



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 05:51 PM UTC

PDB ID : 2LV1 / pdb_00002lv1
BMRB ID : 18550
Title : Solution-state NMR structure of prion protein mutant V210I at neutral pH
Authors : Biljan, I.; Ilc, G.; Giachin, G.; Legname, G.; Plavec, J.
Deposited on : 2012-06-26

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

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

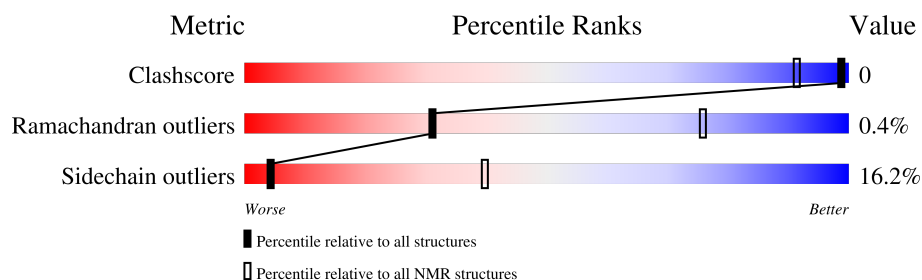
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 83%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	147	48% 9% 43%

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *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:128-A:163, A:173-A:220 (84)	0.31	11

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

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

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

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2254 atoms, of which 1091 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Major prion protein.

Mol	Chain	Residues	Atoms						Trace
1	A	147	Total	C	H	N	O	S	0
			2254	715	1091	209	227	12	

There are 6 discrepancies between the modelled and reference sequences:

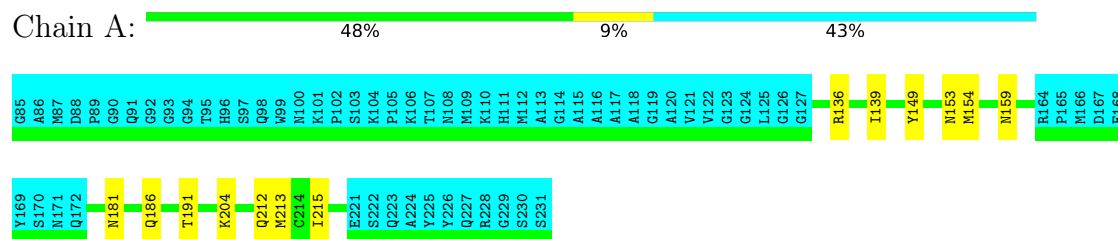
Chain	Residue	Modelled	Actual	Comment	Reference
A	85	GLY	-	expression tag	UNP P04156
A	86	ALA	-	expression tag	UNP P04156
A	87	MET	-	expression tag	UNP P04156
A	88	ASP	-	expression tag	UNP P04156
A	89	PRO	-	expression tag	UNP P04156
A	210	ILE	VAL	engineered mutation	UNP P04156

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: Major prion protein

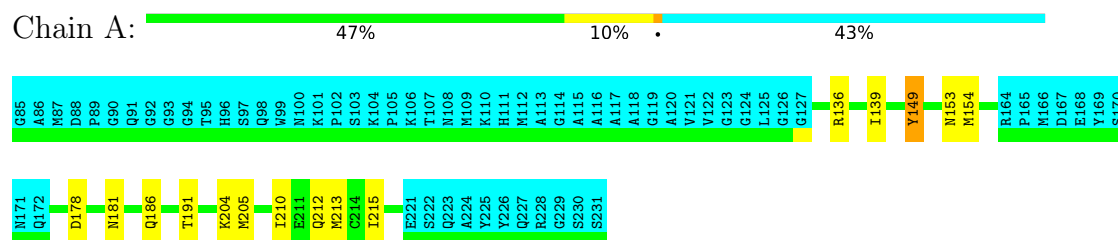


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

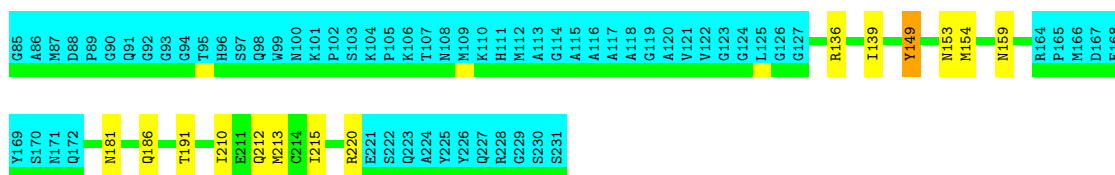
- Molecule 1: Major prion protein



4.2.2 Score per residue for model 2

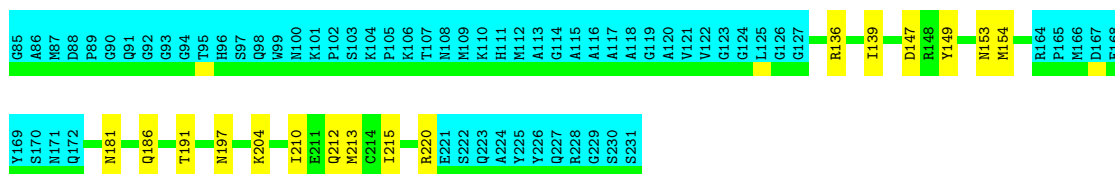
- Molecule 1: Major prion protein





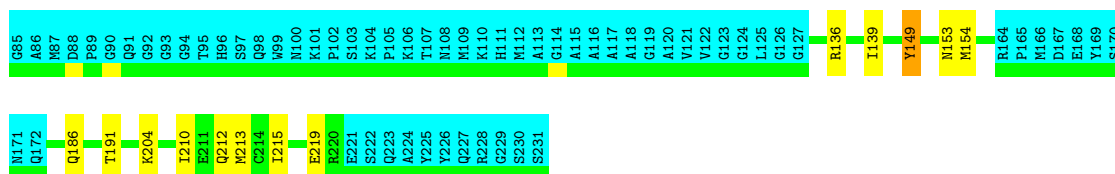
4.2.3 Score per residue for model 3

- Molecule 1: Major prion protein



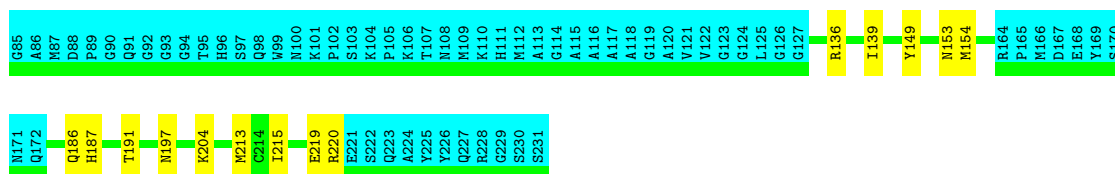
4.2.4 Score per residue for model 4

- Molecule 1: Major prion protein



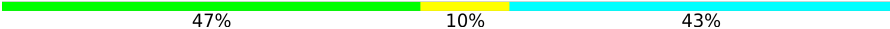
4.2.5 Score per residue for model 5

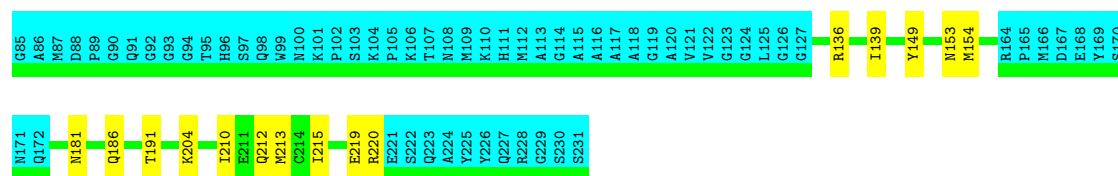
- Molecule 1: Major prion protein



4.2.6 Score per residue for model 6

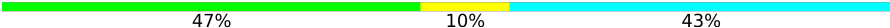
- Molecule 1: Major prion protein

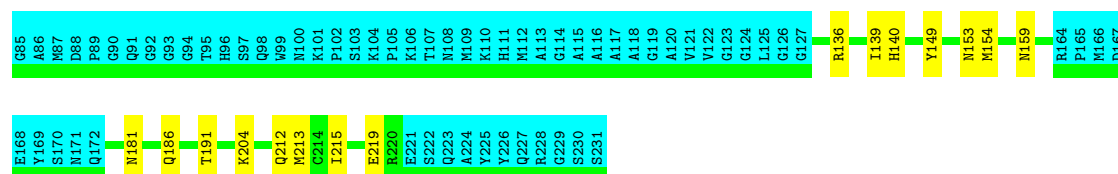
Chain A: 



4.2.7 Score per residue for model 7

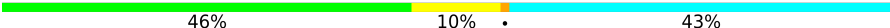
- Molecule 1: Major prion protein

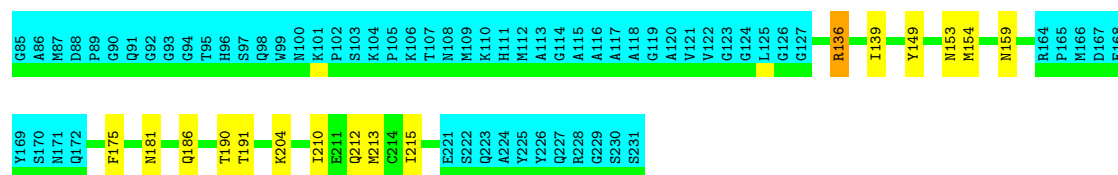
Chain A: 



4.2.8 Score per residue for model 8

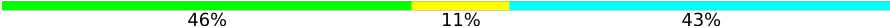
- Molecule 1: Major prion protein

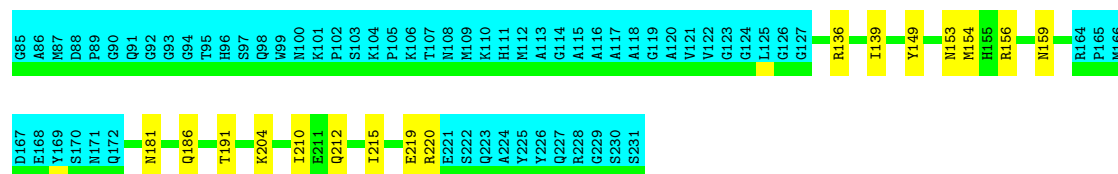
Chain A: 



4.2.9 Score per residue for model 9

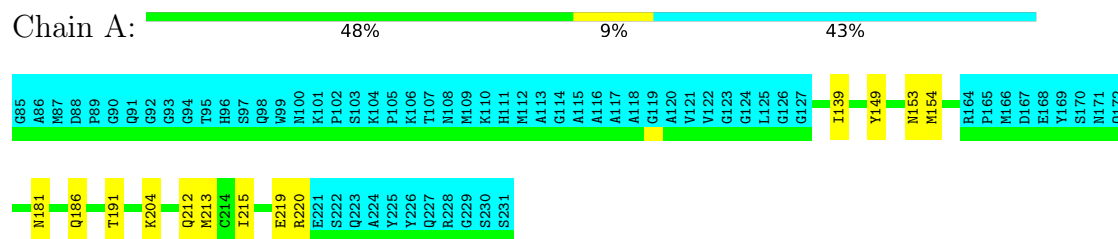
- Molecule 1: Major prion protein

Chain A: 



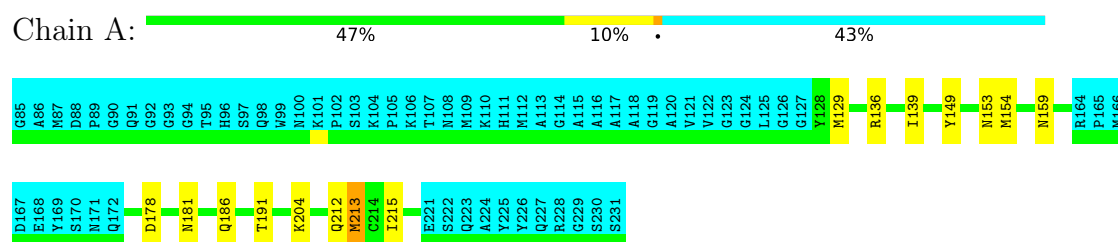
4.2.10 Score per residue for model 10

- Molecule 1: Major prion protein



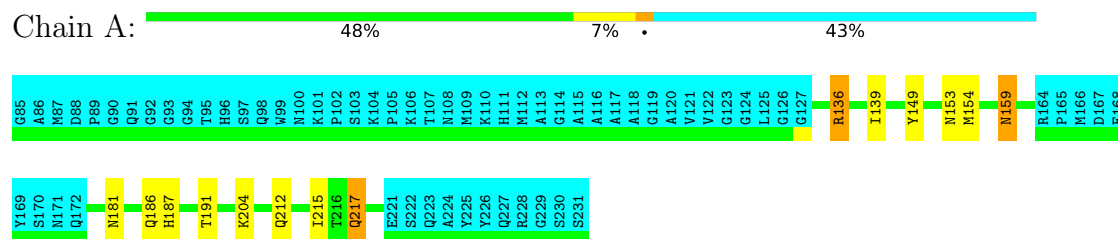
4.2.11 Score per residue for model 11 (medoid)

- Molecule 1: Major prion protein



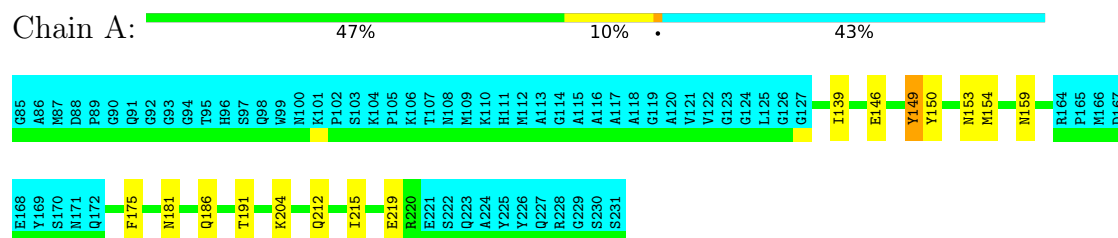
4.2.12 Score per residue for model 12

- Molecule 1: Major prion protein



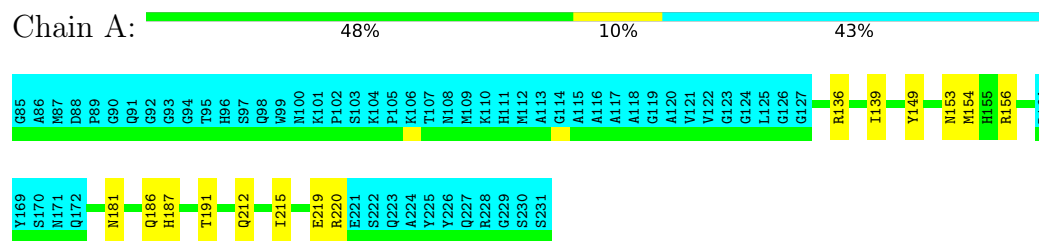
4.2.13 Score per residue for model 13

- Molecule 1: Major prion protein



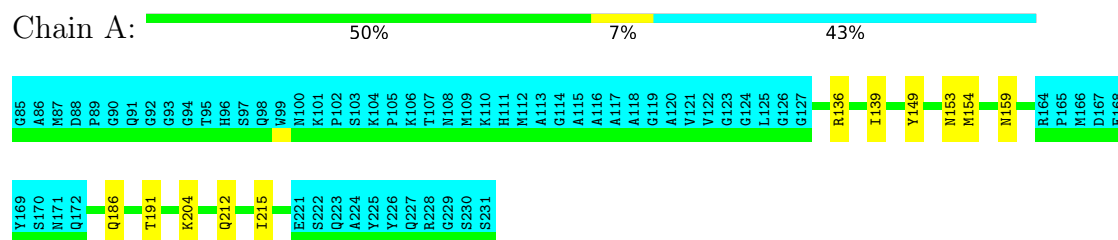
4.2.14 Score per residue for model 14

- Molecule 1: Major prion protein



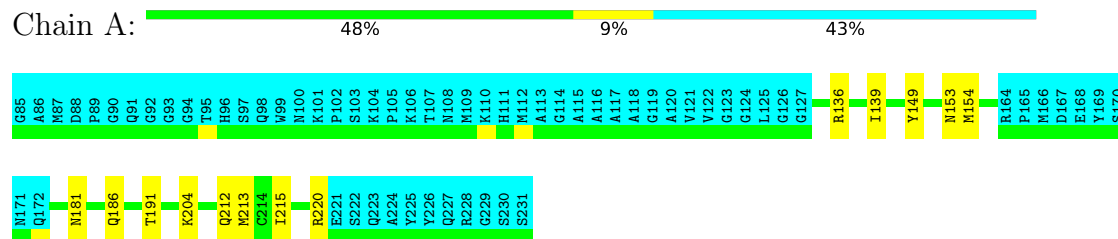
4.2.15 Score per residue for model 15

- Molecule 1: Major prion protein



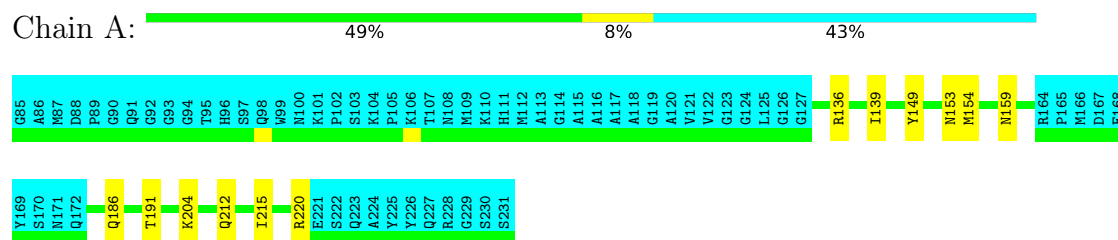
4.2.16 Score per residue for model 16

- Molecule 1: Major prion protein



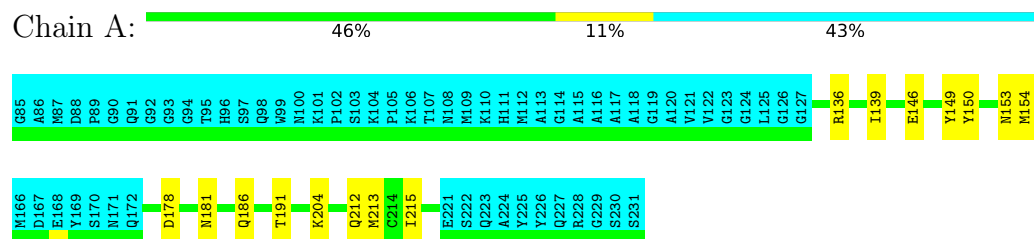
4.2.17 Score per residue for model 17

- Molecule 1: Major prion protein



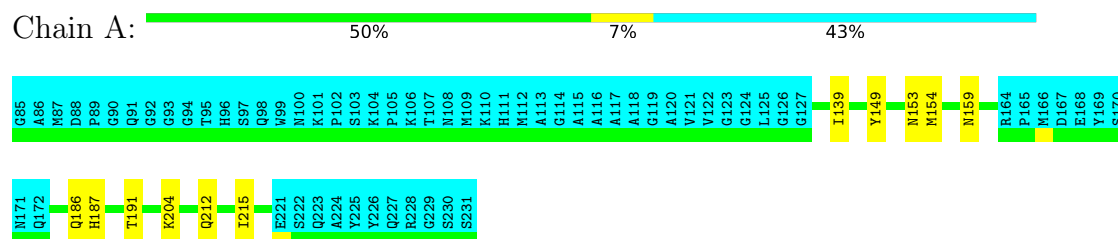
4.2.18 Score per residue for model 18

- Molecule 1: Major prion protein



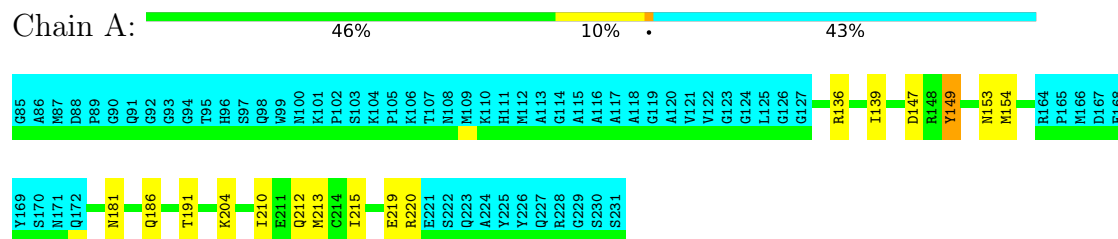
4.2.19 Score per residue for model 19

- Molecule 1: Major prion protein



4.2.20 Score per residue for model 20

- Molecule 1: Major prion protein



5 Refinement protocol and experimental data overview

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

Of the 20 calculated structures, 20 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	3.0
YASARA	geometry optimization	
YASARA	refinement	
CYANA	refinement	3.0

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	1507
Number of shifts mapped to atoms	1507
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	83%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.83±0.02	0±0/728 (0.0± 0.1%)	0.91±0.03	2±1/984 (0.2± 0.1%)
All	All	0.83	4/14560 (0.0%)	0.91	35/19680 (0.2%)

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	213	MET	SD-CE	-5.90	1.64	1.79	11	3
1	A	205	MET	SD-CE	-5.36	1.66	1.79	1	1

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	136	ARG	CA-C-N	-7.84	111.92	119.76	9	17
1	A	136	ARG	C-N-CA	-7.84	111.92	119.76	9	17
1	A	159	ASN	N-CA-C	-5.01	107.56	113.97	12	1

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	711	669	669	0±0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
All	All	14220	13380	13380	3

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:217:GLN:HE21	1:A:217:GLN:HA	0.47	1.69	12	1
1:A:146:GLU:HA	1:A:150:TYR:HB3	0.42	1.91	13	2

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	84/147 (57%)	81±1 (96±1%)	3±1 (3±1%)	0±0 (0±1%)	31	76
All	All	1680/2940 (57%)	1620 (96%)	53 (3%)	7 (0%)	31	76

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	149	TYR	7

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	80/123 (65%)	67±2 (84±2%)	13±2 (16±2%)	4	40
All	All	1600/2460 (65%)	1340 (84%)	260 (16%)	4	40

All 26 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	139	ILE	20
1	A	153	ASN	20
1	A	154	MET	20
1	A	186	GLN	20
1	A	191	THR	20
1	A	215	ILE	20
1	A	212	GLN	19
1	A	149	TYR	18
1	A	204	LYS	18
1	A	181	ASN	15
1	A	213	MET	11
1	A	159	ASN	11
1	A	220	ARG	10
1	A	219	GLU	9
1	A	210	ILE	8
1	A	187	HIS	4
1	A	178	ASP	3
1	A	147	ASP	2
1	A	197	ASN	2
1	A	136	ARG	2
1	A	175	PHE	2
1	A	156	ARG	2
1	A	140	HIS	1
1	A	190	THR	1
1	A	129	MET	1
1	A	217	GLN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 78% 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	1507
Number of shifts mapped to atoms	1507
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

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
$^{13}\text{C}_\alpha$	136	-0.16 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	126	0.12 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	118	-0.11 ± 0.13	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 83%, i.e. 989 atoms were assigned a chemical shift out of a possible 1190. 0 out of 7 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	329/419 (79%)	166/169 (98%)	82/168 (49%)	81/82 (99%)
Sidechain	560/641 (87%)	380/412 (92%)	170/198 (86%)	10/31 (32%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	100/130 (77%)	50/63 (79%)	50/63 (79%)	0/4 (0%)
Overall	989/1190 (83%)	596/644 (93%)	302/429 (70%)	91/117 (78%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 78%, i.e. 1507 atoms were assigned a chemical shift out of a possible 1932. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	522/738 (71%)	268/303 (88%)	136/294 (46%)	118/141 (84%)
Sidechain	857/1011 (85%)	583/651 (90%)	261/311 (84%)	13/49 (27%)
Aromatic	128/183 (70%)	64/89 (72%)	63/87 (72%)	1/7 (14%)
Overall	1507/1932 (78%)	915/1043 (88%)	460/692 (66%)	132/197 (67%)

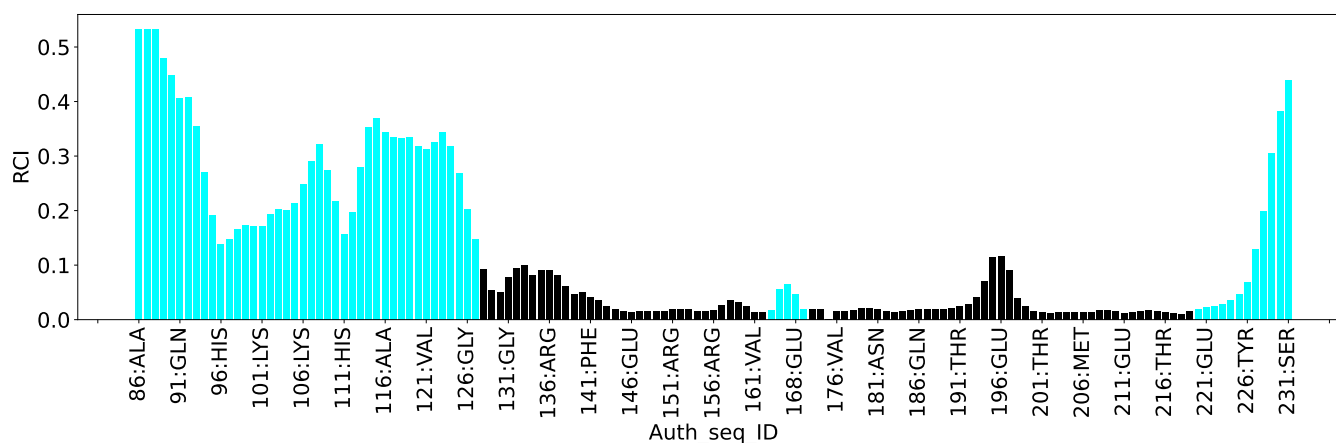
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain 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	1928
Intra-residue ($ i-j =0$)	452
Sequential ($ i-j =1$)	480
Medium range ($ i-j >1$ and $ i-j <5$)	516
Long range ($ i-j \geq 5$)	479
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	1
Total dihedral-angle restraints	158
Number of unmapped restraints	0
Number of restraints per residue	14.2
Number of long range restraints per residue ¹	3.3

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

8.2 Residual restraint violations

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)	3.5	0.2
0.2-0.5 (Medium)	4.7	0.5
>0.5 (Large)	50.4	5.95

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)	4.2	5.07
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

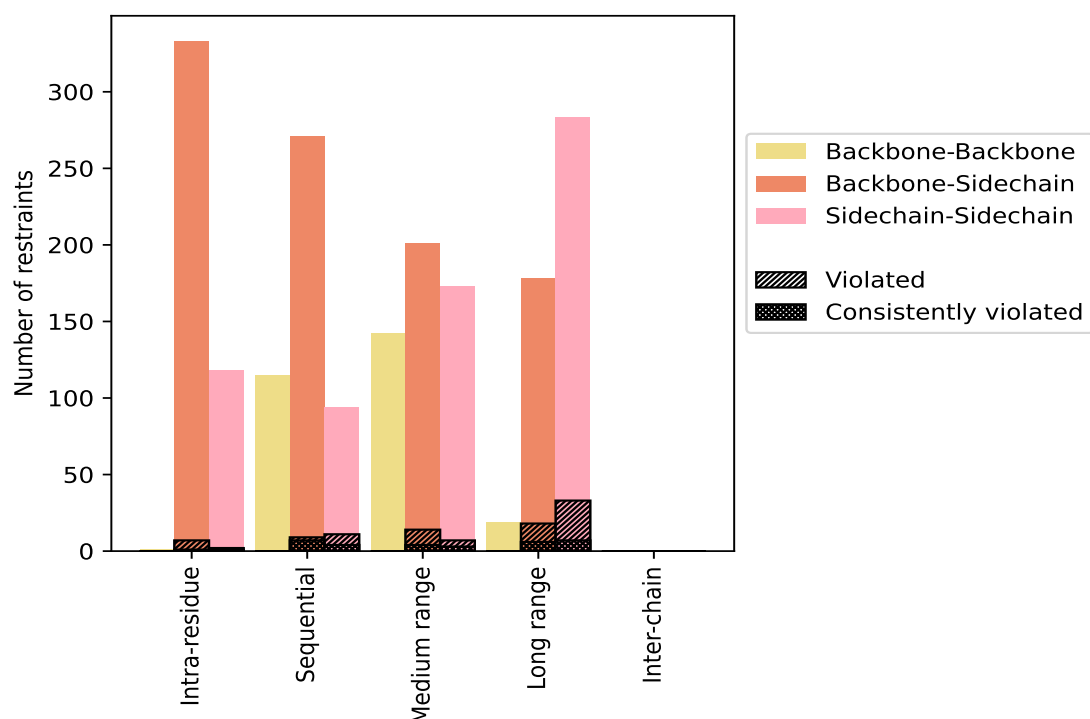
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	452	23.4	9	2.0	0.5	2	0.4	0.1
Backbone-Backbone	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	333	17.3	7	2.1	0.4	1	0.3	0.1
Sidechain-Sidechain	118	6.1	2	1.7	0.1	1	0.8	0.1
Sequential ($i-j =1$)	480	24.9	20	4.2	1.0	11	2.3	0.6
Backbone-Backbone	115	6.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	271	14.1	9	3.3	0.5	7	2.6	0.4
Sidechain-Sidechain	94	4.9	11	11.7	0.6	4	4.3	0.2
Medium range ($i-j >1$ & $i-j <5$)	516	26.8	21	4.1	1.1	7	1.4	0.4
Backbone-Backbone	142	7.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	201	10.4	14	7.0	0.7	4	2.0	0.2
Sidechain-Sidechain	173	9.0	7	4.0	0.4	3	1.7	0.2
Long range ($i-j \geq 5$)	479	24.8	51	10.6	2.6	13	2.7	0.7
Backbone-Backbone	19	1.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	178	9.2	18	10.1	0.9	6	3.4	0.3
Sidechain-Sidechain	282	14.6	33	11.7	1.7	7	2.5	0.4
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	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	1	0.1	0	0.0	0.0	0	0.0	0.0
Total	1928	100.0	101	5.2	5.2	33	1.7	1.7
Backbone-Backbone	277	14.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	983	51.0	48	4.9	2.5	18	1.8	0.9
Sidechain-Sidechain	668	34.6	53	7.9	2.7	15	2.2	0.8

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	6	19	13	38	0	76	1.86	4.93	1.13	1.78
2	4	18	11	24	0	57	1.69	4.03	0.99	1.71
3	4	18	10	20	0	52	1.67	4.01	1.02	1.82
4	4	19	16	21	0	60	1.8	5.75	1.34	1.66
5	2	11	8	19	0	40	1.64	3.97	1.03	1.7
6	3	18	10	19	0	50	1.64	3.96	1.06	1.5
7	6	18	10	45	0	79	1.76	3.99	0.99	1.74
8	4	20	9	17	0	50	1.65	3.98	1.09	1.53
9	3	18	11	19	0	51	1.65	3.99	1.06	1.41
10	6	19	9	38	0	72	1.7	4.06	1.02	1.74

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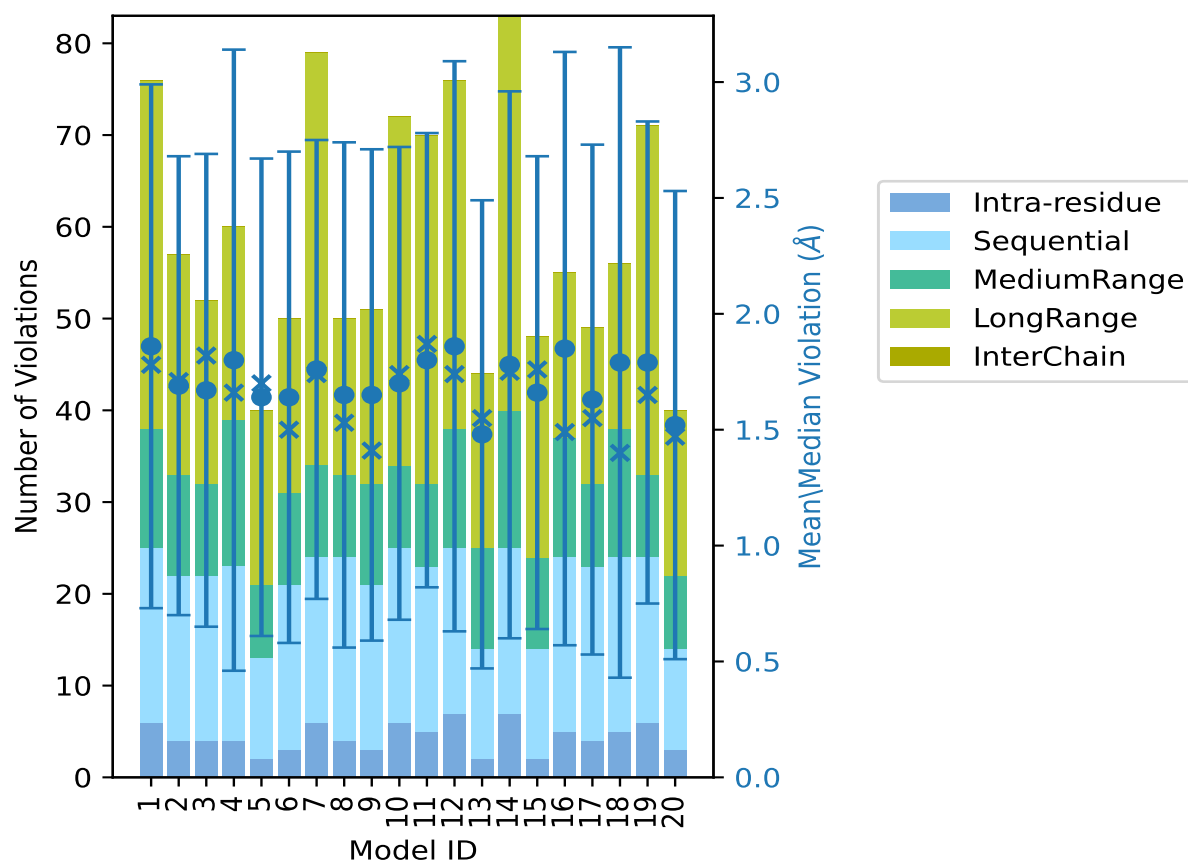
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	5	18	9	38	0	70	1.8	3.97	0.98	1.87
12	7	18	13	38	0	76	1.86	5.37	1.23	1.74
13	2	12	11	19	0	44	1.48	3.9	1.01	1.55
14	7	18	15	43	0	83	1.78	5.95	1.18	1.75
15	2	12	10	24	0	48	1.66	3.87	1.02	1.76
16	5	19	13	18	0	55	1.85	5.38	1.28	1.49
17	4	19	9	17	0	49	1.63	3.92	1.1	1.55
18	5	19	14	18	0	56	1.79	5.89	1.36	1.4
19	6	18	9	38	0	71	1.79	4.12	1.04	1.65
20	3	11	8	18	0	40	1.52	4.03	1.01	1.47

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

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

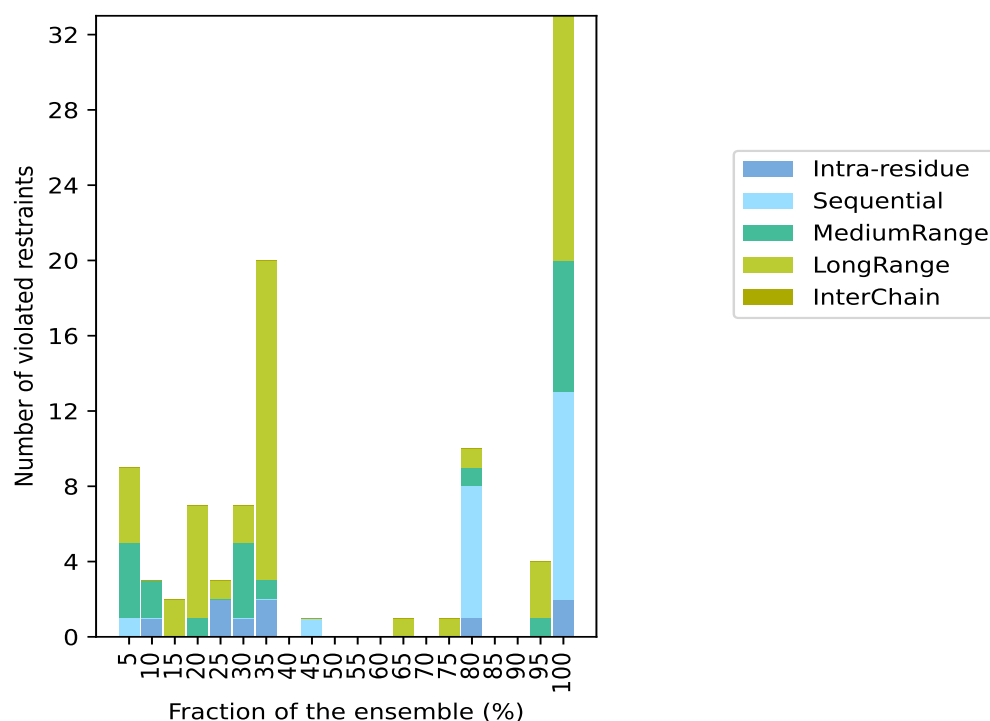
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1826(IR:443, SQ:460, MR:495, LR:428, IC:0) restraints are 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	%
0	1	4	4	0	9	1	5.0
1	0	2	0	0	3	2	10.0
0	0	0	2	0	2	3	15.0
0	0	1	6	0	7	4	20.0
2	0	0	1	0	3	5	25.0
1	0	4	2	0	7	6	30.0
2	0	1	17	0	20	7	35.0
0	0	0	0	0	0	8	40.0
0	1	0	0	0	1	9	45.0
0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	11	55.0
0	0	0	0	0	0	12	60.0
0	0	0	1	0	1	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	1	0	1	15	75.0
1	7	1	1	0	10	16	80.0
0	0	0	0	0	0	17	85.0
0	0	0	0	0	0	18	90.0
0	0	1	3	0	4	19	95.0
2	11	7	13	0	33	20	100.0

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

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

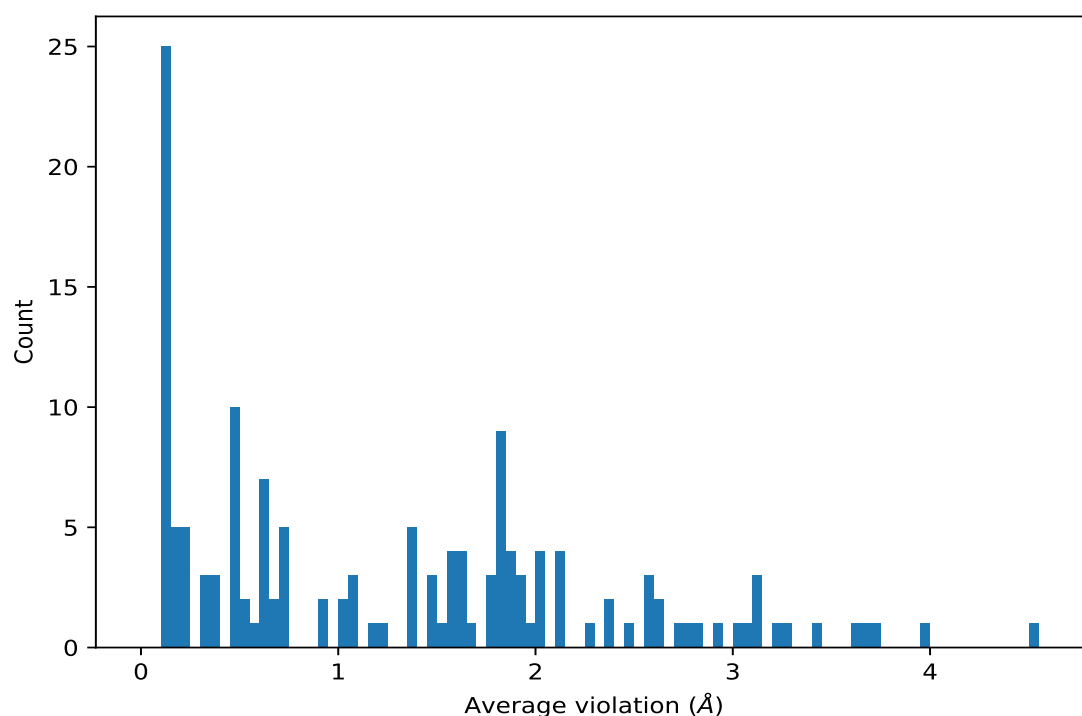
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

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



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	20	3.95	0.1	3.96
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	20	3.72	0.22	3.75
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	20	3.43	0.07	3.42
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	20	3.25	0.29	3.39
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	20	3.06	0.25	3.02
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	20	2.63	0.05	2.63
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	20	2.55	0.34	2.56
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	20	2.39	0.12	2.41
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	20	2.37	0.16	2.34
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	20	2.26	0.21	2.24
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	20	2.03	0.08	2.06
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	20	2.03	0.26	2.1
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	20	2.01	0.14	1.98
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	20	1.93	0.21	1.96
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	20	1.91	0.09	1.92
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	20	1.89	0.16	1.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	20	1.89	0.16	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	20	1.89	0.16	1.88
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	20	1.79	0.25	1.88
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	20	1.78	0.46	1.67
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	20	1.75	0.33	1.87
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	20	1.59	0.18	1.64
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	20	1.5	0.12	1.52
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	20	1.49	0.31	1.54
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	20	1.39	0.15	1.42
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	20	1.36	0.07	1.35
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	20	1.2	0.22	1.25
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	20	1.04	0.05	1.05
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	20	0.9	0.14	0.92
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	20	0.71	0.1	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	20	0.71	0.1	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	20	0.71	0.1	0.74
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	20	0.67	0.08	0.67
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	20	0.58	0.13	0.62
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	20	0.49	0.15	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	20	0.49	0.15	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	20	0.49	0.15	0.48
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	20	0.23	0.01	0.23
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	20	0.14	0.03	0.14
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	20	0.14	0.03	0.14
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	20	0.14	0.03	0.14
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	19	1.08	0.58	1.02
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	19	1.08	0.58	1.02
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	19	0.71	0.26	0.74
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	19	0.62	0.34	0.59
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	19	0.48	0.17	0.45
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	19	0.48	0.17	0.45
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	19	0.48	0.17	0.45
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	16	4.54	0.81	4.0
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	16	3.69	0.94	3.06
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	16	3.61	0.77	3.22
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	16	3.14	0.98	2.58
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	16	2.11	0.22	2.1

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	16	1.37	0.2	1.41
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	16	1.15	0.8	1.04
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	16	1.01	0.26	0.96
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	16	0.69	0.14	0.69
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	16	0.53	0.09	0.55
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	15	2.0	0.92	2.05
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	13	1.45	0.74	1.76
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	13	1.45	0.74	1.76
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	9	0.21	0.09	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	9	0.21	0.09	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	9	0.21	0.09	0.14
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	7	3.21	0.07	3.19
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	7	3.13	0.38	2.97
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	7	3.11	0.12	3.12
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	7	2.92	0.23	2.9
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	7	2.8	0.28	2.83
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	7	2.77	0.15	2.83
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	7	2.6	0.1	2.57
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	7	2.45	0.36	2.27
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	7	2.11	0.17	2.1
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	7	2.11	0.17	2.1
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	7	2.11	0.17	2.1
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	7	1.91	0.28	1.96
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	7	1.83	0.56	1.53
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	7	1.83	0.56	1.53
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	7	1.83	0.56	1.53
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	7	1.82	0.3	1.83
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	7	1.82	0.3	1.83
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	7	1.82	0.3	1.83
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	7	1.67	0.07	1.65
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	7	1.63	0.19	1.74
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	7	1.57	0.08	1.57
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	7	1.57	0.08	1.57
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	7	1.57	0.08	1.57
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	7	1.09	0.14	1.07
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	7	0.92	0.18	0.95
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	7	0.73	0.19	0.79
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	7	0.18	0.01	0.18
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	7	0.12	0.03	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	7	0.12	0.03	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	7	0.12	0.03	0.12
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	6	3.04	0.15	3.06

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	6	2.72	0.22	2.78
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	6	2.55	0.26	2.53
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	6	2.55	0.26	2.53
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	6	1.38	0.25	1.4
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	6	0.64	0.05	0.63
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	6	0.48	0.16	0.54
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	6	0.13	0.01	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	6	0.13	0.01	0.13
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	5	1.37	0.61	1.57
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	5	0.22	0.04	0.23
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	5	0.16	0.02	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	5	0.16	0.02	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	5	0.16	0.02	0.16
(1,1819)	1:175:A:PHE:HE1	1:217:A:GLN:HG2	4	1.96	0.15	1.96
(1,1817)	1:175:A:PHE:HD1	1:179:A:CYS:HB3	4	1.88	0.1	1.87
(1,679)	1:161:A:VAL:HG21	1:175:A:PHE:HD1	4	1.81	0.13	1.82
(1,679)	1:161:A:VAL:HG22	1:175:A:PHE:HD1	4	1.81	0.13	1.82
(1,679)	1:161:A:VAL:HG23	1:175:A:PHE:HD1	4	1.81	0.13	1.82
(1,1818)	1:161:A:VAL:HG21	1:175:A:PHE:HE1	4	1.6	0.11	1.62
(1,1818)	1:161:A:VAL:HG22	1:175:A:PHE:HE1	4	1.6	0.11	1.62
(1,1818)	1:161:A:VAL:HG23	1:175:A:PHE:HE1	4	1.6	0.11	1.62
(1,1821)	1:175:A:PHE:HE1	1:217:A:GLN:H	4	0.52	0.25	0.5
(1,895)	1:130:A:LEU:HD11	1:162:A:TYR:HD2	4	0.45	0.21	0.54
(1,895)	1:130:A:LEU:HD12	1:162:A:TYR:HD2	4	0.45	0.21	0.54
(1,895)	1:130:A:LEU:HD13	1:162:A:TYR:HD2	4	0.45	0.21	0.54
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD11	4	0.31	0.01	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD12	4	0.31	0.01	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD13	4	0.31	0.01	0.32
(1,896)	1:130:A:LEU:HD11	1:162:A:TYR:HE2	3	0.35	0.11	0.31
(1,896)	1:130:A:LEU:HD12	1:162:A:TYR:HE2	3	0.35	0.11	0.31
(1,896)	1:130:A:LEU:HD13	1:162:A:TYR:HE2	3	0.35	0.11	0.31
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG21	3	0.12	0.0	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG22	3	0.12	0.0	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG23	3	0.12	0.0	0.12
(1,1713)	1:225:A:TYR:H	1:225:A:TYR:HD1	2	0.17	0.01	0.17

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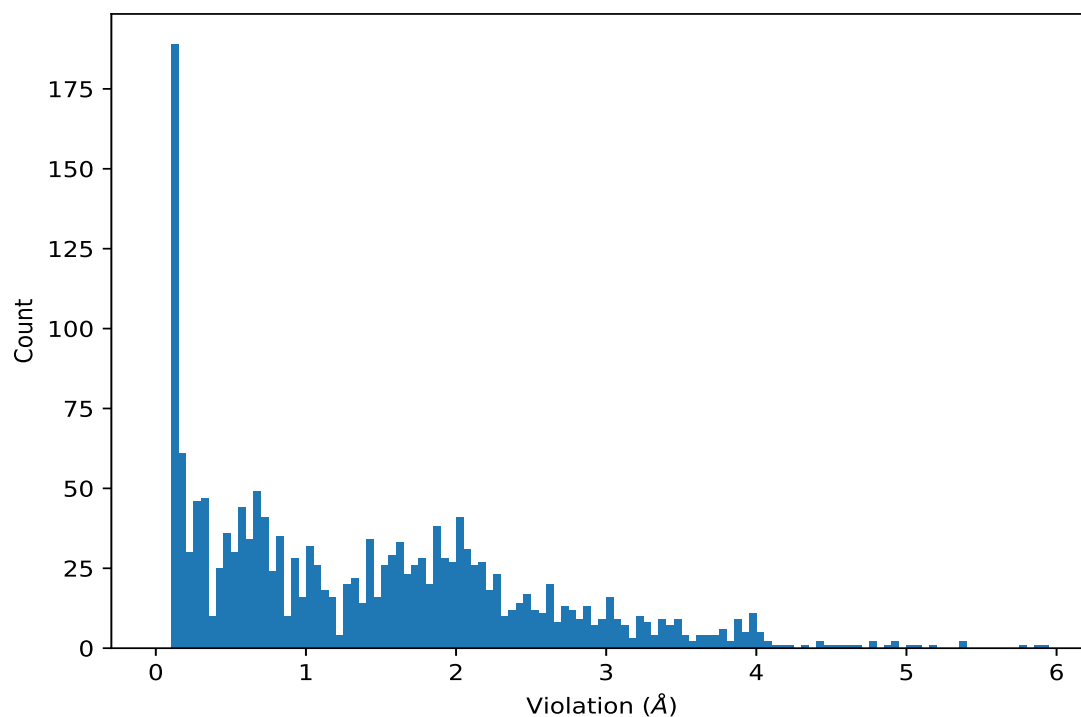
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1873)	1:125:A:LEU:HD11	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1873)	1:125:A:LEU:HD12	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1873)	1:125:A:LEU:HD13	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1873)	1:125:A:LEU:HD21	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1873)	1:125:A:LEU:HD22	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1873)	1:125:A:LEU:HD23	1:127:A:GLY:HA3	2	0.14	0.01	0.14
(1,1333)	1:179:A:CYS:HA	1:181:A:ASN:HD22	2	0.12	0.02	0.12

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

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



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	14	5.95
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	18	5.89
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	4	5.75
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	16	5.38
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	12	5.37
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	18	5.16
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	14	5.09
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	4	5.05
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	1	4.93
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	18	4.91
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	14	4.87
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	16	4.78
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	12	4.75
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	4	4.65
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	18	4.64
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	12	4.6
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	14	4.54
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	4	4.46
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	1	4.43
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	12	4.42
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	16	4.32
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	16	4.21
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	4	4.15
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	19	4.12
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	10	4.06
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	12	4.05
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	16	4.04
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	2	4.03
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	20	4.03
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	3	4.01
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	10	4.01
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	1	3.99
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	9	3.99
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	7	3.99
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	8	3.98
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	9	3.98
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	18	3.98
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	11	3.97
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	14	3.97
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	5	3.97
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	6	3.96
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	2	3.95
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	5	3.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	1	3.93
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	17	3.92
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	6	3.91
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	8	3.91
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	11	3.9
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	13	3.9
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	2	3.89
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	3	3.89
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	4	3.88
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	17	3.87
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	15	3.87
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	19	3.86
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	16	3.85
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	1	3.81
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	15	3.81
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	8	3.8
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	9	3.79
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	20	3.79
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	17	3.78
(1,1841)	1:225:A:TYR:HE1	1:226:A:TYR:HE2	7	3.77
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	12	3.75
(1,1780)	1:145:A:TYR:HD2	1:150:A:TYR:HD2	13	3.74
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	1	3.72
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	18	3.71
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	7	3.7
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	11	3.68
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	19	3.68
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	12	3.66
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	6	3.66
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	16	3.65
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	3	3.63
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	19	3.63
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	4	3.61
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	4	3.57
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	16	3.56
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	6	3.55
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	15	3.54
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	2	3.53
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	15	3.51
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	19	3.49
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	3	3.48
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	17	3.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	5	3.48
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	19	3.46
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	11	3.46
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	7	3.45
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	11	3.45
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	18	3.45
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	17	3.44
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	5	3.43
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	17	3.43
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	4	3.43
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	2	3.42
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	9	3.41
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	14	3.41
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	1	3.4
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	9	3.4
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	13	3.39
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	20	3.38
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	7	3.38
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	1	3.38
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	10	3.36
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	8	3.35
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	18	3.35
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	6	3.34
(1,1785)	1:145:A:TYR:HE2	1:146:A:GLU:HB3	12	3.34
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	12	3.34
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	16	3.33
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	10	3.3
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	14	3.3
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	7	3.29
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	18	3.28
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	8	3.28
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	12	3.27
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	10	3.26
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	1	3.25
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	19	3.24
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	8	3.24
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	7	3.23
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	19	3.23
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	12	3.22
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	8	3.21
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	19	3.21
(1,1751)	1:128:A:TYR:HE1	1:179:A:CYS:HB2	12	3.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	1	3.2
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	9	3.2
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	7	3.19
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	10	3.19
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	19	3.18
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	11	3.15
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	14	3.14
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	12	3.12
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	10	3.12
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	11	3.11
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	17	3.1
(1,929)	1:129:A:MET:HA	1:162:A:TYR:HD2	11	3.1
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	2	3.08
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	19	3.08
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	1	3.08
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	4	3.07
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	9	3.07
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	12	3.07
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	7	3.07
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	1	3.06
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	6	3.06
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	16	3.05
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	10	3.05
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	5	3.05
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	12	3.05
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	14	3.04
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	6	3.04
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	19	3.03
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	8	3.02
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	13	3.02
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	6	3.01
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	7	3.01
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	7	3.01
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	15	3.01
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	9	3.0
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	15	3.0
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	20	3.0
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	7	2.99
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	10	2.97
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	19	2.97
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	11	2.96
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	3	2.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	10	2.96
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	1	2.96
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	3	2.95
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	10	2.95
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	18	2.94
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	18	2.94
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	2	2.94
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	1	2.92
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	1	2.92
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	18	2.91
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	16	2.91
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	17	2.9
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	3	2.9
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	12	2.9
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	10	2.9
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	14	2.9
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	12	2.89
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	14	2.89
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	19	2.88
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	6	2.87
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	11	2.87
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	10	2.87
(1,960)	1:130:A:LEU:H	1:162:A:TYR:HD2	11	2.87
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	4	2.87
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	11	2.84
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	11	2.84
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	8	2.84
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	19	2.83
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	11	2.83
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	14	2.83
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	10	2.83
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	13	2.83
(1,1845)	1:222:A:SER:HA	1:226:A:TYR:HD2	14	2.81
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	14	2.8
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	1	2.8
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	7	2.79
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	12	2.78
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	12	2.78
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	19	2.78
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	20	2.78
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	1	2.78
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	7	2.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	2	2.76
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	1	2.75
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	4	2.75
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	5	2.74
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	18	2.74
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	12	2.73
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	12	2.73
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	12	2.73
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	18	2.73
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	17	2.73
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	7	2.72
(1,860)	1:125:A:LEU:HA	1:128:A:TYR:HD2	3	2.72
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	14	2.71
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	19	2.71
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	16	2.71
(1,1842)	1:225:A:TYR:HE1	1:226:A:TYR:HD2	7	2.7
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	1	2.69
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	7	2.69
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	7	2.68
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	9	2.68
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	4	2.67
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	4	2.67
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	19	2.66
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	6	2.66
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	11	2.65
(1,1781)	1:141:A:PHE:HA	1:145:A:TYR:HE2	3	2.65
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	19	2.65
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	16	2.65
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	15	2.65
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	14	2.64
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	15	2.64
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	17	2.64
(1,1831)	1:225:A:TYR:HD1	1:226:A:TYR:HE2	2	2.63
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	2	2.63
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	8	2.63
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	11	2.63
(1,897)	1:130:A:LEU:HB3	1:162:A:TYR:HE2	11	2.63
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	17	2.63
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	1	2.62
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	16	2.62
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	13	2.61
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	14	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	12	2.61
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	20	2.6
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	3	2.59
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	7	2.59
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	1	2.58
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	1	2.58
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	10	2.58
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	7	2.57
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	10	2.57
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	11	2.57
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	16	2.56
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	9	2.56
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	17	2.56
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	12	2.55
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	15	2.55
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	18	2.55
(1,1779)	1:145:A:TYR:HD2	1:146:A:GLU:HA	18	2.54
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	17	2.54
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	9	2.53
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	14	2.52
(1,961)	1:130:A:LEU:H	1:162:A:TYR:HE2	11	2.52
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	8	2.52
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	10	2.51
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	1	2.5
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	4	2.5
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	2	2.48
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	14	2.48
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	1	2.48
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	15	2.48
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	16	2.47
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	16	2.47
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	9	2.47
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	19	2.47
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	11	2.46
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	15	2.46
(1,1812)	1:162:A:TYR:HD1	1:183:A:THR:HA	12	2.46
(1,1795)	1:162:A:TYR:HD1	1:183:A:THR:H	12	2.46
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	3	2.46
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	2	2.45
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	6	2.45
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	15	2.45
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	4	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	19	2.43
(1,1691)	1:223:A:GLN:H	1:226:A:TYR:HD2	14	2.43
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	13	2.43
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	8	2.42
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	11	2.42
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	16	2.42
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	7	2.41
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	7	2.41
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	17	2.41
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	19	2.41
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	19	2.41
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	19	2.41
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	7	2.41
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	19	2.41
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	18	2.4
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	12	2.4
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	12	2.39
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	7	2.39
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	4	2.38
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	4	2.38
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	9	2.38
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	11	2.38
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	1	2.38
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	11	2.37
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	5	2.37
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	20	2.35
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	8	2.34
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	1	2.33
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	3	2.33
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	5	2.32
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	20	2.32
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	1	2.32
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	9	2.32
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	10	2.31
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	2	2.31
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	14	2.31
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	5	2.3
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	20	2.29
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	1	2.28
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	1	2.28
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	1	2.28
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	16	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	7	2.28
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	5	2.28
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	15	2.27
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	15	2.27
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	6	2.27
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	10	2.27
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	18	2.27
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	12	2.27
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	12	2.27
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	9	2.26
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	11	2.26
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	10	2.26
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	10	2.26
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	10	2.26
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	4	2.25
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	11	2.25
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	14	2.25
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	4	2.24
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	11	2.24
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	11	2.24
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	11	2.24
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	14	2.23
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	14	2.23
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	14	2.23
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	17	2.22
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	11	2.22
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	10	2.21
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	9	2.21
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	8	2.21
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	7	2.2
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	13	2.2
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	13	2.2
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	14	2.2
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	8	2.2
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	1	2.2
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	7	2.19
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	7	2.19
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	7	2.19
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	12	2.19
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	18	2.19
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	4	2.19
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	11	2.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	8	2.19
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	8	2.19
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	8	2.19
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	2	2.18
(1,1848)	1:225:A:TYR:HD1	1:226:A:TYR:HD2	3	2.18
(1,1840)	1:162:A:TYR:HE1	1:183:A:THR:HA	12	2.18
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	13	2.18
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	1	2.17
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	14	2.17
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	14	2.17
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	16	2.17
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	12	2.17
(1,1914)	1:222:A:SER:HB2	1:226:A:TYR:HD2	14	2.16
(1,1914)	1:222:A:SER:HB3	1:226:A:TYR:HD2	14	2.16
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	19	2.16
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	3	2.16
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	10	2.16
(1,1819)	1:175:A:PHE:HE1	1:217:A:GLN:HG2	7	2.15
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	3	2.15
(1,781)	1:145:A:TYR:HD2	1:146:A:GLU:HG3	6	2.15
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	1	2.14
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	3	2.14
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	14	2.14
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	4	2.13
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	2	2.13
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	10	2.13
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	10	2.13
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	10	2.13
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	10	2.13
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	10	2.12
(1,1749)	1:128:A:TYR:HE1	1:163:A:TYR:HA	14	2.12
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	8	2.12
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	14	2.12
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	3	2.11
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	3	2.11
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	6	2.11
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	3	2.11
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	6	2.11
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	19	2.1
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	19	2.1
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	19	2.1
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	14	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	20	2.1
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	7	2.1
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	16	2.1
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	14	2.1
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	14	2.09
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	14	2.09
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	14	2.09
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	5	2.09
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	15	2.09
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	5	2.09
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	11	2.09
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	6	2.09
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	1	2.09
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	1	2.09
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	1	2.09
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	5	2.08
(1,1819)	1:175:A:PHE:HE1	1:217:A:GLN:HG2	2	2.08
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	15	2.08
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	19	2.08
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	3	2.08
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	3	2.08
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	3	2.08
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	3	2.08
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	12	2.07
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	7	2.07
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	18	2.07
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	10	2.06
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	4	2.06
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	9	2.06
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	15	2.06
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	18	2.06
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	8	2.06
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	6	2.06
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	6	2.06
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	6	2.06
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	16	2.05
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	2	2.05
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	16	2.05
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	17	2.05
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	11	2.05
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	11	2.05
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	11	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	11	2.05
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	19	2.05
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	1	2.04
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	9	2.04
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	10	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	12	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	12	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	12	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	15	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	15	2.04
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	15	2.04
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	7	2.03
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	7	2.03
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	7	2.03
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	19	2.03
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	7	2.03
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	10	2.03
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	1	2.03
(1,1817)	1:175:A:PHE:HD1	1:179:A:CYS:HB3	2	2.02
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	1	2.02
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	2	2.02
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	13	2.02
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	20	2.02
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	20	2.02
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	20	2.02
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	6	2.01
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	15	2.01
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	13	2.01
(1,1836)	1:130:A:LEU:HB2	1:162:A:TYR:HE2	11	2.0
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	14	2.0
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	15	2.0
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	5	2.0
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	10	2.0
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	4	2.0
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	7	1.99
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	16	1.99
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	1	1.99
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	6	1.99
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	10	1.98
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	13	1.98
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	13	1.98
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	20	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	20	1.98
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	8	1.97
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	13	1.97
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	5	1.97
(1,861)	1:125:A:LEU:HA	1:128:A:TYR:HE2	3	1.97
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	2	1.96
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	14	1.96
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	12	1.96
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	2	1.96
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	15	1.96
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	12	1.96
(1,679)	1:161:A:VAL:HG21	1:175:A:PHE:HD1	2	1.96
(1,679)	1:161:A:VAL:HG22	1:175:A:PHE:HD1	2	1.96
(1,679)	1:161:A:VAL:HG23	1:175:A:PHE:HD1	2	1.96
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	10	1.96
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	19	1.96
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	19	1.96
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	19	1.96
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	7	1.96
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	1	1.95
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	4	1.95
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	17	1.95
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	17	1.95
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	17	1.95
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	11	1.95
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	11	1.94
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	11	1.94
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	11	1.94
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	5	1.93
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	5	1.93
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	7	1.93
(1,1817)	1:175:A:PHE:HD1	1:179:A:CYS:HB3	7	1.93
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	3	1.93
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	8	1.93
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	8	1.93
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	13	1.93
(1,607)	1:141:A:PHE:HB2	1:145:A:TYR:HE2	2	1.93
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	13	1.92
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	13	1.92
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	6	1.92
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	7	1.92
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	18	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	10	1.92
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	3	1.91
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	5	1.91
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	2	1.91
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	5	1.91
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	1	1.9
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	1	1.9
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	9	1.9
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	19	1.9
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	4	1.89
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	11	1.89
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	4	1.89
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	17	1.89
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	10	1.89
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	10	1.89
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	10	1.89
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	12	1.88
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	8	1.88
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	20	1.88
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	7	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	14	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	14	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	14	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	16	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	16	1.88
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	16	1.88
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	20	1.87
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	12	1.87
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	11	1.87
(1,679)	1:161:A:VAL:HG21	1:175:A:PHE:HD1	7	1.87
(1,679)	1:161:A:VAL:HG22	1:175:A:PHE:HD1	7	1.87
(1,679)	1:161:A:VAL:HG23	1:175:A:PHE:HD1	7	1.87
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	11	1.86
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	20	1.86
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	8	1.86
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	10	1.86
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	3	1.85
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	3	1.85
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	9	1.85
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	6	1.85
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	7	1.85
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	10	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	9	1.85
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	3	1.84
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	13	1.84
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	15	1.84
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	2	1.84
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	2	1.84
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	2	1.84
(1,1819)	1:175:A:PHE:HE1	1:217:A:GLN:HG2	14	1.83
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	14	1.83
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	14	1.83
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	14	1.83
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	20	1.82
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	16	1.82
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	20	1.82
(1,1817)	1:175:A:PHE:HD1	1:179:A:CYS:HB3	15	1.81
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	12	1.81
(1,1819)	1:175:A:PHE:HE1	1:217:A:GLN:HG2	15	1.8
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	1	1.8
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	4	1.8
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	4	1.8
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	4	1.8
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	19	1.79
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	17	1.79
(1,1249)	1:128:A:TYR:HD1	1:163:A:TYR:H	17	1.79
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	3	1.79
(1,1776)	1:145:A:TYR:HD2	1:146:A:GLU:HG2	18	1.78
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	9	1.78
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	9	1.78
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	9	1.78
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG21	12	1.77
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG22	12	1.77
(1,1802)	1:162:A:TYR:HD1	1:183:A:THR:HG23	12	1.77
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	17	1.77
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	5	1.77
(1,679)	1:161:A:VAL:HG21	1:175:A:PHE:HD1	15	1.77
(1,679)	1:161:A:VAL:HG22	1:175:A:PHE:HD1	15	1.77
(1,679)	1:161:A:VAL:HG23	1:175:A:PHE:HD1	15	1.77
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	4	1.76
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	4	1.76
(1,1817)	1:175:A:PHE:HD1	1:179:A:CYS:HB3	14	1.76
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	14	1.76
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	2	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	10	1.75
(1,1748)	1:128:A:TYR:HD1	1:163:A:TYR:HA	14	1.75
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	2	1.75
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	19	1.75
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	19	1.75
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	19	1.75
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	1	1.75
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	7	1.74
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	10	1.74
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	13	1.74
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	4	1.74
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	15	1.74
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	14	1.74
(1,1818)	1:161:A:VAL:HG21	1:175:A:PHE:HE1	2	1.73
(1,1818)	1:161:A:VAL:HG22	1:175:A:PHE:HE1	2	1.73
(1,1818)	1:161:A:VAL:HG23	1:175:A:PHE:HE1	2	1.73
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	1	1.73
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	10	1.73
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	4	1.73
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	7	1.73
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	7	1.73
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	7	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	5	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	5	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	5	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	18	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	18	1.73
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	18	1.73
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	7	1.72
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	9	1.72
(1,761)	1:225:A:TYR:HD1	1:226:A:TYR:HB3	19	1.72
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	2	1.71
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	6	1.71
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	3	1.7
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	11	1.7
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	1	1.7
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	11	1.7
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	12	1.7
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	16	1.69
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	7	1.69
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	7	1.69
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	7	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	19	1.68
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	8	1.68
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	19	1.68
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	13	1.68
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	1	1.68
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	1	1.68
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	1	1.68
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	13	1.68
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	13	1.68
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	13	1.68
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	5	1.67
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	2	1.67
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	5	1.67
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	10	1.66
(1,1818)	1:161:A:VAL:HG21	1:175:A:PHE:HE1	7	1.65
(1,1818)	1:161:A:VAL:HG22	1:175:A:PHE:HE1	7	1.65
(1,1818)	1:161:A:VAL:HG23	1:175:A:PHE:HE1	7	1.65
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	19	1.65
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	17	1.65
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	14	1.65
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	3	1.64
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	2	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	7	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	7	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	7	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	19	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	19	1.64
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	19	1.64
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	2	1.63
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	1	1.63
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	2	1.63
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	11	1.63
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	7	1.63
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	1	1.63
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	2	1.62
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	10	1.62
(1,679)	1:161:A:VAL:HG21	1:175:A:PHE:HD1	14	1.62
(1,679)	1:161:A:VAL:HG22	1:175:A:PHE:HD1	14	1.62
(1,679)	1:161:A:VAL:HG23	1:175:A:PHE:HD1	14	1.62
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	12	1.62
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	20	1.61
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	16	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	6	1.6
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	6	1.6
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	17	1.6
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	9	1.6
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	4	1.6
(1,1818)	1:161:A:VAL:HG21	1:175:A:PHE:HE1	15	1.59
(1,1818)	1:161:A:VAL:HG22	1:175:A:PHE:HE1	15	1.59
(1,1818)	1:161:A:VAL:HG23	1:175:A:PHE:HE1	15	1.59
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	7	1.59
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	12	1.59
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	17	1.59
(1,950)	1:129:A:MET:H	1:162:A:TYR:HD2	14	1.58
(1,916)	1:125:A:LEU:HB3	1:128:A:TYR:HE2	18	1.58
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	11	1.58
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	5	1.58
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	13	1.58
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE1	1	1.58
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE2	1	1.58
(1,333)	1:145:A:TYR:HD2	1:205:A:MET:HE3	1	1.58
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	12	1.57
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	14	1.57
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	8	1.57
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	12	1.57
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	12	1.57
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	12	1.57
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	14	1.56
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	4	1.56
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	6	1.56
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	18	1.56
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	17	1.55
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	3	1.55
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	19	1.55
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	19	1.55
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	12	1.55
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	3	1.54
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	10	1.53
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	10	1.53
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	10	1.53
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	15	1.53
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	19	1.53
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	18	1.53
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	12	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	11	1.53
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	11	1.53
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	11	1.53
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	11	1.53
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	12	1.52
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	13	1.52
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	11	1.52
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	15	1.52
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	20	1.52
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	15	1.51
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	7	1.51
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	18	1.51
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	14	1.51
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	14	1.51
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	14	1.51
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	6	1.5
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	6	1.5
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	19	1.5
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	16	1.49
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	16	1.49
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	19	1.49
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	8	1.49
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	9	1.49
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	14	1.48
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	14	1.48
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	14	1.48
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	14	1.48
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	5	1.48
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	8	1.47
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	10	1.47
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	18	1.47
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	8	1.46
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	11	1.46
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	13	1.46
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	2	1.45
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	2	1.45
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	19	1.45
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	16	1.45
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	3	1.45
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	7	1.45
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	2	1.45
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	10	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	11	1.44
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	1	1.44
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	6	1.44
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	1	1.44
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	14	1.44
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	13	1.43
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	1	1.43
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	4	1.43
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	8	1.43
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	12	1.43
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG21	10	1.43
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG22	10	1.43
(1,565)	1:162:A:TYR:HD1	1:182:A:ILE:HG23	10	1.43
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	1	1.42
(1,1818)	1:161:A:VAL:HG21	1:175:A:PHE:HE1	14	1.42
(1,1818)	1:161:A:VAL:HG22	1:175:A:PHE:HE1	14	1.42
(1,1818)	1:161:A:VAL:HG23	1:175:A:PHE:HE1	14	1.42
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	4	1.42
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	16	1.42
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	20	1.42
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	17	1.42
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	19	1.41
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	19	1.41
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	4	1.41
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	9	1.41
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	1	1.41
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	4	1.4
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	5	1.4
(1,1829)	1:218:A:TYR:HD1	1:219:A:GLU:HB3	20	1.39
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	19	1.39
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	10	1.38
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	10	1.38
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	9	1.38
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	7	1.38
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	19	1.37
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	13	1.37
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	6	1.36
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	6	1.36
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	9	1.35
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	20	1.35
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	1	1.34
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	1	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	1	1.34
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	2	1.34
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	15	1.34
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	3	1.34
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	16	1.34
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	14	1.33
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	16	1.33
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	18	1.33
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	7	1.32
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	19	1.32
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	18	1.32
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	5	1.32
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	9	1.31
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	9	1.31
(1,1839)	1:130:A:LEU:HA	1:162:A:TYR:HE2	11	1.31
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	8	1.31
(1,1745)	1:127:A:GLY:HA3	1:128:A:TYR:HD2	9	1.31
(1,296)	1:162:A:TYR:HE1	1:186:A:GLN:HG3	12	1.31
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	7	1.3
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	10	1.3
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	17	1.29
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	19	1.29
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	6	1.29
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	9	1.28
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	16	1.28
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	18	1.28
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	16	1.28
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	18	1.27
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	6	1.27
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	11	1.27
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	11	1.27
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	9	1.27
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	16	1.26
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	1	1.26
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	10	1.26
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	15	1.26
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	3	1.25
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	7	1.25
(1,946)	1:128:A:TYR:H	1:128:A:TYR:HD2	20	1.25
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	7	1.25
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	17	1.24
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	8	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	8	1.21
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	2	1.21
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	11	1.19
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	11	1.19
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	6	1.19
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	14	1.19
(1,903)	1:127:A:GLY:HA2	1:128:A:TYR:HD2	18	1.19
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG21	12	1.18
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG22	12	1.18
(1,549)	1:162:A:TYR:HE1	1:183:A:THR:HG23	12	1.18
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	18	1.17
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	18	1.17
(1,1838)	1:130:A:LEU:HD21	1:162:A:TYR:HE2	11	1.16
(1,1838)	1:130:A:LEU:HD22	1:162:A:TYR:HE2	11	1.16
(1,1838)	1:130:A:LEU:HD23	1:162:A:TYR:HE2	11	1.16
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	16	1.16
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	6	1.16
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	14	1.16
(1,1740)	1:125:A:LEU:HB3	1:128:A:TYR:HD2	15	1.15
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	1	1.14
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	19	1.14
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	7	1.12
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	7	1.12
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	7	1.12
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	7	1.12
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	7	1.12
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	7	1.12
(1,1750)	1:127:A:GLY:HA3	1:128:A:TYR:HE2	9	1.12
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	14	1.12
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	9	1.12
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	20	1.12
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	9	1.12
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	18	1.11
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	10	1.11
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	4	1.1
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	16	1.1
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	11	1.09
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	11	1.09
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	11	1.09
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	11	1.09
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	11	1.09
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	11	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	14	1.09
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	19	1.09
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	17	1.09
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	11	1.09
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	18	1.08
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	18	1.08
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	12	1.08
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	2	1.08
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	18	1.08
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	12	1.07
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	10	1.07
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	15	1.07
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	9	1.07
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	6	1.06
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	7	1.06
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	11	1.06
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	4	1.06
(1,667)	1:128:A:TYR:HD1	1:162:A:TYR:HA	17	1.05
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	2	1.05
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	14	1.05
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	12	1.04
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	12	1.04
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	12	1.04
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	12	1.04
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	12	1.04
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	12	1.04
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	1	1.04
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	17	1.03
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	17	1.03
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	17	1.03
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	17	1.03
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	17	1.03
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	17	1.03
(1,1833)	1:222:A:SER:HA	1:225:A:TYR:HD1	18	1.03
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	2	1.03
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	7	1.03
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	7	1.03
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	13	1.03
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	20	1.03
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	3	1.02
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	3	1.02
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	19	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	19	1.02
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	5	1.01
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	20	1.01
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	3	1.01
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	10	1.01
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	12	1.01
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	7	1.0
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	7	1.0
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	8	1.0
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	10	1.0
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	15	0.99
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	5	0.99
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	19	0.99
(1,1830)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	17	0.98
(1,56)	1:223:A:GLN:HA	1:226:A:TYR:HD2	4	0.98
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	16	0.98
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	14	0.97
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	14	0.97
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	14	0.97
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	14	0.97
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	14	0.97
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	14	0.97
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	14	0.97
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	2	0.96
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	4	0.96
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	19	0.96
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	13	0.95
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	12	0.95
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	6	0.95
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	10	0.94
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	10	0.94
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	10	0.94
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	10	0.94
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	10	0.94
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	10	0.94
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	12	0.94
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	17	0.94
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	1	0.94
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	3	0.94
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	5	0.93
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	11	0.93
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	17	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	17	0.93
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	17	0.93
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	7	0.93
(1,949)	1:128:A:TYR:HD1	1:129:A:MET:H	14	0.92
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	2	0.92
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	8	0.92
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	12	0.92
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	16	0.91
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	18	0.91
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	10	0.91
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	9	0.9
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	8	0.9
(1,1821)	1:175:A:PHE:HE1	1:217:A:GLN:H	2	0.89
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	15	0.88
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	15	0.88
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	4	0.88
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	20	0.88
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	10	0.87
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	13	0.86
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	13	0.86
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	1	0.86
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	6	0.86
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	6	0.85
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	6	0.85
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	6	0.85
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	6	0.85
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	6	0.85
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	6	0.85
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	9	0.84
(1,1234)	1:162:A:TYR:H	1:162:A:TYR:HE1	12	0.84
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	10	0.84
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	10	0.84
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	10	0.84
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	3	0.83
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	7	0.83
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	11	0.83
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	7	0.83
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	4	0.82
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	16	0.82
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	14	0.82
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	12	0.82
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	12	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	12	0.82
(1,135)	1:215:A:ILE:HA	1:218:A:TYR:HD1	18	0.82
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	19	0.8
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	19	0.8
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	19	0.8
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	19	0.8
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	19	0.8
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	19	0.8
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	8	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	1	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	1	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	1	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	18	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	18	0.8
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	18	0.8
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	1	0.79
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	10	0.79
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	3	0.78
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	1	0.78
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	16	0.77
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	16	0.77
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	16	0.77
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	16	0.77
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	16	0.77
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	4	0.76
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	12	0.76
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	16	0.76
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	16	0.76
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	16	0.76
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	19	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	9	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	9	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	9	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	20	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	20	0.75
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	20	0.75
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	4	0.75
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	4	0.75
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	4	0.75
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	18	0.74
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	18	0.74
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	11	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	8	0.74
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	11	0.74
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	15	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	5	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	5	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	5	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	6	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	6	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	6	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	7	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	7	0.74
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	7	0.74
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	17	0.73
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	7	0.73
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	14	0.73
(1,1336)	1:128:A:TYR:HE1	1:182:A:ILE:H	10	0.73
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	2	0.73
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	2	0.73
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	2	0.73
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	2	0.73
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	2	0.73
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	2	0.73
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	1	0.72
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	1	0.72
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	15	0.72
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	12	0.72
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	14	0.72
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	17	0.72
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	20	0.72
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	8	0.72
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	14	0.71
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	14	0.71
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	12	0.71
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	12	0.71
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	9	0.71
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	14	0.71
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	14	0.71
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	14	0.71
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	2	0.7
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	4	0.7
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	17	0.7
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	15	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	15	0.69
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	15	0.69
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	15	0.69
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	15	0.69
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	15	0.69
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	9	0.69
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	2	0.69
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	9	0.69
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	3	0.69
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	13	0.68
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	6	0.68
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	4	0.68
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	4	0.68
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	4	0.68
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	4	0.68
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	4	0.68
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	4	0.68
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	3	0.67
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	1	0.67
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	18	0.67
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	19	0.67
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	7	0.67
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	19	0.67
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	11	0.67
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	11	0.67
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	11	0.67
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	19	0.67
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	16	0.66
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	17	0.66
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	17	0.66
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	17	0.66
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	10	0.66
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	4	0.65
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	11	0.65
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	14	0.65
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	14	0.65
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	13	0.65
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	13	0.65
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	13	0.65
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	19	0.65
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	19	0.65
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	19	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	8	0.65
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	8	0.65
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	8	0.65
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	4	0.64
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	4	0.64
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	8	0.64
(1,895)	1:130:A:LEU:HD11	1:162:A:TYR:HD2	12	0.64
(1,895)	1:130:A:LEU:HD12	1:162:A:TYR:HD2	12	0.64
(1,895)	1:130:A:LEU:HD13	1:162:A:TYR:HD2	12	0.64
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	2	0.64
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	2	0.64
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	2	0.64
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	13	0.64
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	13	0.64
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	13	0.64
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	12	0.63
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	16	0.63
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	5	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	8	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	8	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	8	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	15	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	15	0.63
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	15	0.63
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	20	0.62
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	20	0.62
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	8	0.62
(1,980)	1:131:A:GLY:H	1:162:A:TYR:HD2	11	0.62
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	14	0.62
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	18	0.61
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	10	0.61
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	5	0.61
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	5	0.61
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	5	0.61
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	1	0.61
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	10	0.61
(1,30)	1:225:A:TYR:HD1	1:226:A:TYR:HA	19	0.61
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	1	0.6
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	1	0.6
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	5	0.6
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	6	0.6
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	10	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	4	0.59
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	4	0.59
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	4	0.59
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	4	0.59
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	4	0.59
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	4	0.59
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	11	0.59
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	13	0.59
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	13	0.59
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	13	0.59
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	1	0.59
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	19	0.59
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	1	0.58
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	13	0.58
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	3	0.58
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	3	0.58
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	3	0.58
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	8	0.58
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	8	0.58
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	8	0.58
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	11	0.58
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	4	0.58
(1,1821)	1:175:A:PHE:HE1	1:217:A:GLN:H	7	0.57
(1,1715)	1:226:A:TYR:H	1:226:A:TYR:HD2	1	0.57
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	12	0.57
(1,1066)	1:145:A:TYR:HD2	1:146:A:GLU:H	18	0.57
(1,895)	1:130:A:LEU:HD11	1:162:A:TYR:HD2	19	0.57
(1,895)	1:130:A:LEU:HD12	1:162:A:TYR:HD2	19	0.57
(1,895)	1:130:A:LEU:HD13	1:162:A:TYR:HD2	19	0.57
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	6	0.56
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	17	0.56
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	2	0.56
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	3	0.56
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	19	0.56
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	19	0.56
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	19	0.56
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	8	0.56
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	16	0.56
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	3	0.55
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	14	0.54
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	7	0.54
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	10	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	15	0.53
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	5	0.53
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	5	0.53
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	5	0.53
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	17	0.53
(1,1742)	1:128:A:TYR:HD1	1:162:A:TYR:HB2	17	0.52
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD11	16	0.52
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD12	16	0.52
(1,569)	1:128:A:TYR:HD2	1:182:A:ILE:HD13	16	0.52
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	6	0.52
(1,895)	1:130:A:LEU:HD11	1:162:A:TYR:HD2	7	0.51
(1,895)	1:130:A:LEU:HD12	1:162:A:TYR:HD2	7	0.51
(1,895)	1:130:A:LEU:HD13	1:162:A:TYR:HD2	7	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	9	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	9	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	9	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	15	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	15	0.51
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	15	0.51
(1,896)	1:130:A:LEU:HD11	1:162:A:TYR:HE2	12	0.5
(1,896)	1:130:A:LEU:HD12	1:162:A:TYR:HE2	12	0.5
(1,896)	1:130:A:LEU:HD13	1:162:A:TYR:HE2	12	0.5
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	16	0.5
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	19	0.5
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	19	0.5
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	19	0.5
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	2	0.5
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	7	0.49
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	12	0.48
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	12	0.48
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	6	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	7	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	7	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	7	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	11	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	11	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	11	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	17	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	17	0.48
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	17	0.48
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	1	0.48
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	1	0.48
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	7	0.47
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	3	0.47
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	3	0.47
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	3	0.47
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	11	0.47
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	13	0.46
(1,498)	1:162:A:TYR:HD1	1:186:A:GLN:HG2	12	0.46
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	2	0.45
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	2	0.45
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	2	0.45
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	2	0.45
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	2	0.45
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	2	0.45
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	20	0.45
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	20	0.45
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	20	0.45
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	18	0.45
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	18	0.45
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	18	0.45
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	9	0.45
(1,1821)	1:175:A:PHE:HE1	1:217:A:GLN:H	14	0.43
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	1	0.43
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	1	0.43
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	1	0.43
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	17	0.42
(1,1716)	1:225:A:TYR:HD1	1:226:A:TYR:H	19	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	9	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	9	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	9	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	11	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	11	0.42
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	11	0.42
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	5	0.41
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	5	0.41
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	16	0.41
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	15	0.41
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	15	0.41
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	15	0.41
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	3	0.4
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	3	0.4
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	3	0.4
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	3	0.4
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	3	0.4
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	18	0.4
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	18	0.39
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	18	0.39
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	18	0.39
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	17	0.38
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	13	0.37
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	6	0.37
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	6	0.37
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	6	0.37
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	7	0.36
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	11	0.36
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	18	0.35
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	18	0.35
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	18	0.35
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	18	0.35
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	18	0.35
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	18	0.35
(1,1832)	1:225:A:TYR:HD2	1:230:A:SER:HA	8	0.35
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	13	0.35
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	13	0.35
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	13	0.35
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	14	0.35
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	14	0.35
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	14	0.35
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	7	0.35
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	7	0.35
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	7	0.35
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	1	0.34
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	1	0.34
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	1	0.34
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	1	0.34
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	1	0.34
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	1	0.34
(1,1666)	1:218:A:TYR:HD1	1:219:A:GLU:H	20	0.34
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	20	0.34
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	10	0.33
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	10	0.33
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	1	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD11	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD12	7	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD13	7	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD11	10	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD12	10	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD13	10	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD11	14	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD12	14	0.32
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD13	14	0.32
(1,42)	1:225:A:TYR:HA	1:225:A:TYR:HD2	12	0.32
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	1	0.31
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	1	0.31
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	1	0.31
(1,896)	1:130:A:LEU:HD11	1:162:A:TYR:HE2	19	0.31
(1,896)	1:130:A:LEU:HD12	1:162:A:TYR:HE2	19	0.31
(1,896)	1:130:A:LEU:HD13	1:162:A:TYR:HE2	19	0.31
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	14	0.31
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	14	0.31
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	14	0.31
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	14	0.31
(1,1893)	1:172:A:GLN:HB2	1:218:A:TYR:HE1	6	0.3
(1,1893)	1:172:A:GLN:HB3	1:218:A:TYR:HE1	6	0.3
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	8	0.29
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	8	0.29
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	8	0.29
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	8	0.29
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	8	0.29
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	8	0.29
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	17	0.29
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	17	0.29
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	17	0.29
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD11	12	0.29
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD12	12	0.29
(1,570)	1:128:A:TYR:HE2	1:182:A:ILE:HD13	12	0.29
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	13	0.28
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	20	0.28
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	20	0.28
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	20	0.28
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	20	0.28
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	20	0.28
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	4	0.28
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	4	0.28
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	4	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	6	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	6	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	6	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	12	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	12	0.28
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	12	0.28
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	12	0.26
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	20	0.26
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	20	0.26
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	20	0.26
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	17	0.25
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	12	0.25
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	12	0.25
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	12	0.25
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG21	3	0.25
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG22	3	0.25
(1,563)	1:128:A:TYR:HD1	1:182:A:ILE:HG23	3	0.25
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	3	0.24
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	19	0.24
(1,631)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	4	0.24
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	5	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	7	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	8	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	9	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	10	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	11	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	13	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	14	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	15	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	16	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	20	0.23
(1,896)	1:130:A:LEU:HD11	1:162:A:TYR:HE2	7	0.23
(1,896)	1:130:A:LEU:HD12	1:162:A:TYR:HE2	7	0.23
(1,896)	1:130:A:LEU:HD13	1:162:A:TYR:HE2	7	0.23
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	7	0.23
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	2	0.22
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	4	0.22
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	6	0.22
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	12	0.22
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	19	0.22
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	10	0.22
(1,1821)	1:175:A:PHE:HE1	1:217:A:GLN:H	15	0.21
(1,1777)	1:145:A:TYR:HB3	1:145:A:TYR:HD1	18	0.21
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	1	0.2
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	14	0.2
(1,497)	1:162:A:TYR:HE1	1:186:A:GLN:HG2	14	0.2
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	9	0.19
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	9	0.19
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	9	0.19
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	9	0.19
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	9	0.19
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	9	0.19
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	14	0.19
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	12	0.19
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	4	0.19
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	4	0.19
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	4	0.19
(1,1837)	1:122:A:VAL:HG21	1:162:A:TYR:HE1	11	0.18
(1,1837)	1:122:A:VAL:HG22	1:162:A:TYR:HE1	11	0.18
(1,1837)	1:122:A:VAL:HG23	1:162:A:TYR:HE1	11	0.18
(1,1789)	1:163:A:TYR:HD1	1:217:A:GLN:HG3	13	0.18
(1,1713)	1:225:A:TYR:H	1:225:A:TYR:HD1	8	0.18
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	2	0.18
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	2	0.18
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	2	0.18
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	15	0.18
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	15	0.18
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	15	0.18
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	19	0.18
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	19	0.18
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	19	0.18
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	7	0.18
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	11	0.18
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	20	0.18
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	20	0.18
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	20	0.18
(1,1820)	1:175:A:PHE:HE1	1:217:A:GLN:HG3	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	13	0.17
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	13	0.17
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	13	0.17
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	17	0.17
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	17	0.17
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	17	0.17
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	20	0.17
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	20	0.17
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	20	0.17
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	10	0.17
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	16	0.17
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	16	0.17
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	16	0.17
(1,1713)	1:225:A:TYR:H	1:225:A:TYR:HD1	17	0.16
(1,653)	1:162:A:TYR:HB3	1:162:A:TYR:HE2	19	0.16
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	3	0.16
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	3	0.16
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	3	0.16
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	3	0.16
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	3	0.16
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	3	0.16
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	3	0.16
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	3	0.16
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	3	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	2	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	2	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	2	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	3	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	3	0.16
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	3	0.16
(1,1480)	1:217:A:GLN:HE22	1:221:A:GLU:H	9	0.15
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	1	0.15
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	1	0.15
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	1	0.15
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	5	0.15
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	5	0.15
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	5	0.15
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	10	0.15
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	10	0.15
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	10	0.15
(1,1333)	1:179:A:CYS:HA	1:181:A:ASN:HD22	4	0.15
(1,1873)	1:125:A:LEU:HD11	1:127:A:GLY:HA3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:125:A:LEU:HD12	1:127:A:GLY:HA3	18	0.14
(1,1873)	1:125:A:LEU:HD13	1:127:A:GLY:HA3	18	0.14
(1,1873)	1:125:A:LEU:HD21	1:127:A:GLY:HA3	18	0.14
(1,1873)	1:125:A:LEU:HD22	1:127:A:GLY:HA3	18	0.14
(1,1873)	1:125:A:LEU:HD23	1:127:A:GLY:HA3	18	0.14
(1,1752)	1:128:A:TYR:HE1	1:182:A:ILE:HB	12	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	8	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	8	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	8	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	10	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	10	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	10	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	15	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	15	0.14
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	15	0.14
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	9	0.14
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	9	0.14
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	9	0.14
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	14	0.14
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	14	0.14
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	14	0.14
(1,668)	1:162:A:TYR:HA	1:162:A:TYR:HE2	14	0.14
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	2	0.14
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	2	0.14
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	2	0.14
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	2	0.14
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	2	0.14
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	2	0.14
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	2	0.14
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	2	0.14
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	2	0.14
(1,1908)	1:197:A:ASN:HD21	1:199:A:THR:HA	13	0.13
(1,1908)	1:197:A:ASN:HD22	1:199:A:THR:HA	13	0.13
(1,1873)	1:125:A:LEU:HD11	1:127:A:GLY:HA3	3	0.13
(1,1873)	1:125:A:LEU:HD12	1:127:A:GLY:HA3	3	0.13
(1,1873)	1:125:A:LEU:HD13	1:127:A:GLY:HA3	3	0.13
(1,1873)	1:125:A:LEU:HD21	1:127:A:GLY:HA3	3	0.13
(1,1873)	1:125:A:LEU:HD22	1:127:A:GLY:HA3	3	0.13
(1,1873)	1:125:A:LEU:HD23	1:127:A:GLY:HA3	3	0.13
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	18	0.13
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	18	0.13
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	6	0.13
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	6	0.13
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	6	0.13
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	16	0.13
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	16	0.13
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	16	0.13
(1,540)	1:183:A:THR:HG21	1:210:A:ILE:HG12	4	0.13
(1,540)	1:183:A:THR:HG22	1:210:A:ILE:HG12	4	0.13
(1,540)	1:183:A:THR:HG23	1:210:A:ILE:HG12	4	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	6	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	6	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	6	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	6	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	6	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	6	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	6	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	6	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	6	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	9	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	9	0.13
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	9	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	9	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	9	0.13
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	9	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	9	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	9	0.13
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	9	0.13
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	5	0.13
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	5	0.13
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	5	0.13
(1,1897)	1:172:A:GLN:HG2	1:218:A:TYR:HE1	17	0.12
(1,1897)	1:172:A:GLN:HG3	1:218:A:TYR:HE1	17	0.12
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE1	16	0.12
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE2	16	0.12
(1,1741)	1:128:A:TYR:HD1	1:129:A:MET:HE3	16	0.12
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	4	0.12
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	4	0.12
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	4	0.12
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	8	0.12
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	8	0.12
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	8	0.12
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	11	0.12
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	11	0.12
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	12	0.12
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	12	0.12
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	12	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	1	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	1	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	1	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	1	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	1	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	1	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	1	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	1	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	1	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD11	20	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD12	20	0.12
(1,471)	1:188:A:THR:HG21	1:210:A:ILE:HD13	20	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD11	20	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD12	20	0.12
(1,471)	1:188:A:THR:HG22	1:210:A:ILE:HD13	20	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD11	20	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD12	20	0.12
(1,471)	1:188:A:THR:HG23	1:210:A:ILE:HD13	20	0.12
(1,467)	1:189:A:VAL:HG11	1:190:A:THR:HG21	8	0.12
(1,467)	1:189:A:VAL:HG11	1:190:A:THR:HG22	8	0.12
(1,467)	1:189:A:VAL:HG11	1:190:A:THR:HG23	8	0.12
(1,467)	1:189:A:VAL:HG12	1:190:A:THR:HG21	8	0.12
(1,467)	1:189:A:VAL:HG12	1:190:A:THR:HG22	8	0.12
(1,467)	1:189:A:VAL:HG12	1:190:A:THR:HG23	8	0.12
(1,467)	1:189:A:VAL:HG13	1:190:A:THR:HG21	8	0.12
(1,467)	1:189:A:VAL:HG13	1:190:A:THR:HG22	8	0.12
(1,467)	1:189:A:VAL:HG13	1:190:A:THR:HG23	8	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	9	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	9	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	9	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	13	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	13	0.12
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	13	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG21	4	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG22	4	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG23	4	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG21	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG22	5	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG23	5	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG21	10	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG22	10	0.12
(1,246)	1:137:A:PRO:HA	1:209:A:VAL:HG23	10	0.12
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE1	18	0.12
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE2	18	0.12
(1,168)	1:213:A:MET:HA	1:213:A:MET:HE3	18	0.12
(1,1901)	1:191:A:THR:HG21	1:194:A:LYS:HE2	4	0.11
(1,1901)	1:191:A:THR:HG21	1:194:A:LYS:HE3	4	0.11
(1,1901)	1:191:A:THR:HG22	1:194:A:LYS:HE2	4	0.11
(1,1901)	1:191:A:THR:HG22	1:194:A:LYS:HE3	4	0.11
(1,1901)	1:191:A:THR:HG23	1:194:A:LYS:HE2	4	0.11
(1,1901)	1:191:A:THR:HG23	1:194:A:LYS:HE3	4	0.11
(1,1876)	1:125:A:LEU:HD11	1:128:A:TYR:HE2	16	0.11
(1,1876)	1:125:A:LEU:HD12	1:128:A:TYR:HE2	16	0.11
(1,1876)	1:125:A:LEU:HD13	1:128:A:TYR:HE2	16	0.11
(1,1876)	1:125:A:LEU:HD21	1:128:A:TYR:HE2	16	0.11
(1,1876)	1:125:A:LEU:HD22	1:128:A:TYR:HE2	16	0.11
(1,1876)	1:125:A:LEU:HD23	1:128:A:TYR:HE2	16	0.11
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	18	0.11
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	18	0.11
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	18	0.11
(1,812)	1:139:A:ILE:HG21	1:208:A:ARG:HG3	15	0.11
(1,812)	1:139:A:ILE:HG22	1:208:A:ARG:HG3	15	0.11
(1,812)	1:139:A:ILE:HG23	1:208:A:ARG:HG3	15	0.11
(1,595)	1:122:A:VAL:HG21	1:124:A:GLY:HA2	2	0.11
(1,595)	1:122:A:VAL:HG22	1:124:A:GLY:HA2	2	0.11
(1,595)	1:122:A:VAL:HG23	1:124:A:GLY:HA2	2	0.11
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG21	10	0.11
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG22	10	0.11
(1,564)	1:128:A:TYR:HE1	1:182:A:ILE:HG23	10	0.11
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	3	0.1
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	3	0.1
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	3	0.1
(1,1478)	1:191:A:THR:HG21	1:196:A:GLU:H	7	0.1
(1,1478)	1:191:A:THR:HG22	1:196:A:GLU:H	7	0.1
(1,1478)	1:191:A:THR:HG23	1:196:A:GLU:H	7	0.1
(1,1333)	1:179:A:CYS:HA	1:181:A:ASN:HD22	13	0.1
(1,895)	1:130:A:LEU:HD11	1:162:A:TYR:HD2	10	0.1
(1,895)	1:130:A:LEU:HD12	1:162:A:TYR:HD2	10	0.1
(1,895)	1:130:A:LEU:HD13	1:162:A:TYR:HD2	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	6	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	6	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	6	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	14	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	14	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	14	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE1	15	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE2	15	0.1
(1,338)	1:201:A:THR:HA	1:205:A:MET:HE3	15	0.1

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

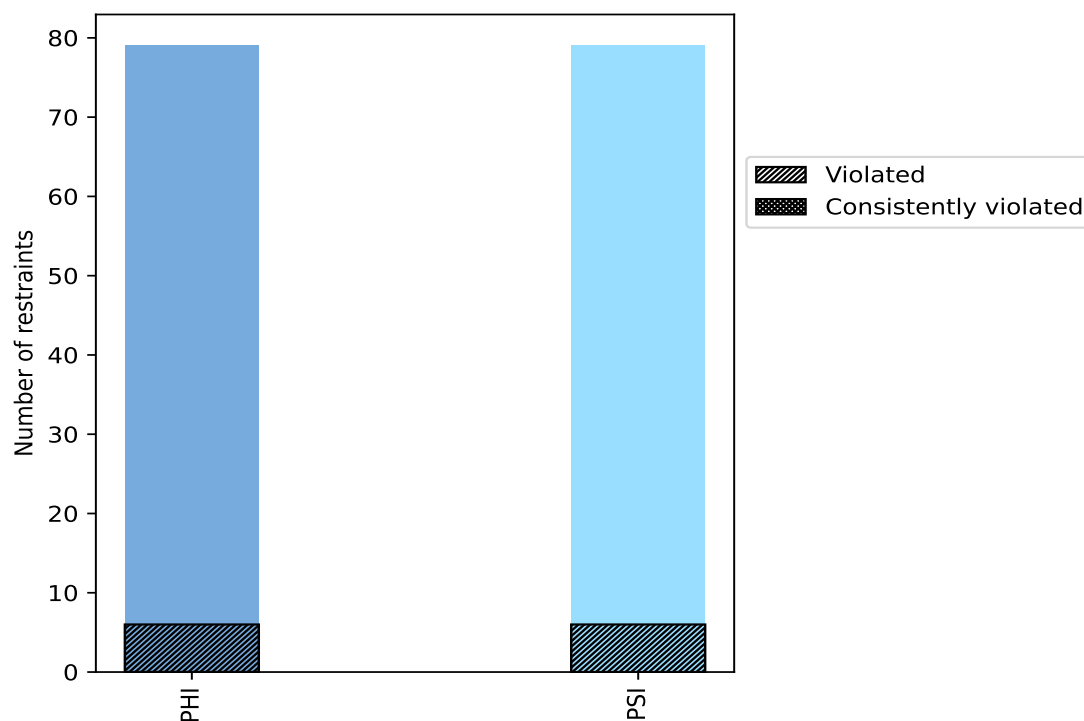
10.1 Summary of dihedral-angle violations [i](#)

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	79	50.0	6	7.6	3.8	0	0.0	0.0
PSI	79	50.0	6	7.6	3.8	0	0.0	0.0
Total	158	100.0	12	7.6	7.6	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](#)



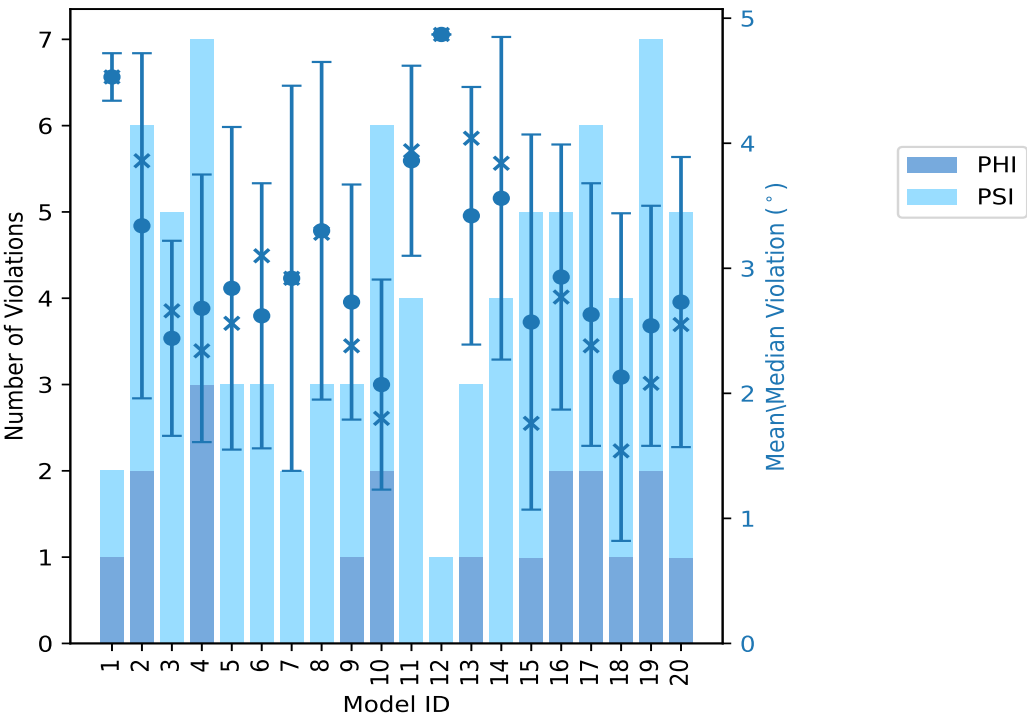
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	1	1	2	4.53	4.72	0.19	4.53
2	2	4	6	3.34	5.07	1.38	3.86
3	0	5	5	2.44	3.34	0.78	2.66
4	3	4	7	2.68	4.55	1.07	2.34
5	0	3	3	2.84	4.55	1.29	2.56
6	0	3	3	2.62	3.61	1.06	3.1
7	0	2	2	2.92	4.45	1.54	2.92
8	0	3	3	3.3	4.96	1.35	3.28
9	1	2	3	2.73	4.01	0.94	2.38
10	2	4	6	2.07	3.28	0.84	1.8
11	0	4	4	3.86	4.73	0.76	3.94
12	0	1	1	4.87	4.87	0.0	4.87
13	1	2	3	3.42	4.24	1.03	4.04
14	0	4	4	3.56	4.8	1.29	3.84
15	1	4	5	2.57	4.97	1.5	1.76
16	2	3	5	2.93	4.51	1.06	2.77
17	2	4	6	2.63	4.82	1.05	2.38
18	1	3	4	2.13	4.38	1.31	1.54
19	2	5	7	2.54	3.84	0.96	2.08
20	1	4	5	2.73	4.38	1.16	2.55

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
2	0	2	1	5.0
0	1	1	2	10.0
1	1	2	3	15.0
2	0	2	4	20.0
0	0	0	5	25.0
1	0	1	6	30.0
0	0	0	7	35.0
0	0	0	8	40.0
0	0	0	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

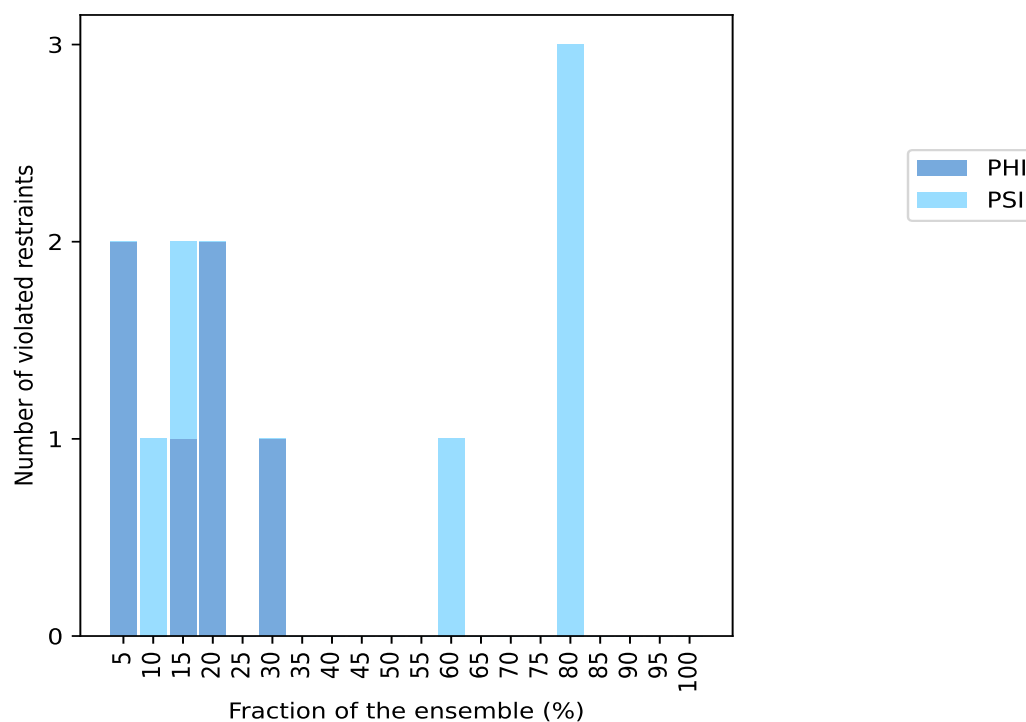
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
0	1	1	12	60.0
0	0	0	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	3	3	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ

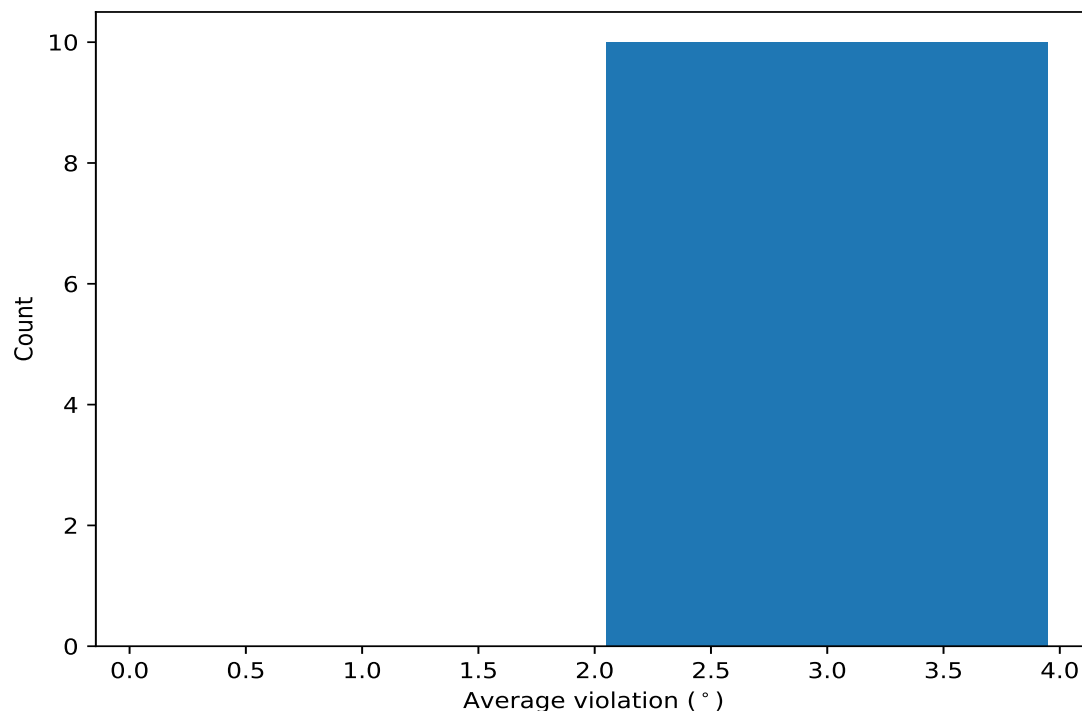


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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.

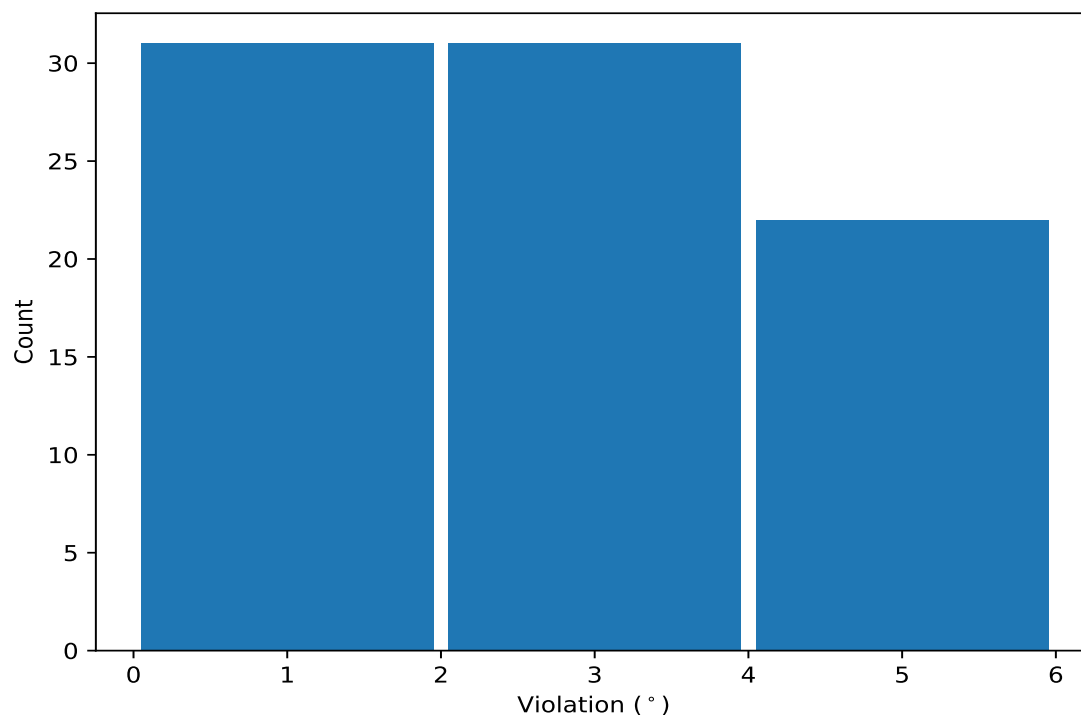
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	16	3.68	0.92	3.76
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	16	2.65	1.35	1.96
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	16	2.3	1.18	1.79
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	12	2.72	1.19	2.66
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	6	3.29	0.6	3.58
(1,101)	1:198:A:PHE:C	1:199:A:THR:N	1:199:A:THR:CA	1:199:A:THR:C	4	3.16	1.25	3.15
(1,157)	1:226:A:TYR:C	1:227:A:GLN:N	1:227:A:GLN:CA	1:227:A:GLN:C	4	3.16	1.47	3.4
(1,45)	1:158:A:PRO:C	1:159:A:ASN:N	1:159:A:ASN:CA	1:159:A:ASN:C	3	2.48	1.11	1.88
(1,50)	1:162:A:TYR:N	1:162:A:TYR:CA	1:162:A:TYR:C	1:163:A:TYR:N	3	2.47	0.82	2.77
(1,22)	1:145:A:TYR:N	1:145:A:TYR:CA	1:145:A:TYR:C	1:146:A:GLU:N	2	3.74	0.64	3.74

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 (°)
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	2	5.07
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	15	4.97
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	8	4.96
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	12	4.87
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	17	4.82
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	14	4.8
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	14	4.77
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	11	4.73
(1,157)	1:226:A:TYR:C	1:227:A:GLN:N	1:227:A:GLN:CA	1:227:A:GLN:C	1	4.72
(1,101)	1:198:A:PHE:C	1:199:A:THR:N	1:199:A:THR:CA	1:199:A:THR:C	4	4.55
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	5	4.55
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	16	4.51
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	7	4.45
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	11	4.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,157)	1:226:A:TYR:C	1:227:A:GLN:N	1:227:A:GLN:CA	1:227:A:GLN:C	18	4.38
(1,22)	1:145:A:TYR:N	1:145:A:TYR:CA	1:145:A:TYR:C	1:146:A:GLU:N	20	4.38
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	1	4.33
(1,101)	1:198:A:PHE:C	1:199:A:THR:N	1:199:A:THR:CA	1:199:A:THR:C	2	4.26
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	13	4.24
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	2	4.14
(1,45)	1:158:A:PRO:C	1:159:A:ASN:N	1:159:A:ASN:CA	1:159:A:ASN:C	13	4.04
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	9	4.01
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	4	3.93
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	19	3.84
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	16	3.73
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	15	3.68
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	20	3.66
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	6	3.61
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	2	3.58
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	19	3.58
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	11	3.49
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	19	3.43
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	3	3.34
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	10	3.28
(1,50)	1:162:A:TYR:N	1:162:A:TYR:CA	1:162:A:TYR:C	1:163:A:TYR:N	8	3.28
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	10	3.13
(1,22)	1:145:A:TYR:N	1:145:A:TYR:CA	1:145:A:TYR:C	1:146:A:GLU:N	3	3.11
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	6	3.1
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	14	2.9
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	11	2.81
(1,50)	1:162:A:TYR:N	1:162:A:TYR:CA	1:162:A:TYR:C	1:163:A:TYR:N	16	2.77
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	17	2.76
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	3	2.66
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	4	2.56
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	5	2.56
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	20	2.55
(1,157)	1:226:A:TYR:C	1:227:A:GLN:N	1:227:A:GLN:CA	1:227:A:GLN:C	17	2.43
(1,115)	1:205:A:MET:C	1:206:A:MET:N	1:206:A:MET:CA	1:206:A:MET:C	9	2.38
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	4	2.34
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	17	2.33
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	4	2.26
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	19	2.08
(1,101)	1:198:A:PHE:C	1:199:A:THR:N	1:199:A:THR:CA	1:199:A:THR:C	16	2.04
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	13	1.97
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	17	1.94
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	20	1.9
(1,45)	1:158:A:PRO:C	1:159:A:ASN:N	1:159:A:ASN:CA	1:159:A:ASN:C	4	1.88
(1,25)	1:146:A:GLU:C	1:147:A:ASP:N	1:147:A:ASP:CA	1:147:A:ASP:C	10	1.84
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	2	1.82
(1,101)	1:198:A:PHE:C	1:199:A:THR:N	1:199:A:THR:CA	1:199:A:THR:C	19	1.81
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	3	1.81
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	9	1.79
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	14	1.77
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	15	1.76
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	10	1.75

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	19	1.71
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	8	1.65
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	16	1.62
(1,40)	1:155:A:HIS:N	1:155:A:HIS:CA	1:155:A:HIS:C	1:156:A:ARG:N	18	1.6
(1,45)	1:158:A:PRO:C	1:159:A:ASN:N	1:159:A:ASN:CA	1:159:A:ASN:C	17	1.52
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	18	1.48
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	5	1.42
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	10	1.39
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	7	1.38
(1,50)	1:162:A:TYR:N	1:162:A:TYR:CA	1:162:A:TYR:C	1:163:A:TYR:N	19	1.35
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	15	1.35
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	3	1.29
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	4	1.26
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	2	1.19
(1,36)	1:153:A:ASN:N	1:153:A:ASN:CA	1:153:A:ASN:C	1:154:A:MET:N	20	1.18
(1,52)	1:163:A:TYR:N	1:163:A:TYR:CA	1:163:A:TYR:C	1:164:A:ARG:N	6	1.15
(1,157)	1:226:A:TYR:C	1:227:A:GLN:N	1:227:A:GLN:CA	1:227:A:GLN:C	15	1.11
(1,58)	1:173:A:ASN:N	1:173:A:ASN:CA	1:173:A:ASN:C	1:174:A:ASN:N	18	1.07
(1,127)	1:211:A:GLU:C	1:212:A:GLN:N	1:212:A:GLN:CA	1:212:A:GLN:C	10	1.05