



Full wwPDB NMR Structure Validation Report ⓘ

Mar 9, 2026 – 09:15 PM UTC

PDB ID : 6BER / pdb_00006ber
BMRB ID : 30360
Title : Solution structure of de novo macrocycle design10.2
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Deposited on : 2017-10-25

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 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

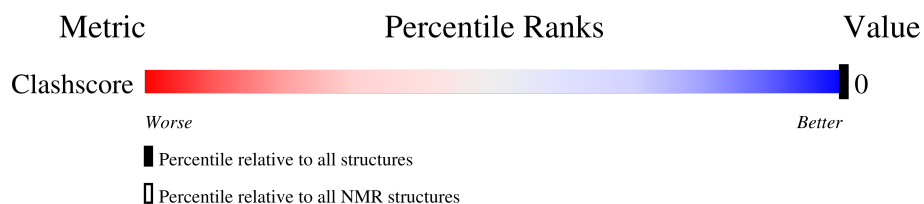
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 49%.

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

Molprobrity failed to run

2 Ensemble composition and analysis ⓘ

This entry contains 20 models. This entry does not contain polypeptide chains, therefore identification of well-defined residues and clustering analysis are not possible. All residues are included in the validation scores.

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 142 atoms, of which 65 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein (with D amino acids) called E(DVA)DP(DGL)(DHI)(DPR)N(DAL)(DPR).

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
1	A	10	142	47	65	13	17	0

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

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

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.2 Score per residue for model 2

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.3 Score per residue for model 3

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.4 Score per residue for model 4

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.5 Score per residue for model 5

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.6 Score per residue for model 6

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.7 Score per residue for model 7

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.8 Score per residue for model 8

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.9 Score per residue for model 9

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.10 Score per residue for model 10

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.11 Score per residue for model 11

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.12 Score per residue for model 12

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.13 Score per residue for model 13

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.14 Score per residue for model 14

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.15 Score per residue for model 15

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.16 Score per residue for model 16

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.17 Score per residue for model 17

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.18 Score per residue for model 18

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.19 Score per residue for model 19

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

4.2.20 Score per residue for model 20

There is no protein, DNA or RNA molecules in this entry to show sequence plots.

5 Refinement protocol and experimental data overview

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

Of the 200 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
GROMACS	refinement	2016.1
X-PLOR NIH	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	50
Number of shifts mapped to atoms	50
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	49%

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DPR, DGL, DHI, DVA, DAL

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	0.51±0.04	0±0/30 (0.0± 0.0%)	1.96±0.31	1±1/37 (2.3± 2.5%)
All	All	0.51	0/600 (0.0%)	1.98	17/740 (2.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.1±0.3
All	All	0	2

There are no bond-length outliers.

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	8	ASN	OD1-CG-ND2	-8.69	113.91	122.60	14	2
1	A	3	ASP	CA-CB-CG	7.72	120.32	112.60	1	4
1	A	8	ASN	CA-CB-CG	7.41	120.01	112.60	17	3
1	A	4	PRO	N-CA-CB	7.41	111.15	103.00	1	4
1	A	4	PRO	CA-N-CD	-5.63	104.11	112.00	1	1
1	A	3	ASP	O-C-N	-5.53	114.15	123.00	12	1
1	A	8	ASN	CA-C-O	-5.38	111.65	120.80	5	2

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	7	DPR	Mainchain	1
1	A	1	GLU	Peptide	1

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
All	All	1540	1300	1108	-

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

There are no clashes.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

6.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

6 non-standard protein/DNA/RNA residues are modelled in this entry.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 49% for the well-defined parts and 49% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: `marie_bmrbl.txt`

7.1.1 Bookkeeping

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	50
Number of shifts mapped to atoms	50
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

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 49%, i.e. 22 atoms were assigned a chemical shift out of a possible 45. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	6/18 (33%)	6/7 (86%)	0/8 (0%)	0/3 (0%)
Sidechain	16/27 (59%)	16/16 (100%)	0/10 (0%)	0/1 (0%)
Overall	22/45 (49%)	22/23 (96%)	0/18 (0%)	0/4 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 49%, i.e. 22 atoms were assigned a chemical shift out of a possible 45. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	6/18 (33%)	6/7 (86%)	0/8 (0%)	0/3 (0%)
Sidechain	16/27 (59%)	16/16 (100%)	0/10 (0%)	0/1 (0%)
Overall	22/45 (49%)	22/23 (96%)	0/18 (0%)	0/4 (0%)

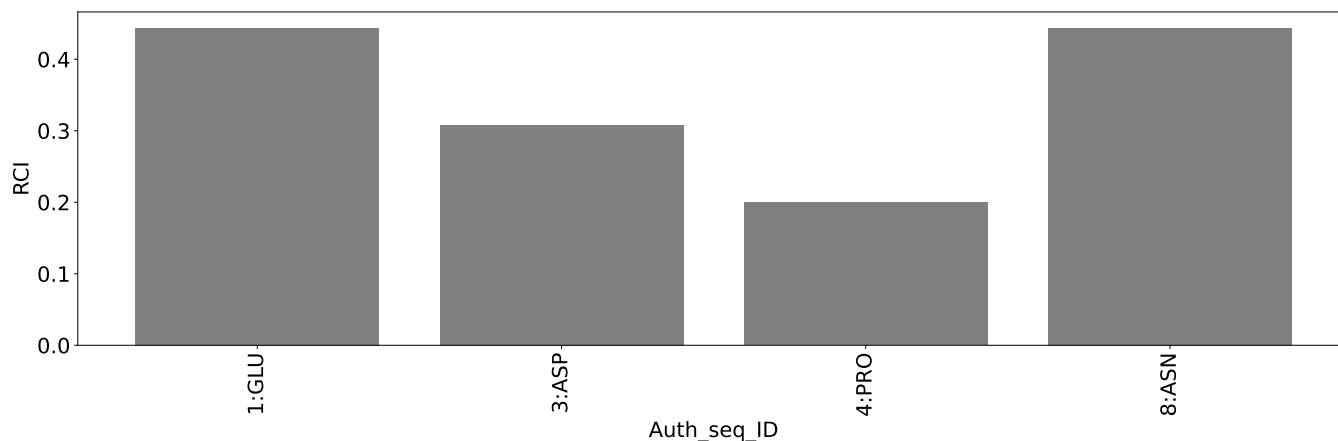
7.1.4 Statistically unusual chemical shifts [i](#)

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	202
Intra-residue ($ i-j =0$)	68
Sequential ($ i-j =1$)	89
Medium range ($ i-j >1$ and $ i-j <5$)	32
Long range ($ i-j \geq 5$)	13
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	20.2
Number of long range restraints per residue ¹	1.3

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)	7.5	0.2
0.2-0.5 (Medium)	11.1	0.5
>0.5 (Large)	4.0	1.56

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

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

9 Distance violation analysis ⓘ

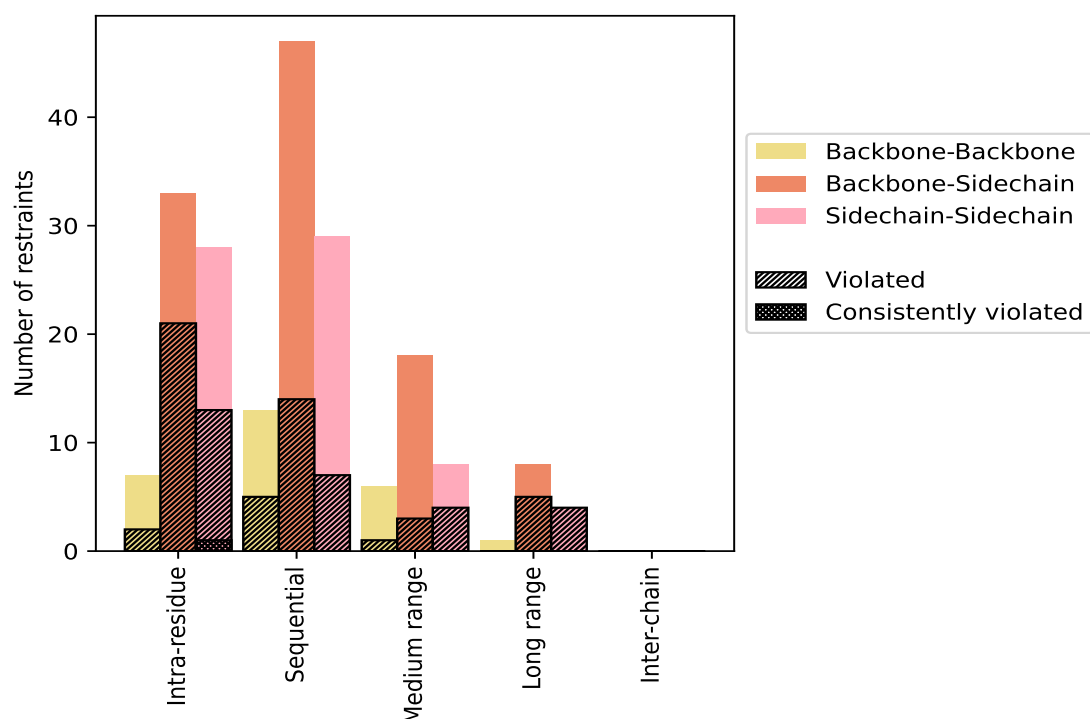
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	68	33.7	36	52.9	17.8	1	1.5	0.5
Backbone-Backbone	7	3.5	2	28.6	1.0	0	0.0	0.0
Backbone-Sidechain	33	16.3	21	63.6	10.4	0	0.0	0.0
Sidechain-Sidechain	28	13.9	13	46.4	6.4	1	3.6	0.5
Sequential (i-j =1)	89	44.1	26	29.2	12.9	0	0.0	0.0
Backbone-Backbone	13	6.4	5	38.5	2.5	0	0.0	0.0
Backbone-Sidechain	47	23.3	14	29.8	6.9	0	0.0	0.0
Sidechain-Sidechain	29	14.4	7	24.1	3.5	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	32	15.8	8	25.0	4.0	0	0.0	0.0
Backbone-Backbone	6	3.0	1	16.7	0.5	0	0.0	0.0
Backbone-Sidechain	18	8.9	3	16.7	1.5	0	0.0	0.0
Sidechain-Sidechain	8	4.0	4	50.0	2.0	0	0.0	0.0
Long range (i-j ≥5)	13	6.4	9	69.2	4.5	0	0.0	0.0
Backbone-Backbone	1	0.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	8	4.0	5	62.5	2.5	0	0.0	0.0
Sidechain-Sidechain	4	2.0	4	100.0	2.0	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	202	100.0	79	39.1	39.1	1	0.5	0.5
Backbone-Backbone	27	13.4	8	29.6	4.0	0	0.0	0.0
Backbone-Sidechain	106	52.5	43	40.6	21.3	0	0.0	0.0
Sidechain-Sidechain	69	34.2	28	40.6	13.9	1	1.4	0.5

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	14	9	1	4	0	28	0.27	0.57	0.14	0.23
2	11	9	2	1	0	23	0.28	0.62	0.14	0.27
3	9	6	2	4	0	21	0.49	1.56	0.32	0.36
4	13	10	1	1	0	25	0.35	1.02	0.21	0.27
5	11	10	1	1	0	23	0.37	1.11	0.25	0.34
6	12	6	3	1	0	22	0.34	0.86	0.22	0.24
7	12	10	3	1	0	26	0.31	1.3	0.26	0.2
8	10	5	3	3	0	21	0.36	1.16	0.26	0.23
9	9	5	1	2	0	17	0.33	0.74	0.18	0.28
10	13	8	2	0	0	23	0.3	0.59	0.13	0.32

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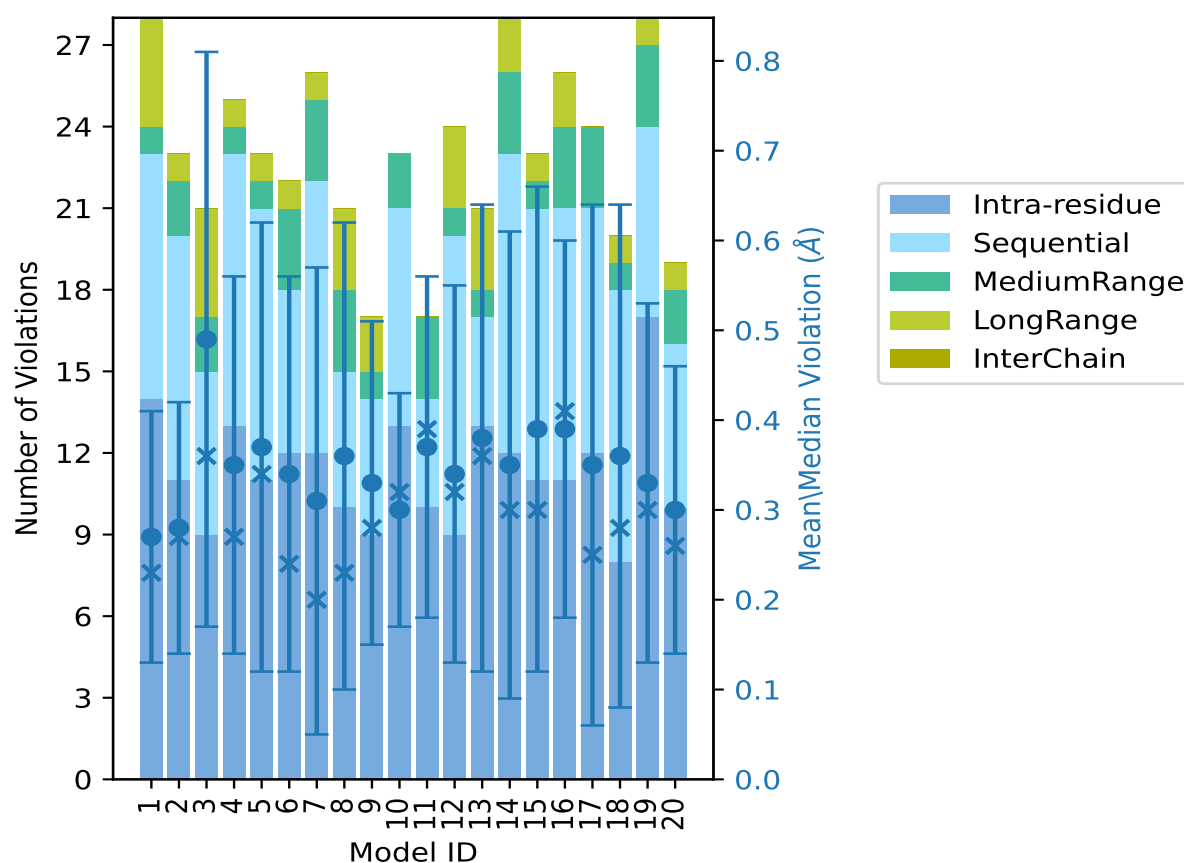
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	10	4	3	0	0	17	0.37	0.88	0.19	0.39
12	9	11	1	3	0	24	0.34	0.98	0.21	0.32
13	13	4	1	3	0	21	0.38	1.18	0.26	0.36
14	12	11	3	2	0	28	0.35	1.34	0.26	0.3
15	11	10	1	1	0	23	0.39	1.36	0.27	0.3
16	11	10	3	2	0	26	0.39	0.91	0.21	0.41
17	12	9	3	0	0	24	0.35	1.33	0.29	0.25
18	8	10	1	1	0	20	0.36	1.3	0.28	0.28
19	17	7	3	1	0	28	0.33	1.03	0.2	0.3
20	10	6	2	1	0	19	0.3	0.65	0.16	0.26

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

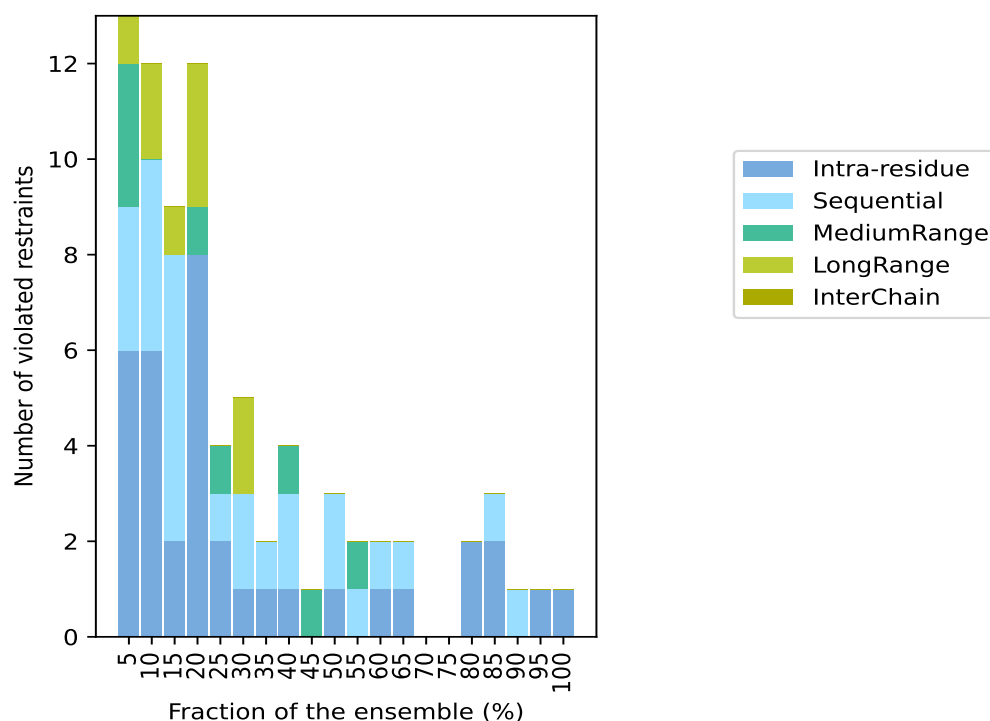
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 123(IR:32, SQ:63, MR:24, LR:4, IC:0) restraints are not violated in the ensemble.

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

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

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

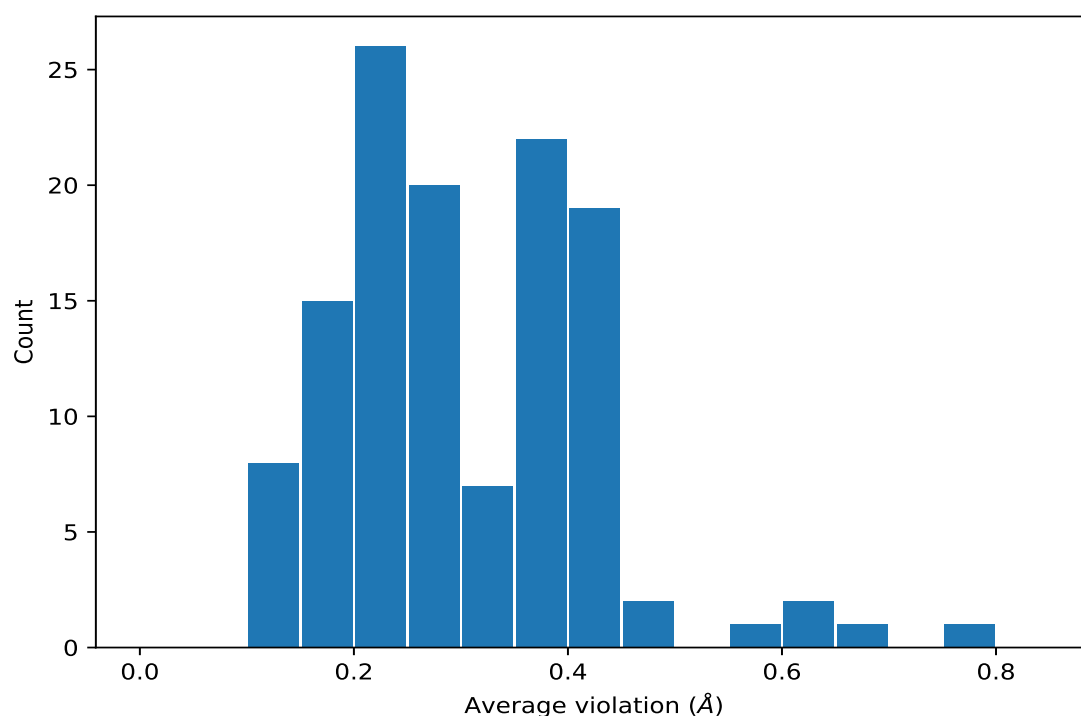
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	20	0.41	0.04	0.41
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	19	0.4	0.18	0.38
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	18	0.21	0.07	0.21
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	17	0.77	0.29	0.82
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	17	0.41	0.13	0.4
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	17	0.2	0.04	0.2
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	17	0.2	0.04	0.2
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	17	0.2	0.04	0.2
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	16	0.56	0.15	0.62
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	16	0.19	0.07	0.18
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	16	0.19	0.07	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	16	0.19	0.07	0.18
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	16	0.19	0.07	0.18
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	16	0.19	0.07	0.18
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	16	0.19	0.07	0.18
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	13	0.16	0.05	0.17
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	12	0.42	0.07	0.42
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	12	0.21	0.07	0.18
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	11	0.36	0.16	0.36
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	11	0.36	0.16	0.36
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	11	0.36	0.16	0.36
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	11	0.22	0.11	0.2
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	10	0.48	0.12	0.5
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	10	0.38	0.09	0.34
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	10	0.37	0.17	0.36
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	9	0.42	0.12	0.42
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	8	0.3	0.15	0.28
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	8	0.21	0.04	0.21
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	8	0.21	0.04	0.21
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	8	0.21	0.04	0.21
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	8	0.21	0.14	0.16
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	8	0.19	0.09	0.14
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	7	0.2	0.11	0.14
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	6	0.42	0.12	0.35
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	6	0.42	0.12	0.35
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	6	0.27	0.1	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	6	0.27	0.1	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	6	0.27	0.1	0.27
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	6	0.14	0.05	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	6	0.14	0.05	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	6	0.14	0.05	0.12
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	6	0.14	0.04	0.12
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	6	0.14	0.04	0.12
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	5	0.46	0.22	0.46
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	5	0.44	0.12	0.43
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	5	0.36	0.17	0.43
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	5	0.21	0.07	0.2
(1,41)	1:2:A:DVA:HG11	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,41)	1:2:A:DVA:HG12	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,41)	1:2:A:DVA:HG13	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,41)	1:2:A:DVA:HG21	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,41)	1:2:A:DVA:HG22	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,41)	1:2:A:DVA:HG23	1:2:A:DVA:H	4	0.37	0.13	0.37
(1,56)	1:2:A:DVA:HG11	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,56)	1:2:A:DVA:HG12	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,56)	1:2:A:DVA:HG13	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,56)	1:2:A:DVA:HG21	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,56)	1:2:A:DVA:HG22	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,56)	1:2:A:DVA:HG23	1:6:A:DHI:HD2	4	0.36	0.19	0.32
(1,67)	1:3:A:ASP:HB2	1:9:A:DAL:H	4	0.36	0.07	0.39
(1,74)	1:3:A:ASP:HB3	1:9:A:DAL:H	4	0.34	0.15	0.33
(1,165)	1:8:A:ASN:HB3	1:8:A:ASN:HD21	4	0.32	0.13	0.35
(1,178)	1:9:A:DAL:HB1	1:3:A:ASP:H	4	0.32	0.2	0.23
(1,178)	1:9:A:DAL:HB2	1:3:A:ASP:H	4	0.32	0.2	0.23
(1,178)	1:9:A:DAL:HB3	1:3:A:ASP:H	4	0.32	0.2	0.23
(1,89)	1:4:A:PRO:HD2	1:4:A:PRO:HB2	4	0.26	0.06	0.25
(1,190)	1:10:A:DPR:HB3	1:10:A:DPR:HD3	4	0.21	0.07	0.22
(1,195)	1:10:A:DPR:HD3	1:10:A:DPR:HB3	4	0.21	0.07	0.22
(1,141)	1:7:A:DPR:HD3	1:7:A:DPR:HB3	4	0.21	0.01	0.21
(1,101)	1:5:A:DGL:HB2	1:5:A:DGL:H	4	0.2	0.06	0.18
(1,9)	1:5:A:DGL:HA	1:5:A:DGL:H	4	0.15	0.02	0.15
(1,170)	1:8:A:ASN:HD21	1:8:A:ASN:H	3	0.64	0.1	0.65
(1,129)	1:7:A:DPR:HB3	1:8:A:ASN:HD21	3	0.61	0.23	0.57
(1,176)	1:9:A:DAL:HB1	1:3:A:ASP:HB2	3	0.39	0.11	0.32
(1,176)	1:9:A:DAL:HB2	1:3:A:ASP:HB2	3	0.39	0.11	0.32

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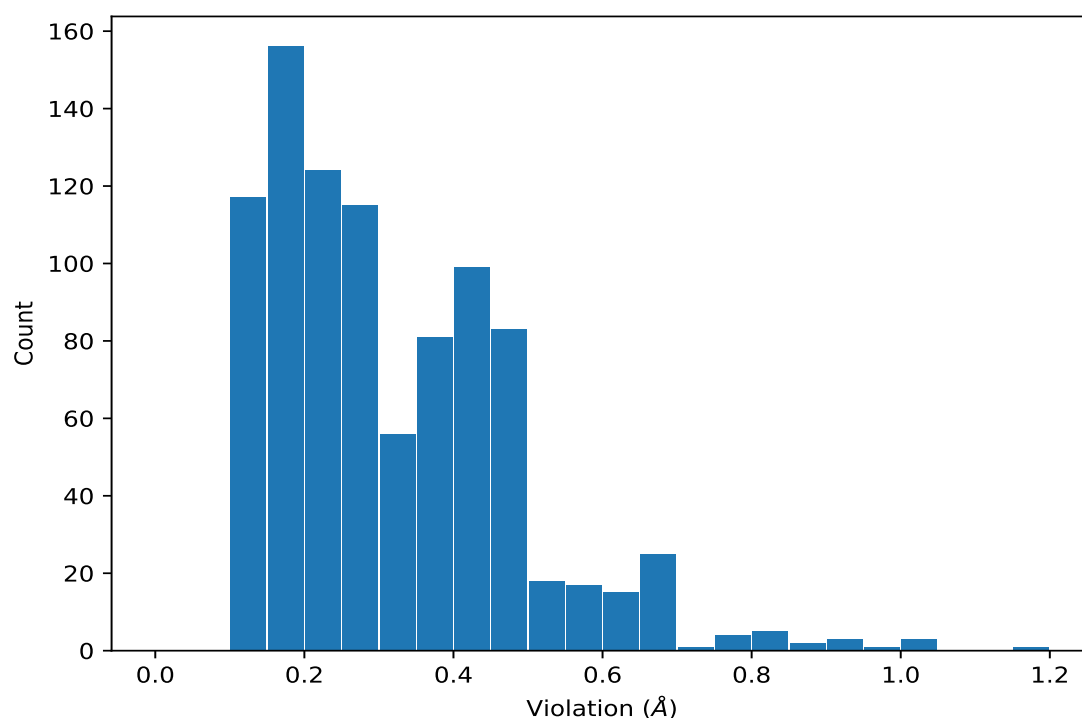
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,176)	1:9:A:DAL:HB3	1:3:A:ASP:HB2	3	0.39	0.11	0.32
(1,107)	1:5:A:DGL:HB2	1:6:A:DHI:HD2	3	0.22	0.09	0.23
(1,36)	1:1:A:GLU:HG2	1:2:A:DVA:H	3	0.21	0.11	0.16
(1,36)	1:1:A:GLU:HG3	1:2:A:DVA:H	3	0.21	0.11	0.16
(1,100)	1:5:A:DGL:HB3	1:5:A:DGL:H	3	0.16	0.03	0.14
(1,197)	1:10:A:DPR:HD2	1:9:A:DAL:HA	3	0.16	0.03	0.17
(1,62)	1:3:A:ASP:HB2	1:4:A:PRO:HA	3	0.14	0.01	0.14
(1,76)	1:4:A:PRO:HA	1:3:A:ASP:HB2	3	0.14	0.01	0.14
(1,73)	1:3:A:ASP:HB3	1:8:A:ASN:H	2	0.69	0.06	0.69
(1,66)	1:3:A:ASP:HB2	1:8:A:ASN:H	2	0.42	0.04	0.42
(1,159)	1:8:A:ASN:HB2	1:8:A:ASN:HA	2	0.31	0.13	0.31
(1,105)	1:5:A:DGL:HB3	1:6:A:DHI:HD2	2	0.28	0.06	0.28
(1,42)	1:2:A:DVA:HG11	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,42)	1:2:A:DVA:HG12	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,42)	1:2:A:DVA:HG13	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,42)	1:2:A:DVA:HG21	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,42)	1:2:A:DVA:HG22	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,42)	1:2:A:DVA:HG23	1:3:A:ASP:H	2	0.22	0.02	0.22
(1,156)	1:8:A:ASN:HB2	1:8:A:ASN:H	2	0.2	0.04	0.2
(1,125)	1:6:A:DHI:HD2	1:5:A:DGL:H	2	0.19	0.07	0.19
(1,83)	1:4:A:PRO:HB3	1:4:A:PRO:HD3	2	0.17	0.04	0.17
(1,97)	1:4:A:PRO:HD3	1:4:A:PRO:HB3	2	0.17	0.04	0.17
(1,187)	1:10:A:DPR:HD3	1:10:A:DPR:HG3	2	0.15	0.03	0.15
(1,139)	1:7:A:DPR:HD3	1:6:A:DHI:H	2	0.13	0.02	0.13

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)
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	8	1.16
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	17	1.03
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	19	1.03
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	4	1.02
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	5	0.99
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	18	0.94
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	7	0.93
(1,129)	1:7:A:DPR:HB3	1:8:A:ASN:HD21	16	0.91
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	11	0.88
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	6	0.86
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	3	0.82
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	12	0.82
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	14	0.82
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	13	0.8
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	6	0.8
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	3	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	14	0.76
(1,170)	1:8:A:ASN:HD21	1:8:A:ASN:H	3	0.76
(1,73)	1:3:A:ASP:HB3	1:8:A:ASN:H	8	0.75
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	9	0.74
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	16	0.68
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	4	0.67
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	8	0.67
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	17	0.67
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	19	0.66
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	19	0.66
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	19	0.66
(1,178)	1:9:A:DAL:HB1	1:3:A:ASP:H	3	0.66
(1,178)	1:9:A:DAL:HB2	1:3:A:ASP:H	3	0.66
(1,178)	1:9:A:DAL:HB3	1:3:A:ASP:H	3	0.66
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	15	0.66
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	15	0.66
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	9	0.65
(1,170)	1:8:A:ASN:HD21	1:8:A:ASN:H	6	0.65
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	3	0.65
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	13	0.65
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	15	0.65
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	20	0.65
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	17	0.65
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	3	0.65
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	3	0.65
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	3	0.65
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	3	0.65
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	3	0.65
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	3	0.65
(1,56)	1:2:A:DVA:HG11	1:6:A:DHI:HD2	16	0.64
(1,56)	1:2:A:DVA:HG12	1:6:A:DHI:HD2	16	0.64
(1,56)	1:2:A:DVA:HG13	1:6:A:DHI:HD2	16	0.64
(1,56)	1:2:A:DVA:HG21	1:6:A:DHI:HD2	16	0.64
(1,56)	1:2:A:DVA:HG22	1:6:A:DHI:HD2	16	0.64
(1,56)	1:2:A:DVA:HG23	1:6:A:DHI:HD2	16	0.64
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	11	0.63
(1,73)	1:3:A:ASP:HB3	1:8:A:ASN:H	3	0.63
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	13	0.62
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	6	0.62
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	2	0.62
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	8	0.61
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	16	0.6
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	15	0.6
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	10	0.59
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	15	0.58
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	15	0.58
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	15	0.58
(1,129)	1:7:A:DPR:HB3	1:8:A:ASN:HD21	1	0.57
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	1	0.57
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	19	0.56
(1,176)	1:9:A:DAL:HB1	1:3:A:ASP:HB2	13	0.55
(1,176)	1:9:A:DAL:HB2	1:3:A:ASP:HB2	13	0.55
(1,176)	1:9:A:DAL:HB3	1:3:A:ASP:HB2	13	0.55
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	20	0.55
(1,41)	1:2:A:DVA:HG11	1:2:A:DVA:H	19	0.55
(1,41)	1:2:A:DVA:HG12	1:2:A:DVA:H	19	0.55
(1,41)	1:2:A:DVA:HG13	1:2:A:DVA:H	19	0.55
(1,41)	1:2:A:DVA:HG21	1:2:A:DVA:H	19	0.55
(1,41)	1:2:A:DVA:HG22	1:2:A:DVA:H	19	0.55
(1,41)	1:2:A:DVA:HG23	1:2:A:DVA:H	19	0.55
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	4	0.54
(1,74)	1:3:A:ASP:HB3	1:9:A:DAL:H	8	0.53
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	12	0.53
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	16	0.53
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	15	0.52
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	11	0.52
(1,170)	1:8:A:ASN:HD21	1:8:A:ASN:H	11	0.51
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	8	0.51
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	16	0.51
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	16	0.51
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	5	0.51
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	19	0.5
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	4	0.5
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	4	0.5
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	4	0.5
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	4	0.5
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	4	0.5
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	4	0.5
(1,167)	1:8:A:ASN:HB3	1:8:A:ASN:H	2	0.49
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	9	0.49
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	10	0.49
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	1	0.49
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	6	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	4	0.49
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	13	0.48
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	14	0.48
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	4	0.48
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	4	0.48
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	4	0.48
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	4	0.48
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	4	0.48
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	4	0.48
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	4	0.48
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	4	0.48
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	16	0.48
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	16	0.48
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	16	0.48
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	16	0.48
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	16	0.48
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	16	0.48
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	5	0.48
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	16	0.47
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	16	0.47
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	16	0.47
(1,165)	1:8:A:ASN:HB3	1:8:A:ASN:HD21	16	0.47
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	12	0.47
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	11	0.47
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	18	0.47
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	6	0.47
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	6	0.47
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	6	0.47
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	6	0.47
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	6	0.47
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	6	0.47
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	7	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	2	0.46
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	5	0.46
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	11	0.46
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	11	0.46
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	11	0.46
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	11	0.46
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	11	0.46
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	11	0.46
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	12	0.46
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	14	0.46
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	14	0.46
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	14	0.46
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	14	0.46
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	14	0.46
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	14	0.46
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	14	0.45
(1,74)	1:3:A:ASP:HB3	1:9:A:DAL:H	3	0.45
(1,66)	1:3:A:ASP:HB2	1:8:A:ASN:H	16	0.45
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	1	0.45
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	7	0.45
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	17	0.45
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	17	0.45
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	17	0.45
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	17	0.45
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	17	0.45
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	17	0.45
(1,159)	1:8:A:ASN:HB2	1:8:A:ASN:HA	2	0.44
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	18	0.44
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	10	0.44
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	7	0.44
(1,56)	1:2:A:DVA:HG11	1:6:A:DHI:HD2	10	0.44
(1,56)	1:2:A:DVA:HG12	1:6:A:DHI:HD2	10	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:2:A:DVA:HG13	1:6:A:DHI:HD2	10	0.44
(1,56)	1:2:A:DVA:HG21	1:6:A:DHI:HD2	10	0.44
(1,56)	1:2:A:DVA:HG22	1:6:A:DHI:HD2	10	0.44
(1,56)	1:2:A:DVA:HG23	1:6:A:DHI:HD2	10	0.44
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	11	0.44
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	5	0.43
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	2	0.43
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	10	0.43
(1,41)	1:2:A:DVA:HG11	1:2:A:DVA:H	9	0.43
(1,41)	1:2:A:DVA:HG12	1:2:A:DVA:H	9	0.43
(1,41)	1:2:A:DVA:HG13	1:2:A:DVA:H	9	0.43
(1,41)	1:2:A:DVA:HG21	1:2:A:DVA:H	9	0.43
(1,41)	1:2:A:DVA:HG22	1:2:A:DVA:H	9	0.43
(1,41)	1:2:A:DVA:HG23	1:2:A:DVA:H	9	0.43
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	16	0.43
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	18	0.43
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	18	0.43
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	18	0.43
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	18	0.43
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	18	0.43
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	18	0.43
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	7	0.43
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	18	0.43
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	11	0.42
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	11	0.42
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	11	0.42
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	10	0.42
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	8	0.42
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	17	0.42
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	17	0.42
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	17	0.42
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	17	0.42
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	17	0.42
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	5	0.42
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	20	0.42
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	20	0.42
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	20	0.42
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	20	0.42
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	20	0.42
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	20	0.42
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	7	0.41
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	14	0.41
(1,67)	1:3:A:ASP:HB2	1:9:A:DAL:H	1	0.41
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	12	0.41
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	4	0.41
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	8	0.41
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	9	0.41
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	9	0.41
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	9	0.41
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	9	0.41
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	9	0.41
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	9	0.41
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	12	0.41
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	1	0.4
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	3	0.4
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	19	0.4
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	7	0.4
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	20	0.4
(1,67)	1:3:A:ASP:HB2	1:9:A:DAL:H	13	0.4
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	13	0.4
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	2	0.4
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	2	0.4
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	2	0.4
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	2	0.4
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	2	0.4
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	13	0.4
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	13	0.4
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	13	0.4
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	13	0.4
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	13	0.4
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	13	0.4
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	16	0.39
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	14	0.39
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	5	0.39
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	11	0.39
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	11	0.39
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	11	0.39
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	11	0.39
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	11	0.39
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	11	0.39
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	6	0.39
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	5	0.39
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	6	0.39
(1,177)	1:9:A:DAL:HB1	1:3:A:ASP:HB3	2	0.38
(1,177)	1:9:A:DAL:HB2	1:3:A:ASP:HB3	2	0.38
(1,177)	1:9:A:DAL:HB3	1:3:A:ASP:HB3	2	0.38
(1,67)	1:3:A:ASP:HB2	1:9:A:DAL:H	14	0.38
(1,66)	1:3:A:ASP:HB2	1:8:A:ASN:H	15	0.38
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	20	0.38
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	19	0.38
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	19	0.38
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	19	0.38
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	19	0.38
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	19	0.38
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	19	0.38
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	10	0.38
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	10	0.38
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	10	0.38
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	10	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	10	0.38
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	10	0.38
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	12	0.38
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	12	0.38
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	12	0.38
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	12	0.38
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	12	0.38
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	12	0.38
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	14	0.38
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	6	0.37
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	4	0.37
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	4	0.37
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	4	0.37
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	4	0.37
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	4	0.37
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	4	0.37
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	13	0.37
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	20	0.37
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	10	0.36
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	10	0.36
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	10	0.36
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	14	0.36
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	14	0.36
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	14	0.36
(1,165)	1:8:A:ASN:HB3	1:8:A:ASN:HD21	18	0.36
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	9	0.36
(1,129)	1:7:A:DPR:HB3	1:8:A:ASN:HD21	18	0.36
(1,89)	1:4:A:PRO:HD2	1:4:A:PRO:HB2	13	0.36
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	2	0.36
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	2	0.36
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	3	0.36
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	19	0.36
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	19	0.36
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	19	0.36
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	19	0.36
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	19	0.36
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:1:A:GLU:HG2	1:2:A:DVA:H	4	0.36
(1,36)	1:1:A:GLU:HG3	1:2:A:DVA:H	4	0.36
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	17	0.36
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	16	0.35
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	19	0.35
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	10	0.35
(1,165)	1:8:A:ASN:HB3	1:8:A:ASN:HD21	1	0.34
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	19	0.34
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	15	0.34
(1,105)	1:5:A:DGL:HB3	1:6:A:DHI:HD2	18	0.34
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	3	0.34
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	5	0.34
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	5	0.34
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	10	0.34
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	3	0.33
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	3	0.33
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	3	0.33
(1,160)	1:8:A:ASN:HB2	1:8:A:ASN:HD21	12	0.33
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	12	0.33
(1,87)	1:4:A:PRO:HD2	1:3:A:ASP:HB3	14	0.33
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	12	0.33
(1,70)	1:3:A:ASP:HB3	1:4:A:PRO:HD2	14	0.33
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	1	0.33
(1,176)	1:9:A:DAL:HB1	1:3:A:ASP:HB2	14	0.32
(1,176)	1:9:A:DAL:HB2	1:3:A:ASP:HB2	14	0.32
(1,176)	1:9:A:DAL:HB3	1:3:A:ASP:HB2	14	0.32
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	10	0.32
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	12	0.32
(1,157)	1:8:A:ASN:HA	1:8:A:ASN:HD21	1	0.32
(1,107)	1:5:A:DGL:HB2	1:6:A:DHI:HD2	3	0.32
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	20	0.32
(1,40)	1:2:A:DVA:HG11	1:2:A:DVA:HB	15	0.32
(1,40)	1:2:A:DVA:HG12	1:2:A:DVA:HB	15	0.32
(1,40)	1:2:A:DVA:HG13	1:2:A:DVA:HB	15	0.32
(1,40)	1:2:A:DVA:HG21	1:2:A:DVA:HB	15	0.32
(1,40)	1:2:A:DVA:HG22	1:2:A:DVA:HB	15	0.32
(1,40)	1:2:A:DVA:HG23	1:2:A:DVA:HB	15	0.32
(1,33)	1:1:A:GLU:HB3	1:1:A:GLU:HA	17	0.32
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	16	0.32
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	17	0.31
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	19	0.31
(1,101)	1:5:A:DGL:HB2	1:5:A:DGL:H	15	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	9	0.31
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	9	0.31
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	9	0.31
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	9	0.31
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	9	0.31
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	9	0.31
(1,41)	1:2:A:DVA:HG11	1:2:A:DVA:H	2	0.31
(1,41)	1:2:A:DVA:HG12	1:2:A:DVA:H	2	0.31
(1,41)	1:2:A:DVA:HG13	1:2:A:DVA:H	2	0.31
(1,41)	1:2:A:DVA:HG21	1:2:A:DVA:H	2	0.31
(1,41)	1:2:A:DVA:HG22	1:2:A:DVA:H	2	0.31
(1,41)	1:2:A:DVA:HG23	1:2:A:DVA:H	2	0.31
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	3	0.31
(1,195)	1:10:A:DPR:HD3	1:10:A:DPR:HB3	19	0.3
(1,190)	1:10:A:DPR:HB3	1:10:A:DPR:HD3	19	0.3
(1,176)	1:9:A:DAL:HB1	1:3:A:ASP:HB2	1	0.3
(1,176)	1:9:A:DAL:HB2	1:3:A:ASP:HB2	1	0.3
(1,176)	1:9:A:DAL:HB3	1:3:A:ASP:HB2	1	0.3
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	2	0.3
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	15	0.3
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	14	0.29
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	14	0.29
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	14	0.29
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	19	0.29
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	5	0.29
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	4	0.29
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	16	0.29
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	16	0.29
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	16	0.29
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	16	0.29
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	16	0.29
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	16	0.29
(1,32)	1:1:A:GLU:HB2	1:2:A:DVA:H	10	0.29
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	7	0.28
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	7	0.28
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	7	0.28
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	18	0.28
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	19	0.28
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	15	0.28
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	9	0.28
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	9	0.28
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	9	0.28
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	9	0.28
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	9	0.28
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	9	0.28
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	9	0.28
(1,178)	1:9:A:DAL:HB1	1:3:A:ASP:H	13	0.27
(1,178)	1:9:A:DAL:HB2	1:3:A:ASP:H	13	0.27
(1,178)	1:9:A:DAL:HB3	1:3:A:ASP:H	13	0.27
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	15	0.27
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	16	0.27
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	1	0.27
(1,104)	1:5:A:DGL:HB3	1:5:A:DGL:HA	4	0.27
(1,68)	1:3:A:ASP:HB3	1:2:A:DVA:HA	2	0.27
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	17	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	5	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	5	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	5	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	5	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	5	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	5	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	5	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	18	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	18	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	18	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	18	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	18	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	18	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	18	0.27
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	18	0.27
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	17	0.27
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	10	0.26
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	11	0.26
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	11	0.26
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	11	0.26
(1,125)	1:6:A:DHI:HD2	1:5:A:DGL:H	20	0.26
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	15	0.26
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	3	0.26
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	3	0.26
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	3	0.26
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	1	0.26
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	8	0.26
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	20	0.26
(1,188)	1:10:A:DPR:HA	1:10:A:DPR:HG3	10	0.25
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	19	0.25
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	19	0.25
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	19	0.25
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	3	0.25
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	3	0.25
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	3	0.25
(1,156)	1:8:A:ASN:HB2	1:8:A:ASN:H	11	0.25
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	18	0.25
(1,89)	1:4:A:PRO:HD2	1:4:A:PRO:HB2	4	0.25
(1,89)	1:4:A:PRO:HD2	1:4:A:PRO:HB2	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	14	0.25
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	20	0.25
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	20	0.25
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	20	0.25
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	20	0.25
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	20	0.25
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	20	0.25
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	4	0.25
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	9	0.25
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	15	0.24
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	7	0.24
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	7	0.24
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	7	0.24
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	20	0.24
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	20	0.24
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	20	0.24
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	6	0.24
(1,67)	1:3:A:ASP:HB2	1:9:A:DAL:H	12	0.24
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	6	0.24
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	11	0.24
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	3	0.24
(1,195)	1:10:A:DPR:HD3	1:10:A:DPR:HB3	1	0.23
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	12	0.23
(1,190)	1:10:A:DPR:HB3	1:10:A:DPR:HD3	1	0.23
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	6	0.23
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	6	0.23
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	6	0.23
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	13	0.23
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	13	0.23
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	13	0.23
(1,107)	1:5:A:DGL:HB2	1:6:A:DHI:HD2	17	0.23
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	5	0.23
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	5	0.23
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	8	0.23
(1,42)	1:2:A:DVA:HG11	1:3:A:ASP:H	4	0.23
(1,42)	1:2:A:DVA:HG12	1:3:A:ASP:H	4	0.23
(1,42)	1:2:A:DVA:HG13	1:3:A:ASP:H	4	0.23
(1,42)	1:2:A:DVA:HG21	1:3:A:ASP:H	4	0.23
(1,42)	1:2:A:DVA:HG22	1:3:A:ASP:H	4	0.23
(1,42)	1:2:A:DVA:HG23	1:3:A:ASP:H	4	0.23
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	7	0.23
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	7	0.23
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	7	0.23
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	7	0.23
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	7	0.23
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	8	0.23
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	19	0.23
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	4	0.22
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	4	0.22
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	4	0.22
(1,141)	1:7:A:DPR:HD3	1:7:A:DPR:HB3	16	0.22
(1,105)	1:5:A:DGL:HB3	1:6:A:DHI:HD2	6	0.22
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	13	0.22
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	13	0.22
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	13	0.22
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	13	0.22
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	13	0.22
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	13	0.22
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	17	0.22
(1,180)	1:9:A:DAL:HB1	1:5:A:DGL:H	17	0.21
(1,180)	1:9:A:DAL:HB2	1:5:A:DGL:H	17	0.21
(1,180)	1:9:A:DAL:HB3	1:5:A:DGL:H	17	0.21
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	10	0.21
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	10	0.21
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	10	0.21
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	16	0.21
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	16	0.21
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	16	0.21
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	15	0.21
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	15	0.21
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	15	0.21
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	12	0.21
(1,141)	1:7:A:DPR:HD3	1:7:A:DPR:HB3	4	0.21
(1,141)	1:7:A:DPR:HD3	1:7:A:DPR:HB3	11	0.21
(1,100)	1:5:A:DGL:HB3	1:5:A:DGL:H	7	0.21
(1,97)	1:4:A:PRO:HD3	1:4:A:PRO:HB3	8	0.21
(1,83)	1:4:A:PRO:HB3	1:4:A:PRO:HD3	8	0.21
(1,74)	1:3:A:ASP:HB3	1:9:A:DAL:H	9	0.21
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	3	0.21
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	3	0.21
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	3	0.21
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	3	0.21
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	3	0.21
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	10	0.21
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	13	0.21
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	19	0.21
(1,195)	1:10:A:DPR:HD3	1:10:A:DPR:HB3	14	0.2
(1,190)	1:10:A:DPR:HB3	1:10:A:DPR:HD3	14	0.2
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	15	0.2
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	15	0.2
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	15	0.2
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	8	0.2
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	8	0.2
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	8	0.2
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	10	0.2
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	10	0.2
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	10	0.2
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	14	0.2
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	14	0.2
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	14	0.2
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	17	0.2
(1,141)	1:7:A:DPR:HD3	1:7:A:DPR:HB3	15	0.2
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	2	0.2
(1,56)	1:2:A:DVA:HG11	1:6:A:DHI:HD2	7	0.2
(1,56)	1:2:A:DVA:HG12	1:6:A:DHI:HD2	7	0.2
(1,56)	1:2:A:DVA:HG13	1:6:A:DHI:HD2	7	0.2
(1,56)	1:2:A:DVA:HG21	1:6:A:DHI:HD2	7	0.2
(1,56)	1:2:A:DVA:HG22	1:6:A:DHI:HD2	7	0.2
(1,56)	1:2:A:DVA:HG23	1:6:A:DHI:HD2	7	0.2
(1,42)	1:2:A:DVA:HG11	1:3:A:ASP:H	18	0.2
(1,42)	1:2:A:DVA:HG12	1:3:A:ASP:H	18	0.2
(1,42)	1:2:A:DVA:HG13	1:3:A:ASP:H	18	0.2
(1,42)	1:2:A:DVA:HG21	1:3:A:ASP:H	18	0.2
(1,42)	1:2:A:DVA:HG22	1:3:A:ASP:H	18	0.2
(1,42)	1:2:A:DVA:HG23	1:3:A:ASP:H	18	0.2
(1,41)	1:2:A:DVA:HG11	1:2:A:DVA:H	5	0.2
(1,41)	1:2:A:DVA:HG12	1:2:A:DVA:H	5	0.2
(1,41)	1:2:A:DVA:HG13	1:2:A:DVA:H	5	0.2
(1,41)	1:2:A:DVA:HG21	1:2:A:DVA:H	5	0.2
(1,41)	1:2:A:DVA:HG22	1:2:A:DVA:H	5	0.2
(1,41)	1:2:A:DVA:HG23	1:2:A:DVA:H	5	0.2
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	14	0.2
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	14	0.2
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	14	0.2
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	14	0.2
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	14	0.2
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	14	0.2
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	12	0.2
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	14	0.2
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	9	0.2
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	1	0.19
(1,197)	1:10:A:DPR:HD2	1:9:A:DAL:HA	7	0.19
(1,178)	1:9:A:DAL:HB1	1:3:A:ASP:H	12	0.19
(1,178)	1:9:A:DAL:HB2	1:3:A:ASP:H	12	0.19
(1,178)	1:9:A:DAL:HB3	1:3:A:ASP:H	12	0.19
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	17	0.19
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	17	0.19
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	17	0.19
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	2	0.19
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	7	0.19
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	7	0.19
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	7	0.19
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	7	0.19
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	7	0.19
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	7	0.19
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	7	0.19
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	7	0.19
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	17	0.19
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	17	0.19
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	17	0.19
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	17	0.19
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	17	0.19
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	17	0.19
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	9	0.19
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:10:A:DPR:HD3	1:10:A:DPR:HG3	9	0.18
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	2	0.18
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	2	0.18
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	2	0.18
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	1	0.18
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	1	0.18
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	1	0.18
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	12	0.18
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	12	0.18
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	12	0.18
(1,159)	1:8:A:ASN:HB2	1:8:A:ASN:HA	19	0.18
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	12	0.18
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	18	0.18
(1,101)	1:5:A:DGL:HB2	1:5:A:DGL:H	6	0.18
(1,89)	1:4:A:PRO:HD2	1:4:A:PRO:HB2	1	0.18
(1,55)	1:2:A:DVA:HG11	1:6:A:DHI:HB2	7	0.18
(1,55)	1:2:A:DVA:HG12	1:6:A:DHI:HB2	7	0.18
(1,55)	1:2:A:DVA:HG13	1:6:A:DHI:HB2	7	0.18
(1,55)	1:2:A:DVA:HG21	1:6:A:DHI:HB2	7	0.18
(1,55)	1:2:A:DVA:HG22	1:6:A:DHI:HB2	7	0.18
(1,55)	1:2:A:DVA:HG23	1:6:A:DHI:HB2	7	0.18
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	8	0.18
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	8	0.18
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	8	0.18
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	8	0.18
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	8	0.18
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	8	0.18
(1,38)	1:2:A:DVA:HB	1:3:A:ASP:H	11	0.18
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	7	0.18
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	11	0.18
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	3	0.18
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	5	0.18
(1,202)	1:10:A:DPR:HG3	1:9:A:DAL:H	2	0.17
(1,197)	1:10:A:DPR:HD2	1:9:A:DAL:HA	1	0.17
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	6	0.17
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	6	0.17
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	6	0.17
(1,153)	1:7:A:DPR:HD2	1:7:A:DPR:HB2	7	0.17
(1,132)	1:7:A:DPR:HB2	1:7:A:DPR:HD2	7	0.17
(1,101)	1:5:A:DGL:HB2	1:5:A:DGL:H	20	0.17
(1,80)	1:4:A:PRO:HB2	1:5:A:DGL:H	5	0.17
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	9	0.17
(1,74)	1:3:A:ASP:HB3	1:9:A:DAL:H	6	0.17
(1,56)	1:2:A:DVA:HG11	1:6:A:DHI:HD2	11	0.17
(1,56)	1:2:A:DVA:HG12	1:6:A:DHI:HD2	11	0.17
(1,56)	1:2:A:DVA:HG13	1:6:A:DHI:HD2	11	0.17
(1,56)	1:2:A:DVA:HG21	1:6:A:DHI:HD2	11	0.17
(1,56)	1:2:A:DVA:HG22	1:6:A:DHI:HD2	11	0.17
(1,56)	1:2:A:DVA:HG23	1:6:A:DHI:HD2	11	0.17
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	15	0.17
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	15	0.17
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	15	0.17
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	15	0.17
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	15	0.17
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	15	0.17
(1,9)	1:5:A:DGL:HA	1:5:A:DGL:H	17	0.17
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	4	0.17
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	1	0.17
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	17	0.16
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	17	0.16
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	17	0.16
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	5	0.16
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	5	0.16
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	5	0.16
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	18	0.16
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	18	0.16
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	18	0.16
(1,156)	1:8:A:ASN:HB2	1:8:A:ASN:H	6	0.16
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	20	0.16
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	1	0.16
(1,101)	1:5:A:DGL:HB2	1:5:A:DGL:H	11	0.16
(1,76)	1:4:A:PRO:HA	1:3:A:ASP:HB2	19	0.16
(1,62)	1:3:A:ASP:HB2	1:4:A:PRO:HA	19	0.16
(1,61)	1:3:A:ASP:HB2	1:3:A:ASP:H	16	0.16
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	10	0.16
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	10	0.16
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	10	0.16
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	10	0.16
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	10	0.16
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	10	0.16
(1,36)	1:1:A:GLU:HG2	1:2:A:DVA:H	5	0.16
(1,36)	1:1:A:GLU:HG3	1:2:A:DVA:H	5	0.16
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	15	0.16
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	20	0.16
(1,9)	1:5:A:DGL:HA	1:5:A:DGL:H	4	0.16
(1,181)	1:9:A:DAL:HB1	1:6:A:DHI:HB2	20	0.15
(1,181)	1:9:A:DAL:HB2	1:6:A:DHI:HB2	20	0.15
(1,181)	1:9:A:DAL:HB3	1:6:A:DHI:HB2	20	0.15
(1,173)	1:9:A:DAL:HB1	1:9:A:DAL:H	13	0.15
(1,173)	1:9:A:DAL:HB2	1:9:A:DAL:H	13	0.15
(1,173)	1:9:A:DAL:HB3	1:9:A:DAL:H	13	0.15
(1,164)	1:8:A:ASN:HB3	1:8:A:ASN:HA	4	0.15
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	6	0.15
(1,139)	1:7:A:DPR:HD3	1:6:A:DHI:H	7	0.15
(1,126)	1:6:A:DHI:HD2	1:6:A:DHI:H	19	0.15
(1,109)	1:5:A:DGL:HG3	1:5:A:DGL:H	5	0.15
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG11	1:9:A:DAL:HB3	19	0.15
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG12	1:9:A:DAL:HB3	19	0.15
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG13	1:9:A:DAL:HB3	19	0.15
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG21	1:9:A:DAL:HB3	19	0.15
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG22	1:9:A:DAL:HB3	19	0.15
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB1	19	0.15
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB2	19	0.15
(1,58)	1:2:A:DVA:HG23	1:9:A:DAL:HB3	19	0.15
(1,29)	1:1:A:GLU:HG2	1:1:A:GLU:HA	19	0.15
(1,29)	1:1:A:GLU:HG3	1:1:A:GLU:HA	19	0.15
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	16	0.15
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	18	0.15
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	6	0.15
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	2	0.14
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	4	0.14
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	10	0.14
(1,178)	1:9:A:DAL:HB1	1:3:A:ASP:H	1	0.14
(1,178)	1:9:A:DAL:HB2	1:3:A:ASP:H	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:9:A:DAL:HB3	1:3:A:ASP:H	1	0.14
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	19	0.14
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	19	0.14
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	19	0.14
(1,149)	1:7:A:DPR:HD2	1:6:A:DHI:HD2	17	0.14
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	4	0.14
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	13	0.14
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	14	0.14
(1,100)	1:5:A:DGL:HB3	1:5:A:DGL:H	13	0.14
(1,100)	1:5:A:DGL:HB3	1:5:A:DGL:H	14	0.14
(1,76)	1:4:A:PRO:HA	1:3:A:ASP:HB2	4	0.14
(1,62)	1:3:A:ASP:HB2	1:4:A:PRO:HA	4	0.14
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	1	0.14
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	18	0.14
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	19	0.14
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	19	0.14
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	19	0.14
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	19	0.14
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	19	0.14
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	19	0.14
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	15	0.14
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	18	0.14
(1,9)	1:5:A:DGL:HA	1:5:A:DGL:H	16	0.14
(1,172)	1:9:A:DAL:HB1	1:9:A:DAL:HA	6	0.13
(1,172)	1:9:A:DAL:HB2	1:9:A:DAL:HA	6	0.13
(1,172)	1:9:A:DAL:HB3	1:9:A:DAL:HA	6	0.13
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	1	0.13
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	14	0.13
(1,97)	1:4:A:PRO:HD3	1:4:A:PRO:HB3	2	0.13
(1,83)	1:4:A:PRO:HB3	1:4:A:PRO:HD3	2	0.13
(1,76)	1:4:A:PRO:HA	1:3:A:ASP:HB2	7	0.13
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	13	0.13
(1,62)	1:3:A:ASP:HB2	1:4:A:PRO:HA	7	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	8	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	8	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	8	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	12	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	12	0.13
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	12	0.13
(1,43)	1:2:A:DVA:HB	1:6:A:DHI:HB3	1	0.13
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	10	0.13
(1,9)	1:5:A:DGL:HA	1:5:A:DGL:H	15	0.13
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	19	0.13
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	6	0.13
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	10	0.13
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	12	0.13
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	17	0.13
(1,197)	1:10:A:DPR:HD2	1:9:A:DAL:HA	14	0.12
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	9	0.12
(1,187)	1:10:A:DPR:HD3	1:10:A:DPR:HG3	2	0.12
(1,165)	1:8:A:ASN:HB3	1:8:A:ASN:HD21	17	0.12
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	8	0.12
(1,138)	1:7:A:DPR:HD3	1:6:A:DHI:HD2	2	0.12
(1,125)	1:6:A:DHI:HD2	1:5:A:DGL:H	7	0.12
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	2	0.12
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	2	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	1	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	1	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	1	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	16	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	16	0.12
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	16	0.12
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	8	0.12
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	1	0.12
(1,13)	1:6:A:DHI:HA	1:8:A:ASN:H	20	0.12
(1,195)	1:10:A:DPR:HD3	1:10:A:DPR:HB3	13	0.11
(1,192)	1:10:A:DPR:HD3	1:9:A:DAL:HA	17	0.11
(1,190)	1:10:A:DPR:HB3	1:10:A:DPR:HD3	13	0.11
(1,146)	1:7:A:DPR:HD2	1:6:A:DHI:HA	16	0.11
(1,139)	1:7:A:DPR:HD3	1:6:A:DHI:H	3	0.11
(1,107)	1:5:A:DGL:HB2	1:6:A:DHI:HD2	5	0.11
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	10	0.11
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB1	20	0.11
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB2	20	0.11
(1,45)	1:2:A:DVA:HB	1:9:A:DAL:HB3	20	0.11
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	9	0.11
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	9	0.11
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	9	0.11
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	9	0.11
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	9	0.11
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	9	0.11
(1,36)	1:1:A:GLU:HG2	1:2:A:DVA:H	7	0.11
(1,36)	1:1:A:GLU:HG3	1:2:A:DVA:H	7	0.11
(1,26)	1:9:A:DAL:H	1:8:A:ASN:H	12	0.11
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	1	0.11
(1,22)	1:2:A:DVA:H	1:3:A:ASP:H	14	0.11
(1,7)	1:4:A:PRO:HA	1:5:A:DGL:H	20	0.11
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	16	0.11
(1,145)	1:7:A:DPR:HD2	1:5:A:DGL:H	8	0.1
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG2	14	0.1
(1,75)	1:4:A:PRO:HD2	1:4:A:PRO:HG3	14	0.1
(1,65)	1:3:A:ASP:HB2	1:6:A:DHI:H	8	0.1
(1,39)	1:2:A:DVA:HG11	1:2:A:DVA:HA	12	0.1
(1,39)	1:2:A:DVA:HG12	1:2:A:DVA:HA	12	0.1
(1,39)	1:2:A:DVA:HG13	1:2:A:DVA:HA	12	0.1
(1,39)	1:2:A:DVA:HG21	1:2:A:DVA:HA	12	0.1
(1,39)	1:2:A:DVA:HG22	1:2:A:DVA:HA	12	0.1
(1,39)	1:2:A:DVA:HG23	1:2:A:DVA:HA	12	0.1
(1,15)	1:7:A:DPR:HA	1:8:A:ASN:H	5	0.1
(1,6)	1:3:A:ASP:HA	1:3:A:ASP:H	18	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found