



Full wwPDB NMR Structure Validation Report ⓘ

Mar 9, 2026 – 05:33 AM UTC

PDB ID : 1V27 / pdb_00001v27
Title : Solution structure of the first C2 domain of RIM2
Authors : Nagashima, T.; Hayashi, F.; Yokoyama, S.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2003-10-07

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

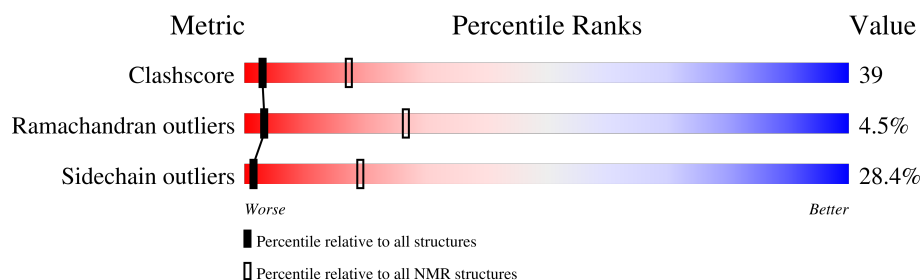
1 Overall quality at a glance

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	141	23% 38% 10% 29%

2 Ensemble composition and analysis

This entry contains 20 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:8-A:33, A:42-A:51, A:60-A:99, A:109-A:132 (100)	0.38	2

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

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

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

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2314 atoms, of which 1153 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Regulating synaptic membrane exocytosis protein 2.

Mol	Chain	Residues	Atoms						Trace
1	A	141	Total	C	H	N	O	S	0
			2314	735	1153	208	217	1	

There are 13 discrepancies between the modelled and reference sequences:

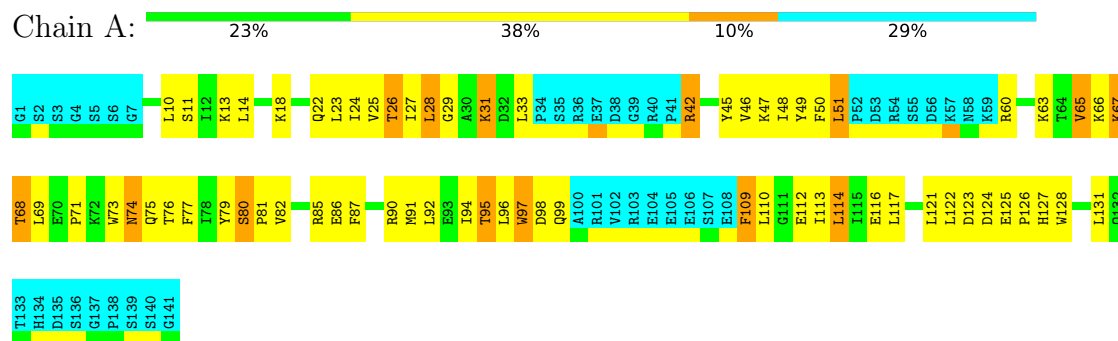
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	cloning artifact	UNP Q9UQ26
A	2	SER	-	cloning artifact	UNP Q9UQ26
A	3	SER	-	cloning artifact	UNP Q9UQ26
A	4	GLY	-	cloning artifact	UNP Q9UQ26
A	5	SER	-	cloning artifact	UNP Q9UQ26
A	6	SER	-	cloning artifact	UNP Q9UQ26
A	7	GLY	-	cloning artifact	UNP Q9UQ26
A	136	SER	-	cloning artifact	UNP Q9UQ26
A	137	GLY	-	cloning artifact	UNP Q9UQ26
A	138	PRO	-	cloning artifact	UNP Q9UQ26
A	139	SER	-	cloning artifact	UNP Q9UQ26
A	140	SER	-	cloning artifact	UNP Q9UQ26
A	141	GLY	-	cloning artifact	UNP Q9UQ26

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: Regulating synaptic membrane exocytosis protein 2

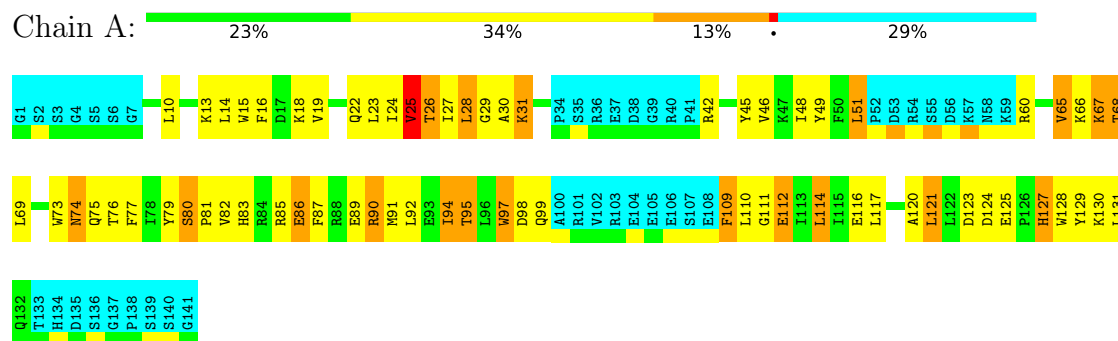


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

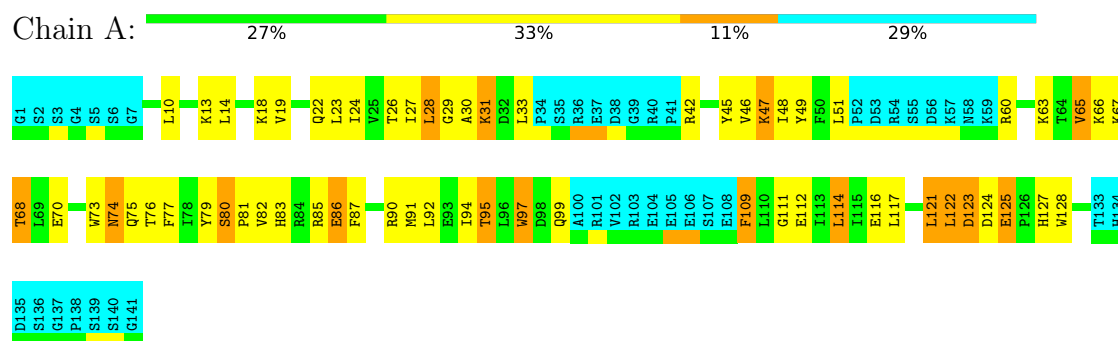
4.2.1 Score per residue for model 1

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



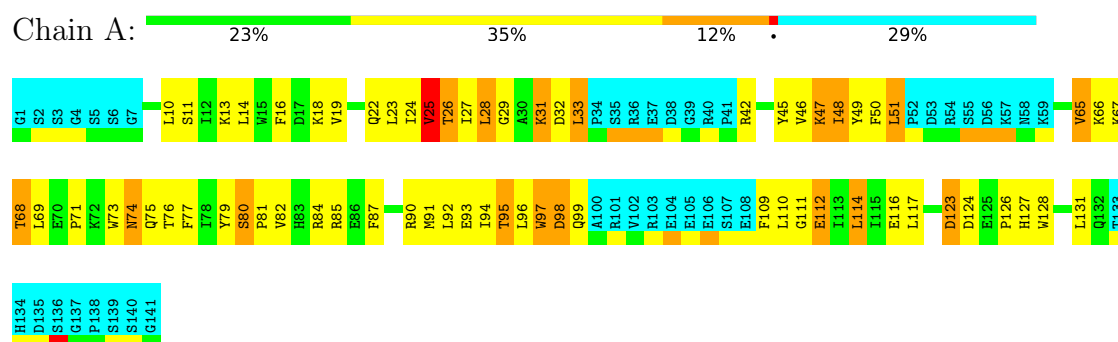
4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



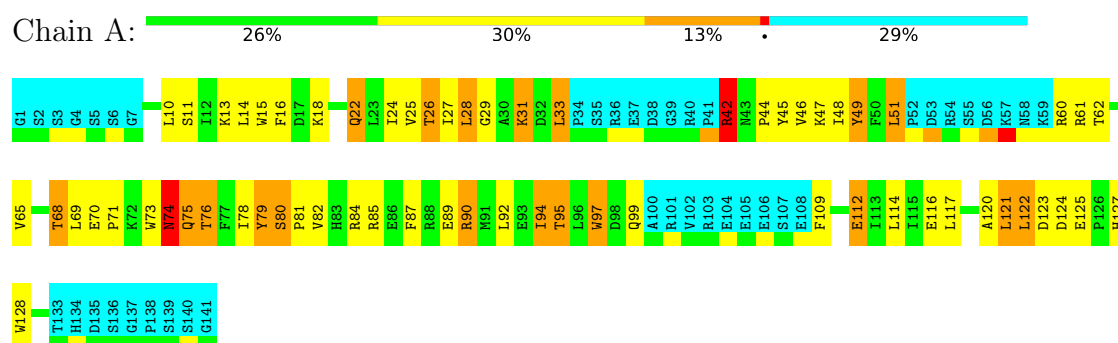
4.2.3 Score per residue for model 3

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



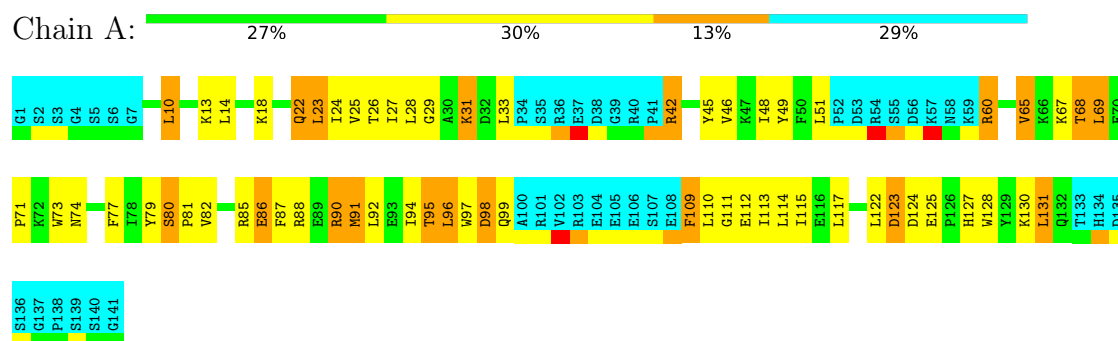
4.2.4 Score per residue for model 4

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



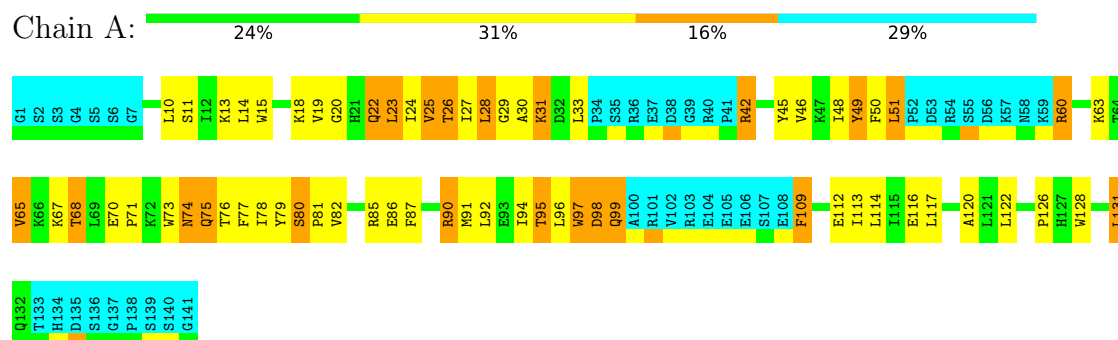
4.2.5 Score per residue for model 5

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



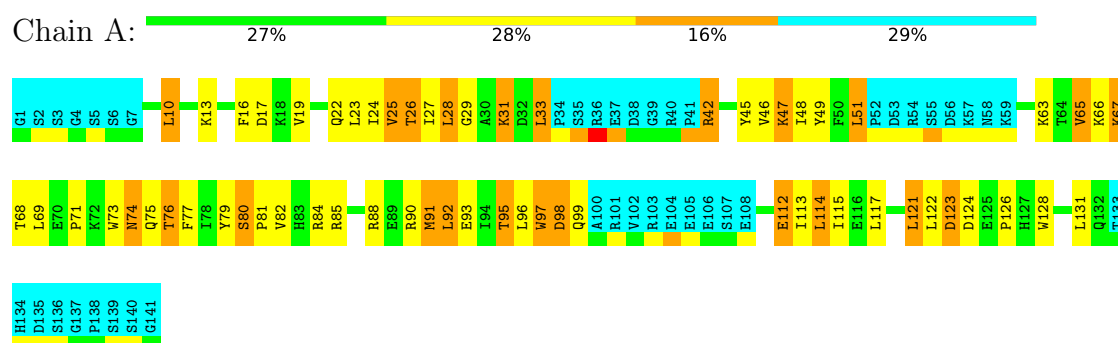
4.2.6 Score per residue for model 6

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



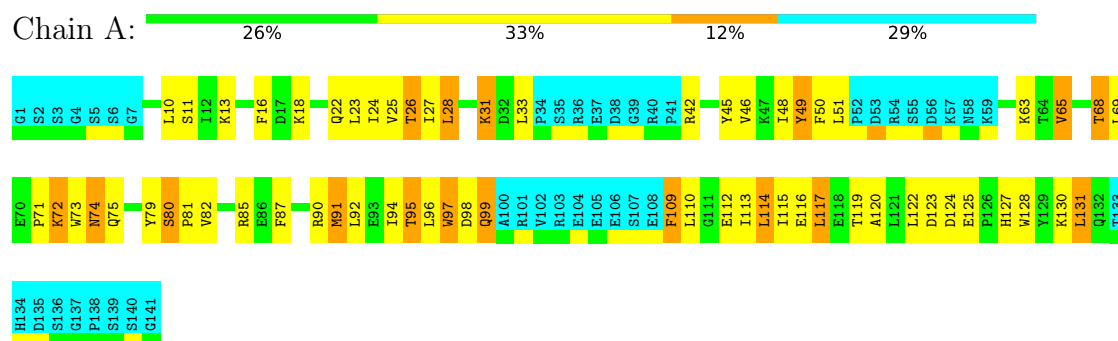
4.2.7 Score per residue for model 7

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



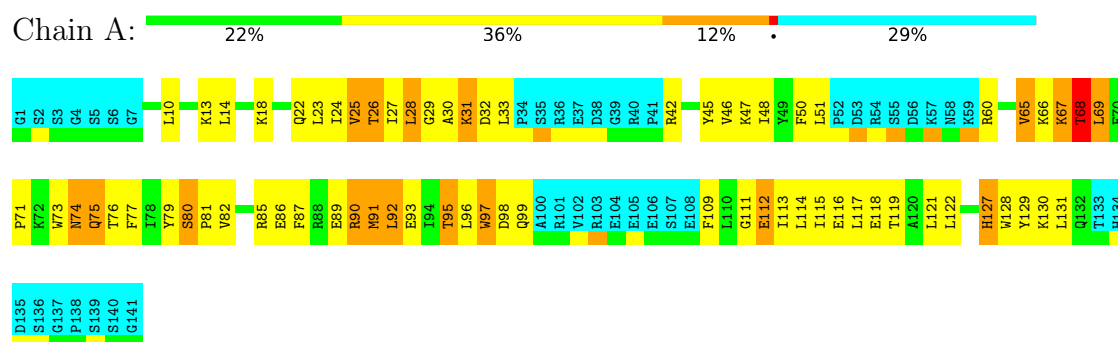
4.2.8 Score per residue for model 8

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



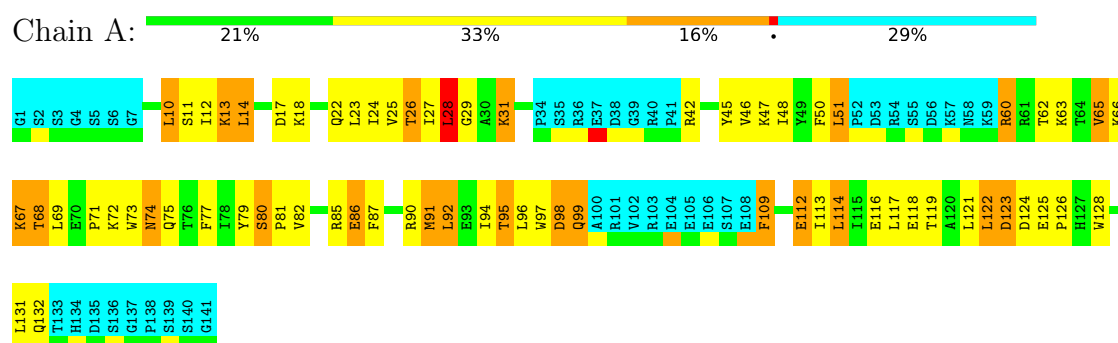
4.2.9 Score per residue for model 9

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



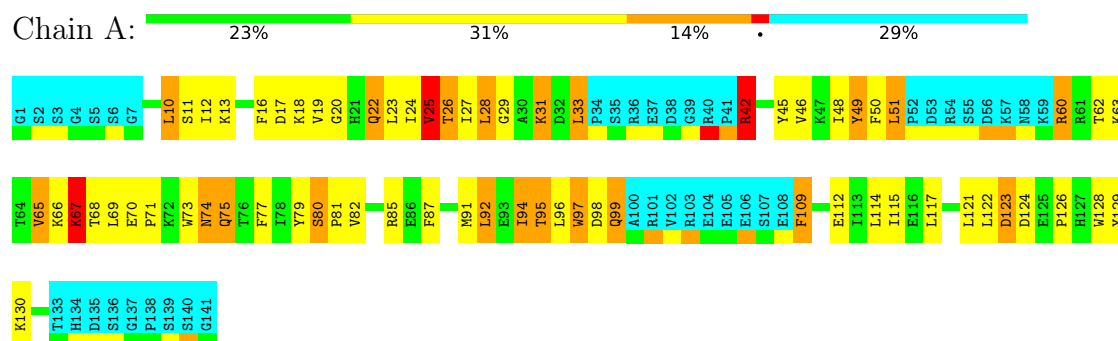
4.2.10 Score per residue for model 10

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



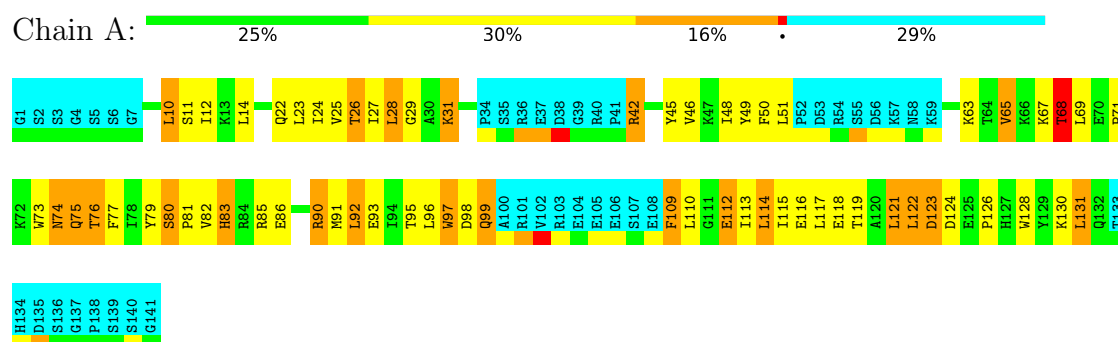
4.2.11 Score per residue for model 11

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



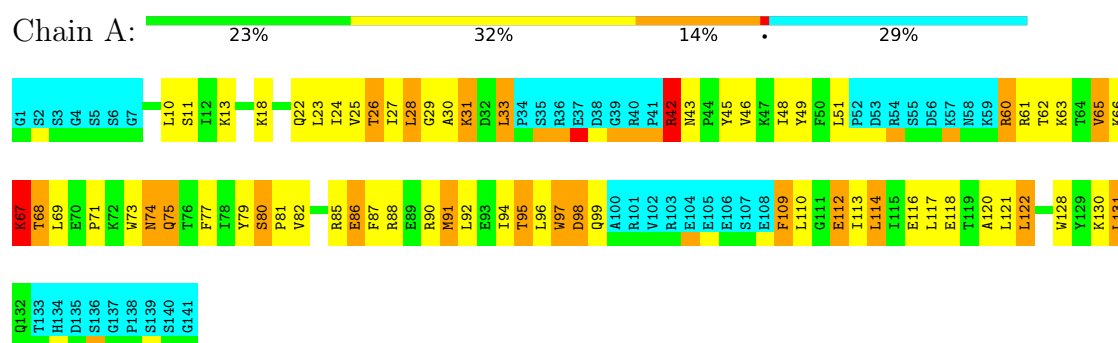
4.2.12 Score per residue for model 12

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



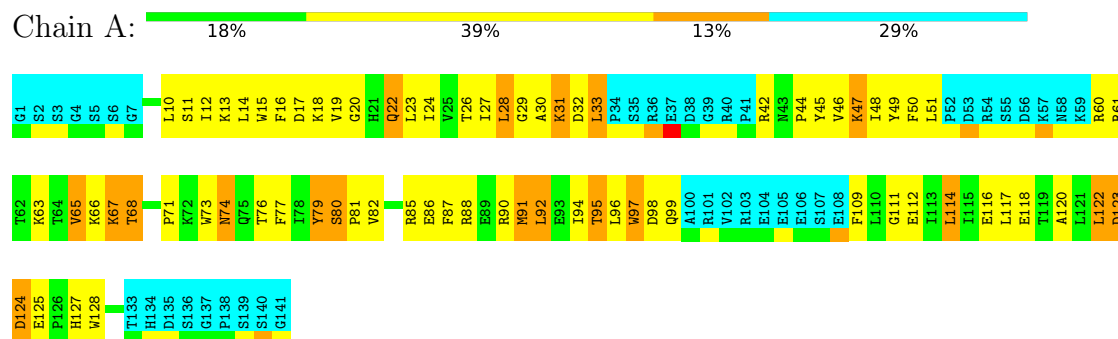
4.2.13 Score per residue for model 13

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



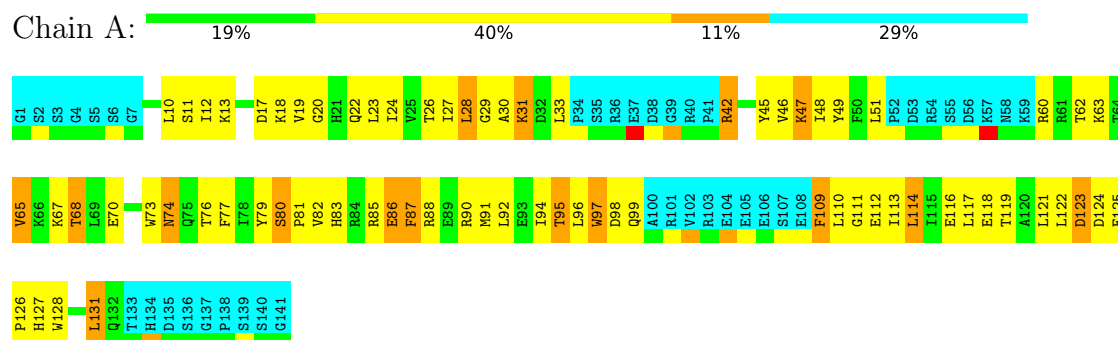
4.2.14 Score per residue for model 14

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



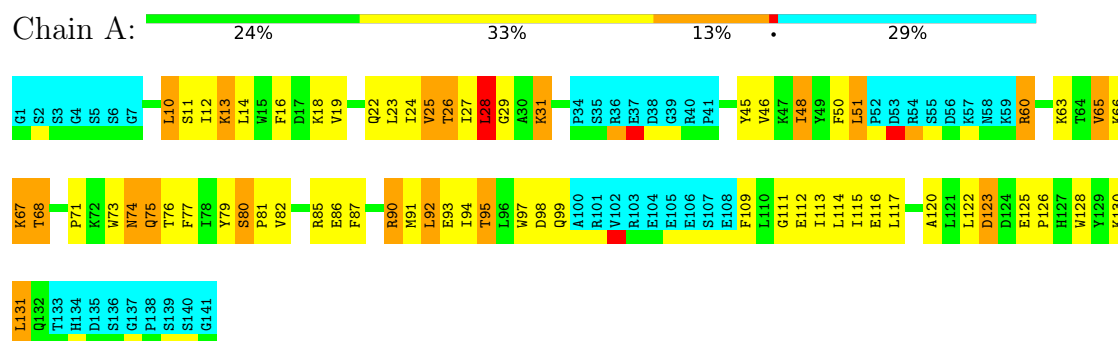
4.2.15 Score per residue for model 15

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



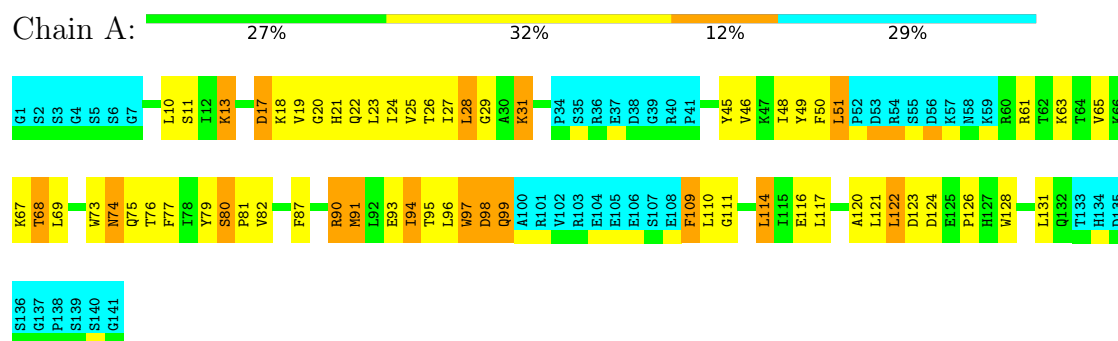
4.2.16 Score per residue for model 16

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



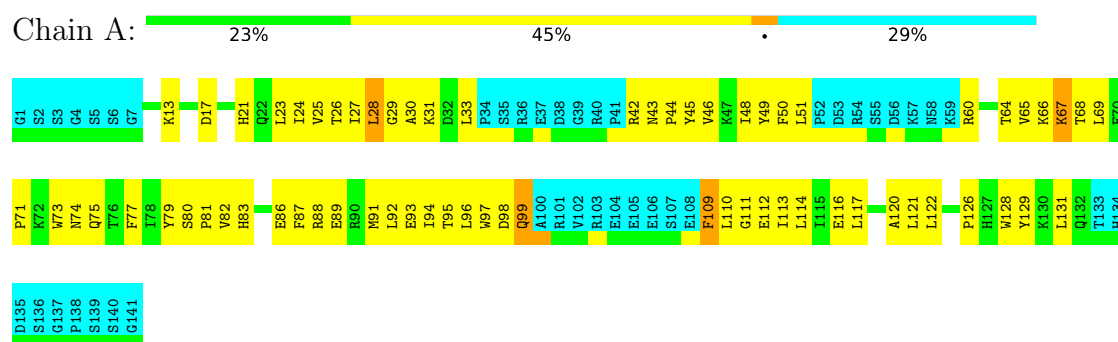
4.2.17 Score per residue for model 17

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



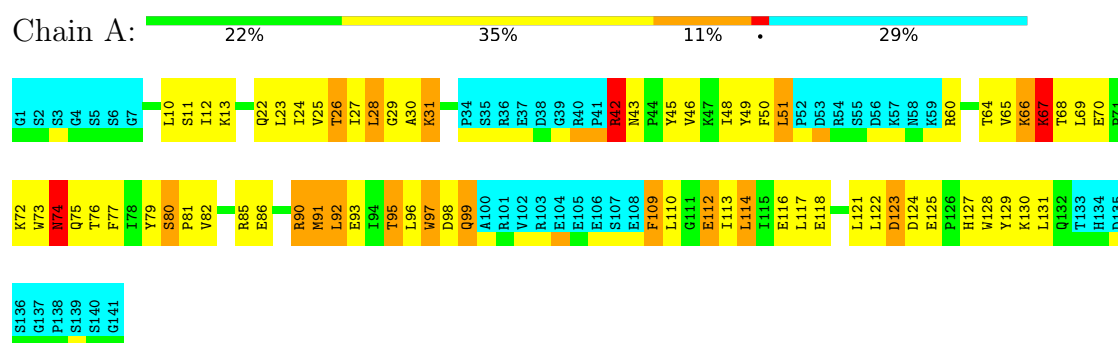
4.2.18 Score per residue for model 18

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



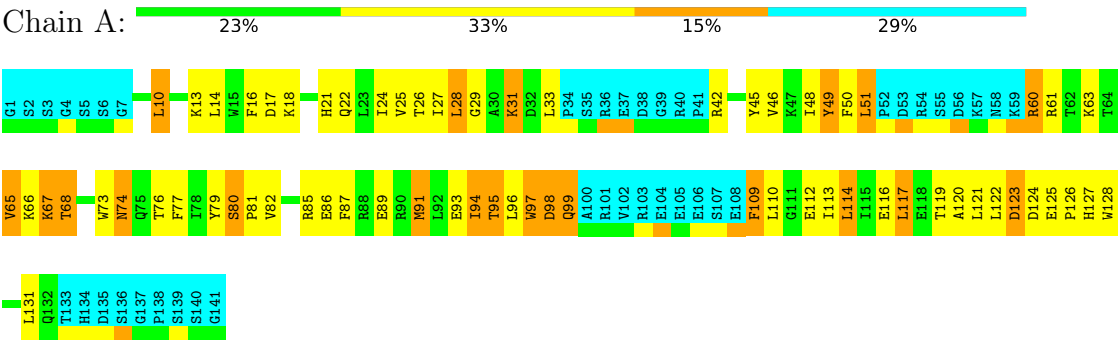
4.2.19 Score per residue for model 19

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



4.2.20 Score per residue for model 20

- Molecule 1: Regulating synaptic membrane exocytosis protein 2



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations, target function*.

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

Software name	Classification	Version
CYANA	structure solution	1.0.7
CYANA	refinement	1.0.7

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	862	886	886	68±10
All	All	17240	17720	17720	1368

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 39.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:HD23	1:A:12:ILE:HD11	0.99	1.34	14	3
1:A:121:LEU:HD12	1:A:121:LEU:O	0.94	1.62	10	5
1:A:121:LEU:C	1:A:122:LEU:HD13	0.93	1.88	17	3
1:A:27:ILE:HG22	1:A:73:TRP:CE3	0.93	1.98	9	20
1:A:23:LEU:C	1:A:23:LEU:HD13	0.91	1.90	6	1
1:A:46:VAL:HG22	1:A:96:LEU:HD13	0.87	1.45	20	14
1:A:33:LEU:HD22	1:A:69:LEU:O	0.86	1.69	3	5
1:A:92:LEU:HD23	1:A:117:LEU:HD21	0.83	1.49	7	5
1:A:26:THR:HG23	1:A:75:GLN:O	0.83	1.74	8	13
1:A:65:VAL:HG11	1:A:68:THR:HG21	0.81	1.53	18	16
1:A:96:LEU:HD13	1:A:97:TRP:N	0.79	1.90	5	1
1:A:23:LEU:HB2	1:A:82:VAL:HG11	0.79	1.54	11	18
1:A:27:ILE:HG13	1:A:48:ILE:HD11	0.79	1.53	18	19
1:A:122:LEU:HD22	1:A:122:LEU:N	0.77	1.94	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:THR:HG21	1:A:99:GLN:OE1	0.76	1.81	19	2
1:A:91:MET:HE3	1:A:116:GLU:HG2	0.76	1.58	9	2
1:A:46:VAL:HG23	1:A:73:TRP:CH2	0.75	2.15	20	17
1:A:10:LEU:CD2	1:A:12:ILE:HD11	0.75	2.11	14	1
1:A:94:ILE:HD12	1:A:94:ILE:N	0.74	1.97	17	16
1:A:23:LEU:HD22	1:A:24:ILE:N	0.74	1.96	5	2
1:A:27:ILE:CG1	1:A:48:ILE:HD11	0.73	2.13	10	19
1:A:16:PHE:HB2	1:A:122:LEU:HD13	0.72	1.61	8	4
1:A:23:LEU:CB	1:A:82:VAL:HG11	0.72	2.15	6	2
1:A:28:LEU:HD21	1:A:126:PRO:HB3	0.72	1.60	16	2
1:A:23:LEU:CD1	1:A:25:VAL:HG23	0.72	2.15	5	1
1:A:65:VAL:HG21	1:A:71:PRO:HB3	0.71	1.62	18	10
1:A:46:VAL:CG2	1:A:73:TRP:CH2	0.71	2.74	8	20
1:A:46:VAL:HG23	1:A:73:TRP:CZ2	0.71	2.20	6	20
1:A:92:LEU:HD12	1:A:117:LEU:HD21	0.71	1.63	18	9
1:A:91:MET:CE	1:A:114:LEU:HD12	0.71	2.16	18	1
1:A:13:LYS:CE	1:A:28:LEU:HD21	0.70	2.15	18	16
1:A:10:LEU:HD13	1:A:30:ALA:HB2	0.69	1.64	6	7
1:A:131:LEU:N	1:A:131:LEU:CD2	0.69	2.55	5	6
1:A:23:LEU:C	1:A:24:ILE:HD12	0.69	2.11	6	7
1:A:45:TYR:O	1:A:96:LEU:HD12	0.69	1.87	19	4
1:A:26:THR:HG22	1:A:28:LEU:HD12	0.69	1.64	16	2
1:A:17:ASP:CG	1:A:19:VAL:HG22	0.69	2.13	15	1
1:A:23:LEU:HD11	1:A:25:VAL:CG2	0.69	2.18	5	1
1:A:50:PHE:CD1	1:A:92:LEU:HD21	0.69	2.23	9	5
1:A:15:TRP:O	1:A:23:LEU:HD22	0.68	1.88	6	1
1:A:113:ILE:HD11	1:A:131:LEU:CD2	0.67	2.20	15	6
1:A:131:LEU:CD2	1:A:131:LEU:N	0.66	2.58	15	1
1:A:26:THR:HG22	1:A:28:LEU:CD1	0.66	2.21	16	2
1:A:109:PHE:CE1	1:A:111:GLY:C	0.66	2.74	16	5
1:A:23:LEU:C	1:A:23:LEU:CD1	0.66	2.66	6	1
1:A:33:LEU:HD23	1:A:42:ARG:NH2	0.65	2.07	6	1
1:A:45:TYR:C	1:A:45:TYR:CD1	0.65	2.75	19	5
1:A:23:LEU:CD1	1:A:25:VAL:HG12	0.65	2.21	6	1
1:A:33:LEU:HD21	1:A:96:LEU:HD21	0.65	1.66	6	2
1:A:15:TRP:CE3	1:A:124:ASP:CG	0.65	2.74	14	1
1:A:14:LEU:HB2	1:A:122:LEU:HD23	0.65	1.67	10	3
1:A:109:PHE:CZ	1:A:111:GLY:C	0.64	2.75	14	4
1:A:19:VAL:HG23	1:A:20:GLY:H	0.64	1.52	15	4
1:A:30:ALA:HB1	1:A:33:LEU:HD21	0.64	1.67	18	2
1:A:50:PHE:CD2	1:A:92:LEU:HD21	0.64	2.28	19	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:117:LEU:HD12	1:A:117:LEU:N	0.64	2.08	20	2
1:A:12:ILE:CG2	1:A:14:LEU:HD11	0.63	2.23	10	1
1:A:13:LYS:HE2	1:A:28:LEU:HD21	0.63	1.70	17	5
1:A:24:ILE:HD12	1:A:24:ILE:N	0.63	2.08	17	19
1:A:14:LEU:CB	1:A:122:LEU:HD23	0.63	2.22	10	6
1:A:46:VAL:CG2	1:A:96:LEU:HD13	0.63	2.23	20	1
1:A:47:LYS:CD	1:A:49:TYR:CE2	0.63	2.82	2	4
1:A:33:LEU:O	1:A:69:LEU:HD22	0.63	1.93	3	1
1:A:23:LEU:HD21	1:A:92:LEU:HD11	0.63	1.70	1	1
1:A:95:THR:HG22	1:A:112:GLU:CB	0.63	2.24	10	16
1:A:113:ILE:HD11	1:A:131:LEU:HD22	0.62	1.70	15	4
1:A:28:LEU:HD21	1:A:126:PRO:CB	0.62	2.23	16	2
1:A:91:MET:HE2	1:A:114:LEU:HD12	0.62	1.72	18	1
1:A:45:TYR:O	1:A:45:TYR:CD1	0.62	2.52	19	4
1:A:45:TYR:O	1:A:45:TYR:CG	0.62	2.53	4	15
1:A:43:ASN:HD22	1:A:43:ASN:N	0.62	1.93	18	1
1:A:42:ARG:NH1	1:A:110:LEU:HD21	0.62	2.09	20	2
1:A:95:THR:HG22	1:A:112:GLU:HB2	0.62	1.70	12	9
1:A:23:LEU:HD11	1:A:25:VAL:HG12	0.62	1.71	6	1
1:A:65:VAL:HG21	1:A:71:PRO:CB	0.62	2.25	18	4
1:A:66:LYS:O	1:A:67:LYS:C	0.61	2.43	18	8
1:A:23:LEU:HD11	1:A:25:VAL:HG23	0.61	1.71	5	1
1:A:94:ILE:HD13	1:A:115:ILE:HD12	0.61	1.73	16	3
1:A:50:PHE:CE2	1:A:92:LEU:HD21	0.61	2.31	19	2
1:A:45:TYR:CD1	1:A:45:TYR:O	0.61	2.53	18	14
1:A:91:MET:CE	1:A:114:LEU:HD23	0.61	2.26	19	2
1:A:87:PHE:CD2	1:A:117:LEU:O	0.60	2.54	13	12
1:A:122:LEU:HD13	1:A:122:LEU:N	0.60	2.11	17	2
1:A:11:SER:OG	1:A:128:TRP:CZ3	0.60	2.54	3	5
1:A:11:SER:OG	1:A:128:TRP:CE3	0.59	2.55	3	7
1:A:14:LEU:CD2	1:A:25:VAL:HG22	0.59	2.27	4	1
1:A:50:PHE:CE1	1:A:92:LEU:HD21	0.59	2.32	9	2
1:A:125:GLU:O	1:A:127:HIS:CD2	0.59	2.56	20	2
1:A:92:LEU:CD2	1:A:117:LEU:HD21	0.59	2.25	7	2
1:A:17:ASP:CG	1:A:19:VAL:CG2	0.59	2.76	15	1
1:A:27:ILE:CG2	1:A:73:TRP:CE3	0.58	2.84	1	11
1:A:50:PHE:CZ	1:A:117:LEU:HD11	0.58	2.33	18	3
1:A:97:TRP:CD1	1:A:97:TRP:N	0.58	2.71	19	14
1:A:45:TYR:HH	1:A:97:TRP:CG	0.58	2.16	12	3
1:A:83:HIS:O	1:A:87:PHE:CE1	0.58	2.56	15	1
1:A:131:LEU:N	1:A:131:LEU:HD23	0.58	2.13	12	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:LEU:HB3	1:A:122:LEU:HD23	0.57	1.75	14	6
1:A:109:PHE:CE1	1:A:111:GLY:O	0.57	2.56	2	4
1:A:31:LYS:CG	1:A:128:TRP:CZ3	0.57	2.88	20	11
1:A:28:LEU:HD11	1:A:126:PRO:HB3	0.57	1.77	17	9
1:A:93:GLU:HG3	1:A:114:LEU:HD11	0.56	1.76	9	4
1:A:79:TYR:O	1:A:82:VAL:CG2	0.56	2.53	6	20
1:A:45:TYR:CD1	1:A:45:TYR:C	0.56	2.82	5	9
1:A:24:ILE:N	1:A:24:ILE:CD1	0.56	2.68	17	18
1:A:46:VAL:CG2	1:A:73:TRP:CZ2	0.56	2.88	6	2
1:A:50:PHE:CE1	1:A:117:LEU:HD11	0.56	2.35	6	1
1:A:91:MET:HE2	1:A:114:LEU:CD1	0.56	2.31	18	6
1:A:11:SER:OG	1:A:128:TRP:CH2	0.56	2.56	4	7
1:A:46:VAL:CG2	1:A:73:TRP:CZ3	0.56	2.89	10	2
1:A:27:ILE:O	1:A:74:ASN:N	0.55	2.39	16	14
1:A:31:LYS:HG2	1:A:128:TRP:CZ3	0.55	2.36	15	17
1:A:67:LYS:CG	1:A:67:LYS:O	0.55	2.55	18	1
1:A:68:THR:CG2	1:A:68:THR:O	0.55	2.54	9	12
1:A:11:SER:OG	1:A:128:TRP:CD2	0.55	2.60	8	5
1:A:76:THR:O	1:A:77:PHE:CD1	0.55	2.59	1	6
1:A:96:LEU:CD1	1:A:110:LEU:HD12	0.55	2.31	5	1
1:A:46:VAL:HG21	1:A:73:TRP:CZ3	0.55	2.37	10	3
1:A:11:SER:OG	1:A:128:TRP:CZ2	0.55	2.59	4	3
1:A:94:ILE:HD12	1:A:94:ILE:H	0.55	1.61	13	13
1:A:94:ILE:H	1:A:94:ILE:HD12	0.54	1.61	2	1
1:A:91:MET:HE3	1:A:116:GLU:CG	0.54	2.31	9	2
1:A:122:LEU:N	1:A:122:LEU:CD2	0.54	2.66	18	1
1:A:11:SER:OG	1:A:128:TRP:CE2	0.54	2.60	4	4
1:A:42:ARG:NH2	1:A:69:LEU:HD22	0.54	2.17	12	1
1:A:50:PHE:CE2	1:A:90:ARG:HG2	0.54	2.38	9	1
1:A:49:TYR:O	1:A:51:LEU:HD13	0.54	2.02	5	3
1:A:13:LYS:C	1:A:14:LEU:HD13	0.54	2.28	10	1
1:A:122:LEU:HD22	1:A:122:LEU:H	0.54	1.58	18	3
1:A:47:LYS:HD2	1:A:49:TYR:CE2	0.54	2.38	2	3
1:A:22:GLN:O	1:A:24:ILE:CD1	0.54	2.56	6	2
1:A:19:VAL:HG23	1:A:20:GLY:N	0.53	2.18	11	4
1:A:45:TYR:HH	1:A:97:TRP:CD1	0.53	2.21	12	1
1:A:20:GLY:CA	1:A:22:GLN:OE1	0.53	2.56	6	1
1:A:28:LEU:CD1	1:A:28:LEU:N	0.53	2.72	10	2
1:A:116:GLU:O	1:A:120:ALA:N	0.53	2.41	14	7
1:A:23:LEU:HD11	1:A:25:VAL:CG1	0.53	2.33	6	1
1:A:29:GLY:HA2	1:A:73:TRP:CZ3	0.53	2.38	16	18

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:THR:O	1:A:68:THR:CG2	0.53	2.56	14	6
1:A:83:HIS:N	1:A:83:HIS:CD2	0.53	2.77	12	3
1:A:16:PHE:CD1	1:A:87:PHE:CZ	0.52	2.98	11	4
1:A:10:LEU:CB	1:A:113:ILE:CD1	0.52	2.87	5	3
1:A:96:LEU:HD13	1:A:97:TRP:H	0.52	1.60	5	1
1:A:50:PHE:CZ	1:A:117:LEU:CD1	0.52	2.93	18	1
1:A:96:LEU:HD12	1:A:110:LEU:HD12	0.52	1.80	5	1
1:A:23:LEU:HD13	1:A:23:LEU:O	0.52	2.04	6	1
1:A:50:PHE:CE2	1:A:90:ARG:CD	0.52	2.93	3	1
1:A:46:VAL:CG1	1:A:94:ILE:CG2	0.52	2.88	16	4
1:A:121:LEU:O	1:A:121:LEU:CD1	0.52	2.51	11	4
1:A:17:ASP:OD2	1:A:19:VAL:CG2	0.52	2.58	17	2
1:A:71:PRO:HG2	1:A:73:TRP:CH2	0.52	2.40	13	13
1:A:60:ARG:HG2	1:A:77:PHE:CD1	0.52	2.39	10	4
1:A:73:TRP:O	1:A:74:ASN:C	0.52	2.53	19	20
1:A:71:PRO:HG2	1:A:73:TRP:CZ2	0.52	2.40	8	8
1:A:50:PHE:CE1	1:A:90:ARG:HB3	0.52	2.40	14	1
1:A:30:ALA:HB1	1:A:33:LEU:HD11	0.51	1.82	13	1
1:A:33:LEU:HD12	1:A:69:LEU:O	0.51	2.05	8	2
1:A:43:ASN:N	1:A:43:ASN:ND2	0.51	2.59	18	1
1:A:10:LEU:HD11	1:A:73:TRP:CZ3	0.51	2.40	15	7
1:A:121:LEU:CD1	1:A:121:LEU:O	0.51	2.59	2	5
1:A:60:ARG:CG	1:A:77:PHE:CD1	0.51	2.94	10	1
1:A:96:LEU:HG	1:A:110:LEU:HD12	0.51	1.82	15	3
1:A:94:ILE:N	1:A:94:ILE:CD1	0.51	2.69	17	6
1:A:98:ASP:OD1	1:A:98:ASP:N	0.51	2.44	10	1
1:A:91:MET:HE2	1:A:114:LEU:HD13	0.51	1.83	15	6
1:A:29:GLY:CA	1:A:71:PRO:O	0.51	2.59	13	4
1:A:113:ILE:HG13	1:A:131:LEU:HD23	0.51	1.81	19	1
1:A:97:TRP:CE3	1:A:109:PHE:HB2	0.50	2.42	10	3
1:A:10:LEU:HD11	1:A:73:TRP:HZ3	0.50	1.66	6	5
1:A:26:THR:CG2	1:A:75:GLN:O	0.50	2.58	13	8
1:A:122:LEU:N	1:A:122:LEU:HD22	0.50	2.21	13	2
1:A:13:LYS:HB2	1:A:28:LEU:HD11	0.50	1.84	10	2
1:A:50:PHE:CZ	1:A:90:ARG:HD2	0.50	2.42	3	1
1:A:71:PRO:HB2	1:A:73:TRP:CZ2	0.49	2.41	18	6
1:A:31:LYS:HG2	1:A:128:TRP:CH2	0.49	2.42	20	17
1:A:91:MET:HA	1:A:117:LEU:CD1	0.49	2.38	8	2
1:A:67:LYS:O	1:A:67:LYS:HG3	0.49	2.07	18	1
1:A:123:ASP:C	1:A:125:GLU:N	0.49	2.69	14	6
1:A:27:ILE:HB	1:A:62:THR:HG21	0.49	1.85	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:90:ARG:HB3	1:A:117:LEU:HD12	0.49	1.84	17	1
1:A:51:LEU:HD11	1:A:93:GLU:HB2	0.49	1.83	18	1
1:A:30:ALA:HB3	1:A:71:PRO:HD2	0.49	1.82	13	3
1:A:121:LEU:HD11	1:A:129:TYR:OH	0.49	2.07	18	2
1:A:91:MET:SD	1:A:114:LEU:HD12	0.49	2.48	18	2
1:A:17:ASP:C	1:A:17:ASP:OD1	0.49	2.56	17	1
1:A:97:TRP:CZ3	1:A:109:PHE:HB2	0.49	2.42	5	2
1:A:33:LEU:HD23	1:A:42:ARG:HH21	0.49	1.66	6	1
1:A:33:LEU:C	1:A:69:LEU:HD22	0.48	2.33	3	1
1:A:17:ASP:OD1	1:A:21:HIS:N	0.48	2.46	17	1
1:A:117:LEU:N	1:A:117:LEU:CD1	0.48	2.75	20	2
1:A:10:LEU:CD1	1:A:30:ALA:HB2	0.48	2.39	14	1
1:A:23:LEU:HD22	1:A:23:LEU:C	0.48	2.34	5	1
1:A:92:LEU:CD1	1:A:117:LEU:HD21	0.48	2.38	5	2
1:A:117:LEU:HA	1:A:120:ALA:HB2	0.48	1.84	17	4
1:A:45:TYR:CZ	1:A:97:TRP:CD1	0.48	3.01	12	1
1:A:10:LEU:HD12	1:A:29:GLY:O	0.48	2.07	9	1
1:A:98:ASP:OD1	1:A:98:ASP:C	0.48	2.56	5	9
1:A:93:GLU:CG	1:A:114:LEU:HD11	0.48	2.39	12	4
1:A:11:SER:HB2	1:A:128:TRP:CZ3	0.48	2.44	16	3
1:A:23:LEU:HD13	1:A:25:VAL:HG23	0.48	1.84	5	1
1:A:91:MET:CG	1:A:92:LEU:N	0.48	2.76	5	3
1:A:125:GLU:O	1:A:127:HIS:CE1	0.48	2.66	14	1
1:A:23:LEU:CD1	1:A:25:VAL:CG2	0.48	2.87	5	1
1:A:50:PHE:CZ	1:A:117:LEU:HD21	0.48	2.44	20	2
1:A:17:ASP:OD1	1:A:19:VAL:CG2	0.48	2.61	14	2
1:A:86:GLU:O	1:A:88:ARG:N	0.48	2.47	15	1
1:A:88:ARG:N	1:A:118:GLU:OE1	0.47	2.47	14	1
1:A:27:ILE:CG2	1:A:46:VAL:HG21	0.47	2.38	10	1
1:A:17:ASP:OD2	1:A:20:GLY:N	0.47	2.47	11	1
1:A:12:ILE:CG2	1:A:13:LYS:N	0.47	2.76	16	1
1:A:24:ILE:CD1	1:A:24:ILE:N	0.47	2.77	6	1
1:A:45:TYR:CE2	1:A:97:TRP:HB2	0.47	2.45	12	14
1:A:65:VAL:CG1	1:A:68:THR:HG21	0.47	2.39	3	12
1:A:10:LEU:HD23	1:A:12:ILE:CD1	0.47	2.25	14	1
1:A:73:TRP:C	1:A:75:GLN:N	0.47	2.72	19	10
1:A:17:ASP:OD1	1:A:19:VAL:HG22	0.47	2.08	15	2
1:A:14:LEU:HD23	1:A:25:VAL:HB	0.47	1.87	16	1
1:A:60:ARG:HG2	1:A:77:PHE:CE1	0.47	2.44	6	1
1:A:62:THR:HG22	1:A:77:PHE:CZ	0.47	2.45	10	1
1:A:12:ILE:HG22	1:A:13:LYS:N	0.47	2.24	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:SER:CB	1:A:81:PRO:HA	0.47	2.39	4	18
1:A:121:LEU:O	1:A:121:LEU:HD13	0.47	2.10	1	5
1:A:96:LEU:C	1:A:97:TRP:CD1	0.47	2.93	3	3
1:A:123:ASP:O	1:A:124:ASP:C	0.47	2.58	3	10
1:A:11:SER:HB2	1:A:128:TRP:CH2	0.47	2.45	10	3
1:A:14:LEU:CD2	1:A:25:VAL:HG13	0.47	2.40	20	1
1:A:45:TYR:CZ	1:A:97:TRP:HB2	0.47	2.45	5	6
1:A:50:PHE:CD2	1:A:92:LEU:CD2	0.47	2.97	19	1
1:A:47:LYS:HD3	1:A:49:TYR:CE2	0.47	2.45	3	4
1:A:62:THR:HB	1:A:73:TRP:CD1	0.47	2.45	11	2
1:A:97:TRP:CZ3	1:A:109:PHE:CD1	0.47	3.03	13	5
1:A:60:ARG:HD2	1:A:77:PHE:CD1	0.47	2.44	9	7
1:A:28:LEU:O	1:A:73:TRP:N	0.47	2.48	19	1
1:A:116:GLU:O	1:A:120:ALA:HB2	0.46	2.09	8	3
1:A:12:ILE:CG2	1:A:14:LEU:CD1	0.46	2.93	10	1
1:A:92:LEU:CD2	1:A:117:LEU:HD11	0.46	2.40	10	2
1:A:86:GLU:C	1:A:88:ARG:N	0.46	2.72	15	1
1:A:10:LEU:HB2	1:A:113:ILE:HD11	0.46	1.86	5	2
1:A:80:SER:HA	1:A:81:PRO:C	0.46	2.35	6	20
1:A:124:ASP:CG	1:A:124:ASP:O	0.46	2.58	10	4
1:A:16:PHE:CE2	1:A:84:ARG:HD3	0.46	2.45	3	3
1:A:89:GLU:O	1:A:90:ARG:NE	0.46	2.49	4	1
1:A:28:LEU:CD2	1:A:126:PRO:CB	0.46	2.93	10	2
1:A:10:LEU:HD13	1:A:12:ILE:HD11	0.46	1.87	12	2
1:A:86:GLU:O	1:A:90:ARG:N	0.46	2.49	12	7
1:A:95:THR:HB	1:A:97:TRP:CZ2	0.46	2.46	5	3
1:A:20:GLY:N	1:A:22:GLN:OE1	0.46	2.49	6	1
1:A:86:GLU:OE1	1:A:90:ARG:NH1	0.46	2.49	14	2
1:A:109:PHE:CE2	1:A:111:GLY:HA2	0.46	2.46	14	3
1:A:31:LYS:O	1:A:32:ASP:C	0.46	2.59	9	2
1:A:23:LEU:N	1:A:79:TYR:O	0.46	2.49	17	1
1:A:87:PHE:CG	1:A:117:LEU:HB3	0.46	2.46	1	3
1:A:113:ILE:HG22	1:A:115:ILE:HD11	0.46	1.87	9	3
1:A:21:HIS:CE1	1:A:83:HIS:CE1	0.46	3.04	18	1
1:A:113:ILE:HD11	1:A:131:LEU:HG	0.45	1.87	18	4
1:A:50:PHE:CE2	1:A:117:LEU:HD11	0.45	2.46	18	1
1:A:88:ARG:O	1:A:89:GLU:CB	0.45	2.64	18	1
1:A:13:LYS:HG3	1:A:126:PRO:CD	0.45	2.41	10	1
1:A:23:LEU:HD22	1:A:117:LEU:HD13	0.45	1.86	7	1
1:A:98:ASP:O	1:A:99:GLN:C	0.45	2.59	8	3
1:A:86:GLU:O	1:A:87:PHE:C	0.45	2.58	15	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LEU:N	1:A:91:MET:O	0.45	2.49	18	1
1:A:112:GLU:OE2	1:A:114:LEU:HD13	0.45	2.11	7	3
1:A:14:LEU:HB3	1:A:122:LEU:CD2	0.45	2.41	10	2
1:A:49:TYR:O	1:A:51:LEU:CD1	0.45	2.64	8	1
1:A:15:TRP:CE3	1:A:124:ASP:HB2	0.45	2.47	4	2
1:A:12:ILE:HG22	1:A:14:LEU:CD1	0.45	2.42	10	1
1:A:93:GLU:HG3	1:A:114:LEU:CD1	0.45	2.42	19	3
1:A:127:HIS:HB3	1:A:129:TYR:CE1	0.45	2.47	9	1
1:A:123:ASP:O	1:A:125:GLU:N	0.45	2.50	14	2
1:A:10:LEU:HB3	1:A:113:ILE:HD12	0.45	1.89	15	1
1:A:116:GLU:O	1:A:117:LEU:C	0.45	2.60	12	4
1:A:119:THR:O	1:A:120:ALA:C	0.45	2.60	8	2
1:A:87:PHE:O	1:A:90:ARG:O	0.44	2.34	15	6
1:A:42:ARG:NH1	1:A:98:ASP:OD2	0.44	2.50	15	2
1:A:116:GLU:C	1:A:118:GLU:N	0.44	2.73	12	5
1:A:14:LEU:CB	1:A:122:LEU:CD2	0.44	2.94	10	1
1:A:25:VAL:HG13	1:A:77:PHE:HB2	0.44	1.89	1	1
1:A:92:LEU:HD12	1:A:117:LEU:CD2	0.44	2.42	2	2
1:A:27:ILE:CG2	1:A:62:THR:HG21	0.44	2.42	4	1
1:A:10:LEU:HD11	1:A:46:VAL:CG2	0.44	2.42	20	1
1:A:69:LEU:N	1:A:69:LEU:HD23	0.44	2.28	7	1
1:A:25:VAL:HG22	1:A:25:VAL:O	0.44	2.10	9	2
1:A:116:GLU:O	1:A:119:THR:N	0.44	2.51	9	4
1:A:73:TRP:O	1:A:75:GLN:N	0.44	2.50	19	2
1:A:45:TYR:CE1	1:A:97:TRP:CD1	0.44	3.05	9	2
1:A:60:ARG:HD2	1:A:77:PHE:CE1	0.44	2.47	11	3
1:A:124:ASP:O	1:A:124:ASP:CG	0.44	2.61	12	2
1:A:92:LEU:N	1:A:92:LEU:CD2	0.44	2.80	16	1
1:A:10:LEU:HB3	1:A:113:ILE:CD1	0.44	2.42	12	4
1:A:15:TRP:N	1:A:24:ILE:O	0.44	2.46	6	1
1:A:23:LEU:HD13	1:A:24:ILE:N	0.44	2.27	6	1
1:A:10:LEU:HB2	1:A:113:ILE:CD1	0.44	2.43	5	1
1:A:14:LEU:HD23	1:A:25:VAL:HG22	0.44	1.90	4	1
1:A:50:PHE:CE1	1:A:117:LEU:HD21	0.44	2.47	8	1
1:A:25:VAL:N	1:A:77:PHE:O	0.44	2.51	17	2
1:A:109:PHE:CZ	1:A:111:GLY:CA	0.43	3.01	14	2
1:A:14:LEU:CD2	1:A:25:VAL:HG23	0.43	2.43	6	1
1:A:87:PHE:CD1	1:A:117:LEU:HB3	0.43	2.48	6	2
1:A:92:LEU:CD2	1:A:92:LEU:N	0.43	2.82	10	1
1:A:10:LEU:HD23	1:A:11:SER:N	0.43	2.28	16	1
1:A:24:ILE:N	1:A:24:ILE:HD12	0.43	2.29	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:ILE:O	1:A:28:LEU:O	0.43	2.37	16	3
1:A:27:ILE:HG22	1:A:73:TRP:HE3	0.43	1.63	1	1
1:A:11:SER:O	1:A:28:LEU:HB2	0.43	2.13	16	2
1:A:93:GLU:C	1:A:94:ILE:HD12	0.43	2.38	17	1
1:A:11:SER:HB2	1:A:128:TRP:CZ2	0.43	2.48	16	1
1:A:29:GLY:HA2	1:A:73:TRP:CE3	0.43	2.49	7	3
1:A:30:ALA:HB1	1:A:33:LEU:CD1	0.43	2.43	6	1
1:A:66:LYS:O	1:A:67:LYS:O	0.43	2.37	10	7
1:A:14:LEU:HD22	1:A:25:VAL:HG22	0.43	1.90	5	1
1:A:25:VAL:O	1:A:77:PHE:N	0.43	2.52	20	1
1:A:46:VAL:HG22	1:A:96:LEU:CD2	0.43	2.43	5	1
1:A:88:ARG:CB	1:A:118:GLU:OE1	0.43	2.67	13	1
1:A:11:SER:HB2	1:A:128:TRP:CE2	0.43	2.49	16	1
1:A:13:LYS:O	1:A:26:THR:N	0.42	2.48	1	2
1:A:46:VAL:HG22	1:A:96:LEU:HD23	0.42	1.91	5	1
1:A:17:ASP:O	1:A:21:HIS:N	0.42	2.52	18	2
1:A:86:GLU:OE1	1:A:90:ARG:NE	0.42	2.52	19	1
1:A:50:PHE:CD1	1:A:92:LEU:CD2	0.42	3.02	12	2
1:A:17:ASP:N	1:A:22:GLN:O	0.42	2.48	11	2
1:A:11:SER:C	1:A:12:ILE:HG13	0.42	2.39	16	1
1:A:26:THR:O	1:A:28:LEU:HD13	0.42	2.15	16	1
1:A:33:LEU:HD23	1:A:42:ARG:HH12	0.42	1.73	14	1
1:A:22:GLN:CB	1:A:78:ILE:HG23	0.42	2.44	6	2
1:A:94:ILE:O	1:A:113:ILE:N	0.42	2.49	6	1
1:A:28:LEU:HD13	1:A:28:LEU:H	0.42	1.75	16	1
1:A:123:ASP:O	1:A:124:ASP:CG	0.42	2.63	2	1
1:A:96:LEU:C	1:A:97:TRP:CG	0.42	2.98	19	2
1:A:48:ILE:CD1	1:A:77:PHE:CE2	0.42	3.03	1	1
1:A:121:LEU:O	1:A:122:LEU:HD13	0.42	2.14	13	1
1:A:44:PRO:CG	1:A:68:THR:O	0.41	2.68	4	2
1:A:42:ARG:O	1:A:67:LYS:CA	0.41	2.68	18	1
1:A:93:GLU:HG3	1:A:114:LEU:HD21	0.41	1.91	3	1
1:A:92:LEU:HD21	1:A:117:LEU:HD11	0.41	1.92	10	1
1:A:42:ARG:NH1	1:A:110:LEU:CD2	0.41	2.83	1	1
1:A:87:PHE:CA	1:A:117:LEU:HB2	0.41	2.45	15	1
1:A:50:PHE:CE2	1:A:90:ARG:HD3	0.41	2.51	3	1
1:A:26:THR:OG1	1:A:75:GLN:O	0.41	2.37	10	1
1:A:23:LEU:O	1:A:79:TYR:N	0.41	2.53	17	1
1:A:42:ARG:O	1:A:67:LYS:N	0.41	2.54	13	1
1:A:42:ARG:NH1	1:A:69:LEU:HD12	0.41	2.30	13	1
1:A:43:ASN:HA	1:A:65:VAL:O	0.41	2.14	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:ASP:O	1:A:22:GLN:N	0.41	2.48	14	1
1:A:25:VAL:HG13	1:A:77:PHE:O	0.41	2.14	16	1
1:A:51:LEU:HD11	1:A:93:GLU:CB	0.41	2.46	16	1
1:A:62:THR:HG22	1:A:77:PHE:CE2	0.41	2.50	15	1
1:A:42:ARG:O	1:A:67:LYS:HA	0.41	2.14	18	1
1:A:127:HIS:HB2	1:A:129:TYR:CZ	0.41	2.51	19	1
1:A:14:LEU:CD2	1:A:25:VAL:HB	0.41	2.46	3	2
1:A:86:GLU:O	1:A:89:GLU:N	0.41	2.53	1	1
1:A:50:PHE:CZ	1:A:90:ARG:CD	0.41	3.03	3	1
1:A:127:HIS:HB3	1:A:129:TYR:CZ	0.41	2.51	1	1
1:A:42:ARG:O	1:A:44:PRO:HD3	0.41	2.16	18	1
1:A:109:PHE:CD1	1:A:109:PHE:C	0.41	2.99	4	1
1:A:109:PHE:CZ	1:A:112:GLU:N	0.41	2.89	5	1
1:A:23:LEU:HD22	1:A:24:ILE:H	0.41	1.75	6	1
1:A:25:VAL:O	1:A:25:VAL:HG22	0.41	2.15	7	2
1:A:28:LEU:H	1:A:28:LEU:HD13	0.41	1.76	10	1
1:A:19:VAL:CG2	1:A:20:GLY:N	0.41	2.84	11	1
1:A:65:VAL:HG11	1:A:68:THR:CG2	0.41	2.37	18	1
1:A:93:GLU:HG3	1:A:114:LEU:CD2	0.41	2.46	20	1
1:A:48:ILE:HD13	1:A:77:PHE:CD2	0.40	2.51	1	1
1:A:91:MET:CE	1:A:114:LEU:HD13	0.40	2.46	8	1
1:A:111:GLY:O	1:A:131:LEU:CD2	0.40	2.69	9	1
1:A:27:ILE:CB	1:A:62:THR:HG21	0.40	2.46	13	1
1:A:79:TYR:O	1:A:82:VAL:HG23	0.40	2.15	15	1
1:A:87:PHE:HB3	1:A:117:LEU:CB	0.40	2.46	15	1
1:A:71:PRO:C	1:A:72:LYS:HG3	0.40	2.41	8	1
1:A:88:ARG:O	1:A:89:GLU:HB2	0.40	2.14	18	1
1:A:123:ASP:CB	1:A:125:GLU:OE2	0.40	2.69	2	1
1:A:95:THR:HB	1:A:97:TRP:CE2	0.40	2.51	8	1
1:A:28:LEU:CD2	1:A:126:PRO:HB3	0.40	2.43	10	1
1:A:26:THR:OG1	1:A:76:THR:OG1	0.40	2.40	4	1
1:A:12:ILE:O	1:A:126:PRO:HA	0.40	2.16	10	1
1:A:92:LEU:HD23	1:A:117:LEU:CD2	0.40	2.44	16	1
1:A:17:ASP:OD1	1:A:17:ASP:O	0.40	2.39	17	1
1:A:88:ARG:C	1:A:89:GLU:HG3	0.40	2.41	18	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	100/141 (71%)	87±2 (87±2%)	9±2 (9±2%)	4±1 (4±1%)	3	27
All	All	2000/2820 (71%)	1736 (87%)	174 (9%)	90 (4%)	3	27

All 12 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	28	LEU	20
1	A	67	LYS	17
1	A	109	PHE	14
1	A	123	ASP	11
1	A	99	GLN	7
1	A	19	VAL	6
1	A	42	ARG	6
1	A	25	VAL	3
1	A	74	ASN	2
1	A	68	THR	2
1	A	124	ASP	1
1	A	87	PHE	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	94/128 (73%)	64±15 (68±16%)	25±6 (27±7%)	2	21
All	All	1786/2560 (70%)	1279 (72%)	507 (28%)	1	19

All 62 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	22	GLN	19
1	A	26	THR	19
1	A	31	LYS	19
1	A	65	VAL	19
1	A	80	SER	19
1	A	74	ASN	18
1	A	85	ARG	18
1	A	95	THR	18
1	A	114	LEU	18
1	A	68	THR	17
1	A	99	GLN	17
1	A	18	LYS	16
1	A	97	TRP	16
1	A	91	MET	14
1	A	63	LYS	13
1	A	25	VAL	12
1	A	10	LEU	12
1	A	51	LEU	11
1	A	131	LEU	11
1	A	122	LEU	11
1	A	90	ARG	10
1	A	33	LEU	10
1	A	76	THR	10
1	A	112	GLU	9
1	A	130	LYS	9
1	A	92	LEU	9
1	A	127	HIS	8
1	A	47	LYS	8
1	A	98	ASP	8
1	A	42	ARG	8
1	A	60	ARG	8
1	A	75	GLN	8
1	A	121	LEU	7
1	A	86	GLU	6
1	A	70	GLU	6
1	A	94	ILE	5
1	A	49	TYR	5
1	A	61	ARG	5
1	A	123	ASP	4
1	A	125	GLU	4
1	A	13	LYS	4
1	A	67	LYS	4
1	A	66	LYS	3

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Mol	Chain	Res	Type	Models (Total)
1	A	48	ILE	3
1	A	17	ASP	3
1	A	72	LYS	3
1	A	79	TYR	2
1	A	23	LEU	2
1	A	69	LEU	2
1	A	88	ARG	2
1	A	117	LEU	2
1	A	89	GLU	2
1	A	28	LEU	2
1	A	32	ASP	1
1	A	96	LEU	1
1	A	115	ILE	1
1	A	14	LEU	1
1	A	132	GLN	1
1	A	83	HIS	1
1	A	118	GLU	1
1	A	124	ASP	1
1	A	43	ASN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

There are no ligands in this entry.

6.7 Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided