



Full wwPDB NMR Structure Validation Report ⓘ

Mar 9, 2026 – 03:18 PM UTC

PDB ID : 1FI6 / pdb_00001fi6
Title : SOLUTION STRUCTURE OF THE REPS1 EH DOMAIN
Authors : Kim, S.; Baleja, J.D.
Deposited on : 2000-08-03

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
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

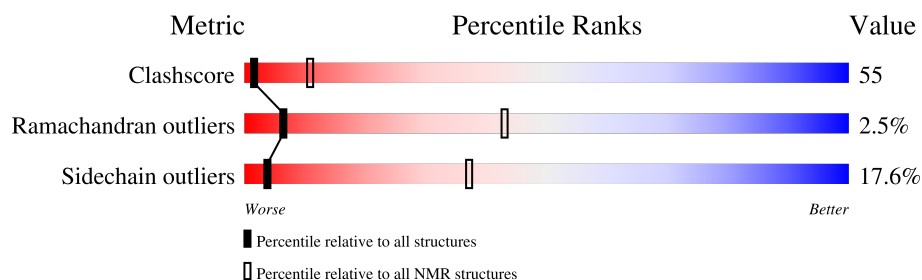
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

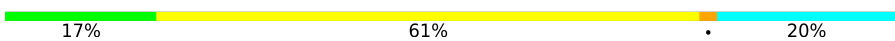
The overall completeness of chemical shifts assignment was not calculated.

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	92	

2 Ensemble composition and analysis

This entry contains 30 models. Model 20 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:8-A:81 (74)	0.78	20

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 4 single-model clusters were found.

Cluster number	Models
1	1, 6, 7, 12, 13, 15, 16, 17, 20, 21, 22, 23, 24, 27, 29, 30
2	5, 9, 10, 18, 25, 28
3	3, 11
4	4, 19
Single-model clusters	2; 8; 14; 26

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1497 atoms, of which 743 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called EH DOMAIN PROTEIN REPS1.

Mol	Chain	Residues	Atoms						Trace
1	A	92	Total	C	H	N	O	S	0
			1496	491	743	120	140	2	

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

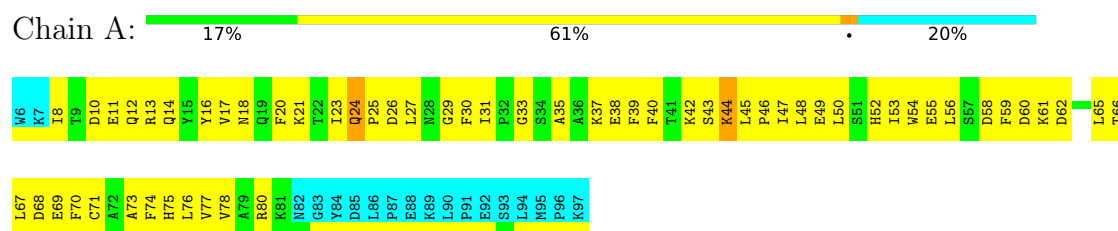
Mol	Chain	Residues	Atoms	
2	A	1	Total	Ca
			1	1

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: EH DOMAIN PROTEIN REPS1

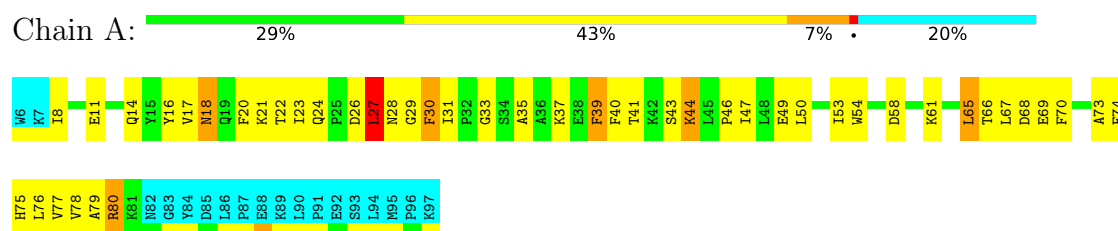


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

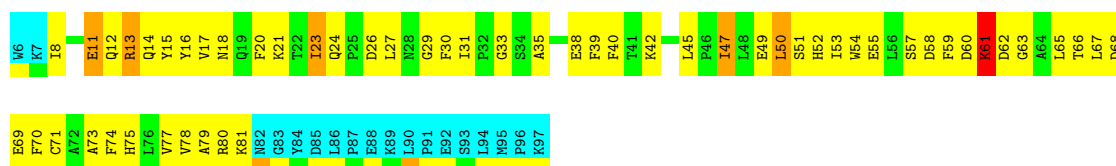
• Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.2 Score per residue for model 2

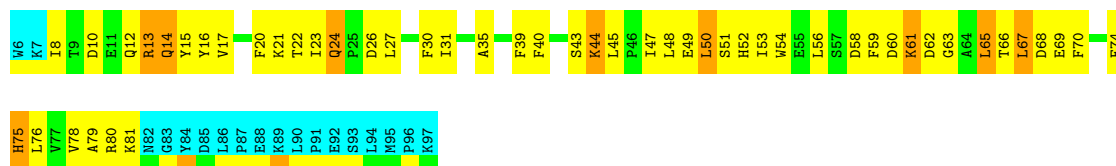
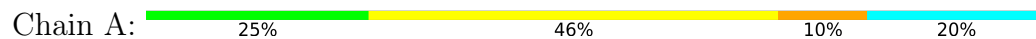
• Molecule 1: EH DOMAIN PROTEIN REPS1





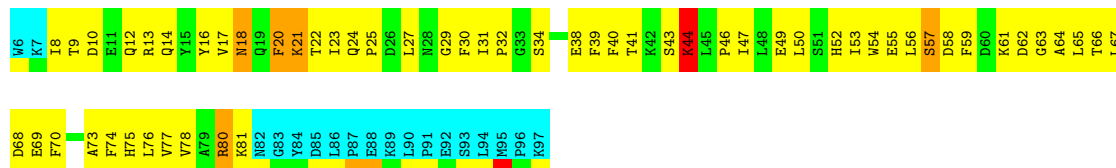
4.2.3 Score per residue for model 3

- Molecule 1: EH DOMAIN PROTEIN REPS1



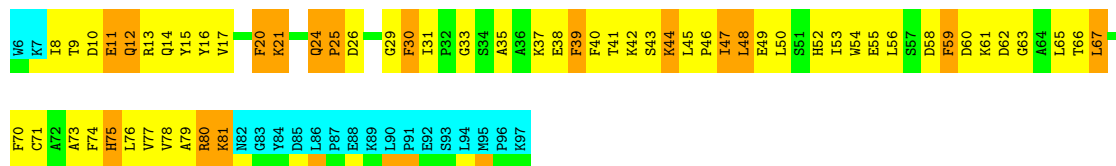
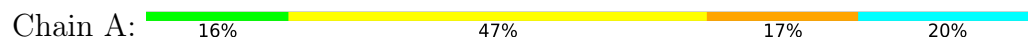
4.2.4 Score per residue for model 4

- Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.5 Score per residue for model 5

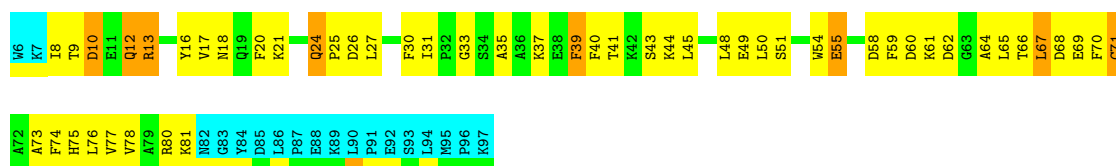
- Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.6 Score per residue for model 6

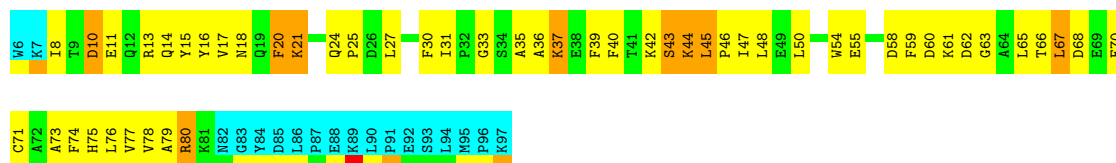
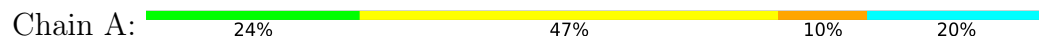
- Molecule 1: EH DOMAIN PROTEIN REPS1





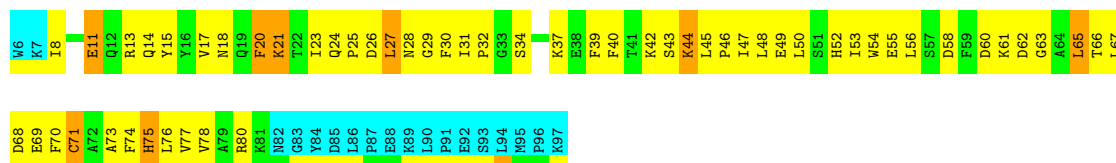
4.2.7 Score per residue for model 7

- Molecule 1: EH DOMAIN PROTEIN REPS1



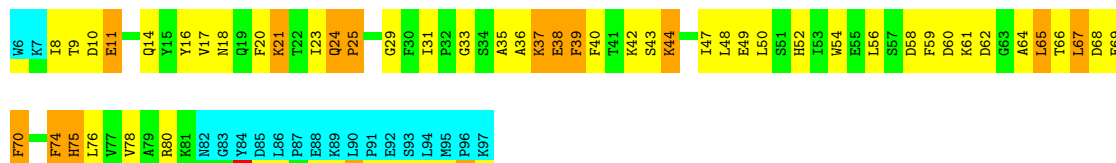
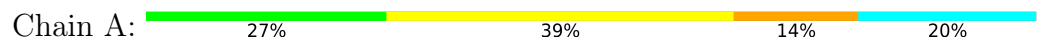
4.2.8 Score per residue for model 8

- Molecule 1: EH DOMAIN PROTEIN REPS1



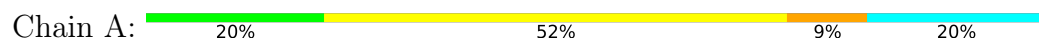
4.2.9 Score per residue for model 9

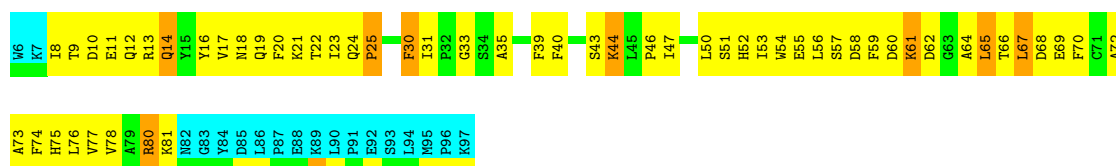
- Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.10 Score per residue for model 10

- Molecule 1: EH DOMAIN PROTEIN REPS1

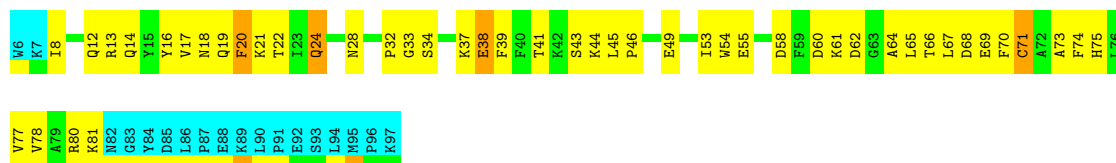




4.2.11 Score per residue for model 11

- Molecule 1: EH DOMAIN PROTEIN REPS1

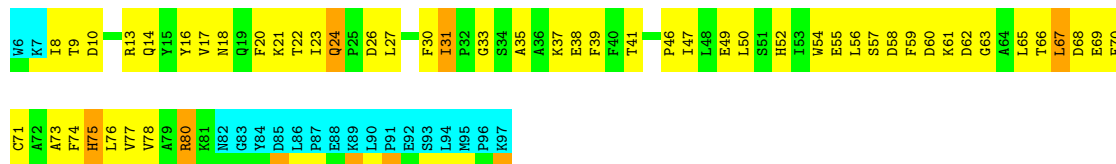
Chain A: 29% 47% • 20%



4.2.12 Score per residue for model 12

- Molecule 1: EH DOMAIN PROTEIN REPS1

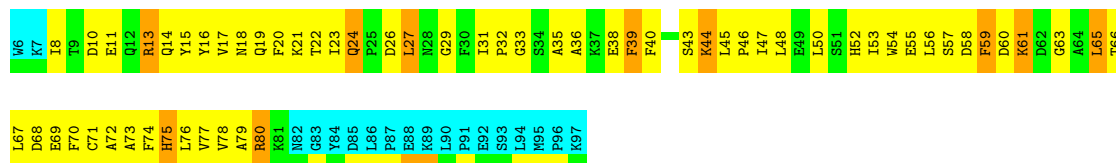
Chain A: 24% 51% 5% 20%



4.2.13 Score per residue for model 13

- Molecule 1: EH DOMAIN PROTEIN REPS1

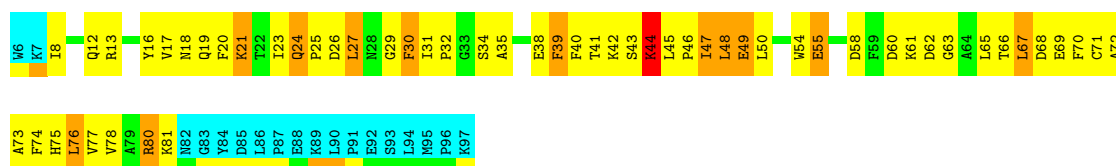
Chain A: 15% 54% 11% 20%



4.2.14 Score per residue for model 14

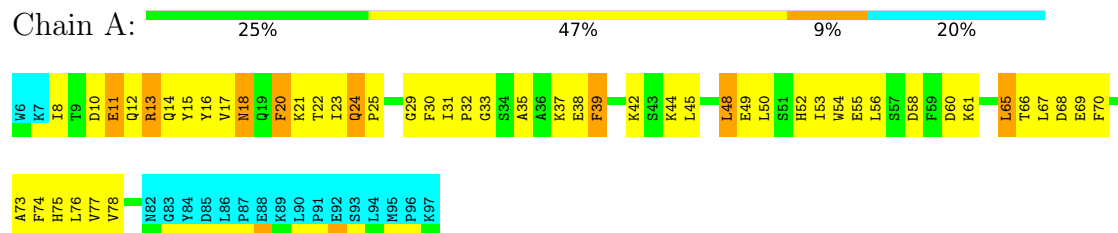
- Molecule 1: EH DOMAIN PROTEIN REPS1

Chain A: 20% 47% 13% • 20%



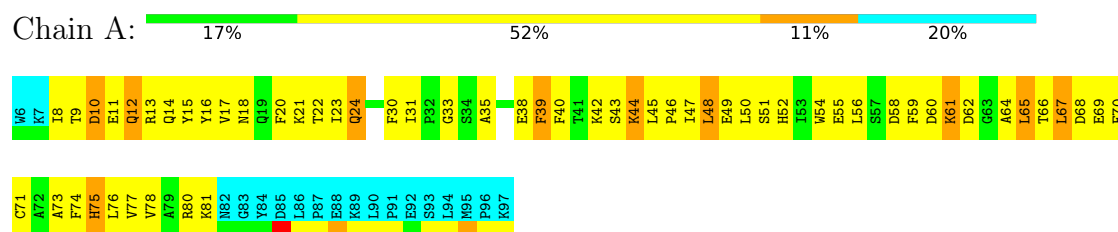
4.2.15 Score per residue for model 15

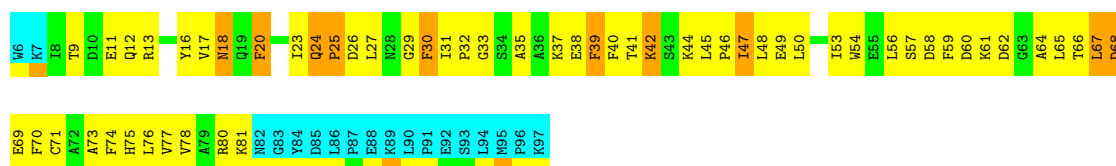
- Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.16 Score per residue for model 16

- Molecule 1: EH DOMAIN PROTEIN REPS1

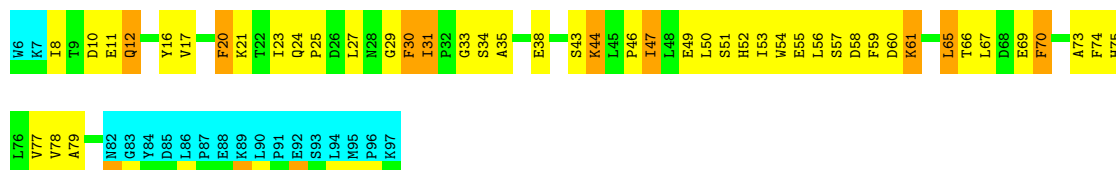




4.2.19 Score per residue for model 19

- Molecule 1: EH DOMAIN PROTEIN REPS1

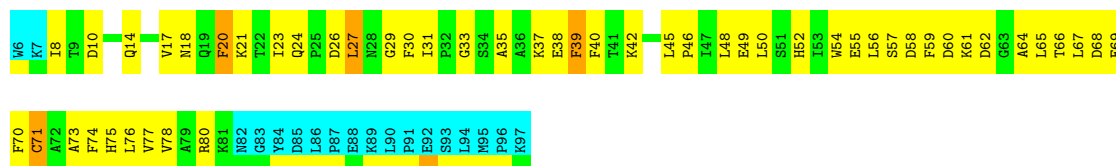
Chain A: 29% 41% 10% 20%



4.2.20 Score per residue for model 20 (medoid)

- Molecule 1: EH DOMAIN PROTEIN REPS1

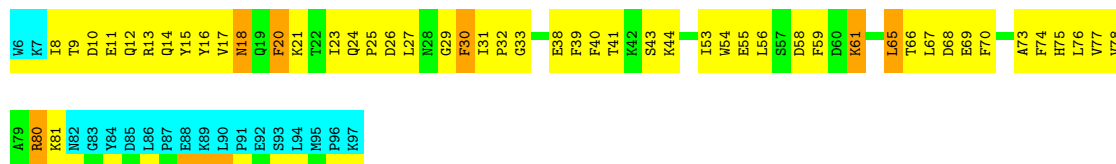
Chain A: 25% 51% 20%



4.2.21 Score per residue for model 21

- Molecule 1: EH DOMAIN PROTEIN REPS1

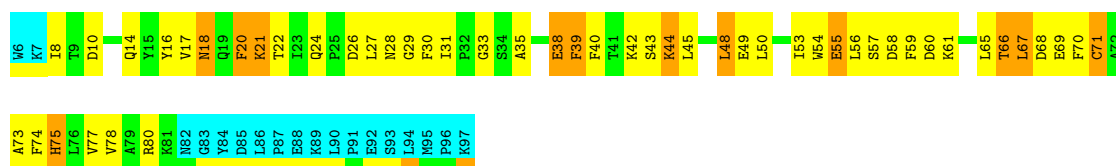
Chain A: 26% 48% 7% 20%



4.2.22 Score per residue for model 22

- Molecule 1: EH DOMAIN PROTEIN REPS1

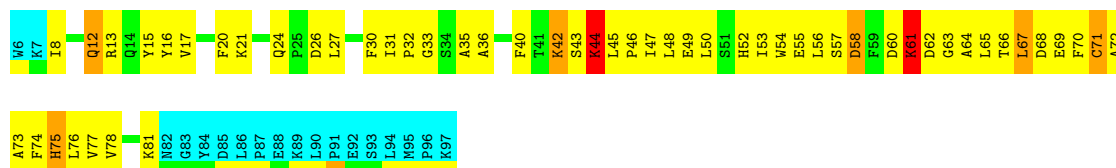
Chain A: 26% 41% 13% 20%



4.2.23 Score per residue for model 23

- Molecule 1: EH DOMAIN PROTEIN REPS1

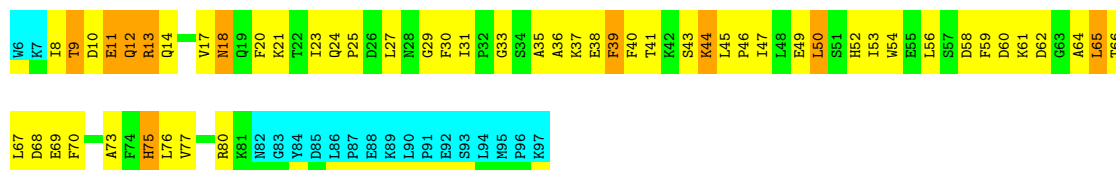
Chain A: 22% 50% 7% 20%



4.2.24 Score per residue for model 24

- Molecule 1: EH DOMAIN PROTEIN REPS1

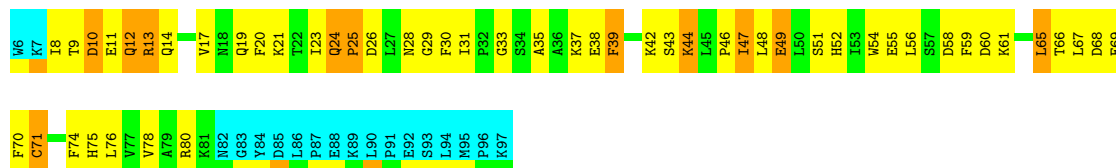
Chain A: 22% 48% 11% 20%



4.2.25 Score per residue for model 25

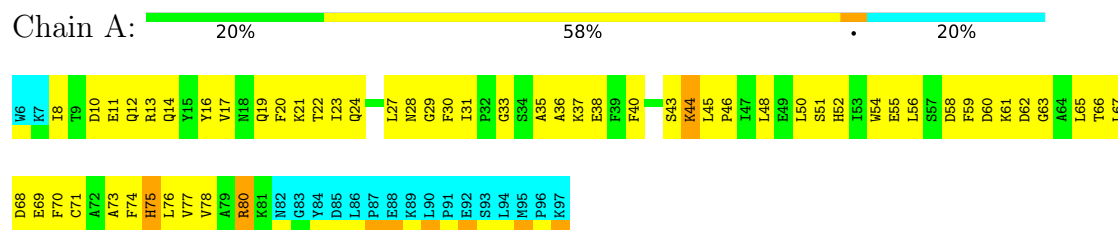
- Molecule 1: EH DOMAIN PROTEIN REPS1

Chain A: 24% 45% 12% 20%



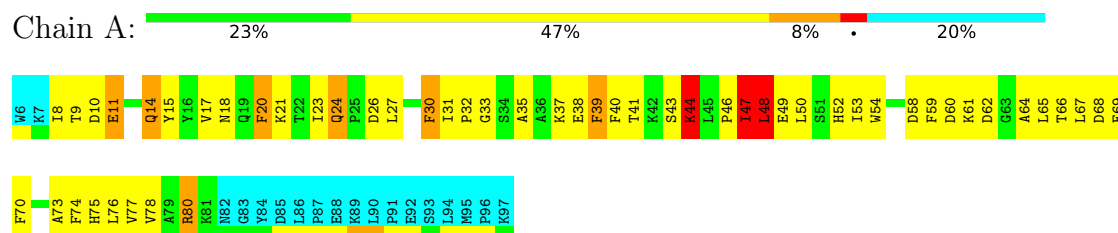
4.2.26 Score per residue for model 26

- Molecule 1: EH DOMAIN PROTEIN REPS1



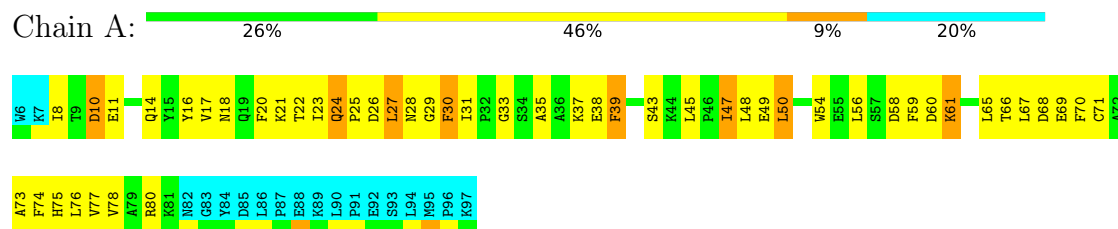
4.2.27 Score per residue for model 27

- Molecule 1: EH DOMAIN PROTEIN REPS1



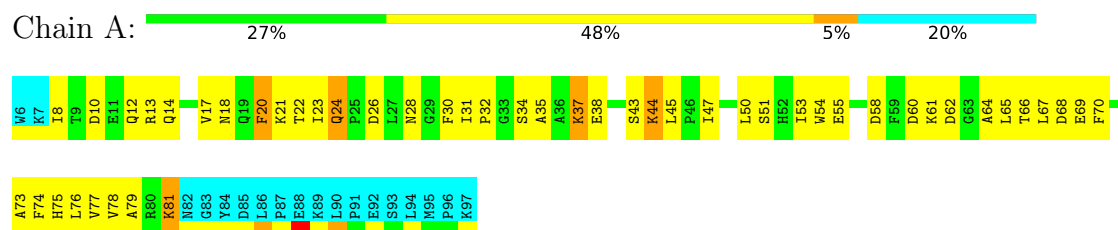
4.2.28 Score per residue for model 28

- Molecule 1: EH DOMAIN PROTEIN REPS1



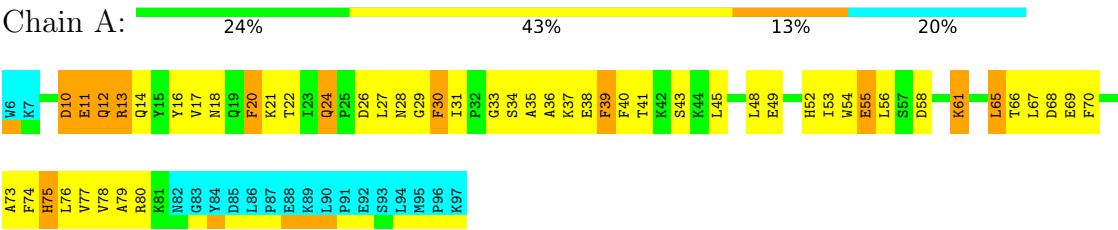
4.2.29 Score per residue for model 29

- Molecule 1: EH DOMAIN PROTEIN REPS1



4.2.30 Score per residue for model 30

● Molecule 1: EH DOMAIN PROTEIN REPS1



5 Refinement protocol and experimental data overview ⓘ

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

Of the 40 calculated structures, 30 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR	structure solution	3.1
X-PLOR	refinement	3.1

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.44±0.01	0±0/618 (0.0± 0.0%)	0.72±0.02	0±0/837 (0.0± 0.0%)
All	All	0.44	0/18540 (0.0%)	0.72	1/25110 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	31	ILE	N-CA-C	5.47	113.28	107.76	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	602	590	590	66±7
All	All	18090	17700	17700	1978

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 55.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:ILE:HD13	1:A:77:VAL:HG22	1.03	1.30	13	15
1:A:50:LEU:HD13	1:A:53:ILE:HD12	0.98	1.33	10	2
1:A:53:ILE:HD12	1:A:77:VAL:HG22	0.96	1.36	23	1
1:A:30:PHE:CD1	1:A:66:THR:HG22	0.91	2.01	12	8
1:A:47:ILE:H	1:A:47:ILE:HD12	0.91	1.22	27	9
1:A:45:LEU:HD21	1:A:80:ARG:HG2	0.91	1.41	18	2
1:A:54:TRP:CH2	1:A:65:LEU:HD13	0.90	2.02	26	29
1:A:31:ILE:HG23	1:A:35:ALA:HB3	0.86	1.47	22	21
1:A:81:LYS:HA	1:A:81:LYS:HE2	0.85	1.47	29	1
1:A:44:LYS:HA	1:A:44:LYS:HE2	0.85	1.47	17	1
1:A:54:TRP:CZ3	1:A:65:LEU:HD13	0.84	2.08	25	27
1:A:65:LEU:HG	1:A:69:GLU:HB3	0.84	1.49	26	9
1:A:38:GLU:OE1	1:A:42:LYS:NZ	0.84	2.10	17	1
1:A:17:VAL:HG12	1:A:21:LYS:CG	0.84	2.02	24	7
1:A:8:ILE:HG23	1:A:75:HIS:CD2	0.83	2.09	4	14
1:A:43:SER:HB3	1:A:45:LEU:HD13	0.83	1.50	30	2
1:A:66:THR:HG23	1:A:69:GLU:OE2	0.83	1.73	2	1
1:A:73:ALA:O	1:A:77:VAL:HG23	0.82	1.74	21	27
1:A:46:PRO:HG2	1:A:49:GLU:OE1	0.81	1.74	4	5
1:A:65:LEU:HA	1:A:69:GLU:OE1	0.81	1.75	30	20
1:A:13:ARG:O	1:A:17:VAL:HG23	0.81	1.74	7	19
1:A:74:PHE:O	1:A:78:VAL:HG23	0.81	1.76	11	28
1:A:52:HIS:CE1	1:A:56:LEU:HD11	0.80	2.12	12	10
1:A:37:LYS:HE3	1:A:50:LEU:HB3	0.80	1.53	20	1
1:A:10:ASP:OD1	1:A:13:ARG:NH1	0.78	2.16	6	3
1:A:21:LYS:HD2	1:A:22:THR:N	0.78	1.92	13	3
1:A:55:GLU:OE2	1:A:61:LYS:HE2	0.78	1.78	30	2
1:A:21:LYS:HD3	1:A:25:PRO:HB3	0.78	1.53	25	1
1:A:55:GLU:OE2	1:A:61:LYS:NZ	0.77	2.17	10	1
1:A:55:GLU:OE2	1:A:61:LYS:CE	0.77	2.33	30	1
1:A:20:PHE:CG	1:A:70:PHE:CZ	0.77	2.73	25	30
1:A:17:VAL:HG12	1:A:21:LYS:HG3	0.76	1.54	24	10
1:A:42:LYS:HB3	1:A:42:LYS:NZ	0.76	1.95	23	4
1:A:58:ASP:OD2	1:A:61:LYS:HA	0.75	1.82	26	17
1:A:48:LEU:C	1:A:48:LEU:HD23	0.75	2.04	15	7
1:A:9:THR:HG22	1:A:11:GLU:OE1	0.75	1.82	10	3
1:A:46:PRO:O	1:A:50:LEU:HD13	0.75	1.81	19	7
1:A:67:LEU:O	1:A:67:LEU:HD13	0.74	1.82	21	10
1:A:38:GLU:OE2	1:A:42:LYS:NZ	0.74	2.20	9	1
1:A:45:LEU:HD21	1:A:80:ARG:NH2	0.74	1.98	5	1
1:A:40:PHE:CB	1:A:50:LEU:HD11	0.73	2.12	14	4
1:A:26:ASP:C	1:A:67:LEU:HD12	0.73	2.09	23	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:ARG:NH1	1:A:80:ARG:HG3	0.73	1.97	26	1
1:A:43:SER:HB2	1:A:45:LEU:HD13	0.72	1.60	11	1
1:A:37:LYS:HG3	1:A:47:ILE:HG13	0.72	1.61	8	1
1:A:43:SER:O	1:A:44:LYS:HB2	0.72	1.82	26	16
1:A:40:PHE:CE1	1:A:77:VAL:HG21	0.72	2.19	17	5
1:A:37:LYS:NZ	1:A:50:LEU:O	0.72	2.23	20	1
1:A:80:ARG:HG3	1:A:80:ARG:HH11	0.72	1.45	26	1
1:A:46:PRO:HG2	1:A:49:GLU:OE2	0.72	1.85	12	1
1:A:30:PHE:CE1	1:A:66:THR:HG22	0.71	2.20	26	2
1:A:80:ARG:HA	1:A:80:ARG:HE	0.71	1.43	9	1
1:A:54:TRP:CZ2	1:A:65:LEU:HD13	0.71	2.20	26	9
1:A:20:PHE:HB3	1:A:70:PHE:CZ	0.71	2.19	26	2
1:A:16:TYR:CD1	1:A:17:VAL:N	0.71	2.59	16	8
1:A:45:LEU:HD21	1:A:80:ARG:CZ	0.71	2.15	5	1
1:A:24:GLN:NE2	1:A:29:GLY:C	0.71	2.49	25	12
1:A:67:LEU:C	1:A:67:LEU:HD13	0.71	2.11	4	3
1:A:49:GLU:OE2	1:A:80:ARG:NH1	0.70	2.23	5	2
1:A:55:GLU:OE1	1:A:61:LYS:NZ	0.70	2.19	21	2
1:A:61:LYS:HB3	1:A:61:LYS:NZ	0.70	2.01	2	2
1:A:33:GLY:HA2	1:A:54:TRP:CZ3	0.70	2.21	24	24
1:A:8:ILE:HG12	1:A:75:HIS:CD2	0.70	2.21	8	18
1:A:78:VAL:O	1:A:81:LYS:HG3	0.70	1.86	11	1
1:A:65:LEU:HG	1:A:69:GLU:CB	0.70	2.16	2	7
1:A:81:LYS:HE2	1:A:81:LYS:CA	0.70	2.17	29	1
1:A:81:LYS:HD3	1:A:81:LYS:C	0.70	2.10	3	1
1:A:40:PHE:HB2	1:A:50:LEU:HD11	0.69	1.64	18	2
1:A:21:LYS:HD2	1:A:21:LYS:C	0.69	2.12	1	4
1:A:49:GLU:HA	1:A:49:GLU:OE1	0.69	1.87	2	2
1:A:65:LEU:HD12	1:A:69:GLU:OE1	0.69	1.87	30	5
1:A:57:SER:O	1:A:69:GLU:HG2	0.69	1.86	17	6
1:A:13:ARG:HD2	1:A:71:CYS:SG	0.69	2.28	6	2
1:A:17:VAL:O	1:A:21:LYS:HG3	0.69	1.88	24	6
1:A:21:LYS:NZ	1:A:25:PRO:O	0.68	2.26	21	1
1:A:66:THR:HG22	1:A:69:GLU:HG3	0.68	1.63	4	3
1:A:44:LYS:O	1:A:44:LYS:HD3	0.68	1.87	11	2
1:A:30:PHE:HD2	1:A:66:THR:HG22	0.68	1.48	7	3
1:A:40:PHE:CE2	1:A:77:VAL:HG21	0.68	2.24	1	4
1:A:9:THR:HB	1:A:12:GLN:OE1	0.68	1.89	4	1
1:A:17:VAL:HG13	1:A:25:PRO:HA	0.68	1.66	10	3
1:A:46:PRO:C	1:A:50:LEU:HD13	0.68	2.13	23	3
1:A:20:PHE:HB3	1:A:70:PHE:CE2	0.67	2.24	26	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:60:ASP:O	1:A:61:LYS:HB2	0.67	1.89	2	16
1:A:20:PHE:CB	1:A:70:PHE:CZ	0.67	2.77	26	30
1:A:47:ILE:HA	1:A:50:LEU:HD22	0.67	1.67	9	4
1:A:10:ASP:CG	1:A:14:GLN:NE2	0.67	2.53	10	1
1:A:62:ASP:OD2	1:A:64:ALA:HB3	0.67	1.90	9	9
1:A:10:ASP:OD2	1:A:14:GLN:NE2	0.67	2.27	10	2
1:A:14:GLN:OE1	1:A:18:ASN:ND2	0.67	2.28	8	2
1:A:8:ILE:HG23	1:A:75:HIS:CE1	0.67	2.25	24	2
1:A:21:LYS:HG2	1:A:25:PRO:HB3	0.67	1.66	10	2
1:A:8:ILE:HA	1:A:75:HIS:NE2	0.67	2.05	5	9
1:A:81:LYS:HD2	1:A:81:LYS:C	0.67	2.15	10	2
1:A:17:VAL:HG12	1:A:21:LYS:HG2	0.66	1.67	25	2
1:A:30:PHE:CD2	1:A:66:THR:HG22	0.66	2.24	17	4
1:A:67:LEU:HD13	1:A:67:LEU:C	0.66	2.15	2	9
1:A:18:ASN:O	1:A:21:LYS:HE2	0.66	1.90	11	2
1:A:8:ILE:HG23	1:A:75:HIS:NE2	0.66	2.06	1	3
1:A:24:GLN:OE1	1:A:29:GLY:HA3	0.66	1.90	22	4
1:A:24:GLN:HA	1:A:24:GLN:HE21	0.66	1.51	11	9
1:A:70:PHE:C	1:A:70:PHE:CD1	0.66	2.74	9	15
1:A:10:ASP:O	1:A:14:GLN:HG2	0.66	1.91	28	7
1:A:52:HIS:O	1:A:56:LEU:HD13	0.65	1.91	20	4
1:A:66:THR:CG2	1:A:69:GLU:HG3	0.65	2.21	24	3
1:A:30:PHE:CD1	1:A:30:PHE:N	0.65	2.65	19	15
1:A:67:LEU:HD23	1:A:67:LEU:O	0.65	1.92	26	6
1:A:11:GLU:O	1:A:14:GLN:HG3	0.65	1.91	7	4
1:A:40:PHE:HB3	1:A:50:LEU:HD21	0.65	1.69	3	2
1:A:58:ASP:OD1	1:A:61:LYS:N	0.65	2.30	27	4
1:A:56:LEU:O	1:A:59:PHE:CE1	0.64	2.50	10	9
1:A:24:GLN:OE1	1:A:31:ILE:HG13	0.64	1.92	26	5
1:A:41:THR:N	1:A:50:LEU:HD21	0.64	2.07	1	3
1:A:47:ILE:HD12	1:A:47:ILE:N	0.64	2.07	17	6
1:A:37:LYS:HD3	1:A:47:ILE:HD11	0.64	1.68	9	1
1:A:47:ILE:H	1:A:47:ILE:CD1	0.64	2.06	2	8
1:A:51:SER:O	1:A:55:GLU:HG3	0.64	1.93	25	2
1:A:54:TRP:CE2	1:A:65:LEU:HD13	0.64	2.27	24	2
1:A:67:LEU:O	1:A:70:PHE:HB3	0.64	1.92	8	8
1:A:67:LEU:HD13	1:A:67:LEU:O	0.63	1.93	27	3
1:A:11:GLU:O	1:A:14:GLN:HG2	0.63	1.92	17	7
1:A:53:ILE:CD1	1:A:77:VAL:HG22	0.63	2.17	13	1
1:A:26:ASP:CG	1:A:27:LEU:H	0.63	2.01	6	6
1:A:24:GLN:HE22	1:A:29:GLY:C	0.63	2.02	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:ALA:O	1:A:76:LEU:HB2	0.63	1.93	14	4
1:A:55:GLU:N	1:A:55:GLU:OE1	0.63	2.32	15	2
1:A:20:PHE:HB2	1:A:70:PHE:CZ	0.63	2.28	15	26
1:A:20:PHE:CD2	1:A:70:PHE:CE1	0.63	2.86	2	3
1:A:66:THR:N	1:A:69:GLU:OE1	0.63	2.32	29	5
1:A:16:TYR:OH	1:A:78:VAL:HG21	0.63	1.93	11	3
1:A:46:PRO:HG2	1:A:49:GLU:CG	0.63	2.23	11	2
1:A:57:SER:OG	1:A:73:ALA:HB2	0.62	1.94	12	5
1:A:49:GLU:CD	1:A:80:ARG:NH1	0.62	2.56	5	1
1:A:80:ARG:O	1:A:80:ARG:NE	0.62	2.32	7	5
1:A:58:ASP:HA	1:A:69:GLU:OE2	0.62	1.93	13	7
1:A:55:GLU:O	1:A:61:LYS:NZ	0.62	2.32	29	3
1:A:17:VAL:CG1	1:A:21:LYS:HG3	0.62	2.24	14	4
1:A:41:THR:HA	1:A:45:LEU:O	0.62	1.94	14	2
1:A:40:PHE:O	1:A:43:SER:HB3	0.62	1.93	24	7
1:A:80:ARG:HG2	1:A:80:ARG:HH11	0.62	1.54	25	3
1:A:49:GLU:O	1:A:53:ILE:HG13	0.62	1.95	11	4
1:A:54:TRP:O	1:A:58:ASP:N	0.62	2.33	24	19
1:A:16:TYR:CD1	1:A:16:TYR:C	0.62	2.78	16	6
1:A:37:LYS:NZ	1:A:51:SER:HA	0.62	2.10	6	1
1:A:58:ASP:OD2	1:A:61:LYS:CA	0.61	2.48	26	7
1:A:49:GLU:OE1	1:A:49:GLU:N	0.61	2.33	24	4
1:A:28:ASN:O	1:A:28:ASN:ND2	0.61	2.33	26	5
1:A:33:GLY:O	1:A:37:LYS:HB2	0.61	1.95	30	7
1:A:20:PHE:CB	1:A:70:PHE:CE2	0.61	2.82	7	21
1:A:24:GLN:OE1	1:A:67:LEU:HA	0.61	1.94	20	2
1:A:58:ASP:O	1:A:61:LYS:NZ	0.61	2.32	7	3
1:A:45:LEU:CD1	1:A:77:VAL:HG13	0.61	2.25	24	2
1:A:49:GLU:OE1	1:A:80:ARG:NH1	0.61	2.34	5	2
1:A:10:ASP:O	1:A:13:ARG:HB3	0.61	1.96	26	4
1:A:16:TYR:CD1	1:A:70:PHE:CE2	0.61	2.87	7	5
1:A:54:TRP:HZ2	1:A:63:GLY:C	0.61	2.04	17	6
1:A:10:ASP:OD1	1:A:14:GLN:NE2	0.61	2.34	10	1
1:A:43:SER:O	1:A:44:LYS:CB	0.61	2.49	16	13
1:A:62:ASP:CG	1:A:63:GLY:N	0.61	2.59	14	3
1:A:49:GLU:CD	1:A:80:ARG:NE	0.61	2.59	30	1
1:A:10:ASP:CG	1:A:13:ARG:HH21	0.61	2.03	24	1
1:A:62:ASP:OD1	1:A:63:GLY:N	0.60	2.34	5	6
1:A:38:GLU:O	1:A:42:LYS:HG3	0.60	1.96	22	2
1:A:27:LEU:HD12	1:A:67:LEU:HD13	0.60	1.72	19	3
1:A:49:GLU:O	1:A:53:ILE:HG12	0.60	1.95	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:TYR:CE2	1:A:71:CYS:SG	0.60	2.95	22	1
1:A:17:VAL:CG1	1:A:21:LYS:HG2	0.60	2.26	6	2
1:A:52:HIS:O	1:A:56:LEU:HD23	0.60	1.95	16	2
1:A:12:GLN:O	1:A:15:TYR:HB3	0.60	1.96	21	1
1:A:26:ASP:CA	1:A:67:LEU:HD13	0.60	2.26	18	1
1:A:13:ARG:HG2	1:A:13:ARG:HH11	0.60	1.56	2	1
1:A:10:ASP:CG	1:A:14:GLN:HE22	0.60	2.04	10	1
1:A:46:PRO:CG	1:A:49:GLU:OE2	0.60	2.50	12	1
1:A:38:GLU:N	1:A:38:GLU:OE1	0.60	2.34	14	1
1:A:31:ILE:HG22	1:A:36:ALA:HB2	0.60	1.73	30	1
1:A:24:GLN:NE2	1:A:29:GLY:O	0.60	2.34	8	8
1:A:18:ASN:O	1:A:21:LYS:HE3	0.60	1.97	12	2
1:A:48:LEU:HD23	1:A:48:LEU:O	0.60	1.97	28	3
1:A:12:GLN:NE2	1:A:75:HIS:NE2	0.59	2.50	15	3
1:A:24:GLN:HG2	1:A:67:LEU:HD23	0.59	1.73	4	2
1:A:48:LEU:C	1:A:48:LEU:CD2	0.59	2.75	15	4
1:A:26:ASP:C	1:A:67:LEU:HD13	0.59	2.23	18	1
1:A:27:LEU:N	1:A:27:LEU:HD12	0.59	2.12	4	7
1:A:42:LYS:HB3	1:A:42:LYS:HZ3	0.59	1.58	14	2
1:A:22:THR:HG23	1:A:23:ILE:HG13	0.58	1.75	1	3
1:A:26:ASP:O	1:A:27:LEU:O	0.58	2.21	14	2
1:A:19:GLN:O	1:A:22:THR:HG22	0.58	1.97	26	1
1:A:16:TYR:CE1	1:A:17:VAL:HG22	0.58	2.33	23	8
1:A:47:ILE:O	1:A:50:LEU:HB2	0.58	1.99	9	3
1:A:21:LYS:HG2	1:A:25:PRO:HA	0.58	1.73	14	2
1:A:22:THR:HB	1:A:23:ILE:HD12	0.58	1.74	12	1
1:A:42:LYS:NZ	1:A:42:LYS:CB	0.58	2.67	14	2
1:A:52:HIS:CE1	1:A:56:LEU:CD1	0.58	2.86	12	7
1:A:31:ILE:HG23	1:A:35:ALA:CB	0.58	2.26	6	2
1:A:24:GLN:NE2	1:A:29:GLY:HA3	0.58	2.12	9	4
1:A:27:LEU:N	1:A:67:LEU:CD1	0.58	2.66	18	1
1:A:24:GLN:CG	1:A:67:LEU:HG	0.58	2.29	8	1
1:A:24:GLN:NE2	1:A:29:GLY:CA	0.58	2.67	9	5
1:A:49:GLU:HG2	1:A:80:ARG:CD	0.58	2.29	14	1
1:A:54:TRP:CE3	1:A:65:LEU:HD13	0.58	2.34	19	3
1:A:34:SER:O	1:A:38:GLU:HB2	0.57	1.99	17	3
1:A:53:ILE:HD11	1:A:80:ARG:HH21	0.57	1.60	24	1
1:A:24:GLN:OE1	1:A:31:ILE:N	0.57	2.37	13	2
1:A:16:TYR:CE1	1:A:17:VAL:CG2	0.57	2.88	23	3
1:A:46:PRO:O	1:A:48:LEU:N	0.57	2.38	25	3
1:A:52:HIS:HA	1:A:55:GLU:OE1	0.57	1.98	23	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:76:LEU:HD23	1:A:76:LEU:O	0.57	2.00	20	17
1:A:17:VAL:HG12	1:A:21:LYS:HB3	0.57	1.75	8	2
1:A:42:LYS:HB3	1:A:42:LYS:HZ2	0.57	1.60	23	2
1:A:23:ILE:HG21	1:A:31:ILE:HG12	0.57	1.77	27	15
1:A:10:ASP:OD1	1:A:13:ARG:HD2	0.57	2.00	10	2
1:A:51:SER:HB3	1:A:55:GLU:OE2	0.57	2.00	19	1
1:A:58:ASP:O	1:A:61:LYS:HD2	0.57	2.00	29	2
1:A:35:ALA:O	1:A:39:PHE:HB2	0.56	1.99	15	14
1:A:11:GLU:O	1:A:15:TYR:HB2	0.56	2.00	2	4
1:A:54:TRP:NE1	1:A:58:ASP:OD2	0.56	2.38	30	2
1:A:43:SER:O	1:A:45:LEU:HD12	0.56	2.00	7	1
1:A:18:ASN:HB3	1:A:19:GLN:NE2	0.56	2.15	14	1
1:A:62:ASP:OD1	1:A:64:ALA:N	0.56	2.39	17	2
1:A:46:PRO:O	1:A:47:ILE:C	0.56	2.49	25	9
1:A:78:VAL:O	1:A:81:LYS:HG2	0.56	2.00	18	1
1:A:52:HIS:HA	1:A:55:GLU:OE2	0.56	1.99	13	1
1:A:24:GLN:OE1	1:A:29:GLY:CA	0.56	2.54	21	4
1:A:78:VAL:O	1:A:81:LYS:HB3	0.56	2.00	23	3
1:A:30:PHE:CE2	1:A:66:THR:HG22	0.56	2.36	3	1
1:A:60:ASP:OD1	1:A:61:LYS:N	0.56	2.39	6	9
1:A:76:LEU:C	1:A:76:LEU:HD23	0.56	2.26	12	14
1:A:53:ILE:CG1	1:A:80:ARG:NH2	0.56	2.69	24	1
1:A:27:LEU:HD12	1:A:27:LEU:H	0.56	1.60	4	1
1:A:37:LYS:HZ1	1:A:50:LEU:C	0.56	2.07	20	1
1:A:24:GLN:HE21	1:A:24:GLN:CA	0.56	2.13	29	5
1:A:55:GLU:O	1:A:61:LYS:HE2	0.56	2.01	26	1
1:A:23:ILE:HD12	1:A:23:ILE:N	0.56	2.15	2	3
1:A:23:ILE:HD11	1:A:39:PHE:CZ	0.56	2.36	2	1
1:A:61:LYS:HB3	1:A:61:LYS:HZ2	0.56	1.58	2	2
1:A:17:VAL:HG12	1:A:21:LYS:HE3	0.56	1.78	10	1
1:A:58:ASP:C	1:A:60:ASP:N	0.55	2.64	23	14
1:A:48:LEU:HB3	1:A:49:GLU:OE1	0.55	2.02	9	1
1:A:45:LEU:CB	1:A:50:LEU:HD11	0.55	2.31	15	2
1:A:8:ILE:HG12	1:A:75:HIS:NE2	0.55	2.17	21	2
1:A:75:HIS:O	1:A:78:VAL:HB	0.55	2.02	5	10
1:A:13:ARG:CG	1:A:13:ARG:HH11	0.55	2.15	25	1
1:A:53:ILE:HG21	1:A:77:VAL:HG22	0.55	1.79	27	1
1:A:20:PHE:CE1	1:A:39:PHE:CD1	0.55	2.94	28	6
1:A:56:LEU:O	1:A:59:PHE:CD1	0.55	2.60	17	5
1:A:49:GLU:HG2	1:A:80:ARG:HD3	0.55	1.78	14	1
1:A:31:ILE:CG2	1:A:36:ALA:HB2	0.55	2.32	30	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:38:GLU:O	1:A:41:THR:HB	0.55	2.02	11	3
1:A:13:ARG:HD3	1:A:26:ASP:OD2	0.54	2.01	5	1
1:A:12:GLN:O	1:A:16:TYR:CD2	0.54	2.60	30	2
1:A:46:PRO:CG	1:A:49:GLU:OE1	0.54	2.55	18	1
1:A:23:ILE:C	1:A:25:PRO:HD3	0.54	2.27	4	3
1:A:46:PRO:HG2	1:A:49:GLU:CD	0.54	2.27	18	1
1:A:71:CYS:O	1:A:75:HIS:HB2	0.54	2.03	11	2
1:A:78:VAL:O	1:A:81:LYS:HB2	0.54	2.01	14	1
1:A:52:HIS:CD2	1:A:80:ARG:CZ	0.54	2.91	2	1
1:A:8:ILE:HG12	1:A:75:HIS:CG	0.54	2.38	6	1
1:A:58:ASP:O	1:A:61:LYS:HD3	0.54	2.03	19	1
1:A:22:THR:CG2	1:A:23:ILE:HD12	0.54	2.32	26	1
1:A:23:ILE:C	1:A:25:PRO:CD	0.54	2.80	4	3
1:A:13:ARG:HG3	1:A:71:CYS:SG	0.54	2.43	8	2
1:A:58:ASP:OD2	1:A:62:ASP:N	0.54	2.41	11	3
1:A:13:ARG:HG3	1:A:13:ARG:HH11	0.54	1.61	16	1
1:A:49:GLU:OE2	1:A:80:ARG:NE	0.54	2.41	20	2
1:A:58:ASP:O	1:A:61:LYS:CE	0.54	2.56	7	1
1:A:24:GLN:HE22	1:A:30:PHE:HA	0.54	1.63	23	1
1:A:13:ARG:CG	1:A:13:ARG:NH1	0.54	2.70	25	3
1:A:10:ASP:HA	1:A:13:ARG:HB2	0.54	1.80	24	1
1:A:20:PHE:CD2	1:A:70:PHE:CZ	0.53	2.96	2	10
1:A:17:VAL:O	1:A:21:LYS:CG	0.53	2.56	8	6
1:A:18:ASN:O	1:A:21:LYS:NZ	0.53	2.29	8	1
1:A:24:GLN:HG2	1:A:67:LEU:HA	0.53	1.79	8	1
1:A:16:TYR:CE2	1:A:74:PHE:HD2	0.53	2.21	19	1
1:A:80:ARG:HH11	1:A:80:ARG:CG	0.53	2.15	26	2
1:A:11:GLU:O	1:A:14:GLN:CG	0.53	2.56	1	3
1:A:31:ILE:CG2	1:A:35:ALA:HB3	0.53	2.33	18	4
1:A:21:LYS:HG2	1:A:25:PRO:CA	0.53	2.33	14	2
1:A:24:GLN:OE1	1:A:29:GLY:C	0.53	2.51	21	3
1:A:40:PHE:CD2	1:A:77:VAL:HG21	0.53	2.37	1	1
1:A:53:ILE:HD13	1:A:77:VAL:CG2	0.53	2.21	13	3
1:A:61:LYS:NZ	1:A:61:LYS:CB	0.53	2.71	2	2
1:A:44:LYS:O	1:A:44:LYS:CE	0.53	2.56	3	1
1:A:60:ASP:O	1:A:61:LYS:CB	0.53	2.57	17	3
1:A:20:PHE:CE1	1:A:39:PHE:CD2	0.53	2.97	22	11
1:A:12:GLN:HB3	1:A:16:TYR:CZ	0.53	2.39	3	1
1:A:43:SER:CB	1:A:45:LEU:HD13	0.53	2.29	30	3
1:A:18:ASN:O	1:A:21:LYS:CE	0.53	2.57	11	1
1:A:12:GLN:NE2	1:A:75:HIS:CE1	0.53	2.77	29	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:LEU:C	1:A:67:LEU:CD1	0.53	2.82	4	11
1:A:76:LEU:HD23	1:A:76:LEU:C	0.53	2.28	20	4
1:A:49:GLU:OE2	1:A:80:ARG:NH2	0.53	2.41	20	3
1:A:16:TYR:CG	1:A:74:PHE:CD1	0.53	2.97	28	1
1:A:24:GLN:HA	1:A:24:GLN:NE2	0.53	2.19	30	3
1:A:66:THR:O	1:A:67:LEU:C	0.53	2.51	26	30
1:A:10:ASP:HA	1:A:13:ARG:HB3	0.53	1.81	15	2
1:A:10:ASP:CG	1:A:13:ARG:HH22	0.52	2.11	5	1
1:A:80:ARG:O	1:A:81:LYS:C	0.52	2.52	6	4
1:A:26:ASP:O	1:A:67:LEU:HD12	0.52	2.04	6	1
1:A:37:LYS:HE3	1:A:47:ILE:CG2	0.52	2.34	24	1
1:A:37:LYS:HG2	1:A:47:ILE:HG23	0.52	1.80	29	1
1:A:24:GLN:HG3	1:A:67:LEU:HD23	0.52	1.80	5	3
1:A:66:THR:HG22	1:A:69:GLU:CG	0.52	2.34	10	1
1:A:16:TYR:C	1:A:16:TYR:CD1	0.52	2.87	14	1
1:A:29:GLY:C	1:A:30:PHE:CD1	0.52	2.88	2	5
1:A:12:GLN:HE22	1:A:75:HIS:CE1	0.52	2.23	25	3
1:A:21:LYS:CD	1:A:21:LYS:C	0.52	2.82	3	1
1:A:53:ILE:HG13	1:A:80:ARG:NH2	0.52	2.19	24	1
1:A:26:ASP:O	1:A:28:ASN:N	0.52	2.43	8	1
1:A:16:TYR:CE1	1:A:70:PHE:CE2	0.52	2.98	16	1
1:A:13:ARG:HH11	1:A:13:ARG:CB	0.52	2.18	25	1
1:A:17:VAL:O	1:A:21:LYS:HB3	0.52	2.05	13	7
1:A:16:TYR:CE1	1:A:74:PHE:CD1	0.52	2.98	30	4
1:A:27:LEU:HD23	1:A:27:LEU:H	0.52	1.65	28	1
1:A:27:LEU:H	1:A:27:LEU:CD1	0.52	2.18	4	1
1:A:24:GLN:CD	1:A:29:GLY:O	0.52	2.52	26	2
1:A:36:ALA:O	1:A:40:PHE:HD2	0.51	1.89	9	3
1:A:40:PHE:O	1:A:43:SER:N	0.51	2.43	24	4
1:A:23:ILE:O	1:A:25:PRO:HD3	0.51	2.05	8	2
1:A:49:GLU:CG	1:A:80:ARG:HD2	0.51	2.35	14	1
1:A:10:ASP:OD1	1:A:13:ARG:HD3	0.51	2.05	21	1
1:A:14:GLN:CD	1:A:15:TYR:N	0.51	2.68	8	1
1:A:66:THR:HG22	1:A:69:GLU:OE1	0.51	2.05	22	2
1:A:44:LYS:HE3	1:A:44:LYS:C	0.51	2.30	3	1
1:A:58:ASP:C	1:A:60:ASP:H	0.51	2.14	17	9
1:A:48:LEU:HD22	1:A:49:GLU:OE2	0.51	2.06	9	1
1:A:49:GLU:OE1	1:A:80:ARG:NE	0.51	2.42	30	3
1:A:38:GLU:O	1:A:42:LYS:HG2	0.51	2.05	16	1
1:A:24:GLN:HA	1:A:24:GLN:OE1	0.51	2.05	6	3
1:A:26:ASP:C	1:A:28:ASN:H	0.51	2.14	1	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:44:LYS:O	1:A:44:LYS:HE3	0.51	2.06	3	1
1:A:58:ASP:O	1:A:60:ASP:N	0.51	2.43	16	6
1:A:14:GLN:NE2	1:A:15:TYR:N	0.51	2.59	13	2
1:A:27:LEU:HA	1:A:67:LEU:HD12	0.51	1.82	24	3
1:A:65:LEU:HA	1:A:69:GLU:CD	0.51	2.31	26	3
1:A:49:GLU:N	1:A:49:GLU:CD	0.51	2.69	22	2
1:A:57:SER:O	1:A:69:GLU:CG	0.51	2.59	10	1
1:A:22:THR:HG23	1:A:23:ILE:HD12	0.51	1.82	26	1
1:A:37:LYS:HE3	1:A:47:ILE:HG23	0.50	1.82	24	1
1:A:17:VAL:O	1:A:21:LYS:HB2	0.50	2.05	20	2
1:A:30:PHE:CD2	1:A:66:THR:HB	0.50	2.41	18	1
1:A:57:SER:CB	1:A:65:LEU:HD11	0.50	2.37	23	1
1:A:58:ASP:O	1:A:61:LYS:CD	0.50	2.59	29	1
1:A:16:TYR:CD1	1:A:16:TYR:N	0.50	2.78	10	4
1:A:60:ASP:C	1:A:61:LYS:HG3	0.50	2.32	23	2
1:A:60:ASP:OD1	1:A:60:ASP:N	0.50	2.42	19	5
1:A:18:ASN:O	1:A:21:LYS:HG2	0.50	2.06	30	2
1:A:49:GLU:OE1	1:A:80:ARG:HD2	0.50	2.05	12	1
1:A:49:GLU:CD	1:A:49:GLU:H	0.50	2.14	22	1
1:A:76:LEU:C	1:A:76:LEU:CD2	0.50	2.84	6	13
1:A:23:ILE:CG2	1:A:31:ILE:HG12	0.50	2.36	4	3
1:A:17:VAL:O	1:A:21:LYS:CB	0.50	2.60	5	5
1:A:46:PRO:HG2	1:A:49:GLU:HG3	0.50	1.84	11	1
1:A:45:LEU:HD11	1:A:77:VAL:HG13	0.50	1.84	24	1
1:A:53:ILE:HG21	1:A:77:VAL:CG2	0.50	2.36	27	2
1:A:23:ILE:O	1:A:25:PRO:HD2	0.50	2.07	4	3
1:A:54:TRP:NE1	1:A:58:ASP:CG	0.50	2.70	24	2
1:A:81:LYS:HD2	1:A:81:LYS:O	0.50	2.07	6	1
1:A:54:TRP:CD2	1:A:65:LEU:HD13	0.50	2.42	16	2
1:A:32:PRO:C	1:A:34:SER:H	0.49	2.15	29	4
1:A:11:GLU:OE1	1:A:11:GLU:N	0.49	2.43	21	4
1:A:16:TYR:CZ	1:A:78:VAL:HG21	0.49	2.42	28	1
1:A:10:ASP:OD1	1:A:13:ARG:CD	0.49	2.59	3	1
1:A:52:HIS:NE2	1:A:56:LEU:HD11	0.49	2.21	15	2
1:A:37:LYS:O	1:A:50:LEU:CD2	0.49	2.60	1	1
1:A:45:LEU:H	1:A:45:LEU:HD12	0.49	1.66	29	1
1:A:66:THR:O	1:A:69:GLU:N	0.49	2.45	2	11
1:A:49:GLU:OE1	1:A:80:ARG:NH2	0.49	2.43	6	2
1:A:54:TRP:CZ2	1:A:65:LEU:CD1	0.49	2.94	26	1
1:A:31:ILE:HD12	1:A:70:PHE:CG	0.49	2.42	26	1
1:A:65:LEU:HG	1:A:69:GLU:HB2	0.49	1.83	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:ASP:CG	1:A:27:LEU:N	0.49	2.70	3	4
1:A:37:LYS:CG	1:A:47:ILE:HG13	0.49	2.35	8	1
1:A:49:GLU:CD	1:A:80:ARG:HH21	0.49	2.14	16	1
1:A:13:ARG:NH1	1:A:13:ARG:HG2	0.49	2.22	25	1
1:A:30:PHE:HD1	1:A:66:THR:HG22	0.49	1.67	20	3
1:A:52:HIS:CE1	1:A:56:LEU:HD21	0.49	2.42	16	2
1:A:45:LEU:HD21	1:A:77:VAL:HG13	0.49	1.82	20	1
1:A:61:LYS:O	1:A:61:LYS:CD	0.49	2.61	23	1
1:A:40:PHE:O	1:A:43:SER:HB2	0.49	2.08	14	2
1:A:42:LYS:C	1:A:44:LYS:H	0.49	2.15	7	3
1:A:12:GLN:OE1	1:A:75:HIS:CE1	0.49	2.66	19	1
1:A:49:GLU:CG	1:A:80:ARG:CD	0.48	2.91	14	1
1:A:22:THR:HG23	1:A:23:ILE:CD1	0.48	2.38	26	1
1:A:16:TYR:HB3	1:A:70:PHE:CZ	0.48	2.43	1	1
1:A:9:THR:O	1:A:12:GLN:N	0.48	2.46	24	3
1:A:36:ALA:O	1:A:40:PHE:CD2	0.48	2.66	7	3
1:A:80:ARG:C	1:A:80:ARG:HD3	0.48	2.33	22	2
1:A:54:TRP:CZ3	1:A:65:LEU:HD22	0.48	2.43	8	2
1:A:37:LYS:HZ1	1:A:54:TRP:CB	0.48	2.22	18	1
1:A:52:HIS:HA	1:A:55:GLU:CD	0.48	2.33	13	1
1:A:67:LEU:HD23	1:A:67:LEU:C	0.48	2.33	26	2
1:A:24:GLN:HE21	1:A:29:GLY:C	0.48	2.16	20	1
1:A:80:ARG:HH11	1:A:80:ARG:HG3	0.48	1.68	30	1
1:A:24:GLN:HB2	1:A:70:PHE:CD2	0.48	2.43	26	1
1:A:55:GLU:HA	1:A:55:GLU:OE1	0.48	2.08	10	1
1:A:25:PRO:HD2	1:A:27:LEU:CD2	0.48	2.39	18	1
1:A:57:SER:O	1:A:69:GLU:HB3	0.48	2.09	20	1
1:A:10:ASP:O	1:A:11:GLU:C	0.48	2.56	24	1
1:A:21:LYS:C	1:A:21:LYS:CD	0.48	2.86	4	2
1:A:67:LEU:HD22	1:A:70:PHE:HD2	0.48	1.68	22	3
1:A:27:LEU:HA	1:A:67:LEU:CD1	0.48	2.38	24	2
1:A:24:GLN:OE1	1:A:31:ILE:CG1	0.48	2.61	28	1
1:A:61:LYS:O	1:A:61:LYS:HD2	0.48	2.09	17	1
1:A:13:ARG:HD2	1:A:13:ARG:C	0.47	2.34	7	1
1:A:26:ASP:CA	1:A:67:LEU:CD1	0.47	2.92	18	1
1:A:14:GLN:OE1	1:A:15:TYR:N	0.47	2.47	27	1
1:A:13:ARG:CD	1:A:26:ASP:OD2	0.47	2.63	5	1
1:A:11:GLU:N	1:A:11:GLU:CD	0.47	2.72	25	1
1:A:66:THR:OG1	1:A:69:GLU:HG3	0.47	2.09	1	2
1:A:16:TYR:OH	1:A:71:CYS:SG	0.47	2.72	17	2
1:A:26:ASP:N	1:A:67:LEU:HD11	0.47	2.24	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:ASP:HA	1:A:67:LEU:HD13	0.47	1.85	18	1
1:A:37:LYS:NZ	1:A:54:TRP:CB	0.47	2.78	18	1
1:A:66:THR:HG23	1:A:69:GLU:H	0.47	1.69	14	3
1:A:81:LYS:CA	1:A:81:LYS:CE	0.47	2.91	29	1
1:A:26:ASP:OD1	1:A:27:LEU:N	0.47	2.48	8	5
1:A:16:TYR:CB	1:A:74:PHE:CE2	0.47	2.98	5	1
1:A:50:LEU:CD1	1:A:53:ILE:HD12	0.47	2.22	10	1
1:A:17:VAL:O	1:A:21:LYS:N	0.47	2.45	19	4
1:A:27:LEU:N	1:A:67:LEU:HD13	0.47	2.24	18	1
1:A:51:SER:C	1:A:55:GLU:OE1	0.47	2.58	26	1
1:A:25:PRO:HG2	1:A:27:LEU:CD2	0.47	2.39	28	1
1:A:26:ASP:CA	1:A:67:LEU:HD12	0.47	2.40	29	2
1:A:54:TRP:O	1:A:57:SER:N	0.47	2.48	23	1
1:A:52:HIS:CD2	1:A:80:ARG:NH1	0.47	2.83	2	1
1:A:24:GLN:HG3	1:A:67:LEU:HG	0.47	1.87	8	2
1:A:12:GLN:HA	1:A:15:TYR:HB3	0.46	1.86	16	1
1:A:24:GLN:CD	1:A:67:LEU:HA	0.46	2.35	20	1
1:A:37:LYS:NZ	1:A:54:TRP:HB2	0.46	2.25	20	2
1:A:27:LEU:N	1:A:27:LEU:CD1	0.46	2.79	4	1
1:A:45:LEU:CD2	1:A:77:VAL:HG13	0.46	2.41	20	1
1:A:81:LYS:HD3	1:A:81:LYS:O	0.46	2.10	3	1
1:A:11:GLU:OE2	1:A:14:GLN:NE2	0.46	2.47	5	1
1:A:54:TRP:CZ2	1:A:63:GLY:C	0.46	2.93	23	3
1:A:45:LEU:O	1:A:50:LEU:HD11	0.46	2.09	23	1
1:A:33:GLY:N	1:A:54:TRP:CH2	0.46	2.83	17	3
1:A:73:ALA:O	1:A:77:VAL:CG2	0.46	2.60	23	1
1:A:16:TYR:CG	1:A:17:VAL:N	0.46	2.83	16	3
1:A:16:TYR:CD1	1:A:74:PHE:CD2	0.46	3.04	11	1
1:A:58:ASP:OD1	1:A:61:LYS:CA	0.46	2.64	19	1
1:A:13:ARG:HH11	1:A:13:ARG:CG	0.46	2.24	2	1
1:A:37:LYS:HG3	1:A:47:ILE:HG23	0.46	1.87	5	1
1:A:21:LYS:HA	1:A:25:PRO:HA	0.46	1.87	7	1
1:A:16:TYR:HB3	1:A:74:PHE:CE2	0.46	2.46	12	1
1:A:21:LYS:HD3	1:A:22:THR:N	0.46	2.25	22	1
1:A:70:PHE:O	1:A:74:PHE:HB2	0.46	2.11	11	1
1:A:45:LEU:CD2	1:A:80:ARG:HG2	0.46	2.29	18	1
1:A:54:TRP:O	1:A:55:GLU:C	0.46	2.59	29	3
1:A:26:ASP:C	1:A:28:ASN:N	0.46	2.72	8	2
1:A:8:ILE:CG1	1:A:75:HIS:CD2	0.46	2.99	9	3
1:A:14:GLN:HG3	1:A:15:TYR:N	0.46	2.25	15	1
1:A:52:HIS:O	1:A:55:GLU:CG	0.45	2.64	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:GLY:O	1:A:37:LYS:HE2	0.45	2.11	5	1
1:A:20:PHE:O	1:A:23:ILE:N	0.45	2.49	24	4
1:A:24:GLN:NE2	1:A:30:PHE:HA	0.45	2.26	20	1
1:A:41:THR:O	1:A:44:LYS:N	0.45	2.48	14	1
1:A:80:ARG:HG3	1:A:80:ARG:NH1	0.45	2.25	30	1
1:A:70:PHE:CD1	1:A:70:PHE:C	0.45	2.91	14	9
1:A:81:LYS:C	1:A:81:LYS:CD	0.45	2.84	3	1
1:A:32:PRO:O	1:A:34:SER:N	0.45	2.49	11	4
1:A:18:ASN:HA	1:A:21:LYS:HD3	0.45	1.88	17	1
1:A:61:LYS:HD2	1:A:61:LYS:C	0.45	2.35	23	1
1:A:46:PRO:O	1:A:49:GLU:N	0.45	2.49	25	1
1:A:24:GLN:CB	1:A:70:PHE:CD2	0.45	3.00	26	1
1:A:40:PHE:CB	1:A:50:LEU:HD21	0.45	2.41	3	2
1:A:17:VAL:HG22	1:A:25:PRO:O	0.45	2.11	5	1
1:A:8:ILE:HA	1:A:75:HIS:CE1	0.45	2.47	10	1
1:A:53:ILE:CD1	1:A:80:ARG:HH21	0.45	2.25	24	1
1:A:24:GLN:OE1	1:A:24:GLN:HA	0.45	2.10	21	3
1:A:30:PHE:HD1	1:A:66:THR:HA	0.45	1.71	26	1
1:A:10:ASP:O	1:A:13:ARG:N	0.45	2.50	24	1
1:A:80:ARG:HG2	1:A:80:ARG:NH1	0.45	2.26	28	3
1:A:23:ILE:O	1:A:25:PRO:CD	0.45	2.65	28	3
1:A:60:ASP:O	1:A:61:LYS:HB3	0.45	2.11	23	2
1:A:41:THR:OG1	1:A:50:LEU:HD22	0.45	2.11	1	1
1:A:31:ILE:HG22	1:A:31:ILE:O	0.45	2.11	8	1
1:A:41:THR:O	1:A:42:LYS:C	0.45	2.59	14	1
1:A:16:TYR:CE1	1:A:74:PHE:CD2	0.45	3.05	26	1
1:A:9:THR:O	1:A:10:ASP:C	0.45	2.60	12	7
1:A:62:ASP:CG	1:A:64:ALA:H	0.45	2.20	9	1
1:A:45:LEU:CD2	1:A:80:ARG:HD3	0.45	2.42	13	1
1:A:13:ARG:O	1:A:16:TYR:CD2	0.45	2.70	16	1
1:A:23:ILE:N	1:A:23:ILE:HD12	0.45	2.27	24	1
1:A:20:PHE:CD2	1:A:70:PHE:CE2	0.44	3.05	5	2
1:A:55:GLU:OE1	1:A:61:LYS:HD3	0.44	2.12	16	1
1:A:54:TRP:CD1	1:A:58:ASP:HB2	0.44	2.48	24	1
1:A:76:LEU:O	1:A:79:ALA:HB3	0.44	2.12	29	1
1:A:16:TYR:O	1:A:20:PHE:HB2	0.44	2.12	2	1
1:A:44:LYS:O	1:A:44:LYS:CD	0.44	2.65	3	1
1:A:11:GLU:CD	1:A:11:GLU:N	0.44	2.75	10	1
1:A:54:TRP:O	1:A:58:ASP:HB2	0.44	2.12	24	1
1:A:8:ILE:HA	1:A:75:HIS:HE2	0.44	1.69	28	1
1:A:46:PRO:HG2	1:A:49:GLU:HG2	0.44	1.87	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:66:THR:C	1:A:68:ASP:N	0.44	2.74	18	1
1:A:52:HIS:HD2	1:A:80:ARG:CZ	0.44	2.25	2	1
1:A:16:TYR:CD1	1:A:70:PHE:CZ	0.44	3.06	22	2
1:A:67:LEU:C	1:A:67:LEU:CD2	0.44	2.91	26	3
1:A:58:ASP:OD2	1:A:61:LYS:N	0.44	2.51	14	1
1:A:44:LYS:HE3	1:A:44:LYS:CA	0.44	2.43	3	1
1:A:10:ASP:CG	1:A:13:ARG:NH2	0.44	2.75	5	1
1:A:36:ALA:O	1:A:40:PHE:HD1	0.44	1.94	13	2
1:A:33:GLY:CA	1:A:54:TRP:CH2	0.44	3.01	17	1
1:A:13:ARG:HA	1:A:16:TYR:CE2	0.44	2.48	23	1
1:A:52:HIS:ND1	1:A:55:GLU:OE2	0.44	2.45	12	1
1:A:46:PRO:O	1:A:50:LEU:HD23	0.44	2.12	14	1
1:A:17:VAL:O	1:A:18:ASN:C	0.44	2.61	1	7
1:A:24:GLN:CD	1:A:31:ILE:HG13	0.44	2.38	3	1
1:A:52:HIS:HA	1:A:55:GLU:HG2	0.44	1.89	12	1
1:A:24:GLN:CD	1:A:29:GLY:C	0.44	2.86	15	2
1:A:40:PHE:HB2	1:A:50:LEU:HD21	0.44	1.90	2	2
1:A:51:SER:O	1:A:54:TRP:N	0.44	2.50	6	2
1:A:20:PHE:CE2	1:A:31:ILE:HD13	0.44	2.48	12	2
1:A:45:LEU:HB3	1:A:50:LEU:CD1	0.44	2.42	7	1
1:A:40:PHE:O	1:A:43:SER:CB	0.43	2.67	27	3
1:A:16:TYR:CD2	1:A:74:PHE:HB3	0.43	2.48	10	1
1:A:21:LYS:O	1:A:22:THR:C	0.43	2.61	11	2
1:A:30:PHE:CB	1:A:64:ALA:HB1	0.43	2.43	18	1
1:A:12:GLN:OE1	1:A:15:TYR:CD2	0.43	2.71	23	1
1:A:16:TYR:CE1	1:A:74:PHE:CE1	0.43	3.06	6	1
1:A:49:GLU:C	1:A:51:SER:N	0.43	2.76	16	1
1:A:77:VAL:O	1:A:80:ARG:CB	0.43	2.66	27	1
1:A:67:LEU:O	1:A:67:LEU:HD23	0.43	2.13	8	1
1:A:45:LEU:HB3	1:A:50:LEU:HD11	0.43	1.90	15	1
1:A:22:THR:O	1:A:22:THR:HG22	0.43	2.12	16	1
1:A:55:GLU:OE1	1:A:61:LYS:CD	0.43	2.67	16	1
1:A:18:ASN:O	1:A:21:LYS:CG	0.43	2.66	22	1
1:A:20:PHE:CE2	1:A:31:ILE:CD1	0.43	3.01	22	1
1:A:28:ASN:ND2	1:A:30:PHE:CZ	0.43	2.87	26	1
1:A:21:LYS:HG2	1:A:25:PRO:CB	0.43	2.44	9	2
1:A:31:ILE:CG2	1:A:36:ALA:N	0.43	2.82	30	1
1:A:8:ILE:HG13	1:A:75:HIS:CD2	0.43	2.48	12	1
1:A:16:TYR:N	1:A:16:TYR:CD1	0.43	2.86	15	2
1:A:67:LEU:HD23	1:A:70:PHE:CD2	0.43	2.49	18	1
1:A:55:GLU:CD	1:A:61:LYS:HE2	0.43	2.38	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:ILE:O	1:A:57:SER:N	0.43	2.50	18	1
1:A:20:PHE:O	1:A:21:LYS:C	0.43	2.62	17	10
1:A:23:ILE:CG2	1:A:31:ILE:CG1	0.43	2.97	19	2
1:A:32:PRO:HA	1:A:64:ALA:HA	0.43	1.89	4	1
1:A:23:ILE:HD12	1:A:23:ILE:H	0.42	1.74	2	1
1:A:20:PHE:CG	1:A:70:PHE:CE1	0.42	3.06	28	2
1:A:12:GLN:O	1:A:15:TYR:N	0.42	2.51	5	1
1:A:58:ASP:O	1:A:61:LYS:N	0.42	2.52	16	3
1:A:17:VAL:HG13	1:A:25:PRO:CA	0.42	2.42	10	1
1:A:13:ARG:O	1:A:16:TYR:CE2	0.42	2.73	12	1
1:A:32:PRO:O	1:A:33:GLY:C	0.42	2.62	15	6
1:A:47:ILE:HA	1:A:50:LEU:HD13	0.42	1.91	28	1
1:A:60:ASP:N	1:A:60:ASP:OD1	0.42	2.52	10	2
1:A:44:LYS:HA	1:A:44:LYS:CE	0.42	2.32	17	1
1:A:46:PRO:C	1:A:48:LEU:N	0.42	2.76	27	3
1:A:43:SER:OG	1:A:44:LYS:N	0.42	2.52	29	1
1:A:27:LEU:HA	1:A:67:LEU:HB3	0.42	1.90	1	1
1:A:47:ILE:HA	1:A:50:LEU:HB2	0.42	1.92	12	1
1:A:81:LYS:HA	1:A:81:LYS:CE	0.42	2.27	29	1
1:A:37:LYS:CG	1:A:47:ILE:HG23	0.42	2.44	5	1
1:A:40:PHE:O	1:A:41:THR:C	0.42	2.63	21	4
1:A:74:PHE:CD1	1:A:74:PHE:C	0.42	2.98	6	1
1:A:50:LEU:O	1:A:51:SER:C	0.42	2.61	29	2
1:A:80:ARG:CD	1:A:80:ARG:O	0.42	2.67	16	1
1:A:43:SER:OG	1:A:45:LEU:HG	0.42	2.15	28	1
1:A:81:LYS:HE2	1:A:81:LYS:O	0.42	2.14	29	1
1:A:60:ASP:OD1	1:A:62:ASP:N	0.42	2.52	2	1
1:A:49:GLU:CD	1:A:80:ARG:HH12	0.42	2.16	5	1
1:A:49:GLU:O	1:A:50:LEU:C	0.42	2.62	12	3
1:A:13:ARG:NH2	1:A:26:ASP:OD2	0.42	2.48	18	1
1:A:61:LYS:CD	1:A:61:LYS:C	0.42	2.93	23	1
1:A:16:TYR:CD2	1:A:74:PHE:CD2	0.42	3.07	21	1
1:A:23:ILE:CG2	1:A:31:ILE:HD11	0.42	2.44	2	1
1:A:49:GLU:CD	1:A:80:ARG:HH11	0.42	2.23	14	1
1:A:24:GLN:OE1	1:A:70:PHE:CB	0.42	2.68	20	1
1:A:62:ASP:OD2	1:A:64:ALA:N	0.42	2.49	24	1
1:A:24:GLN:HE22	1:A:29:GLY:HA3	0.42	1.75	9	1
1:A:26:ASP:HA	1:A:67:LEU:HD12	0.42	1.92	13	1
1:A:79:ALA:O	1:A:80:ARG:C	0.42	2.63	13	1
1:A:37:LYS:CE	1:A:50:LEU:HB3	0.42	2.36	20	1
1:A:34:SER:OG	1:A:35:ALA:N	0.42	2.53	29	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:ILE:HG23	1:A:75:HIS:HD2	0.42	1.67	4	1
1:A:43:SER:C	1:A:45:LEU:N	0.42	2.78	7	1
1:A:20:PHE:C	1:A:22:THR:N	0.42	2.77	22	2
1:A:46:PRO:HD2	1:A:49:GLU:OE1	0.42	2.15	23	1
1:A:26:ASP:CA	1:A:67:LEU:HD11	0.42	2.45	25	1
1:A:14:GLN:O	1:A:15:TYR:C	0.41	2.63	3	1
1:A:10:ASP:OD2	1:A:13:ARG:NH2	0.41	2.50	5	1
1:A:76:LEU:CD2	1:A:76:LEU:C	0.41	2.93	13	1
1:A:52:HIS:CE1	1:A:56:LEU:CD2	0.41	3.03	16	1
1:A:37:LYS:HA	1:A:50:LEU:HD23	0.41	1.90	1	1
1:A:23:ILE:CG2	1:A:31:ILE:CD1	0.41	2.99	2	1
1:A:45:LEU:HB2	1:A:50:LEU:HD11	0.41	1.91	26	2
1:A:80:ARG:NH1	1:A:80:ARG:CG	0.41	2.82	28	1
1:A:8:ILE:CG1	1:A:75:HIS:HD2	0.41	2.28	9	1
1:A:52:HIS:O	1:A:55:GLU:HG2	0.41	2.16	13	1
1:A:57:SER:HB3	1:A:65:LEU:HD11	0.41	1.93	23	1
1:A:28:ASN:C	1:A:28:ASN:HD22	0.41	2.23	26	1
1:A:50:LEU:O	1:A:53:ILE:N	0.41	2.53	29	1
1:A:8:ILE:CD1	1:A:75:HIS:HB2	0.41	2.46	6	1
1:A:43:SER:O	1:A:44:LYS:HB3	0.41	2.16	6	2
1:A:58:ASP:O	1:A:61:LYS:HE2	0.41	2.15	7	1
1:A:60:ASP:C	1:A:61:LYS:CG	0.41	2.94	17	1
1:A:26:ASP:OD1	1:A:27:LEU:CD1	0.41	2.69	21	1
1:A:27:LEU:HA	1:A:67:LEU:CB	0.41	2.45	1	1
1:A:66:THR:H	1:A:69:GLU:CD	0.41	2.23	1	1
1:A:24:GLN:HE22	1:A:29:GLY:CA	0.41	2.29	4	1
1:A:33:GLY:HA2	1:A:54:TRP:CH2	0.41	2.50	5	2
1:A:78:VAL:O	1:A:81:LYS:CB	0.41	2.69	5	1
1:A:16:TYR:HD1	1:A:70:PHE:CE2	0.41	2.33	7	1
1:A:21:LYS:C	1:A:23:ILE:N	0.41	2.78	28	2
1:A:47:ILE:N	1:A:47:ILE:CD1	0.41	2.76	17	2
1:A:24:GLN:CA	1:A:24:GLN:NE2	0.41	2.83	29	2
1:A:43:SER:HB2	1:A:45:LEU:HG	0.41	1.92	3	1
1:A:43:SER:O	1:A:45:LEU:CD1	0.41	2.69	6	1
1:A:24:GLN:HG2	1:A:67:LEU:CD2	0.41	2.46	7	1
1:A:52:HIS:O	1:A:53:ILE:C	0.41	2.63	24	1
1:A:77:VAL:O	1:A:78:VAL:C	0.41	2.64	26	1
1:A:27:LEU:HD23	1:A:27:LEU:N	0.41	2.29	28	1
1:A:28:ASN:OD1	1:A:30:PHE:CZ	0.41	2.74	28	1
1:A:47:ILE:O	1:A:51:SER:CB	0.41	2.68	3	1
1:A:30:PHE:HA	1:A:65:LEU:O	0.41	2.15	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:24:GLN:NE2	1:A:24:GLN:HA	0.41	2.31	13	1
1:A:33:GLY:O	1:A:37:LYS:HG3	0.41	2.16	17	1
1:A:54:TRP:HE1	1:A:58:ASP:CG	0.41	2.24	24	1
1:A:47:ILE:CD1	1:A:47:ILE:N	0.41	2.78	27	1
1:A:21:LYS:CG	1:A:25:PRO:HB3	0.41	2.46	9	1
1:A:21:LYS:O	1:A:25:PRO:HD3	0.41	2.15	24	1
1:A:28:ASN:O	1:A:28:ASN:OD1	0.40	2.38	1	1
1:A:16:TYR:OH	1:A:75:HIS:ND1	0.40	2.50	13	1
1:A:80:ARG:NE	1:A:80:ARG:C	0.40	2.79	7	1
1:A:19:GLN:HA	1:A:19:GLN:NE2	0.40	2.31	11	1
1:A:14:GLN:NE2	1:A:15:TYR:CA	0.40	2.85	13	1
1:A:23:ILE:O	1:A:24:GLN:NE2	0.40	2.53	16	1
1:A:11:GLU:CD	1:A:11:GLU:H	0.40	2.20	10	1
1:A:24:GLN:HB2	1:A:31:ILE:HD11	0.40	1.94	5	1
1:A:21:LYS:HG3	1:A:22:THR:N	0.40	2.31	30	1
1:A:21:LYS:CD	1:A:25:PRO:HB3	0.40	2.46	9	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	74/92 (80%)	63±3 (85±3%)	9±2 (12±3%)	2±1 (2±2%)	6	43
All	All	2220/2760 (80%)	1896 (85%)	269 (12%)	55 (2%)	6	43

All 9 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	44	LYS	18
1	A	59	PHE	8
1	A	48	LEU	8
1	A	27	LEU	6
1	A	25	PRO	6
1	A	61	LYS	4

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Mol	Chain	Res	Type	Models (Total)
1	A	47	ILE	3
1	A	43	SER	1
1	A	33	GLY	1

6.3.2 Protein sidechains ⓘ

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	65/82 (79%)	54±3 (82±4%)	11±3 (18±4%)	4	37
All	All	1950/2460 (79%)	1607 (82%)	343 (18%)	4	37

All 42 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	68	ASP	28
1	A	39	PHE	21
1	A	71	CYS	18
1	A	24	GLN	18
1	A	18	ASN	17
1	A	38	GLU	16
1	A	75	HIS	14
1	A	20	PHE	14
1	A	65	LEU	13
1	A	12	GLN	13
1	A	67	LEU	13
1	A	30	PHE	11
1	A	80	ARG	11
1	A	48	LEU	11
1	A	11	GLU	10
1	A	61	LYS	10
1	A	10	ASP	10
1	A	21	LYS	9
1	A	13	ARG	8
1	A	14	GLN	8
1	A	37	LYS	8
1	A	47	ILE	7

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Mol	Chain	Res	Type	Models (Total)
1	A	59	PHE	7
1	A	44	LYS	7
1	A	27	LEU	4
1	A	50	LEU	4
1	A	55	GLU	4
1	A	42	LYS	4
1	A	19	GLN	3
1	A	49	GLU	3
1	A	9	THR	3
1	A	45	LEU	2
1	A	81	LYS	2
1	A	70	PHE	2
1	A	76	LEU	2
1	A	58	ASP	2
1	A	23	ILE	1
1	A	57	SER	1
1	A	74	PHE	1
1	A	28	ASN	1
1	A	31	ILE	1
1	A	66	THR	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 ⓘ

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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

No chemical shift data were provided