



Full wwPDB NMR Structure Validation Report ⓘ

Mar 27, 2026 – 11:06 PM UTC

PDB ID : 6SDY / pdb_00006sdy
BMRB ID : 34422
Title : Solution structure of Staufen1 dsRBD4 - hARF1 SBS dsRNA complex.
Authors : Yadav, D.K.; Lukavsky, P.J.
Deposited on : 2019-07-29

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

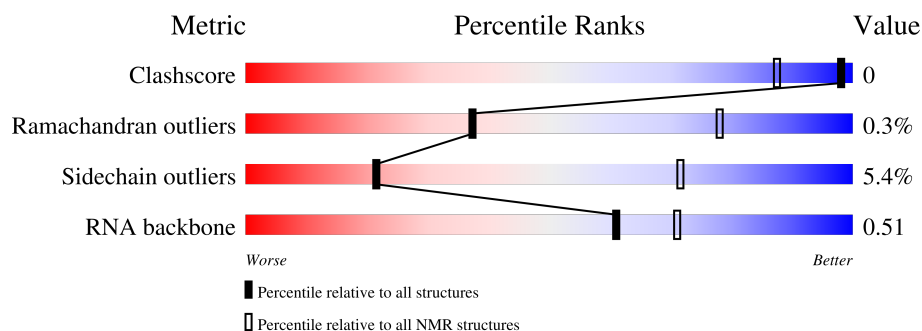
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment 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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823
RNA backbone	8273	777

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	74	
2	B	34	

2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

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:204-A:228, A:237-A:274 (63)	0.70	1

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2281 atoms, of which 975 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Double-stranded RNA-binding protein Staufen homolog 1.

Mol	Chain	Residues	Atoms						Trace
1	A	74	Total	C	H	N	O	S	0
			1195	363	609	113	107	3	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	201	GLY	-	expression tag	UNP O95793
A	202	SER	-	expression tag	UNP O95793
A	203	HIS	-	expression tag	UNP O95793
A	204	MET	-	expression tag	UNP O95793

- Molecule 2 is a RNA chain called hARF1 SBS dsRNA.

Mol	Chain	Residues	Atoms						Trace
2	B	34	Total	C	H	N	O	P	0
			1086	322	366	126	239	33	

4 Residue-property plots [i](#)

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.

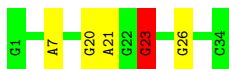
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 



- Molecule 2: hARF1 SBS dsRNA

Chain B: 



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 (medoid)

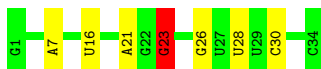
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 



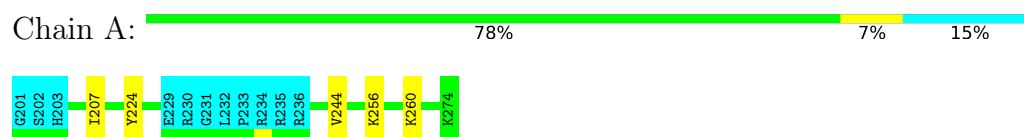
- Molecule 2: hARF1 SBS dsRNA

Chain B: 

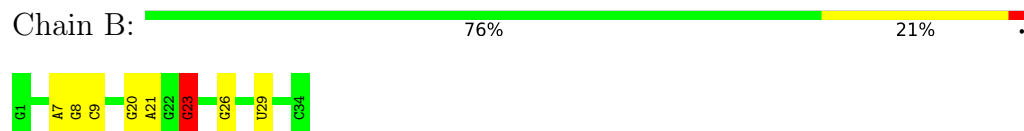


4.2.2 Score per residue for model 2

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

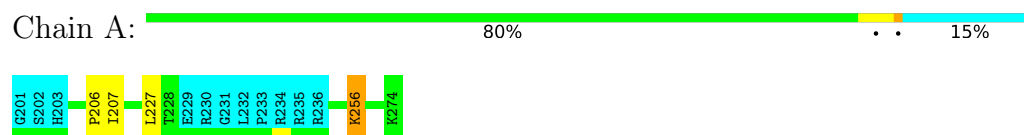


- Molecule 2: hARF1 SBS dsRNA

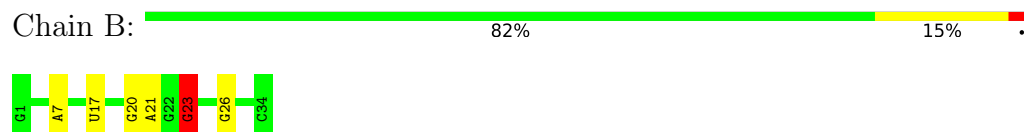


4.2.3 Score per residue for model 3

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

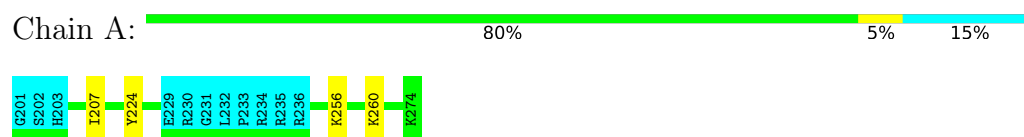


- Molecule 2: hARF1 SBS dsRNA

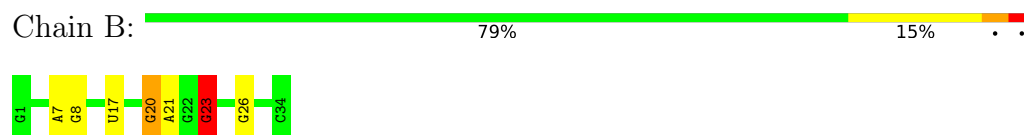


4.2.4 Score per residue for model 4

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1



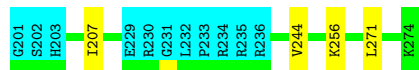
- Molecule 2: hARF1 SBS dsRNA



4.2.5 Score per residue for model 5

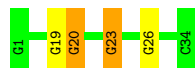
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  80% 5% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  88% 6% 6%



4.2.6 Score per residue for model 6

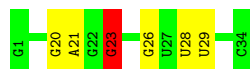
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  80% 5% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  82% 15% .



4.2.7 Score per residue for model 7

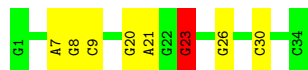
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  82% . 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  76% 21% .



4.2.8 Score per residue for model 8

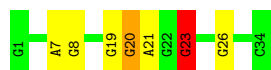
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 78% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B: 79% 15%



4.2.9 Score per residue for model 9

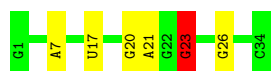
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 78% 7% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B: 82% 15%



4.2.10 Score per residue for model 10

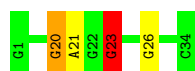
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 81% 15%



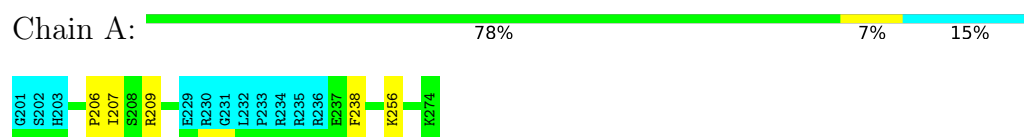
- Molecule 2: hARF1 SBS dsRNA

Chain B: 88% 6%

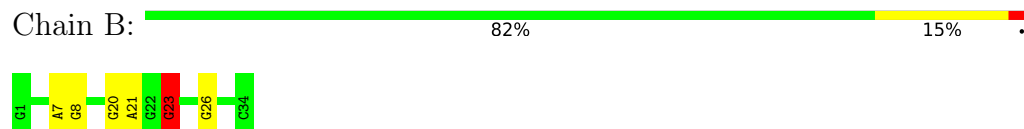


4.2.11 Score per residue for model 11

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

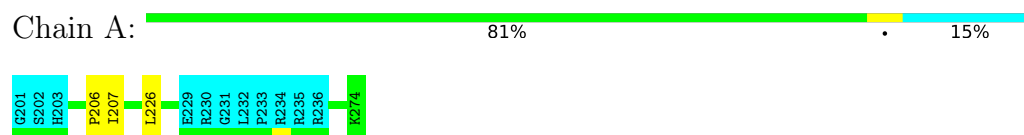


- Molecule 2: hARF1 SBS dsRNA

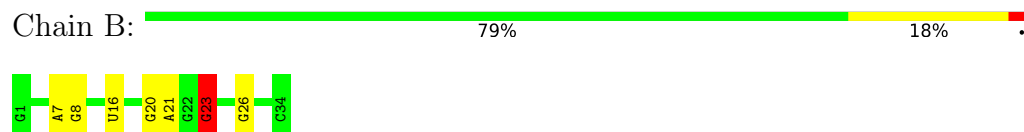


4.2.12 Score per residue for model 12

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

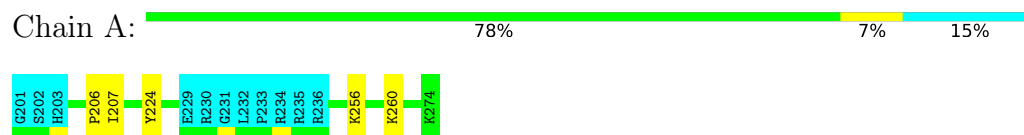


- Molecule 2: hARF1 SBS dsRNA

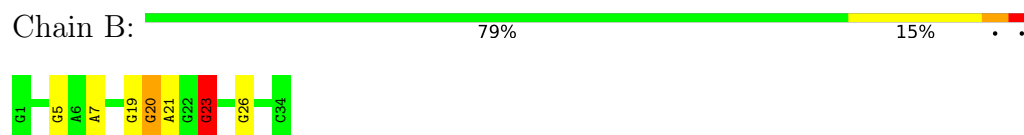


4.2.13 Score per residue for model 13

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1



- Molecule 2: hARF1 SBS dsRNA



4.2.14 Score per residue for model 14

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  78% 7% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  79% 18% .



4.2.15 Score per residue for model 15

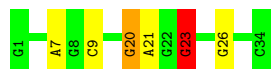
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  77% 8% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  82% 12% . .



4.2.16 Score per residue for model 16

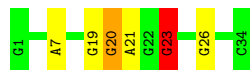
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A:  82% . 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B:  82% 12% . .



4.2.17 Score per residue for model 17

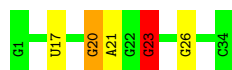
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 78% 5% 15%



- Molecule 2: hARF1 SBS dsRNA

Chain B: 85% 9% 9%



4.2.18 Score per residue for model 18

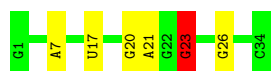
- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 80% 15%



- Molecule 2: hARF1 SBS dsRNA

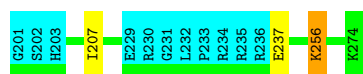
Chain B: 82% 15%



4.2.19 Score per residue for model 19

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1

Chain A: 81% 15%



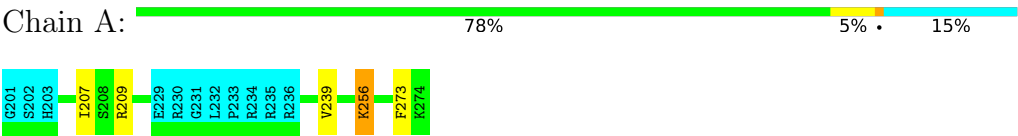
- Molecule 2: hARF1 SBS dsRNA

Chain B: 85% 12%

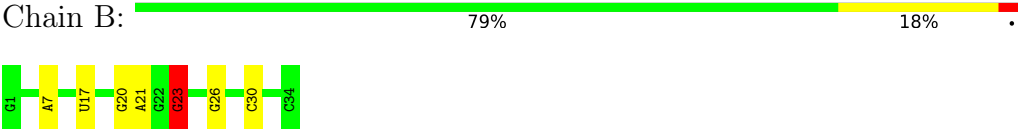


4.2.20 Score per residue for model 20

- Molecule 1: Double-stranded RNA-binding protein Staufen homolog 1



- Molecule 2: hARF1 SBS dsRNA



5 Refinement protocol and experimental data overview

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

Of the 50 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy and restraint violation*.

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

Software name	Classification	Version
Amber	refinement	AMBER14
CYANA	structure calculation	cyana-3.98.5
ATNOS-CANDID	structure calculation	UNIO 2.0.3
PROCHECK / PROCHECK-NMR	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	2
Total number of shifts	1382
Number of shifts mapped to atoms	1381
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	82%

6 Model quality i

6.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.88±0.01	0±0/499 (0.0± 0.0%)	1.46±0.03	1±1/667 (0.1± 0.2%)
2	B	0.81±0.00	0±0/803 (0.0± 0.0%)	1.19±0.01	2±1/1250 (0.2± 0.1%)
All	All	0.84	0/26040 (0.0%)	1.29	66/38340 (0.2%)

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

Mol	Chain	Chirality	Planarity
2	B	0.0±0.0	5.2±0.8
All	All	0	105

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	7	A	O4'-C4'-C3'	6.36	110.36	104.00	11	15
2	B	23	G	C4'-C3'-C2'	-6.32	96.28	102.60	10	20
1	A	206	PRO	CA-C-N	5.89	128.10	120.56	10	8
1	A	206	PRO	C-N-CA	5.89	128.10	120.56	10	8
2	B	20	G	O5'-C5'-C4'	-5.70	102.95	111.50	5	5
2	B	30	C	C4'-C3'-C2'	-5.33	97.27	102.60	7	3
2	B	20	G	O4'-C4'-C3'	5.33	109.33	104.00	10	3
1	A	260	LYS	CA-C-N	5.25	127.32	120.28	8	1
1	A	260	LYS	C-N-CA	5.25	127.32	120.28	8	1
1	A	273	PHE	CA-CB-CG	5.23	119.03	113.80	20	1
2	B	23	G	C5'-C4'-O4'	5.06	117.40	109.80	7	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
2	B	23	G	Sidechain	20
2	B	26	G	Sidechain	20
2	B	21	A	Sidechain	18
2	B	20	G	Sidechain	17
2	B	8	G	Sidechain	6
2	B	17	U	Sidechain	6
2	B	19	G	Sidechain	5
2	B	16	U	Sidechain	4
2	B	28	U	Sidechain	3
2	B	9	C	Sidechain	3
2	B	29	U	Sidechain	2
2	B	5	G	Sidechain	1

6.2 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	494	515	515	1±1
2	B	720	366	368	1±0
All	All	24280	17620	17660	16

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:256:LYS:HE3	2:B:23:G:H5''	0.50	1.84	16	11
1:A:224:TYR:CD1	1:A:260:LYS:HE3	0.44	2.47	13	1
1:A:224:TYR:CZ	1:A:260:LYS:HE3	0.44	2.47	8	3
1:A:227:LEU:HD22	1:A:227:LEU:N	0.42	2.30	17	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	62/74 (84%)	56±2 (90±3%)	6±2 (10±3%)	0±1 (0±1%)	37	78
All	All	1240/1480 (84%)	1116 (90%)	120 (10%)	4 (0%)	37	78

All 4 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	205	ASN	1
1	A	204	MET	1
1	A	267	MET	1
1	A	222	PRO	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	53/62 (85%)	50±1 (95±2%)	3±1 (5±2%)	21	71
All	All	1060/1240 (85%)	1003 (95%)	57 (5%)	21	71

All 13 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	207	ILE	19
1	A	256	LYS	13
1	A	209	ARG	4
1	A	217	LYS	3
1	A	238	PHE	3
1	A	244	VAL	2

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Mol	Chain	Res	Type	Models (Total)
1	A	227	LEU	2
1	A	274	LYS	2
1	A	226	LEU	2
1	A	237	GLU	2
1	A	239	VAL	2
1	A	225	THR	2
1	A	271	LEU	1

6.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
2	B	33/34 (97%)	0±0 (0±0%)	1±0 (3±1%)	0.49±0.00
All	All	660/680 (97%)	0 (0%)	21 (3%)	0.49

The overall RNA backbone suiteness is 0.51.

There are no RNA backbone outliers to report.

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	23	G	19
2	B	20	G	2

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

The completeness of assignment taking into account all chemical shift lists is 82% for the well-defined parts and 81% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *starch_output_prot*

7.1.1 Bookkeeping

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

Total number of shifts	939
Number of shifts mapped to atoms	938
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 1 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	201	GLY	H	8.369	0.000	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	74	-0.35 ± 0.18	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	68	0.01 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	68	-0.04 ± 0.19	None needed (< 0.5 ppm)
^{15}N	69	0.17 ± 0.47	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 54%, i.e. 814 atoms were assigned a chemical shift out of a possible 1517. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	309/315 (98%)	127/128 (99%)	122/126 (97%)	60/61 (98%)
Sidechain	479/525 (91%)	326/339 (96%)	143/163 (88%)	10/23 (43%)
Aromatic	26/36 (72%)	16/18 (89%)	10/17 (59%)	0/1 (0%)
Sugar	0/374 (0%)	0/204 (0%)	0/170 (0%)	0/0 (—%)
Base	0/267 (0%)	0/165 (0%)	0/57 (0%)	0/45 (0%)
Overall	814/1517 (54%)	469/854 (55%)	275/533 (52%)	70/130 (54%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 56%, i.e. 939 atoms were assigned a chemical shift out of a possible 1686. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	360/370 (97%)	149/151 (99%)	142/148 (96%)	69/71 (97%)
Sidechain	549/632 (87%)	372/406 (92%)	166/191 (87%)	11/35 (31%)
Aromatic	30/43 (70%)	18/22 (82%)	12/19 (63%)	0/2 (0%)
Sugar	0/374 (0%)	0/204 (0%)	0/170 (0%)	0/0 (—%)
Base	0/267 (0%)	0/165 (0%)	0/57 (0%)	0/45 (0%)
Overall	939/1686 (56%)	539/948 (57%)	320/585 (55%)	80/153 (52%)

7.1.4 Statistically unusual chemical shifts [i](#)

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.

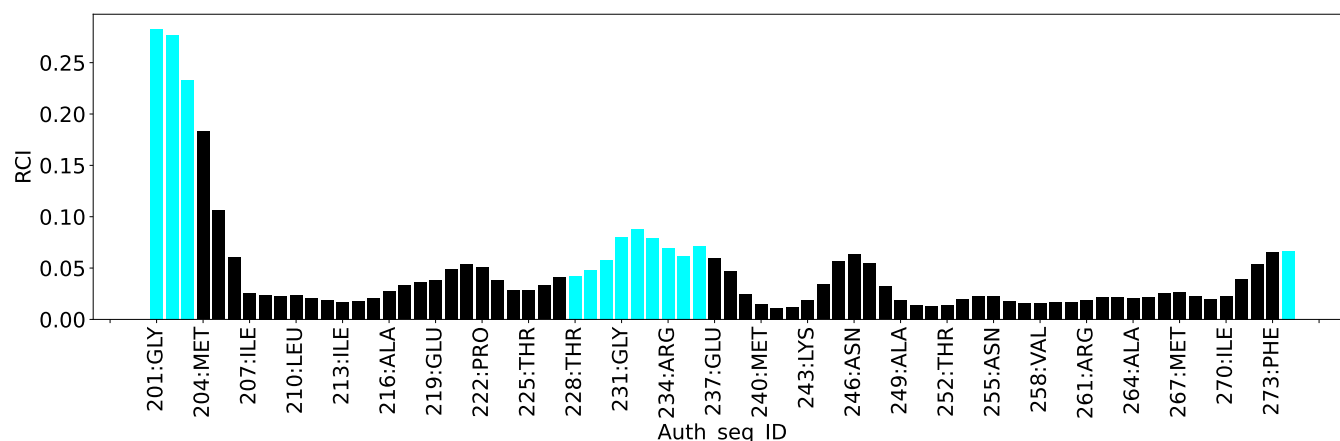
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	260	LYS	HE3	1.51	1.92 – 3.89	-7.1
1	A	260	LYS	HE2	1.87	1.95 – 3.88	-5.4

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

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble

composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



7.2 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *starch_output_rna*

7.2.1 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	443
Number of shifts mapped to atoms	443
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.2.2 Chemical shift referencing [i](#)

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

7.2.3 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 28%, i.e. 427 atoms were assigned a chemical

shift out of a possible 1517. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/315 (0%)	0/128 (0%)	0/126 (0%)	0/61 (0%)
Sidechain	0/525 (0%)	0/339 (0%)	0/163 (0%)	0/23 (0%)
Aromatic	0/36 (0%)	0/18 (0%)	0/17 (0%)	0/1 (0%)
Sugar	368/374 (98%)	200/204 (98%)	168/170 (99%)	0/0 (—%)
Base	59/267 (22%)	49/165 (30%)	10/57 (18%)	0/45 (0%)
Overall	427/1517 (28%)	249/854 (29%)	178/533 (33%)	0/130 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 25%, i.e. 427 atoms were assigned a chemical shift out of a possible 1686. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	0/370 (0%)	0/151 (0%)	0/148 (0%)	0/71 (0%)
Sidechain	0/632 (0%)	0/406 (0%)	0/191 (0%)	0/35 (0%)
Aromatic	0/43 (0%)	0/22 (0%)	0/19 (0%)	0/2 (0%)
Sugar	368/374 (98%)	200/204 (98%)	168/170 (99%)	0/0 (—%)
Base	59/267 (22%)	49/165 (30%)	10/57 (18%)	0/45 (0%)
Overall	427/1686 (25%)	249/948 (26%)	178/585 (30%)	0/153 (0%)

7.2.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins