



Full wwPDB NMR Structure Validation Report ⓘ

May 28, 2020 – 11:42 pm BST

PDB ID : 2MCZ
Title : CR1 Sushi domains 1 and 2
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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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : 2.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

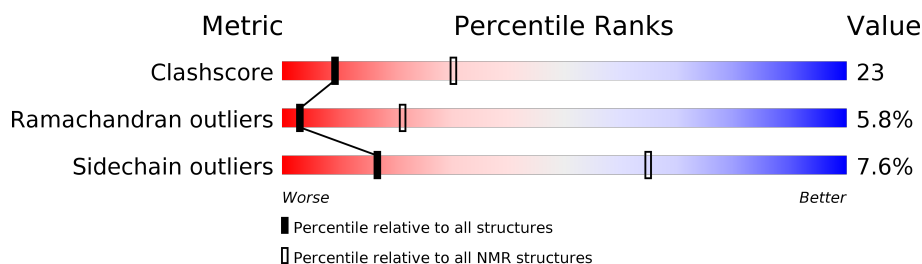
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 82%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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	128	

2 Ensemble composition and analysis

This entry contains 20 models. Model 13 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:1-A:122 (122)	0.79	13

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 and 4 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1897 atoms, of which 934 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Complement receptor type 1.

Mol	Chain	Residues	Atoms						Trace
1	A	122	Total	C	H	N	O	S	0
			1897	607	934	170	177	9	

There are 7 discrepancies between the modelled and reference sequences:

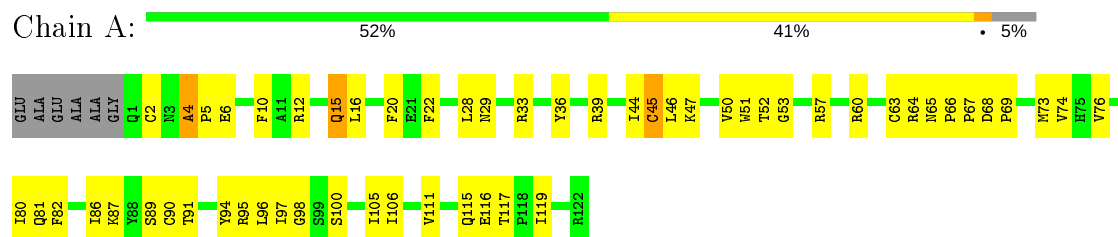
Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLU	-	EXPRESSION TAG	UNP P17927
A	-4	ALA	-	EXPRESSION TAG	UNP P17927
A	-3	GLU	-	EXPRESSION TAG	UNP P17927
A	-2	ALA	-	EXPRESSION TAG	UNP P17927
A	-1	ALA	-	EXPRESSION TAG	UNP P17927
A	15	GLN	ASN	CONFLICT	UNP P17927
A	115	GLN	ASN	CONFLICT	UNP P17927

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA 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: Complement receptor type 1

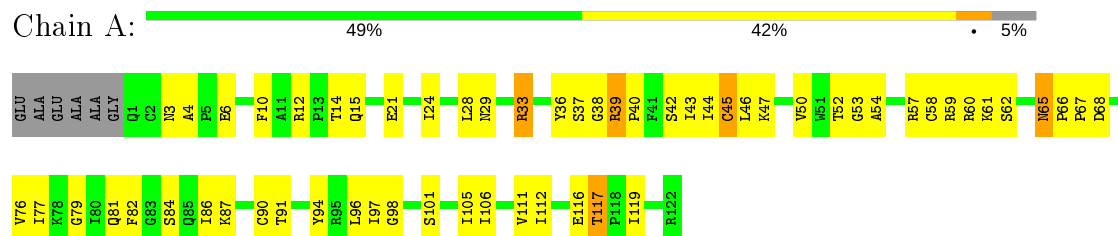


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

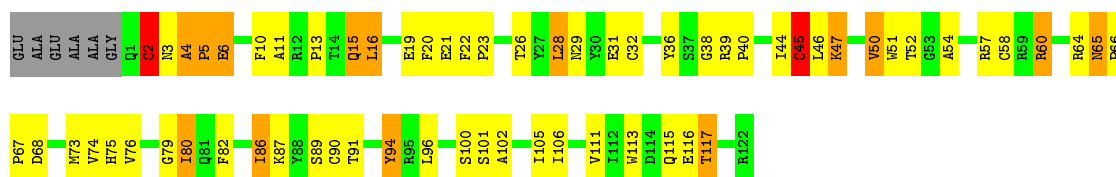
- Molecule 1: Complement receptor type 1



4.2.2 Score per residue for model 2

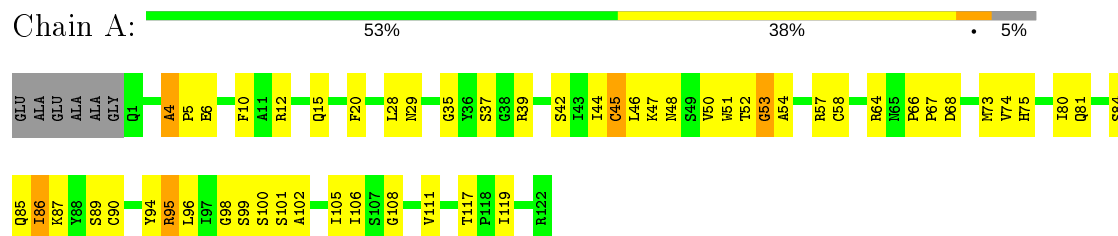
- Molecule 1: Complement receptor type 1





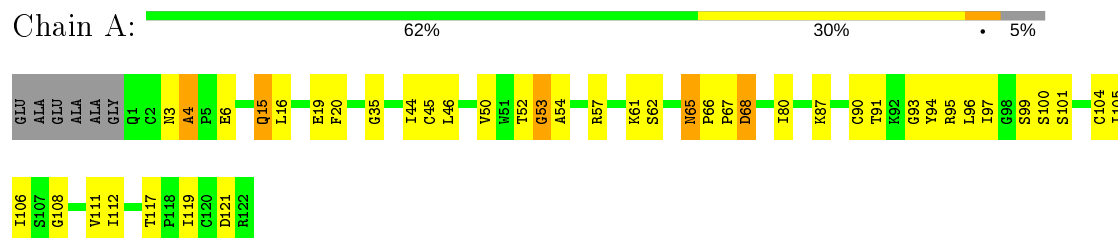
4.2.3 Score per residue for model 3

- Molecule 1: Complement receptor type 1



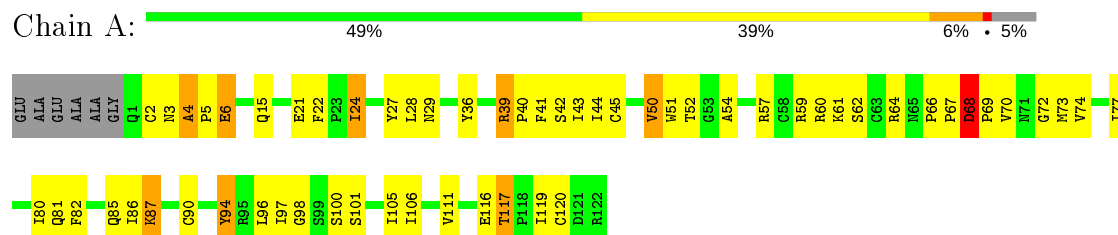
4.2.4 Score per residue for model 4

- Molecule 1: Complement receptor type 1



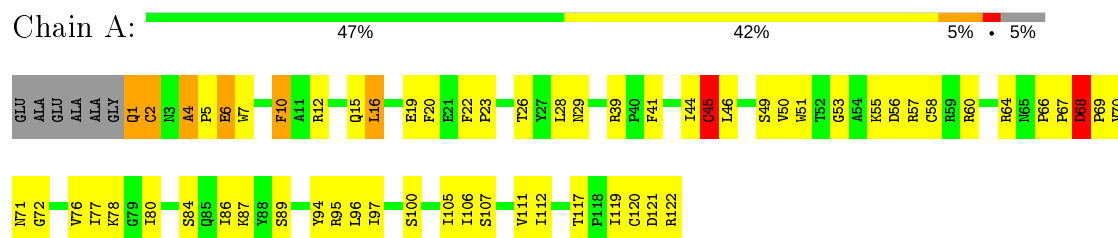
4.2.5 Score per residue for model 5

- Molecule 1: Complement receptor type 1



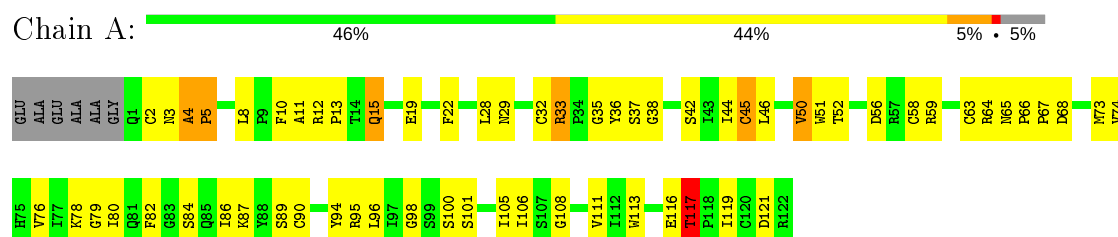
4.2.6 Score per residue for model 6

- Molecule 1: Complement receptor type 1



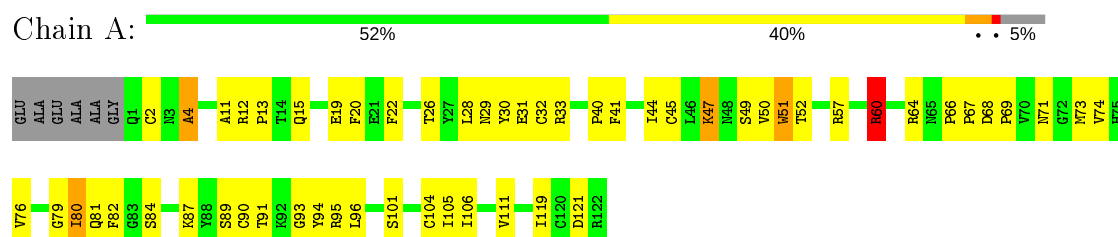
4.2.7 Score per residue for model 7

- Molecule 1: Complement receptor type 1



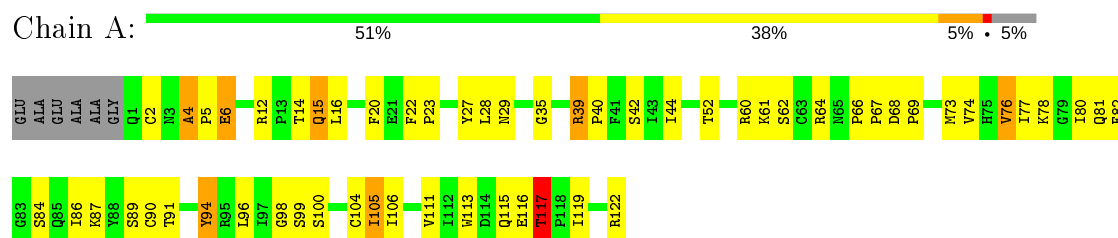
4.2.8 Score per residue for model 8

- Molecule 1: Complement receptor type 1



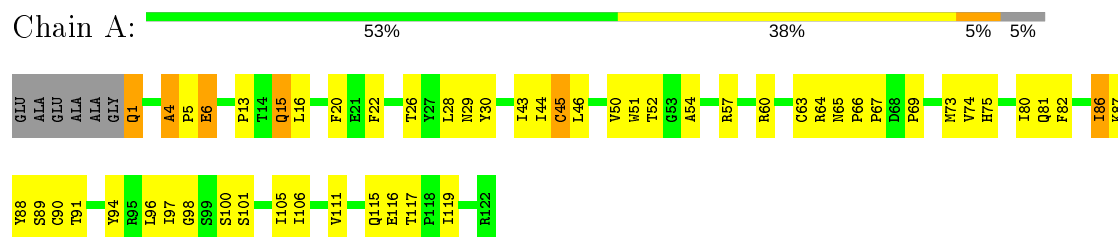
4.2.9 Score per residue for model 9

- Molecule 1: Complement receptor type 1



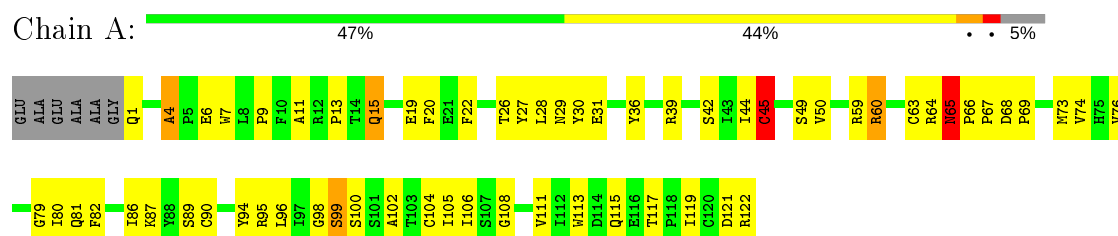
4.2.10 Score per residue for model 10

- Molecule 1: Complement receptor type 1



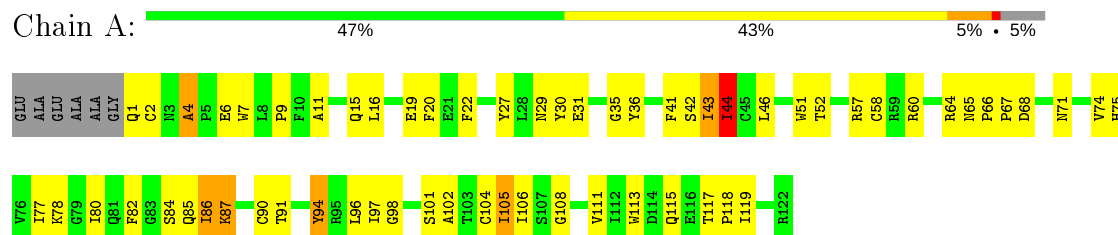
4.2.11 Score per residue for model 11

- Molecule 1: Complement receptor type 1



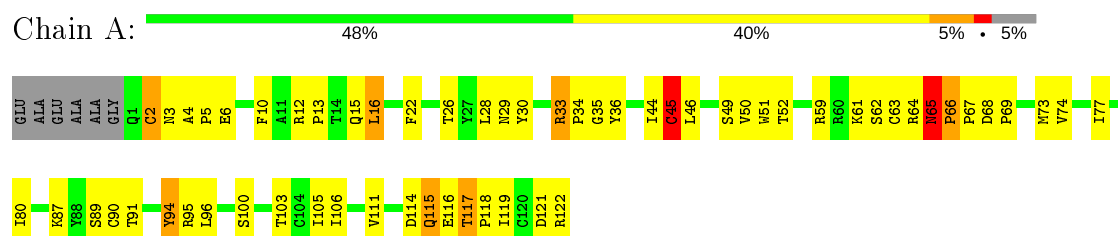
4.2.12 Score per residue for model 12

- Molecule 1: Complement receptor type 1



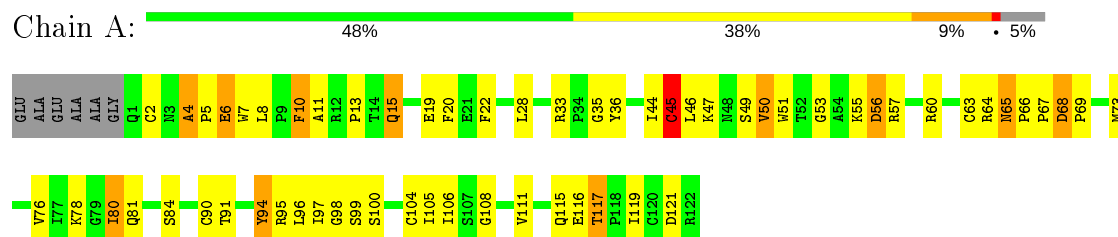
4.2.13 Score per residue for model 13 (medoid)

- Molecule 1: Complement receptor type 1



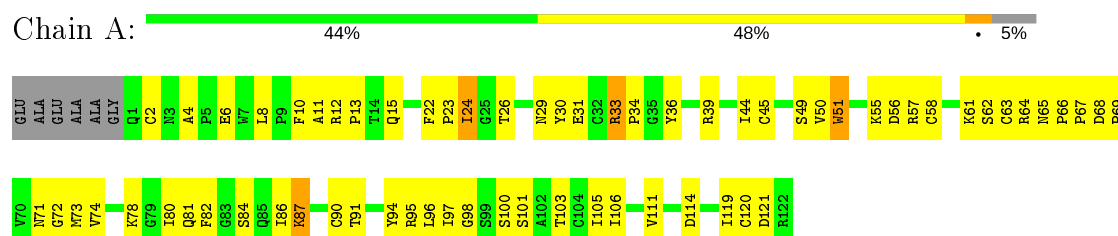
4.2.18 Score per residue for model 18

- Molecule 1: Complement receptor type 1



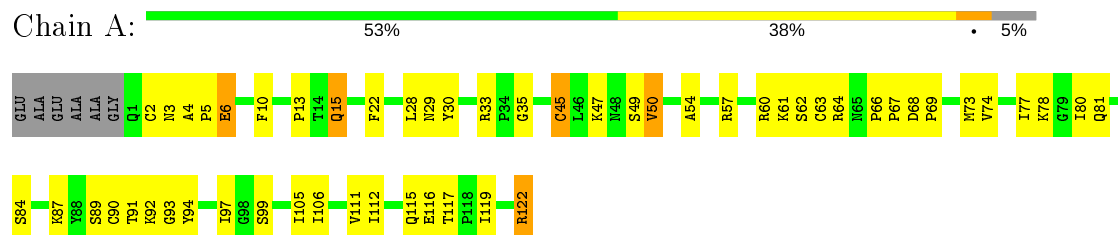
4.2.19 Score per residue for model 19

- Molecule 1: Complement receptor type 1



4.2.20 Score per residue for model 20

- Molecule 1: Complement receptor type 1



5 Refinement protocol and experimental data overview

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

Of the 100 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
X-PLOR NIH	structure solution	
X-PLOR NIH	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 6 of this report.

Chemical shift file(s)	input_cs.cif
Number of chemical shift lists	1
Total number of shifts	1370
Number of shifts mapped to atoms	1370
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	82%

No validations of the models with respect to experimental NMR restraints is performed at this time.

COVALENT-GEOMETRY INFOmissingINFO

5.1 Too-close contacts

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	963	934	936	43±7
All	All	19260	18680	18720	858

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 23.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:PRO:HG3	1:A:74:VAL:HG23	0.95	1.38	19	6
1:A:73:MET:SD	1:A:90:CYS:HA	0.85	2.12	17	2
1:A:33:ARG:NH2	1:A:36:TYR:HB2	0.84	1.86	7	1
1:A:71:ASN:ND2	1:A:90:CYS:HA	0.82	1.90	8	1
1:A:96:LEU:HG	1:A:119:ILE:O	0.81	1.74	16	6
1:A:5:PRO:HA	1:A:51:TRP:NE1	0.81	1.91	10	5
1:A:5:PRO:O	1:A:6:GLU:HG2	0.78	1.78	5	1
1:A:96:LEU:HD12	1:A:119:ILE:O	0.78	1.78	11	4
1:A:69:PRO:CG	1:A:74:VAL:HG23	0.78	2.09	11	5
1:A:5:PRO:HA	1:A:51:TRP:CD1	0.77	2.15	10	4
1:A:81:GLN:HG2	1:A:82:PHE:N	0.76	1.96	16	4
1:A:106:ILE:HD13	1:A:111:VAL:HG12	0.74	1.57	2	20
1:A:73:MET:HB2	1:A:89:SER:O	0.74	1.81	7	7
1:A:1:GLN:N	1:A:1:GLN:HE21	0.73	1.81	6	1
1:A:15:GLN:HB2	1:A:28:LEU:HD22	0.73	1.61	20	1
1:A:45:CYS:HA	1:A:50:VAL:O	0.72	1.84	2	8
1:A:61:LYS:HD3	1:A:62:SER:N	0.72	1.99	19	7
1:A:15:GLN:NE2	1:A:29:ASN:H	0.71	1.83	13	16
1:A:90:CYS:HB2	1:A:94:TYR:CE2	0.71	2.21	13	7
1:A:3:ASN:HA	1:A:21:GLU:OE2	0.71	1.85	16	4
1:A:32:CYS:HB3	1:A:33:ARG:NH2	0.70	2.01	7	1
1:A:32:CYS:SG	1:A:40:PRO:HG3	0.70	2.27	14	2
1:A:15:GLN:O	1:A:19:GLU:HB2	0.70	1.86	18	7
1:A:73:MET:HB3	1:A:89:SER:O	0.69	1.86	17	5
1:A:77:ILE:HD11	1:A:87:LYS:HE2	0.69	1.64	1	5
1:A:32:CYS:SG	1:A:40:PRO:HD3	0.69	2.27	2	1
1:A:8:LEU:HD21	1:A:10:PHE:CD2	0.69	2.22	18	2
1:A:35:GLY:O	1:A:106:ILE:HG13	0.68	1.88	4	1
1:A:23:PRO:O	1:A:24:ILE:HB	0.68	1.88	19	1
1:A:2:CYS:HB3	1:A:50:VAL:O	0.68	1.88	6	1
1:A:54:ALA:O	1:A:57:ARG:HG2	0.67	1.90	10	2
1:A:81:GLN:HG2	1:A:82:PHE:H	0.66	1.50	10	4
1:A:36:TYR:CG	1:A:58:CYS:HB3	0.66	2.25	15	2
1:A:37:SER:OG	1:A:59:ARG:HB2	0.66	1.91	1	3
1:A:43:ILE:HB	1:A:51:TRP:CE3	0.65	2.27	12	1
1:A:15:GLN:NE2	1:A:28:LEU:HA	0.65	2.06	11	1
1:A:2:CYS:HA	1:A:49:SER:O	0.65	1.92	8	5
1:A:28:LEU:O	1:A:42:SER:HA	0.64	1.91	7	7
1:A:61:LYS:CD	1:A:62:SER:H	0.64	2.05	15	1
1:A:97:ILE:HB	1:A:119:ILE:HG21	0.64	1.70	4	11
1:A:66:PRO:N	1:A:67:PRO:HD2	0.63	2.07	2	17
1:A:90:CYS:HB2	1:A:94:TYR:CD2	0.63	2.28	17	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:86:ILE:O	1:A:101:SER:HA	0.63	1.92	12	6
1:A:46:LEU:HD12	1:A:52:THR:HG22	0.63	1.70	15	11
1:A:92:LYS:HG3	1:A:93:GLY:N	0.63	2.08	20	1
1:A:4:ALA:HB2	1:A:20:PHE:HB3	0.63	1.70	16	11
1:A:24:ILE:HA	1:A:45:CYS:SG	0.63	2.34	15	2
1:A:87:LYS:HD3	1:A:101:SER:HB3	0.63	1.69	3	3
1:A:98:GLY:HA3	1:A:119:ILE:HD13	0.62	1.68	15	3
1:A:10:PHE:O	1:A:33:ARG:HG3	0.62	1.94	17	1
1:A:63:CYS:SG	1:A:113:TRP:CE2	0.62	2.92	17	1
1:A:41:PHE:HB3	1:A:57:ARG:NH2	0.62	2.10	5	2
1:A:40:PRO:HA	1:A:57:ARG:NH2	0.62	2.09	15	1
1:A:44:ILE:O	1:A:52:THR:HG23	0.62	1.93	1	9
1:A:90:CYS:SG	1:A:94:TYR:CE2	0.61	2.93	14	12
1:A:15:GLN:NE2	1:A:28:LEU:HD23	0.61	2.09	11	2
1:A:5:PRO:HB3	1:A:51:TRP:CD1	0.61	2.30	14	2
1:A:24:ILE:HG12	1:A:45:CYS:O	0.61	1.95	16	1
1:A:34:PRO:HG2	1:A:36:TYR:CE2	0.61	2.30	19	1
1:A:62:SER:HA	1:A:81:GLN:HG3	0.61	1.72	19	1
1:A:96:LEU:CD2	1:A:100:SER:HA	0.61	2.26	6	12
1:A:98:GLY:N	1:A:119:ILE:HD12	0.61	2.09	11	3
1:A:15:GLN:HE22	1:A:29:ASN:H	0.61	1.38	13	2
1:A:44:ILE:HD12	1:A:52:THR:HG21	0.61	1.73	12	4
1:A:65:ASN:N	1:A:66:PRO:HD3	0.60	2.11	1	4
1:A:106:ILE:CD1	1:A:111:VAL:HG12	0.60	2.26	4	8
1:A:50:VAL:O	1:A:51:TRP:CD1	0.60	2.54	8	3
1:A:99:SER:HB3	1:A:115:GLN:OE1	0.60	1.96	9	1
1:A:2:CYS:SG	1:A:51:TRP:CZ2	0.60	2.95	14	5
1:A:27:TYR:HD2	1:A:42:SER:HG	0.60	1.39	12	1
1:A:69:PRO:HG3	1:A:74:VAL:CG2	0.60	2.22	19	1
1:A:36:TYR:CB	1:A:58:CYS:HB3	0.60	2.25	1	3
1:A:44:ILE:H	1:A:52:THR:HG23	0.60	1.55	4	5
1:A:15:GLN:CD	1:A:28:LEU:HB3	0.60	2.16	20	1
1:A:13:PRO:HG3	1:A:30:TYR:CD1	0.59	2.32	17	2
1:A:1:GLN:HB2	1:A:22:PHE:O	0.59	1.98	10	2
1:A:11:ALA:HA	1:A:31:GLU:O	0.59	1.98	11	6
1:A:77:ILE:HD11	1:A:87:LYS:HE3	0.59	1.75	5	4
1:A:27:TYR:CD2	1:A:44:ILE:HG12	0.58	2.32	12	2
1:A:82:PHE:CE1	1:A:106:ILE:HG12	0.58	2.32	10	7
1:A:82:PHE:HB2	1:A:111:VAL:HG11	0.58	1.74	16	2
1:A:74:VAL:HA	1:A:87:LYS:O	0.58	1.98	11	13
1:A:75:HIS:O	1:A:86:ILE:HB	0.58	1.98	12	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:90:CYS:HB2	1:A:94:TYR:CZ	0.58	2.33	13	1
1:A:43:ILE:HG21	1:A:54:ALA:HB2	0.58	1.74	10	4
1:A:22:PHE:CE2	1:A:28:LEU:HD21	0.58	2.34	6	3
1:A:71:ASN:HD21	1:A:73:MET:HG3	0.58	1.59	16	1
1:A:13:PRO:HA	1:A:29:ASN:O	0.58	1.99	13	3
1:A:96:LEU:HD23	1:A:100:SER:HA	0.58	1.74	5	6
1:A:106:ILE:HD13	1:A:111:VAL:CG1	0.57	2.29	2	2
1:A:23:PRO:HG2	1:A:26:THR:OG1	0.57	1.99	6	3
1:A:81:GLN:HG3	1:A:82:PHE:N	0.57	2.15	1	3
1:A:116:GLU:O	1:A:117:THR:HB	0.57	1.99	18	11
1:A:13:PRO:HG3	1:A:30:TYR:CE1	0.57	2.33	17	1
1:A:53:GLY:O	1:A:57:ARG:HD3	0.57	1.99	14	4
1:A:68:ASP:OD1	1:A:72:GLY:HA2	0.57	1.99	6	1
1:A:35:GLY:O	1:A:106:ILE:HG21	0.57	2.00	7	2
1:A:60:ARG:CG	1:A:82:PHE:HB3	0.57	2.29	2	2
1:A:47:LYS:HB3	1:A:51:TRP:O	0.57	1.99	3	2
1:A:32:CYS:HB3	1:A:33:ARG:HH22	0.57	1.58	7	1
1:A:65:ASN:C	1:A:67:PRO:HD2	0.57	2.20	1	6
1:A:91:THR:O	1:A:94:TYR:CD1	0.57	2.58	10	11
1:A:1:GLN:H3	1:A:1:GLN:HE21	0.57	1.42	6	1
1:A:15:GLN:HE22	1:A:28:LEU:HA	0.56	1.60	5	4
1:A:35:GLY:HA3	1:A:106:ILE:HG21	0.56	1.77	18	2
1:A:79:GLY:O	1:A:84:SER:HB3	0.56	1.99	1	1
1:A:91:THR:HG22	1:A:93:GLY:H	0.56	1.59	20	3
1:A:22:PHE:CD1	1:A:26:THR:HG21	0.56	2.36	13	3
1:A:61:LYS:HD3	1:A:62:SER:H	0.56	1.61	15	1
1:A:71:ASN:OD1	1:A:90:CYS:HB3	0.55	1.99	12	1
1:A:69:PRO:CB	1:A:73:MET:HB2	0.55	2.31	17	1
1:A:71:ASN:ND2	1:A:73:MET:SD	0.55	2.79	19	1
1:A:22:PHE:CZ	1:A:28:LEU:HD21	0.55	2.36	20	1
1:A:98:GLY:HA3	1:A:119:ILE:HD12	0.55	1.78	3	5
1:A:36:TYR:HA	1:A:59:ARG:O	0.55	2.02	5	4
1:A:65:ASN:N	1:A:66:PRO:CD	0.55	2.70	13	7
1:A:98:GLY:CA	1:A:119:ILE:HD12	0.55	2.31	9	2
1:A:76:VAL:HG23	1:A:80:ILE:HG13	0.55	1.78	2	1
1:A:81:GLN:CG	1:A:82:PHE:N	0.54	2.70	16	2
1:A:15:GLN:HE22	1:A:28:LEU:CA	0.54	2.15	5	4
1:A:60:ARG:HD3	1:A:81:GLN:NE2	0.54	2.18	14	1
1:A:96:LEU:HD21	1:A:99:SER:O	0.54	2.02	4	1
1:A:35:GLY:CA	1:A:106:ILE:HG21	0.54	2.33	18	4
1:A:11:ALA:O	1:A:12:ARG:HD2	0.54	2.02	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:ALA:HA	1:A:57:ARG:HE	0.54	1.62	2	1
1:A:94:TYR:OH	1:A:96:LEU:HB2	0.54	2.02	14	2
1:A:107:SER:OG	1:A:112:ILE:HG12	0.54	2.03	15	2
1:A:78:LYS:HB2	1:A:84:SER:OG	0.54	2.02	20	5
1:A:89:SER:HA	1:A:94:TYR:OH	0.53	2.03	10	5
1:A:2:CYS:SG	1:A:22:PHE:O	0.53	2.66	12	6
1:A:71:ASN:HD22	1:A:90:CYS:HB3	0.53	1.63	15	1
1:A:76:VAL:HG22	1:A:79:GLY:H	0.53	1.63	8	5
1:A:60:ARG:HG3	1:A:82:PHE:HB3	0.53	1.80	14	3
1:A:90:CYS:HB3	1:A:94:TYR:CE2	0.53	2.38	18	1
1:A:71:ASN:ND2	1:A:90:CYS:HB3	0.53	2.18	15	1
1:A:76:VAL:HA	1:A:86:ILE:HG22	0.53	1.79	9	3
1:A:45:CYS:SG	1:A:51:TRP:CH2	0.53	3.02	8	2
1:A:54:ALA:HA	1:A:57:ARG:NE	0.52	2.19	2	1
1:A:4:ALA:HA	1:A:20:PHE:O	0.52	2.03	10	3
1:A:77:ILE:HD11	1:A:87:LYS:CE	0.52	2.34	1	1
1:A:106:ILE:HG22	1:A:108:GLY:H	0.52	1.64	3	4
1:A:104:CYS:HB2	1:A:113:TRP:CE3	0.52	2.39	9	1
1:A:91:THR:HB	1:A:94:TYR:HB3	0.52	1.81	15	5
1:A:47:LYS:O	1:A:50:VAL:HB	0.52	2.05	1	2
1:A:16:LEU:HA	1:A:19:GLU:O	0.52	2.05	16	4
1:A:81:GLN:HG3	1:A:82:PHE:H	0.52	1.62	1	1
1:A:41:PHE:CD2	1:A:57:ARG:NH2	0.52	2.78	12	1
1:A:99:SER:HB2	1:A:115:GLN:OE1	0.52	2.05	14	2
1:A:82:PHE:CZ	1:A:106:ILE:HG12	0.52	2.40	8	1
1:A:95:ARG:O	1:A:121:ASP:HB3	0.52	2.05	16	3
1:A:71:ASN:CG	1:A:122:ARG:HH22	0.52	2.08	6	1
1:A:33:ARG:HB2	1:A:34:PRO:HD2	0.51	1.80	13	1
1:A:66:PRO:N	1:A:67:PRO:CD	0.51	2.73	16	14
1:A:33:ARG:CZ	1:A:36:TYR:CD1	0.51	2.93	7	1
1:A:103:THR:HB	1:A:114:ASP:OD2	0.51	2.06	19	3
1:A:2:CYS:HA	1:A:49:SER:OG	0.51	2.05	19	1
1:A:68:ASP:OD1	1:A:69:PRO:HD2	0.51	2.05	18	2
1:A:36:TYR:HB3	1:A:58:CYS:HB3	0.51	1.82	15	4
1:A:69:PRO:CD	1:A:74:VAL:HG23	0.51	2.35	16	2
1:A:13:PRO:HG3	1:A:30:TYR:CZ	0.51	2.40	13	1
1:A:91:THR:HG21	1:A:122:ARG:HH21	0.51	1.65	20	1
1:A:78:LYS:HB2	1:A:84:SER:HA	0.51	1.81	12	1
1:A:15:GLN:HE22	1:A:29:ASN:N	0.50	2.03	2	4
1:A:65:ASN:N	1:A:66:PRO:HD2	0.50	2.21	15	1
1:A:71:ASN:ND2	1:A:73:MET:HG3	0.50	2.21	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:4:ALA:H	1:A:21:GLU:HG2	0.50	1.65	16	2
1:A:27:TYR:CE2	1:A:44:ILE:HG12	0.50	2.41	17	4
1:A:60:ARG:HG3	1:A:82:PHE:CD2	0.50	2.41	14	1
1:A:2:CYS:HB3	1:A:51:TRP:CE2	0.50	2.42	12	1
1:A:8:LEU:HD22	1:A:57:ARG:NH2	0.50	2.22	19	1
1:A:87:LYS:CD	1:A:101:SER:HB3	0.49	2.37	3	3
1:A:68:ASP:OD2	1:A:72:GLY:HA2	0.49	2.07	5	1
1:A:70:VAL:HB	1:A:120:CYS:SG	0.49	2.48	5	2
1:A:82:PHE:CE1	1:A:105:ILE:HA	0.49	2.43	9	2
1:A:76:VAL:HG23	1:A:76:VAL:O	0.49	2.07	15	1
1:A:44:ILE:H	1:A:52:THR:CG2	0.49	2.21	17	1
1:A:69:PRO:CG	1:A:74:VAL:HB	0.49	2.37	13	1
1:A:119:ILE:O	1:A:120:CYS:SG	0.49	2.70	6	3
1:A:37:SER:O	1:A:58:CYS:HA	0.49	2.08	7	2
1:A:91:THR:HG22	1:A:93:GLY:N	0.49	2.23	4	3
1:A:26:THR:O	1:A:44:ILE:HA	0.49	2.08	10	4
1:A:104:CYS:HB2	1:A:113:TRP:CD2	0.49	2.43	12	1
1:A:45:CYS:SG	1:A:50:VAL:O	0.49	2.71	11	2
1:A:11:ALA:C	1:A:13:PRO:HD3	0.48	2.29	18	1
1:A:107:SER:HB3	1:A:112:ILE:HD12	0.48	1.84	16	1
1:A:63:CYS:HA	1:A:111:VAL:HG23	0.48	1.84	18	1
1:A:85:GLN:HA	1:A:102:ALA:O	0.48	2.09	3	3
1:A:46:LEU:HD12	1:A:52:THR:CG2	0.48	2.37	14	2
1:A:60:ARG:HG3	1:A:82:PHE:CB	0.48	2.38	14	1
1:A:69:PRO:HD3	1:A:74:VAL:HG23	0.48	1.85	10	4
1:A:99:SER:HB2	1:A:115:GLN:CD	0.48	2.28	14	1
1:A:60:ARG:HG3	1:A:81:GLN:NE2	0.48	2.24	10	1
1:A:115:GLN:NE2	1:A:118:PRO:HA	0.48	2.24	12	1
1:A:55:LYS:HE2	1:A:56:ASP:OD2	0.48	2.09	19	1
1:A:15:GLN:CD	1:A:15:GLN:H	0.48	2.10	20	1
1:A:98:GLY:HA3	1:A:119:ILE:CD1	0.48	2.39	7	2
1:A:30:TYR:CE1	1:A:43:ILE:HD11	0.48	2.44	12	1
1:A:81:GLN:O	1:A:84:SER:HB2	0.48	2.08	1	4
1:A:30:TYR:O	1:A:40:PRO:HB3	0.48	2.08	15	1
1:A:45:CYS:SG	1:A:51:TRP:CZ2	0.48	3.07	10	1
1:A:99:SER:OG	1:A:115:GLN:HA	0.48	2.09	11	1
1:A:24:ILE:HG23	1:A:45:CYS:O	0.47	2.09	1	1
1:A:38:GLY:HA3	1:A:57:ARG:O	0.47	2.09	1	3
1:A:43:ILE:O	1:A:52:THR:HG23	0.47	2.09	12	1
1:A:10:PHE:HB3	1:A:33:ARG:NE	0.47	2.23	20	1
1:A:41:PHE:H	1:A:57:ARG:NH2	0.47	2.06	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:LEU:HD23	1:A:11:ALA:HB2	0.47	1.87	7	1
1:A:47:LYS:C	1:A:47:LYS:HD3	0.47	2.30	8	1
1:A:117:THR:OG1	1:A:118:PRO:HD2	0.47	2.10	13	1
1:A:4:ALA:CB	1:A:20:PHE:HB3	0.47	2.40	4	5
1:A:33:ARG:CZ	1:A:36:TYR:HB2	0.47	2.39	7	1
1:A:102:ALA:HB2	1:A:115:GLN:HB2	0.47	1.86	17	2
1:A:38:GLY:HA2	1:A:59:ARG:NH1	0.47	2.25	7	1
1:A:95:ARG:HB2	1:A:121:ASP:HB3	0.47	1.86	11	2
1:A:3:ASN:O	1:A:4:ALA:HB3	0.47	2.10	4	2
1:A:96:LEU:HD23	1:A:100:SER:CA	0.46	2.39	5	3
1:A:15:GLN:O	1:A:19:GLU:HG2	0.46	2.09	12	1
1:A:73:MET:SD	1:A:90:CYS:O	0.46	2.73	9	1
1:A:33:ARG:HB2	1:A:36:TYR:CE1	0.46	2.44	18	1
1:A:36:TYR:HH	1:A:82:PHE:HE2	0.46	1.53	7	1
1:A:95:ARG:HB2	1:A:121:ASP:CB	0.46	2.40	8	4
1:A:66:PRO:HD2	1:A:67:PRO:HD3	0.46	1.88	20	1
1:A:12:ARG:N	1:A:13:PRO:HD3	0.46	2.26	7	1
1:A:90:CYS:CB	1:A:94:TYR:CE2	0.46	2.98	13	1
1:A:44:ILE:C	1:A:46:LEU:H	0.46	2.14	18	1
1:A:99:SER:OG	1:A:115:GLN:HG3	0.46	2.11	20	1
1:A:64:ARG:HG3	1:A:64:ARG:O	0.46	2.11	2	1
1:A:15:GLN:NE2	1:A:29:ASN:N	0.46	2.64	12	5
1:A:81:GLN:CG	1:A:82:PHE:H	0.46	2.24	1	1
1:A:39:ARG:HE	1:A:40:PRO:HD2	0.45	1.70	1	1
1:A:63:CYS:SG	1:A:111:VAL:CG2	0.45	3.04	7	1
1:A:65:ASN:H	1:A:66:PRO:HD3	0.45	1.70	4	2
1:A:2:CYS:SG	1:A:51:TRP:CH2	0.45	3.09	6	1
1:A:82:PHE:HA	1:A:104:CYS:SG	0.45	2.51	11	2
1:A:61:LYS:HG2	1:A:62:SER:N	0.45	2.26	20	1
1:A:102:ALA:HB2	1:A:115:GLN:HB3	0.45	1.88	2	1
1:A:76:VAL:CG2	1:A:80:ILE:HG13	0.45	2.41	2	1
1:A:106:ILE:HG22	1:A:108:GLY:N	0.45	2.27	18	5
1:A:45:CYS:HA	1:A:51:TRP:HA	0.45	1.88	10	1
1:A:5:PRO:O	1:A:6:GLU:HB3	0.45	2.12	20	5
1:A:69:PRO:HG2	1:A:73:MET:N	0.45	2.27	18	2
1:A:5:PRO:HG3	1:A:51:TRP:CZ2	0.45	2.47	13	1
1:A:45:CYS:SG	1:A:51:TRP:CZ3	0.45	3.10	8	1
1:A:92:LYS:CG	1:A:93:GLY:N	0.45	2.78	20	1
1:A:5:PRO:CA	1:A:51:TRP:NE1	0.45	2.80	13	2
1:A:7:TRP:CZ2	1:A:9:PRO:HA	0.45	2.47	11	2
1:A:6:GLU:HG3	1:A:7:TRP:N	0.45	2.27	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:PRO:HB2	1:A:72:GLY:H	0.45	1.72	19	1
1:A:96:LEU:HD13	1:A:100:SER:HA	0.45	1.88	3	2
1:A:64:ARG:HD2	1:A:64:ARG:O	0.45	2.12	5	1
1:A:33:ARG:NE	1:A:36:TYR:HD1	0.44	2.10	7	1
1:A:41:PHE:CG	1:A:42:SER:N	0.44	2.84	17	1
1:A:76:VAL:HG21	1:A:80:ILE:N	0.44	2.28	8	2
1:A:61:LYS:HB3	1:A:111:VAL:HG13	0.44	1.90	16	2
1:A:86:ILE:HD12	1:A:113:TRP:CZ3	0.44	2.48	17	2
1:A:22:PHE:CE1	1:A:28:LEU:HD21	0.44	2.47	14	3
1:A:44:ILE:O	1:A:51:TRP:HA	0.44	2.12	14	1
1:A:43:ILE:HG13	1:A:51:TRP:CE3	0.44	2.48	14	1
1:A:10:PHE:CD2	1:A:58:CYS:HB2	0.44	2.47	16	2
1:A:32:CYS:SG	1:A:40:PRO:CD	0.44	3.03	2	1
1:A:64:ARG:O	1:A:113:TRP:NE1	0.44	2.50	2	3
1:A:35:GLY:HA3	1:A:106:ILE:CG2	0.44	2.42	13	2
1:A:85:GLN:HG2	1:A:101:SER:OG	0.44	2.12	5	1
1:A:63:CYS:SG	1:A:111:VAL:HG21	0.44	2.52	7	1
1:A:78:LYS:HB2	1:A:84:SER:HB2	0.44	1.89	6	1
1:A:77:ILE:HD11	1:A:87:LYS:CD	0.44	2.43	1	1
1:A:22:PHE:CD2	1:A:28:LEU:HD21	0.44	2.47	15	1
1:A:33:ARG:HB2	1:A:34:PRO:CD	0.43	2.43	13	1
1:A:13:PRO:HB3	1:A:30:TYR:CE1	0.43	2.48	20	1
1:A:33:ARG:CZ	1:A:36:TYR:HD1	0.43	2.27	7	1
1:A:73:MET:SD	1:A:90:CYS:C	0.43	2.95	13	2
1:A:98:GLY:CA	1:A:119:ILE:HD13	0.43	2.41	15	1
1:A:15:GLN:HG2	1:A:29:ASN:H	0.43	1.73	20	1
1:A:15:GLN:CD	1:A:29:ASN:H	0.43	2.16	14	1
1:A:60:ARG:NH2	1:A:81:GLN:HB3	0.43	2.28	18	1
1:A:95:ARG:N	1:A:95:ARG:HD3	0.43	2.28	3	1
1:A:60:ARG:CD	1:A:81:GLN:HE21	0.43	2.27	8	1
1:A:12:ARG:N	1:A:12:ARG:HD3	0.43	2.29	14	1
1:A:8:LEU:HD21	1:A:10:PHE:CE2	0.43	2.48	18	1
1:A:15:GLN:OE1	1:A:28:LEU:HA	0.43	2.13	2	1
1:A:10:PHE:HB3	1:A:58:CYS:SG	0.43	2.53	2	2
1:A:66:PRO:CD	1:A:67:PRO:HD2	0.43	2.43	14	2
1:A:13:PRO:HG3	1:A:30:TYR:CD2	0.43	2.49	10	1
1:A:5:PRO:HG2	1:A:16:LEU:HD12	0.43	1.89	13	1
1:A:79:GLY:O	1:A:80:ILE:HB	0.43	2.13	15	1
1:A:61:LYS:O	1:A:111:VAL:HG11	0.43	2.14	19	1
1:A:60:ARG:HH11	1:A:81:GLN:NE2	0.43	2.12	1	1
1:A:47:LYS:HA	1:A:47:LYS:HE3	0.43	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:60:ARG:CD	1:A:82:PHE:HB3	0.43	2.44	12	1
1:A:54:ALA:C	1:A:57:ARG:HG2	0.43	2.34	20	1
1:A:22:PHE:HB3	1:A:26:THR:HG21	0.42	1.91	19	1
1:A:34:PRO:O	1:A:106:ILE:HG13	0.42	2.14	14	1
1:A:67:PRO:HG2	1:A:88:TYR:OH	0.42	2.14	16	1
1:A:10:PHE:CZ	1:A:56:ASP:HA	0.42	2.49	18	1
1:A:81:GLN:O	1:A:84:SER:HB3	0.42	2.14	8	2
1:A:22:PHE:CD2	1:A:28:LEU:HD11	0.42	2.48	18	1
1:A:48:ASN:O	1:A:50:VAL:HG23	0.42	2.14	3	1
1:A:44:ILE:HB	1:A:46:LEU:HG	0.42	1.90	18	4
1:A:39:ARG:CG	1:A:40:PRO:CD	0.42	2.98	9	1
1:A:115:GLN:HE21	1:A:117:THR:HA	0.42	1.74	13	1
1:A:63:CYS:HA	1:A:111:VAL:CG2	0.42	2.44	18	1
1:A:36:TYR:HD2	1:A:59:ARG:C	0.42	2.18	7	1
1:A:55:LYS:HE3	1:A:56:ASP:OD1	0.42	2.15	6	1
1:A:14:THR:OG1	1:A:15:GLN:HG3	0.42	2.15	1	1
1:A:87:LYS:HD3	1:A:101:SER:CB	0.42	2.44	8	1
1:A:60:ARG:HG3	1:A:81:GLN:HE21	0.42	1.75	11	1
1:A:13:PRO:HG3	1:A:30:TYR:CE2	0.42	2.50	10	1
1:A:65:ASN:H	1:A:66:PRO:CD	0.42	2.27	13	1
1:A:69:PRO:HG3	1:A:73:MET:C	0.42	2.35	5	1
1:A:22:PHE:HB3	1:A:23:PRO:HD2	0.42	1.90	9	1
1:A:69:PRO:HG2	1:A:74:VAL:HG23	0.42	1.90	17	1
1:A:37:SER:O	1:A:59:ARG:N	0.42	2.52	7	1
1:A:22:PHE:CG	1:A:26:THR:HG21	0.42	2.48	8	1
1:A:50:VAL:O	1:A:51:TRP:HB2	0.42	2.15	10	1
1:A:34:PRO:C	1:A:106:ILE:HG21	0.42	2.35	14	1
1:A:55:LYS:HG3	1:A:56:ASP:N	0.42	2.29	18	1
1:A:99:SER:HB3	1:A:101:SER:O	0.42	2.15	3	1
1:A:13:PRO:HB3	1:A:30:TYR:CD1	0.42	2.50	13	3
1:A:15:GLN:HB2	1:A:28:LEU:CD2	0.41	2.45	13	1
1:A:73:MET:SD	1:A:90:CYS:CA	0.41	3.09	14	1
1:A:10:PHE:CD1	1:A:10:PHE:N	0.41	2.87	19	1
1:A:33:ARG:N	1:A:33:ARG:CZ	0.41	2.83	7	1
1:A:91:THR:O	1:A:94:TYR:CE1	0.41	2.73	10	1
1:A:5:PRO:O	1:A:6:GLU:HB2	0.41	2.14	18	2
1:A:76:VAL:CG2	1:A:79:GLY:HA2	0.41	2.45	1	1
1:A:23:PRO:O	1:A:24:ILE:CB	0.41	2.65	19	1
1:A:19:GLU:HB3	1:A:22:PHE:CE2	0.41	2.51	2	1
1:A:39:ARG:HG3	1:A:40:PRO:HD2	0.41	1.92	5	1
1:A:63:CYS:SG	1:A:81:GLN:C	0.41	2.99	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:TYR:CE1	1:A:115:GLN:OE1	0.41	2.73	10	1
1:A:96:LEU:HD11	1:A:119:ILE:O	0.41	2.15	15	1
1:A:82:PHE:CG	1:A:106:ILE:HD11	0.41	2.51	19	1
1:A:76:VAL:O	1:A:76:VAL:HG23	0.41	2.15	6	1
1:A:15:GLN:HE22	1:A:28:LEU:CB	0.41	2.28	17	1
1:A:71:ASN:ND2	1:A:90:CYS:O	0.41	2.54	19	1
1:A:35:GLY:CA	1:A:108:GLY:HA2	0.41	2.45	12	1
1:A:44:ILE:O	1:A:46:LEU:N	0.41	2.47	6	1
1:A:75:HIS:HB2	1:A:87:LYS:HB2	0.41	1.90	16	1
1:A:63:CYS:SG	1:A:113:TRP:CZ2	0.41	3.14	17	1
1:A:60:ARG:HD2	1:A:81:GLN:HE21	0.41	1.76	20	1
1:A:32:CYS:HB3	1:A:36:TYR:HB2	0.41	1.93	2	1
1:A:26:THR:O	1:A:44:ILE:HG23	0.41	2.15	10	1
1:A:99:SER:HB3	1:A:115:GLN:HG3	0.41	1.93	16	1
1:A:95:ARG:HD2	1:A:121:ASP:OD2	0.41	2.15	6	1
1:A:85:GLN:HE21	1:A:101:SER:CB	0.41	2.29	5	1
1:A:74:VAL:HG23	1:A:87:LYS:O	0.41	2.16	14	1
1:A:40:PRO:HA	1:A:57:ARG:HH21	0.41	1.76	15	1
1:A:13:PRO:CG	1:A:30:TYR:CE1	0.41	3.04	17	1
1:A:33:ARG:HH22	1:A:36:TYR:HB2	0.40	1.71	7	1
1:A:94:TYR:CG	1:A:95:ARG:N	0.40	2.87	13	1
1:A:44:ILE:CD1	1:A:52:THR:HG21	0.40	2.44	15	1
1:A:5:PRO:HG3	1:A:43:ILE:CD1	0.40	2.46	17	1
1:A:94:TYR:C	1:A:94:TYR:CD1	0.40	2.93	17	1
1:A:12:ARG:CG	1:A:33:ARG:HB3	0.40	2.46	7	1
1:A:95:ARG:O	1:A:121:ASP:CB	0.40	2.69	7	1
1:A:22:PHE:HD2	1:A:26:THR:HG21	0.40	1.75	14	1
1:A:97:ILE:HB	1:A:119:ILE:CG2	0.40	2.47	15	1
1:A:76:VAL:HG12	1:A:79:GLY:H	0.40	1.76	11	1
1:A:121:ASP:O	1:A:122:ARG:C	0.40	2.60	13	1
1:A:104:CYS:SG	1:A:111:VAL:HB	0.40	2.57	18	1
1:A:99:SER:HB2	1:A:115:GLN:HG3	0.40	1.92	18	1
1:A:36:TYR:O	1:A:39:ARG:NH1	0.40	2.54	14	1

5.2 Torsion angles ⓘ

5.2.1 Protein backbone ⓘ

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	120/128 (94%)	104±2 (87±2%)	9±2 (7±2%)	7±1 (6±1%)	3	21
All	All	2400/2560 (94%)	2089 (87%)	173 (7%)	138 (6%)	3	21

All 21 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	4	ALA	20
1	A	80	ILE	19
1	A	68	ASP	19
1	A	6	GLU	17
1	A	117	THR	13
1	A	45	CYS	11
1	A	50	VAL	7
1	A	53	GLY	6
1	A	5	PRO	5
1	A	65	ASN	5
1	A	51	TRP	3
1	A	33	ARG	2
1	A	24	ILE	2
1	A	56	ASP	2
1	A	41	PHE	1
1	A	44	ILE	1
1	A	54	ALA	1
1	A	47	LYS	1
1	A	76	VAL	1
1	A	39	ARG	1
1	A	74	VAL	1

5.2.2 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	108/110 (98%)	100±2 (92±2%)	8±2 (8±2%)	17	65
All	All	2160/2200 (98%)	1995 (92%)	165 (8%)	17	65

All 36 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	105	ILE	20
1	A	64	ARG	14
1	A	12	ARG	11
1	A	15	GLN	11
1	A	94	TYR	9
1	A	65	ASN	8
1	A	45	CYS	7
1	A	39	ARG	7
1	A	33	ARG	6
1	A	16	LEU	6
1	A	63	CYS	6
1	A	86	ILE	6
1	A	1	GLN	5
1	A	68	ASP	4
1	A	87	LYS	4
1	A	10	PHE	4
1	A	3	ASN	4
1	A	112	ILE	4
1	A	104	CYS	4
1	A	47	LYS	3
1	A	117	THR	3
1	A	60	ARG	2
1	A	52	THR	2
1	A	49	SER	2
1	A	2	CYS	2
1	A	71	ASN	1
1	A	40	PRO	1
1	A	14	THR	1
1	A	28	LEU	1
1	A	43	ILE	1
1	A	44	ILE	1
1	A	99	SER	1
1	A	95	ARG	1
1	A	66	PRO	1
1	A	24	ILE	1
1	A	115	GLN	1

5.2.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.4 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.5 Ligand geometry [i](#)

There are no ligands in this entry.

5.6 Other polymers [i](#)

There are no such molecules in this entry.

5.7 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 82% for the well-defined parts and 82% for the entire structure.

6.1 Chemical shift list 1

File name: input_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

6.1.1 Bookkeeping [i](#)

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

Total number of shifts	1370
Number of shifts mapped to atoms	1370
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	3

6.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	121	0.21 ± 0.23	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	111	-0.03 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	117	0.90 ± 0.23	Should be applied
^{15}N	113	0.35 ± 0.55	None needed (< 0.5 ppm)

6.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 82%, i.e. 1236 atoms were assigned a chemical shift out of a possible 1510. 10 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	580/590 (98%)	232/234 (99%)	236/244 (97%)	112/112 (100%)
Sidechain	540/792 (68%)	318/473 (67%)	217/276 (79%)	5/43 (12%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	116/128 (91%)	58/67 (87%)	55/57 (96%)	3/4 (75%)
Overall	1236/1510 (82%)	608/774 (79%)	508/577 (88%)	120/159 (75%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 82%, i.e. 1236 atoms were assigned a chemical shift out of a possible 1510. 10 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	580/590 (98%)	232/234 (99%)	236/244 (97%)	112/112 (100%)
Sidechain	540/792 (68%)	318/473 (67%)	217/276 (79%)	5/43 (12%)
Aromatic	116/128 (91%)	58/67 (87%)	55/57 (96%)	3/4 (75%)
Overall	1236/1510 (82%)	608/774 (79%)	508/577 (88%)	120/159 (75%)

6.1.4 Statistically unusual chemical shifts ⓘ

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

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	57	ARG	HG2	0.05	2.92 – 0.22	-5.6
1	A	5	PRO	HG2	0.21	3.48 – 0.38	-5.6
1	A	8	LEU	HB3	-0.27	3.34 – -0.26	-5.0

6.1.5 Random Coil Index (RCI) plots ⓘ

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.

Random coil index (RCI) for chain A:

