CA	1:130:A:TYR:C	1:131:A:PHE:N	16	1.34
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	5	1.34
(1,25)	1:71:A:GLY:N	1:71:A:GLY:CA	1:71:A:GLY:C	1:72:A:GLN:N	9	1.34
(1,131)	1:136:A:ILE:N	1:136:A:ILE:CA	1:136:A:ILE:C	1:137:A:LYS:N	4	1.33
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	3	1.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,54)	1:91:A:TRP:C	1:92:A:ILE:N	1:92:A:ILE:CA	1:92:A:ILE:C	4	1.33
(1,129)	1:135:A:GLU:N	1:135:A:GLU:CA	1:135:A:GLU:C	1:136:A:ILE:N	14	1.3
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	9	1.3
(1,54)	1:91:A:TRP:C	1:92:A:ILE:N	1:92:A:ILE:CA	1:92:A:ILE:C	7	1.3
(1,24)	1:70:A:LEU:C	1:71:A:GLY:N	1:71:A:GLY:CA	1:71:A:GLY:C	8	1.29
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	7	1.28
(1,114)	1:124:A:ARG:C	1:125:A:ILE:N	1:125:A:ILE:CA	1:125:A:ILE:C	15	1.25
(1,65)	1:97:A:ILE:N	1:97:A:ILE:CA	1:97:A:ILE:C	1:98:A:ASP:N	6	1.24
(1,46)	1:85:A:GLU:C	1:86:A:VAL:N	1:86:A:VAL:CA	1:86:A:VAL:C	14	1.23
(1,149)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:LEU:N	11	1.21
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	10	1.2
(1,81)	1:107:A:ASP:N	1:107:A:ASP:CA	1:107:A:ASP:C	1:108:A:SER:N	12	1.19
(1,25)	1:71:A:GLY:N	1:71:A:GLY:CA	1:71:A:GLY:C	1:72:A:GLN:N	12	1.19
(1,102)	1:118:A:LYS:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	13	1.15
(1,46)	1:85:A:GLU:C	1:86:A:VAL:N	1:86:A:VAL:CA	1:86:A:VAL:C	1	1.15
(1,51)	1:89:A:SER:N	1:89:A:SER:CA	1:89:A:SER:C	1:90:A:ASP:N	6	1.14
(1,162)	1:156:A:CYS:C	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	12	1.13
(1,102)	1:118:A:LYS:C	1:119:A:GLY:N	1:119:A:GLY:CA	1:119:A:GLY:C	9	1.12
(1,67)	1:99:A:GLU:N	1:99:A:GLU:CA	1:99:A:GLU:C	1:100:A:ASN:N	6	1.12
(1,148)	1:148:A:GLY:C	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	8	1.11
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	12	1.1
(1,137)	1:139:A:CYS:N	1:139:A:CYS:CA	1:139:A:CYS:C	1:140:A:PHE:N	12	1.08
(1,133)	1:137:A:LYS:N	1:137:A:LYS:CA	1:137:A:LYS:C	1:138:A:ILE:N	11	1.07
(1,54)	1:91:A:TRP:C	1:92:A:ILE:N	1:92:A:ILE:CA	1:92:A:ILE:C	14	1.07
(1,40)	1:80:A:TRP:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	8	1.06
(1,123)	1:131:A:PHE:N	1:131:A:PHE:CA	1:131:A:PHE:C	1:132:A:MET:N	14	1.05
(1,86)	1:109:A:LYS:C	1:110:A:ASN:N	1:110:A:ASN:CA	1:110:A:ASN:C	8	1.05