



Full wwPDB NMR Structure Validation Report ⓘ

Apr 26, 2016 – 07:08 PM BST

PDB ID : 2ADT
Title : NMR structure of a 30 kDa GAAA tetraloop-receptor complex.
Authors : Davis, J.H.; Tonelli, M.; Scott, L.G.; Jaeger, L.; Williamson, J.R.; Butcher, S.E.
Deposited on : 2005-07-20

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
<http://wwpdb.org/validation/2016/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
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : rb-20027457
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027457

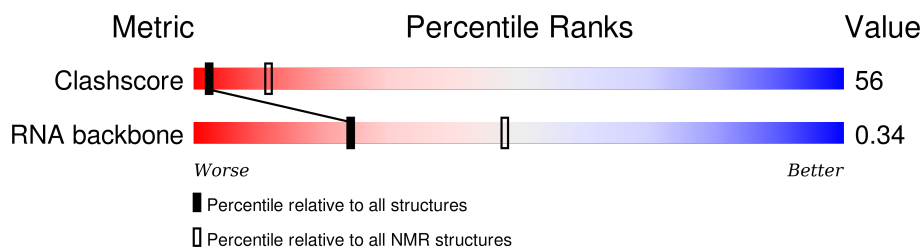
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

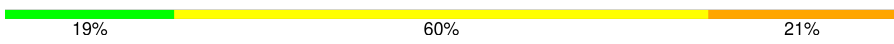
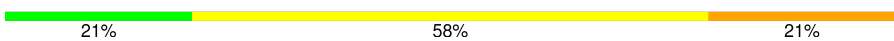
The overall completeness of chemical shifts assignment is 41%.

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	114402	11133
RNA backbone	3027	600

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	43	 19% 60% 21%
1	B	43	 21% 58% 21%

2 Ensemble composition and analysis ⓘ

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 2763 atoms, of which 927 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called 43-MER.

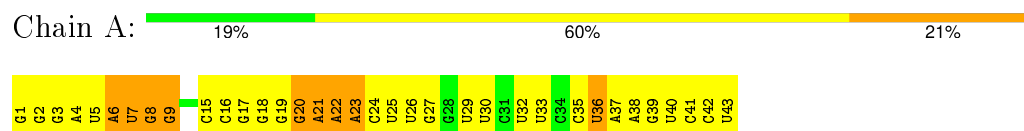
Mol	Chain	Residues	Atoms						Trace
1	A	43	Total	C	H	N	O	P	0
			1381	411	463	166	299	42	
1	B	43	Total	C	H	N	O	P	0
			1382	411	464	166	299	42	

4 Residue-property plots [i](#)

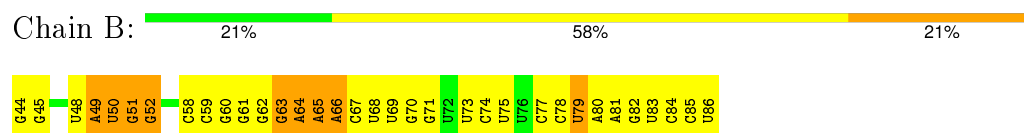
4.1 Average score per residue in the NMR ensemble

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: 43-MER



• Molecule 1: 43-MER

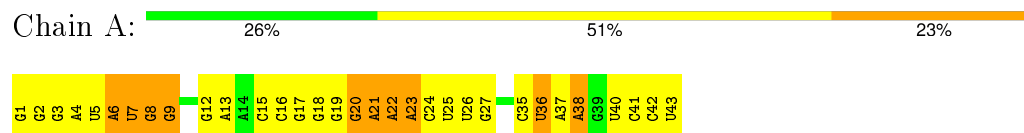


4.2 Scores per residue for each member of the ensemble

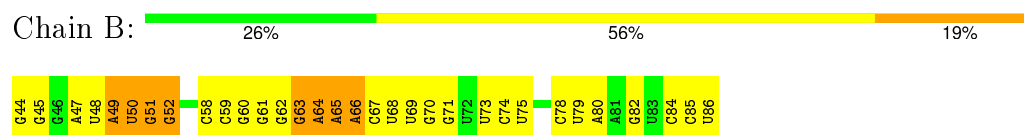
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: 43-MER

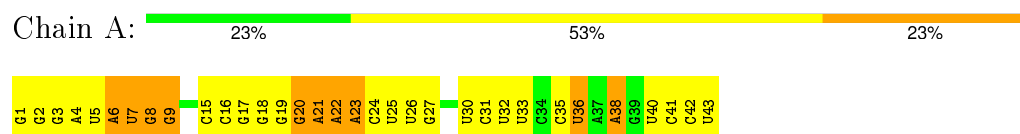


• Molecule 1: 43-MER

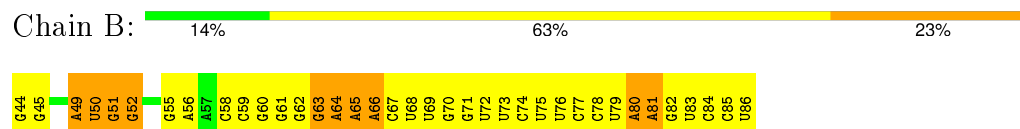


4.2.2 Score per residue for model 2

- Molecule 1: 43-MER

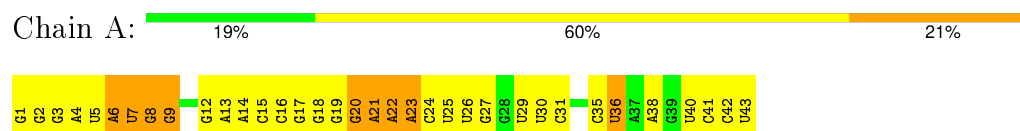


- Molecule 1: 43-MER

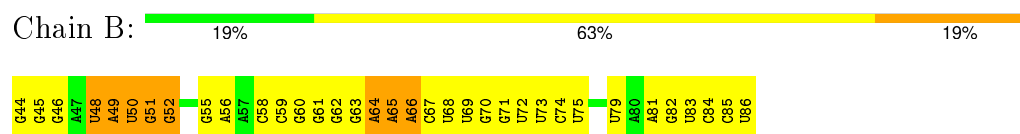


4.2.3 Score per residue for model 3

- Molecule 1: 43-MER

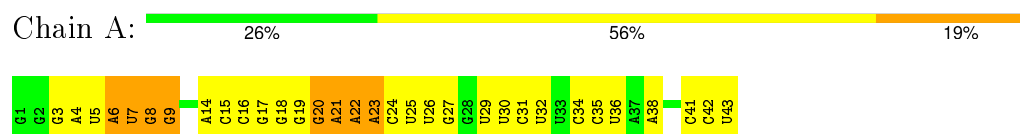


- Molecule 1: 43-MER

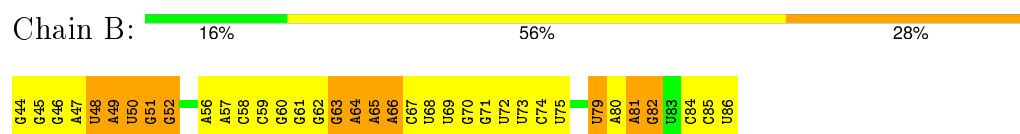


4.2.4 Score per residue for model 4

- Molecule 1: 43-MER

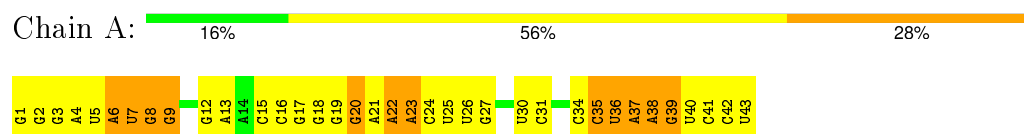


- Molecule 1: 43-MER

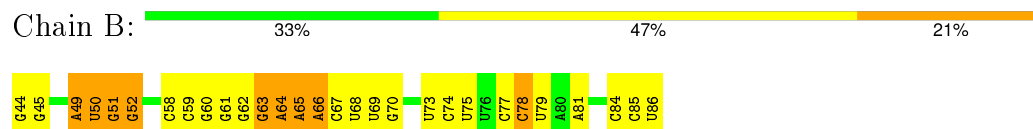


4.2.5 Score per residue for model 5

- Molecule 1: 43-MER

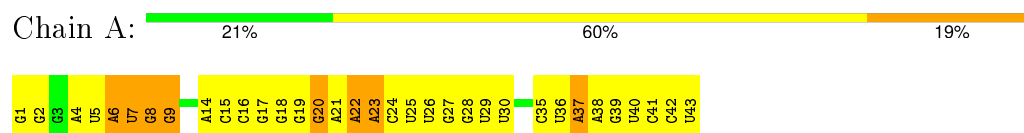


- Molecule 1: 43-MER

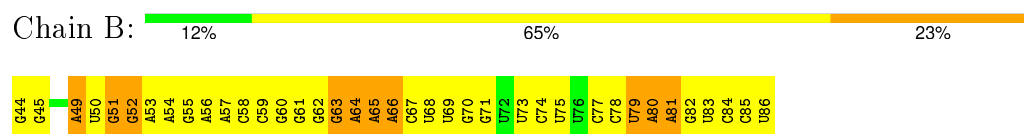


4.2.6 Score per residue for model 6

- Molecule 1: 43-MER

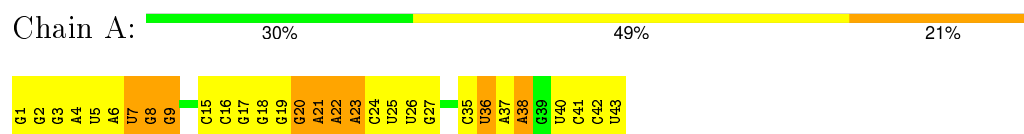


- Molecule 1: 43-MER

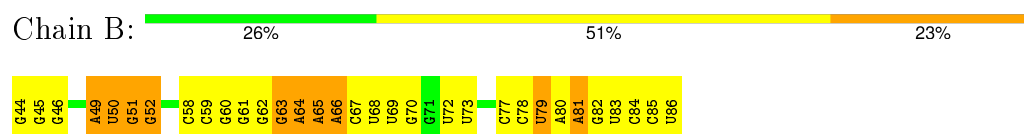


4.2.7 Score per residue for model 7

- Molecule 1: 43-MER

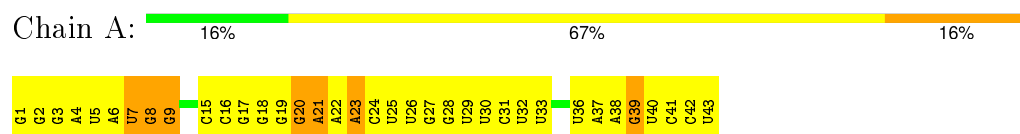


- Molecule 1: 43-MER

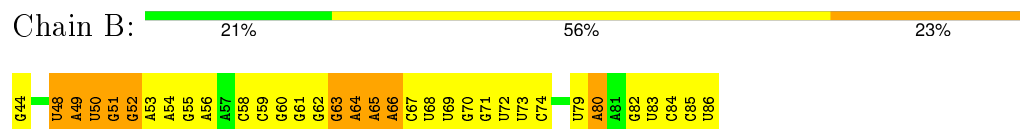


4.2.8 Score per residue for model 8

• Molecule 1: 43-MER

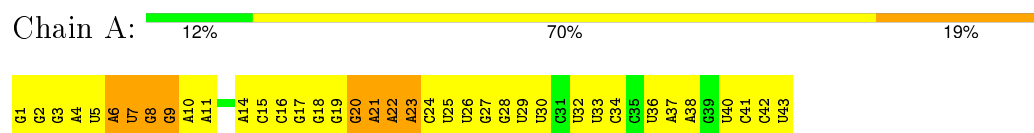


• Molecule 1: 43-MER

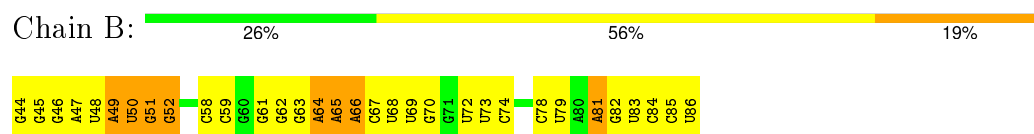


4.2.9 Score per residue for model 9

• Molecule 1: 43-MER

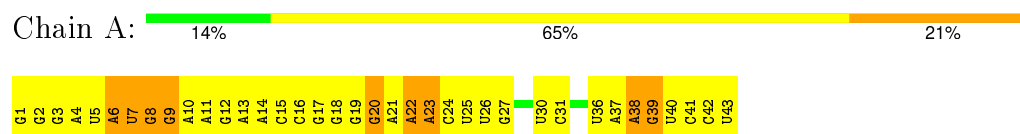


• Molecule 1: 43-MER

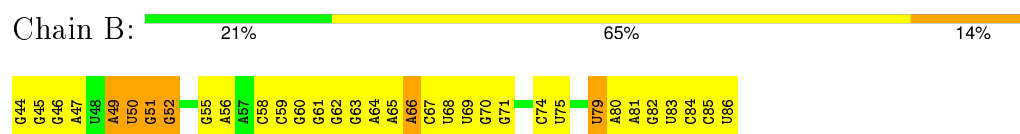


4.2.10 Score per residue for model 10

• Molecule 1: 43-MER

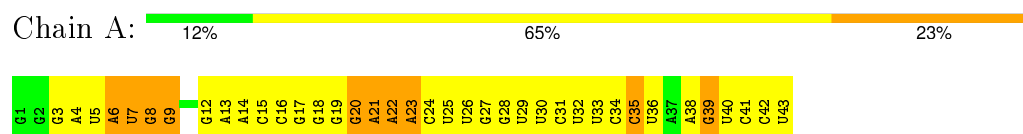


• Molecule 1: 43-MER

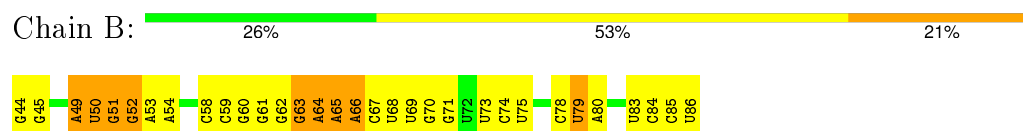


4.2.11 Score per residue for model 11

- Molecule 1: 43-MER

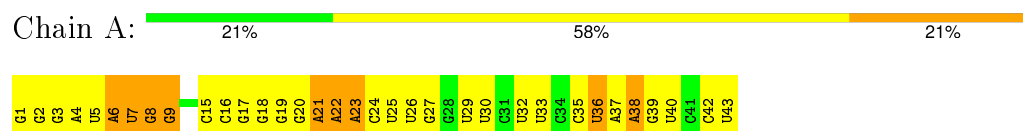


- Molecule 1: 43-MER

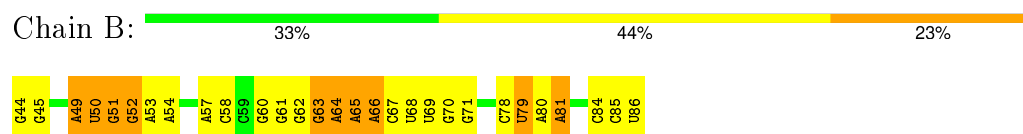


4.2.12 Score per residue for model 12

- Molecule 1: 43-MER

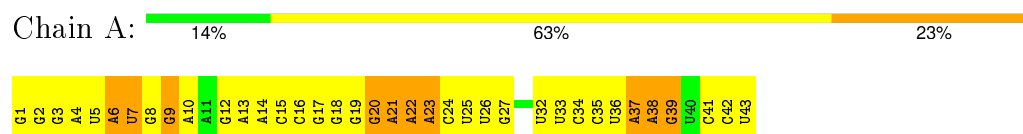


- Molecule 1: 43-MER

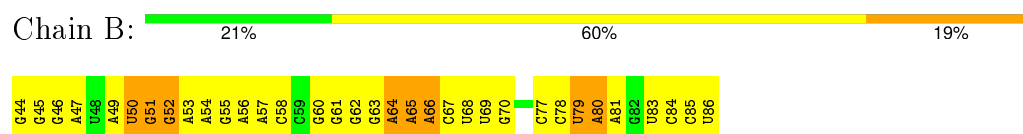


4.2.13 Score per residue for model 13

- Molecule 1: 43-MER

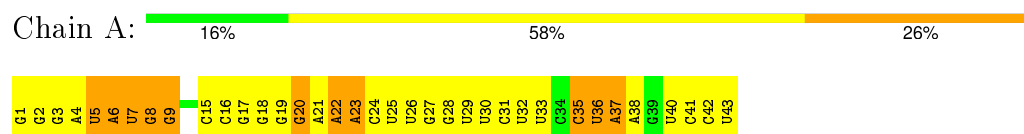


- Molecule 1: 43-MER

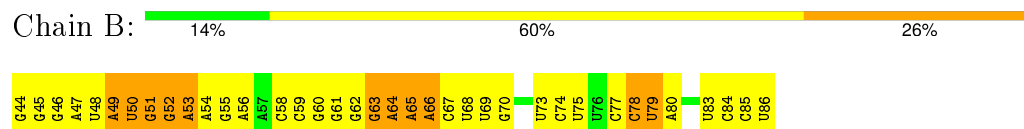


4.2.14 Score per residue for model 14

- Molecule 1: 43-MER

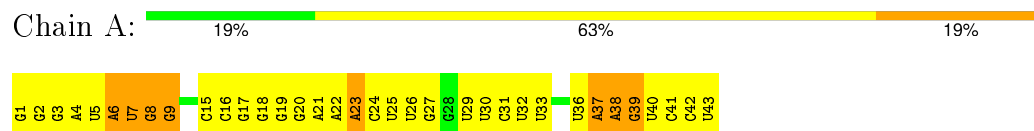


- Molecule 1: 43-MER

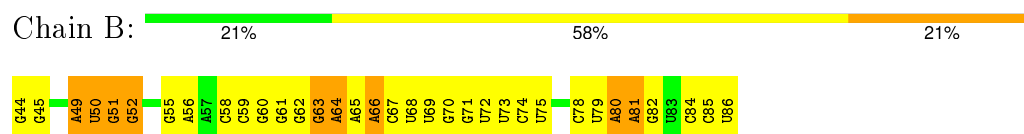


4.2.15 Score per residue for model 15

- Molecule 1: 43-MER

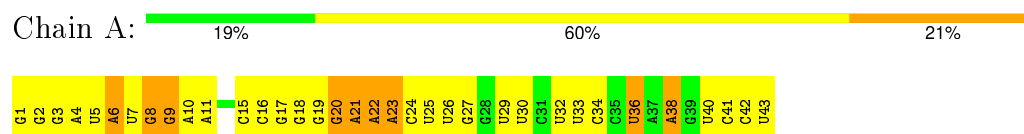


- Molecule 1: 43-MER

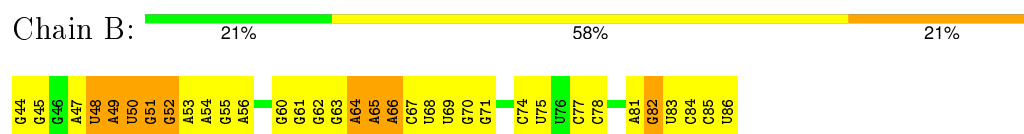


4.2.16 Score per residue for model 16

- Molecule 1: 43-MER

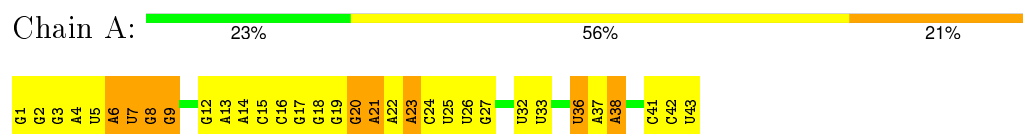


- Molecule 1: 43-MER

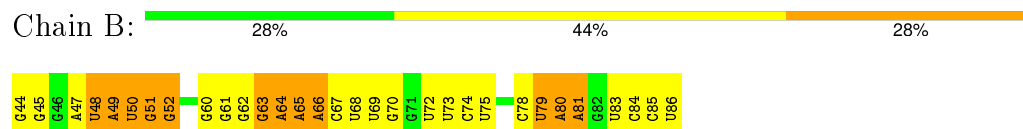


4.2.17 Score per residue for model 17

- Molecule 1: 43-MER

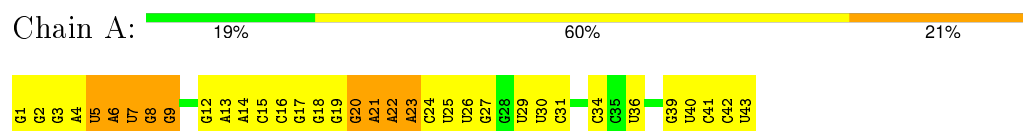


- Molecule 1: 43-MER

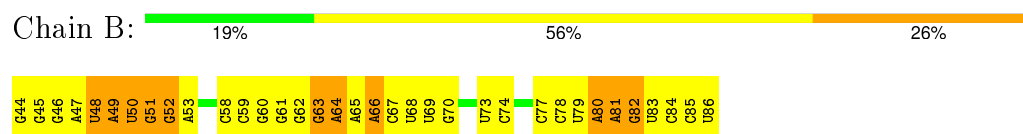


4.2.18 Score per residue for model 18

- Molecule 1: 43-MER

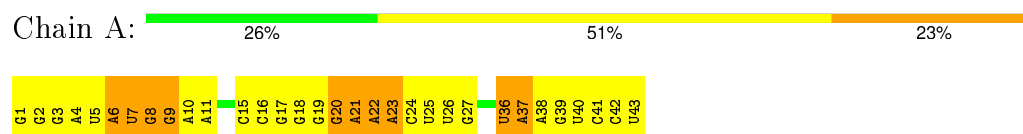


- Molecule 1: 43-MER

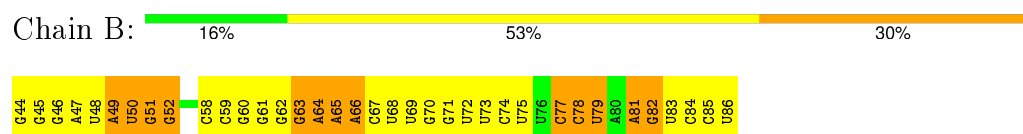


4.2.19 Score per residue for model 19

- Molecule 1: 43-MER

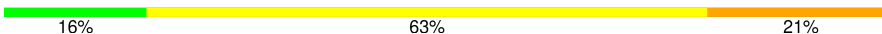


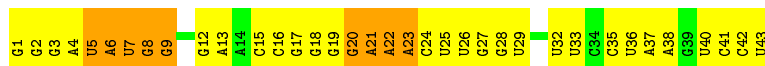
- Molecule 1: 43-MER



4.2.20 Score per residue for model 20

- Molecule 1: 43-MER

Chain A:  16% 63% 21%



- Molecule 1: 43-MER

Chain B:  30% 51% 19%



5 Refinement protocol and experimental data overview

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
CNS	structure solution	1.0
X-PLOR-NIH	structure solution	2.11
X-PLOR-NIH	refinement	2.11

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)	BMRB entry 6652
Number of chemical shift lists	1
Total number of shifts	700
Number of shifts mapped to atoms	700
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	41%

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

6 Model quality

6.1 Standard geometry

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

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	918	463	464	86±6
1	B	918	464	464	76±9
All	All	36720	18540	18560	3117

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 56.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:7:U:O2'	1:A:8:G:H5'	1.05	1.51	2	13
1:B:48:U:O2'	1:B:49:A:H5'	1.04	1.52	14	2
1:A:29:U:O2'	1:A:30:U:H5'	0.98	1.56	8	11
1:A:24:C:O2'	1:A:25:U:H5'	0.96	1.59	17	20
1:B:60:G:O2'	1:B:61:G:H5'	0.96	1.58	3	19
1:A:3:G:O2'	1:A:4:A:H5'	0.95	1.61	7	18
1:B:85:C:O2'	1:B:86:U:H5'	0.95	1.61	15	20
1:B:46:G:O2'	1:B:47:A:H5'	0.95	1.61	19	7
1:A:42:C:O2'	1:A:43:U:H5'	0.95	1.60	11	20
1:A:18:G:O2'	1:A:19:G:H5'	0.95	1.59	19	20
1:A:41:C:O2'	1:A:42:C:H5'	0.93	1.64	1	19
1:B:84:C:O2'	1:B:85:C:H5'	0.93	1.63	3	20
1:A:21:A:OP1	1:A:21:A:H3'	0.93	1.64	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:69:U:O2'	1:B:70:G:H5'	0.91	1.64	7	20
1:A:17:G:O2'	1:A:18:G:H5'	0.91	1.66	2	20
1:A:26:U:O2'	1:A:27:G:H5'	0.90	1.66	9	20
1:B:67:C:O2'	1:B:68:U:H5'	0.90	1.66	13	19
1:B:49:A:O2'	1:B:50:U:H5''	0.89	1.67	8	2
1:A:4:A:O2'	1:A:5:U:H5'	0.88	1.68	16	19
1:B:50:U:O2'	1:B:51:G:H8	0.88	1.52	11	3
1:B:50:U:HO2'	1:B:51:G:H8	0.87	0.95	16	2
1:B:53:A:O2'	1:B:54:A:H5'	0.87	1.68	13	7
1:A:25:U:O2'	1:A:26:U:H5'	0.87	1.69	14	20
1:A:6:A:O2'	1:A:7:U:H5''	0.86	1.68	9	3
1:B:49:A:O2'	1:B:50:U:H2'	0.86	1.69	11	5
1:A:8:G:H2'	1:A:9:G:O4'	0.85	1.72	1	18
1:B:61:G:O2'	1:B:62:G:H5'	0.84	1.72	17	20
1:B:51:G:H2'	1:B:52:G:O4'	0.84	1.72	19	10
1:B:62:G:H2'	1:B:63:G:O4'	0.83	1.72	20	14
1:B:73:U:O2'	1:B:74:C:H5'	0.83	1.72	18	12
1:B:66:A:H2'	1:B:67:C:O4'	0.83	1.73	2	20
1:B:49:A:N3	1:B:50:U:H6	0.82	1.72	8	9
1:B:68:U:O2'	1:B:69:U:H5'	0.81	1.76	5	19
1:B:50:U:H1'	1:B:51:G:OP1	0.81	1.75	5	5
1:A:7:U:HO2'	1:A:8:G:C5'	0.80	1.89	18	7
1:B:49:A:H1'	1:B:50:U:O5'	0.80	1.76	14	3
1:A:5:U:H5''	1:A:6:A:OP2	0.80	1.77	13	1
1:B:49:A:H1'	1:B:50:U:OP1	0.79	1.78	3	3
1:B:55:G:O2'	1:B:56:A:H5'	0.79	1.78	10	9
1:A:36:U:O2'	1:A:37:A:H5'	0.78	1.76	12	1
1:A:1:G:O2'	1:A:2:G:H5'	0.78	1.76	16	18
1:B:58:C:O2'	1:B:59:C:H5'	0.78	1.78	2	5
1:B:64:A:O5'	1:B:64:A:H8	0.78	1.62	8	9
1:B:80:A:H4'	1:B:81:A:OP1	0.78	1.77	6	4
1:B:48:U:HO2'	1:B:49:A:H5'	0.77	1.37	14	2
1:A:21:A:H8	1:A:21:A:O5'	0.77	1.63	12	12
1:B:64:A:H8	1:B:64:A:O5'	0.77	1.62	14	9
1:B:72:U:O2'	1:B:73:U:H5'	0.77	1.78	19	9
1:A:21:A:O5'	1:A:21:A:H8	0.76	1.61	3	8
1:B:44:G:O2'	1:B:45:G:H5'	0.76	1.80	10	19
1:B:50:U:C6	1:B:51:G:N7	0.76	2.54	20	3
1:B:77:C:O2'	1:B:78:C:P	0.76	2.44	19	2
1:B:46:G:HO2'	1:B:47:A:H5'	0.76	1.36	19	1
1:A:23:A:H2'	1:A:24:C:O4'	0.75	1.81	5	17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:65:A:N1	1:B:66:A:C2	0.75	2.55	6	20
1:B:50:U:O2'	1:B:51:G:P	0.75	2.45	5	5
1:B:64:A:H2'	1:B:65:A:O4'	0.74	1.82	6	6
1:A:7:U:C6	1:A:8:G:N7	0.74	2.55	14	1
1:A:2:G:O2'	1:A:3:G:H5'	0.74	1.80	8	10
1:A:22:A:N1	1:A:23:A:C2	0.74	2.56	11	20
1:A:22:A:C6	1:A:23:A:C6	0.74	2.76	16	19
1:A:15:C:C4	1:A:16:C:C4	0.74	2.76	18	20
1:A:22:A:C2	1:A:23:A:C2	0.73	2.76	12	19
1:B:49:A:C4	1:B:51:G:C8	0.73	2.76	8	13
1:A:22:A:OP2	1:A:22:A:H8	0.73	1.67	16	1
1:A:6:A:C2	1:A:8:G:C8	0.73	2.77	11	13
1:B:65:A:C2	1:B:66:A:C2	0.73	2.77	7	17
1:B:65:A:C6	1:B:66:A:C6	0.72	2.76	5	20
1:B:45:G:O2'	1:B:46:G:H5'	0.72	1.84	18	5
1:A:5:U:O2'	1:A:6:A:H5'	0.72	1.84	17	3
1:A:6:A:N3	1:A:7:U:C6	0.72	2.58	11	15
1:A:21:A:H1'	1:B:81:A:O4'	0.72	1.85	17	5
1:B:65:A:N6	1:B:66:A:C6	0.72	2.58	11	3
1:B:58:C:C4	1:B:59:C:C4	0.72	2.77	1	15
1:B:50:U:O2'	1:B:51:G:C8	0.72	2.42	11	3
1:B:51:G:C6	1:B:52:G:N7	0.72	2.57	20	6
1:B:48:U:O2'	1:B:49:A:P	0.72	2.48	16	7
1:A:6:A:H1'	1:A:7:U:OP1	0.72	1.84	15	3
1:A:8:G:C6	1:A:9:G:C5	0.72	2.77	11	13
1:B:60:G:HO2'	1:B:61:G:H5'	0.72	1.45	13	5
1:B:58:C:H2'	1:B:59:C:O4'	0.72	1.84	1	5
1:B:64:A:N6	1:B:65:A:C6	0.72	2.58	7	17
1:A:6:A:C4	1:A:8:G:N7	0.72	2.57	12	18
1:A:21:A:N6	1:A:22:A:C6	0.71	2.58	4	17
1:B:49:A:C4	1:B:51:G:N7	0.71	2.58	3	13
1:A:8:G:C5	1:A:9:G:C8	0.71	2.78	18	11
1:A:19:G:N7	1:A:20:G:C5	0.71	2.58	13	16
1:B:49:A:N3	1:B:50:U:C6	0.71	2.59	8	11
1:A:6:A:N3	1:A:7:U:H6	0.71	1.84	2	13
1:A:22:A:N1	1:A:23:A:N1	0.71	2.39	16	18
1:A:22:A:C6	1:A:23:A:N1	0.71	2.59	16	20
1:A:32:U:O2'	1:A:33:U:H5'	0.71	1.86	11	10
1:A:6:A:H4'	1:A:7:U:OP1	0.71	1.85	8	3
1:B:49:A:O2'	1:B:50:U:P	0.70	2.49	15	7
1:A:5:U:O2'	1:A:6:A:P	0.70	2.49	18	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:A:P	1:A:21:A:C8	0.70	2.85	16	1
1:A:23:A:O5'	1:A:23:A:H8	0.70	1.69	16	7
1:B:65:A:N1	1:B:66:A:N1	0.70	2.40	16	17
1:B:60:G:C6	1:B:70:G:N2	0.70	2.59	19	13
1:B:44:G:H8	1:B:44:G:HO5'	0.70	1.28	14	2
1:B:50:U:O2'	1:B:51:G:H5'	0.70	1.86	1	11
1:B:49:A:O2'	1:B:50:U:C6	0.70	2.45	14	3
1:A:8:G:C5	1:A:9:G:N7	0.70	2.60	7	9
1:B:65:A:N6	1:B:66:A:N1	0.70	2.39	11	3
1:B:64:A:C6	1:B:65:A:C6	0.70	2.79	20	14
1:B:64:A:O2'	1:B:65:A:P	0.70	2.49	6	1
1:B:79:U:O2'	1:B:80:A:P	0.69	2.49	17	1
1:B:65:A:C6	1:B:66:A:N1	0.69	2.60	9	20
1:A:6:A:N3	1:A:8:G:C8	0.69	2.60	20	12
1:A:37:A:H4'	1:A:38:A:OP1	0.69	1.85	15	3
1:B:64:A:N6	1:B:65:A:N1	0.69	2.40	14	15
1:B:83:U:O5'	1:B:83:U:H6	0.69	1.70	16	6
1:A:38:A:O5'	1:B:64:A:H1'	0.69	1.87	1	1
1:A:21:A:N7	1:A:22:A:N7	0.69	2.41	12	9
1:A:5:U:H4'	1:A:6:A:OP1	0.69	1.87	14	1
1:A:15:C:C4	1:A:16:C:N4	0.68	2.61	20	17
1:A:6:A:C5	1:A:8:G:C5	0.68	2.82	19	14
1:B:50:U:OP1	1:B:50:U:H2'	0.68	1.88	3	2
1:B:62:G:N7	1:B:63:G:C5	0.68	2.61	20	11
1:A:15:C:N4	1:A:16:C:N4	0.68	2.41	17	18
1:A:6:A:O2'	1:A:7:U:P	0.68	2.52	19	10
1:A:40:U:O2'	1:A:41:C:H5'	0.68	1.88	8	5
1:A:6:A:O2'	1:A:7:U:C6	0.68	2.44	14	1
1:A:6:A:C4	1:A:8:G:C8	0.68	2.82	6	16
1:B:85:C:HO2'	1:B:86:U:H5'	0.67	1.48	2	6
1:B:51:G:C6	1:B:52:G:C5	0.67	2.82	5	8
1:A:12:G:O2'	1:A:13:A:H5'	0.67	1.89	10	9
1:A:7:U:H1'	1:A:8:G:OP1	0.67	1.89	7	1
1:B:62:G:C5	1:B:63:G:C5	0.67	2.83	11	12
1:B:60:G:C6	1:B:70:G:C2	0.67	2.82	19	18
1:A:14:A:C6	1:A:15:C:N4	0.67	2.63	10	8
1:A:17:G:C6	1:A:27:G:N2	0.67	2.63	13	16
1:A:7:U:HO2'	1:A:8:G:H8	0.67	1.29	7	1
1:A:42:C:HO2'	1:A:43:U:H5'	0.67	1.50	5	8
1:A:6:A:N3	1:A:7:U:C5	0.67	2.62	20	4
1:B:51:G:C5	1:B:52:G:N7	0.67	2.63	18	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:G:O2'	1:B:65:A:N6	0.67	2.27	6	3
1:A:7:U:O2'	1:A:8:G:P	0.67	2.52	9	8
1:B:62:G:C8	1:B:63:G:C8	0.66	2.83	12	8
1:B:49:A:O2'	1:B:50:U:H3'	0.66	1.90	1	2
1:A:17:G:C6	1:A:27:G:C2	0.66	2.83	11	18
1:B:58:C:N4	1:B:59:C:N4	0.66	2.43	9	7
1:B:64:A:C5	1:B:65:A:C5	0.66	2.83	19	17
1:B:50:U:O2'	1:B:51:G:C5'	0.66	2.43	4	13
1:B:49:A:C2	1:B:51:G:C8	0.66	2.84	18	10
1:B:77:C:O2'	1:B:78:C:H5'	0.66	1.90	18	1
1:B:49:A:C6	1:B:51:G:C8	0.66	2.83	14	2
1:A:6:A:N9	1:A:8:G:N7	0.66	2.44	17	4
1:B:49:A:C5	1:B:51:G:N7	0.66	2.64	14	3
1:B:69:U:O2'	1:B:70:G:C5'	0.66	2.44	9	18
1:A:21:A:H2'	1:A:22:A:O4'	0.66	1.90	15	13
1:A:15:C:C5	1:A:16:C:C4	0.66	2.84	8	14
1:B:50:U:HO2'	1:B:51:G:C5'	0.66	2.04	3	6
1:A:21:A:N1	1:B:49:A:N1	0.66	2.44	2	2
1:B:74:C:H2'	1:B:75:U:O4'	0.65	1.92	4	12
1:A:19:G:C8	1:A:20:G:N7	0.65	2.65	16	15
1:A:9:G:H4'	1:A:9:G:OP1	0.65	1.92	6	2
1:B:85:C:O2'	1:B:86:U:C5'	0.65	2.45	3	17
1:B:52:G:H4'	1:B:52:G:OP1	0.65	1.91	1	2
1:B:57:A:C6	1:B:58:C:N4	0.65	2.64	13	2
1:B:50:U:H4'	1:B:51:G:OP1	0.65	1.89	10	1
1:A:42:C:O2'	1:A:43:U:C5'	0.65	2.45	4	20
1:A:41:C:O2'	1:A:42:C:C5'	0.65	2.45	17	15
1:A:18:G:O2'	1:A:19:G:C5'	0.65	2.45	12	19
1:A:26:U:O2'	1:A:27:G:C5'	0.65	2.44	10	20
1:A:15:C:C5	1:A:16:C:N4	0.65	2.65	20	11
1:A:7:U:O2'	1:A:8:G:C5'	0.64	2.45	1	14
1:A:19:G:C5	1:A:20:G:C5	0.64	2.86	9	18
1:B:49:A:O2'	1:B:50:U:C2'	0.64	2.45	11	4
1:A:21:A:H2	1:B:80:A:O4'	0.64	1.75	10	1
1:B:57:A:N6	1:B:58:C:N4	0.64	2.45	13	1
1:A:3:G:O2'	1:A:4:A:C5'	0.64	2.46	16	8
1:B:62:G:N7	1:B:63:G:N7	0.64	2.45	12	5
1:B:64:A:N7	1:B:65:A:N7	0.64	2.46	7	9
1:B:44:G:H8	1:B:44:G:O5'	0.64	1.74	14	2
1:A:21:A:N3	1:B:81:A:C8	0.64	2.65	17	1
1:A:6:A:O2'	1:A:7:U:C5'	0.64	2.45	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:61:G:O2'	1:B:62:G:C5'	0.64	2.46	4	18
1:A:21:A:C6	1:A:22:A:C5	0.64	2.86	9	13
1:B:69:U:HO2'	1:B:70:G:H5'	0.64	1.50	5	2
1:B:49:A:N3	1:B:51:G:C8	0.63	2.66	18	10
1:A:21:A:N6	1:A:22:A:N1	0.63	2.46	10	3
1:A:20:G:O2'	1:A:22:A:N7	0.63	2.30	16	1
1:B:49:A:HO2'	1:B:50:U:H2'	0.63	1.51	11	1
1:A:30:U:O2'	1:A:31:C:H5'	0.63	1.93	15	6
1:B:83:U:H6	1:B:83:U:O5'	0.63	1.76	8	7
1:A:6:A:C2	1:A:38:A:C6	0.63	2.87	17	1
1:B:47:A:O2'	1:B:48:U:H5'	0.63	1.93	17	6
1:B:84:C:O2'	1:B:85:C:C5'	0.63	2.46	11	18
1:B:49:A:C5	1:B:51:G:C5	0.63	2.86	7	10
1:B:60:G:C5	1:B:70:G:N2	0.63	2.67	11	10
1:B:64:A:C2'	1:B:65:A:O4'	0.62	2.47	6	1
1:A:8:G:C6	1:A:9:G:N7	0.62	2.66	9	4
1:A:23:A:H8	1:A:23:A:O5'	0.62	1.75	1	4
1:A:4:A:O2'	1:A:5:U:C5'	0.62	2.47	10	14
1:B:50:U:O2'	1:B:51:G:O5'	0.62	2.18	11	15
1:A:37:A:H1'	1:A:38:A:N7	0.62	2.09	10	1
1:A:21:A:C8	1:A:21:A:O5'	0.62	2.53	16	7
1:B:60:G:O2'	1:B:61:G:C5'	0.62	2.45	3	3
1:A:36:U:C4	1:A:37:A:C6	0.61	2.88	14	2
1:A:21:A:C8	1:A:21:A:OP2	0.61	2.53	16	1
1:B:77:C:O2'	1:B:78:C:OP1	0.61	2.18	19	2
1:B:50:U:H1'	1:B:51:G:OP2	0.61	1.94	14	1
1:B:49:A:C8	1:B:51:G:C6	0.61	2.88	12	4
1:A:24:C:O2'	1:B:52:G:O2'	0.61	2.17	20	1
1:B:48:U:O2'	1:B:49:A:H5''	0.61	1.94	4	2
1:A:21:A:O5'	1:A:21:A:C8	0.61	2.52	17	12
1:A:6:A:C4	1:A:8:G:C5	0.61	2.89	20	4
1:B:49:A:O2'	1:B:50:U:O5'	0.61	2.19	10	7
1:B:50:U:C1'	1:B:51:G:OP1	0.61	2.48	5	5
1:B:74:C:C4	1:B:75:U:C4	0.61	2.89	19	1
1:A:8:G:N3	1:B:66:A:C2	0.61	2.69	12	1
1:A:9:G:O2'	1:B:67:C:O2'	0.61	2.18	11	1
1:B:48:U:H4'	1:B:49:A:OP1	0.61	1.95	17	6
1:A:22:A:N6	1:B:51:G:O2'	0.61	2.28	20	3
1:B:50:U:C6	1:B:50:U:OP1	0.61	2.53	3	2
1:A:7:U:O4	1:A:39:G:C2	0.60	2.53	5	3
1:B:64:A:O5'	1:B:64:A:C8	0.60	2.53	8	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:U:O4	1:B:80:A:N6	0.60	2.35	6	4
1:B:69:U:C4	1:B:70:G:C5	0.60	2.90	7	6
1:A:30:U:C4	1:A:31:C:C4	0.60	2.90	11	3
1:A:29:U:O2'	1:A:30:U:C5'	0.60	2.50	15	9
1:A:32:U:O2'	1:A:33:U:C5'	0.60	2.50	12	9
1:A:18:G:HO2'	1:A:19:G:H5'	0.60	1.55	9	1
1:B:62:G:O6	1:B:63:G:N1	0.60	2.34	11	3
1:A:38:A:O5'	1:A:38:A:H8	0.60	1.80	12	1
1:B:51:G:C5	1:B:52:G:C8	0.60	2.90	5	6
1:A:8:G:H1'	1:B:65:A:N1	0.59	2.11	12	4
1:A:40:U:O5'	1:A:40:U:H6	0.59	1.80	11	8
1:A:7:U:OP2	1:A:7:U:N1	0.59	2.35	17	1
1:B:62:G:C8	1:B:63:G:N7	0.59	2.70	5	6
1:A:5:U:C5	1:A:37:A:C6	0.59	2.91	17	1
1:B:44:G:O5'	1:B:44:G:C8	0.59	2.54	20	2
1:A:7:U:C1'	1:A:8:G:OP1	0.59	2.51	7	1
1:B:79:U:C4	1:B:80:A:C6	0.59	2.91	18	4
1:B:50:U:OP1	1:B:50:U:N1	0.59	2.36	19	2
1:A:6:A:O2'	1:A:7:U:O5'	0.59	2.20	14	4
1:A:7:U:O2'	1:A:8:G:O5'	0.58	2.21	7	11
1:A:7:U:OP1	1:A:7:U:C5	0.58	2.56	12	1
1:A:6:A:N1	1:B:64:A:N1	0.58	2.52	12	1
1:A:8:G:O2'	1:A:9:G:OP1	0.58	2.21	3	3
1:B:48:U:C4	1:B:80:A:C5	0.58	2.91	4	1
1:B:65:A:C2'	1:B:66:A:OP1	0.58	2.50	11	1
1:A:15:C:O2'	1:A:16:C:H5'	0.58	1.98	8	4
1:A:25:U:O2'	1:A:26:U:C5'	0.58	2.48	14	9
1:B:65:A:O2'	1:B:66:A:OP1	0.58	2.20	11	3
1:B:49:A:HO2'	1:B:50:U:H3'	0.58	1.59	17	2
1:B:49:A:HO2'	1:B:50:U:P	0.58	2.20	15	3
1:A:9:G:OP1	1:A:9:G:C4'	0.58	2.51	3	1
1:A:7:U:O2	1:A:7:U:C2'	0.58	2.52	14	1
1:B:49:A:O2'	1:B:50:U:C3'	0.58	2.51	1	2
1:B:50:U:O2'	1:B:51:G:OP1	0.58	2.20	5	2
1:B:55:G:O6	1:B:56:A:N6	0.58	2.36	16	1
1:B:50:U:O4	1:B:82:G:N2	0.58	2.37	3	3
1:A:20:G:C2'	1:A:21:A:OP1	0.58	2.52	16	1
1:B:58:C:C5	1:B:59:C:C4	0.57	2.92	1	6
1:B:79:U:O2'	1:B:80:A:OP1	0.57	2.20	17	3
1:B:62:G:C6	1:B:63:G:C2	0.57	2.92	11	3
1:A:9:G:C4'	1:A:9:G:OP1	0.57	2.51	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:G:O6	1:A:9:G:C6	0.57	2.57	20	7
1:A:6:A:O2'	1:A:7:U:H3'	0.57	1.98	7	1
1:A:6:A:O2'	1:A:7:U:OP2	0.57	2.22	6	8
1:A:6:A:C4'	1:A:7:U:OP1	0.57	2.53	11	6
1:B:64:A:H4'	1:B:65:A:OP1	0.57	1.98	6	1
1:A:7:U:N1	1:A:7:U:OP1	0.57	2.36	15	1
1:B:52:G:OP1	1:B:52:G:H4'	0.57	1.99	16	1
1:B:64:A:C8	1:B:64:A:O5'	0.57	2.53	5	10
1:B:49:A:C1'	1:B:50:U:OP1	0.57	2.52	18	3
1:B:49:A:C1'	1:B:50:U:O5'	0.57	2.52	14	3
1:B:50:U:O2'	1:B:50:U:O2	0.57	2.22	10	2
1:A:22:A:OP2	1:A:22:A:C8	0.57	2.54	16	1
1:A:6:A:O4'	1:A:6:A:P	0.57	2.61	18	1
1:B:70:G:O2'	1:B:71:G:C8	0.57	2.56	1	2
1:B:69:U:H2'	1:B:70:G:O4'	0.57	2.00	15	18
1:A:21:A:C6	1:A:22:A:C6	0.57	2.92	10	8
1:A:37:A:O2'	1:A:38:A:OP2	0.57	2.22	10	1
1:A:19:G:O6	1:A:20:G:N1	0.57	2.38	9	13
1:A:21:A:C5	1:A:22:A:C5	0.57	2.92	14	15
1:A:7:U:O2'	1:A:8:G:OP1	0.57	2.23	9	4
1:A:15:C:H2'	1:A:16:C:O4'	0.57	2.00	8	1
1:A:8:G:C2'	1:A:9:G:O4'	0.57	2.52	12	1
1:B:79:U:OP1	1:B:79:U:C4'	0.57	2.52	14	2
1:A:36:U:C2'	1:A:37:A:OP1	0.57	2.52	5	1
1:B:51:G:O2'	1:B:52:G:OP1	0.57	2.21	18	1
1:A:36:U:O2'	1:A:37:A:P	0.57	2.63	19	2
1:A:7:U:OP2	1:A:7:U:C6	0.57	2.57	17	1
1:A:37:A:C2	1:A:38:A:N6	0.57	2.72	10	2
1:B:79:U:H4'	1:B:79:U:OP1	0.57	1.99	14	2
1:A:30:U:O4	1:A:31:C:N4	0.57	2.38	11	1
1:A:6:A:C1'	1:A:7:U:OP1	0.57	2.53	13	3
1:A:36:U:O2'	1:A:37:A:C5'	0.57	2.51	12	1
1:A:36:U:OP1	1:A:36:U:H4'	0.57	2.00	5	1
1:A:8:G:N7	1:A:9:G:N7	0.56	2.52	20	2
1:B:50:U:H6	1:B:51:G:N7	0.56	1.97	10	2
1:A:5:U:O2'	1:A:6:A:O5'	0.56	2.21	14	1
1:A:21:A:C5	1:A:22:A:N7	0.56	2.73	9	8
1:A:24:C:O2'	1:A:25:U:C5'	0.56	2.47	17	6
1:A:19:G:C6	1:A:20:G:C6	0.56	2.93	9	5
1:A:36:U:O2'	1:A:37:A:OP1	0.56	2.23	19	2
1:B:49:A:C4'	1:B:50:U:OP1	0.56	2.52	18	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:52:G:OP1	1:B:52:G:C4'	0.56	2.53	18	1
1:A:38:A:O4'	1:B:64:A:C1'	0.56	2.54	10	3
1:A:22:A:C5	1:A:23:A:C6	0.56	2.93	16	3
1:B:44:G:H2'	1:B:45:G:O4'	0.56	2.00	20	2
1:B:44:G:C8	1:B:44:G:O5'	0.56	2.53	14	3
1:A:7:U:C2'	1:A:8:G:O5'	0.56	2.54	6	6
1:A:23:A:O5'	1:A:23:A:C8	0.56	2.59	9	5
1:B:49:A:N7	1:B:51:G:C6	0.56	2.74	12	3
1:A:34:C:O2'	1:A:35:C:OP1	0.56	2.23	11	2
1:B:52:G:C4'	1:B:52:G:OP1	0.56	2.54	2	2
1:A:8:G:C2'	1:A:9:G:OP1	0.56	2.53	3	3
1:B:81:A:C2'	1:B:82:G:OP1	0.56	2.53	19	1
1:B:77:C:C2'	1:B:78:C:O5'	0.56	2.53	14	1
1:A:6:A:C4'	1:A:6:A:OP2	0.56	2.53	18	1
1:B:50:U:OP1	1:B:50:U:C2'	0.55	2.53	3	2
1:A:21:A:C1'	1:B:81:A:O4'	0.55	2.53	17	5
1:B:83:U:O2'	1:B:84:C:H5'	0.55	2.00	19	8
1:A:6:A:C8	1:A:8:G:O6	0.55	2.59	12	4
1:B:78:C:C4'	1:B:78:C:OP1	0.55	2.54	5	1
1:A:6:A:C8	1:A:8:G:C6	0.55	2.94	6	3
1:B:48:U:O2'	1:B:49:A:C5'	0.55	2.54	4	1
1:B:51:G:C2'	1:B:52:G:O5'	0.55	2.54	14	4
1:A:35:C:C4'	1:A:35:C:OP1	0.55	2.54	11	1
1:B:58:C:C5	1:B:59:C:C5	0.55	2.94	1	5
1:A:7:U:HO2'	1:A:8:G:P	0.55	2.24	3	6
1:B:49:A:O2'	1:B:50:U:OP2	0.55	2.21	16	6
1:B:50:U:C2'	1:B:50:U:O2	0.55	2.54	20	1
1:A:40:U:H6	1:A:40:U:O5'	0.55	1.84	14	8
1:A:26:U:O2'	1:A:27:G:O4'	0.55	2.25	6	16
1:A:36:U:H4'	1:A:36:U:OP1	0.55	2.02	2	2
1:B:49:A:C8	1:B:51:G:O6	0.55	2.60	12	5
1:B:68:U:O2'	1:B:69:U:C5'	0.55	2.55	12	2
1:A:10:A:OP1	1:B:68:U:C5'	0.55	2.55	13	2
1:B:48:U:C2'	1:B:49:A:OP1	0.55	2.55	19	1
1:A:6:A:H61	1:B:64:A:H61	0.54	1.44	18	13
1:B:46:G:O2'	1:B:47:A:C5'	0.54	2.49	19	5
1:A:6:A:C5	1:A:8:G:N7	0.54	2.76	5	6
1:B:77:C:O2'	1:B:78:C:O5'	0.54	2.25	19	2
1:A:23:A:C2	1:B:52:G:O4'	0.54	2.60	20	1
1:A:26:U:H2'	1:A:27:G:O4'	0.54	2.02	19	20
1:B:50:U:O2	1:B:50:U:O2'	0.54	2.26	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:C:C2'	1:A:35:C:OP1	0.54	2.55	11	1
1:A:17:G:C5	1:A:27:G:N2	0.54	2.76	6	13
1:A:22:A:N1	1:B:51:G:H1'	0.54	2.18	2	7
1:A:22:A:C5	1:A:23:A:N6	0.53	2.77	16	1
1:A:21:A:C8	1:A:22:A:C8	0.53	2.96	15	3
1:A:6:A:C8	1:A:8:G:C5	0.53	2.95	6	1
1:A:36:U:C4'	1:A:36:U:OP1	0.53	2.57	16	1
1:A:6:A:C6	1:A:8:G:C4	0.53	2.95	5	7
1:A:6:A:H61	1:B:64:A:N6	0.53	2.02	18	9
1:A:36:U:HO2'	1:A:37:A:P	0.53	2.27	19	1
1:A:7:U:O4'	1:A:7:U:O2	0.53	2.22	20	4
1:A:36:U:C4	1:A:37:A:N6	0.53	2.77	14	2
1:A:19:G:H2'	1:A:20:G:O4'	0.53	2.03	1	6
1:B:66:A:O4'	1:B:66:A:OP1	0.53	2.26	11	1
1:A:39:G:OP1	1:A:39:G:C4'	0.53	2.57	8	1
1:A:21:A:C2	1:B:80:A:O4'	0.53	2.61	10	1
1:B:84:C:HO2'	1:B:85:C:H5'	0.53	1.59	3	2
1:B:48:U:O2'	1:B:49:A:OP1	0.53	2.23	4	6
1:B:64:A:O2'	1:B:65:A:OP1	0.53	2.26	6	2
1:A:5:U:O2'	1:A:6:A:C5'	0.53	2.56	14	1
1:B:65:A:C6	1:B:66:A:C2	0.53	2.96	11	2
1:A:6:A:N6	1:B:64:A:H61	0.53	2.02	18	10
1:A:5:U:C2'	1:A:6:A:OP1	0.53	2.57	20	2
1:A:38:A:C8	1:B:64:A:N3	0.53	2.77	10	1
1:B:69:U:O2'	1:B:70:G:O4'	0.53	2.27	20	5
1:B:82:G:C4'	1:B:82:G:OP1	0.53	2.57	19	1
1:A:7:U:H6	1:A:8:G:N7	0.53	1.99	14	1
1:A:21:A:H61	1:B:49:A:H61	0.52	1.46	6	6
1:B:49:A:O2'	1:B:50:U:N1	0.52	2.33	20	3
1:A:5:U:HO2'	1:A:6:A:P	0.52	2.27	9	3
1:B:70:G:H2'	1:B:71:G:N7	0.52	2.18	1	6
1:B:81:A:N6	1:B:82:G:C6	0.52	2.77	19	1
1:A:22:A:N6	1:A:23:A:N1	0.52	2.57	20	1
1:B:49:A:C2	1:B:81:A:N1	0.52	2.77	13	1
1:A:21:A:N7	1:A:21:A:OP2	0.52	2.42	16	1
1:B:62:G:C6	1:B:63:G:N1	0.52	2.77	11	1
1:B:62:G:C5	1:B:63:G:C4	0.52	2.97	20	4
1:A:38:A:C2'	1:A:39:G:OP1	0.52	2.57	8	1
1:A:8:G:N3	1:B:66:A:H2	0.52	2.02	12	1
1:A:19:G:N7	1:A:20:G:C6	0.52	2.77	13	8
1:A:38:A:O4'	1:B:64:A:H1'	0.52	2.04	10	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:A:N1	1:A:8:G:C8	0.52	2.77	14	1
1:A:21:A:N6	1:B:49:A:H61	0.52	2.03	6	5
1:B:49:A:C2'	1:B:50:U:C6	0.52	2.93	20	3
1:B:49:A:N1	1:B:51:G:C8	0.52	2.78	14	2
1:B:50:U:O2	1:B:50:U:O4'	0.52	2.28	11	5
1:B:66:A:O5'	1:B:66:A:H8	0.52	1.87	13	4
1:A:6:A:N1	1:B:64:A:C6	0.52	2.78	12	1
1:A:17:G:O2'	1:A:18:G:C5'	0.52	2.52	2	4
1:B:50:U:O2	1:B:50:U:C2'	0.52	2.57	14	2
1:A:6:A:C5	1:A:8:G:C8	0.52	2.98	3	2
1:A:21:A:N6	1:A:22:A:N6	0.52	2.58	9	1
1:A:17:G:HO2'	1:A:18:G:H5'	0.52	1.65	6	4
1:B:50:U:HO2'	1:B:51:G:P	0.52	2.21	5	1
1:A:15:C:C5	1:A:16:C:C5	0.51	2.98	19	7
1:B:79:U:O2'	1:B:80:A:H5'	0.51	2.04	10	1
1:B:48:U:O2'	1:B:49:A:O5'	0.51	2.27	16	4
1:A:37:A:OP1	1:A:37:A:C4'	0.51	2.59	5	1
1:B:79:U:C4	1:B:80:A:N6	0.51	2.78	12	4
1:B:62:G:C6	1:B:63:G:C6	0.51	2.98	19	2
1:B:50:U:C2'	1:B:51:G:O5'	0.51	2.58	4	1
1:A:13:A:O2'	1:A:14:A:H5'	0.51	2.05	11	1
1:A:5:U:C2'	1:A:6:A:OP2	0.51	2.58	15	2
1:B:50:U:C4'	1:B:51:G:O5'	0.51	2.59	14	1
1:A:1:G:H2'	1:A:2:G:O4'	0.51	2.04	6	2
1:A:7:U:O2	1:A:7:U:O4'	0.51	2.28	13	7
1:A:6:A:C2'	1:A:8:G:N7	0.51	2.74	12	2
1:B:51:G:H2'	1:B:52:G:O5'	0.51	2.05	14	4
1:A:8:G:C4	1:A:9:G:C8	0.51	2.98	9	6
1:A:6:A:O2'	1:A:7:U:OP1	0.51	2.28	17	1
1:B:49:A:N3	1:B:50:U:C5	0.51	2.79	13	2
1:A:6:A:HO2'	1:A:7:U:P	0.51	2.29	4	2
1:A:7:U:O4	1:A:38:A:N1	0.51	2.44	6	1
1:A:19:G:N7	1:A:20:G:N7	0.50	2.59	9	8
1:B:64:A:O2'	1:B:65:A:O5'	0.50	2.29	6	1
1:A:17:G:O6	1:A:27:G:C2	0.50	2.65	11	1
1:A:8:G:C6	1:A:9:G:C6	0.50	2.99	6	4
1:A:36:U:O4	1:A:37:A:N6	0.50	2.44	7	1
1:B:69:U:O4	1:B:70:G:C6	0.50	2.64	7	1
1:B:50:U:O4'	1:B:50:U:O2	0.50	2.28	16	9
1:B:73:U:O2'	1:B:74:C:C5'	0.50	2.56	18	4
1:B:64:A:C6	1:B:65:A:C5	0.50	3.00	7	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:19:G:C5	1:A:20:G:C6	0.50	3.00	9	5
1:A:19:G:O6	1:A:20:G:C6	0.50	2.65	9	3
1:B:79:U:O4	1:B:80:A:C6	0.50	2.64	8	1
1:A:6:A:O2'	1:A:8:G:N7	0.50	2.44	17	1
1:A:7:U:O4	1:A:38:A:N6	0.50	2.45	5	1
1:A:6:A:C2	1:A:38:A:N1	0.50	2.80	17	1
1:B:44:G:O5'	1:B:44:G:H8	0.50	1.89	13	2
1:A:19:G:C6	1:A:20:G:N1	0.50	2.80	9	5
1:B:74:C:C2'	1:B:75:U:O4'	0.50	2.60	4	1
1:B:78:C:O4'	1:B:78:C:OP1	0.50	2.29	5	1
1:A:7:U:OP1	1:A:7:U:H5	0.49	1.88	12	1
1:A:6:A:O4'	1:A:7:U:OP1	0.49	2.30	5	3
1:A:39:G:OP1	1:A:39:G:O4'	0.49	2.29	8	1
1:A:5:U:C4'	1:A:6:A:OP1	0.49	2.60	14	1
1:B:65:A:C5	1:B:66:A:C6	0.49	2.99	9	6
1:B:79:U:H4'	1:B:80:A:OP1	0.49	2.07	17	1
1:A:7:U:OP2	1:A:7:U:C2	0.49	2.66	17	1
1:B:81:A:C8	1:B:81:A:O5'	0.49	2.66	19	1
1:B:64:A:C8	1:B:65:A:N7	0.49	2.80	7	3
1:A:35:C:C2'	1:A:36:U:O5'	0.49	2.60	3	2
1:A:6:A:O2'	1:A:7:U:N1	0.49	2.42	14	1
1:A:37:A:O4'	1:A:37:A:OP1	0.49	2.31	5	1
1:B:48:U:C2'	1:B:49:A:OP2	0.49	2.60	14	2
1:A:10:A:OP1	1:B:68:U:H5''	0.49	2.07	13	1
1:B:50:U:O4'	1:B:51:G:OP1	0.49	2.30	11	1
1:B:49:A:N7	1:B:80:A:N1	0.49	2.60	6	1
1:B:49:A:O2'	1:B:50:U:C5'	0.49	2.50	8	1
1:A:21:A:C5	1:A:22:A:C8	0.49	3.00	15	3
1:B:81:A:C2'	1:B:82:G:O5'	0.49	2.60	4	2
1:A:26:U:C2'	1:A:27:G:O4'	0.49	2.61	19	17
1:B:49:A:C4	1:B:51:G:C5	0.49	3.01	7	2
1:A:37:A:O4'	1:B:64:A:C2	0.49	2.66	6	1
1:B:65:A:O2'	1:B:66:A:P	0.49	2.70	11	1
1:A:34:C:C4	1:A:35:C:C5	0.49	3.00	11	1
1:B:65:A:C2	1:B:66:A:C4	0.48	3.01	19	8
1:A:19:G:C8	1:A:20:G:C8	0.48	3.01	7	7
1:A:35:C:O4'	1:A:35:C:OP1	0.48	2.31	11	1
1:B:50:U:H4'	1:B:51:G:O5'	0.48	2.08	14	1
1:A:22:A:C2	1:A:23:A:N3	0.48	2.81	9	11
1:A:7:U:H2'	1:A:7:U:OP1	0.48	2.08	17	2
1:B:49:A:OP2	1:B:49:A:H8	0.48	1.92	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:20:G:H2'	1:A:21:A:OP1	0.48	2.08	16	1
1:A:38:A:O4'	1:B:64:A:O4'	0.48	2.32	16	2
1:B:50:U:C2'	1:B:51:G:OP1	0.48	2.61	5	2
1:B:58:C:C4	1:B:59:C:N4	0.48	2.81	9	3
1:B:49:A:H2'	1:B:50:U:C5	0.48	2.44	20	3
1:A:21:A:H61	1:B:49:A:N6	0.48	2.07	1	5
1:B:77:C:C2'	1:B:78:C:OP1	0.48	2.61	5	1
1:A:6:A:C2	1:A:8:G:O4'	0.48	2.66	20	2
1:A:30:U:C4	1:A:31:C:N4	0.48	2.82	11	1
1:B:70:G:H2'	1:B:71:G:C8	0.48	2.44	1	12
1:A:8:G:C5	1:A:9:G:C5	0.48	3.02	20	1
1:A:14:A:C5	1:A:15:C:N4	0.48	2.82	10	2
1:B:71:G:O2'	1:B:72:U:H5'	0.48	2.09	4	1
1:A:8:G:C6	1:A:9:G:C8	0.48	3.00	9	1
1:A:4:A:HO2'	1:A:5:U:H5'	0.48	1.69	10	4
1:A:6:A:N7	1:A:8:G:C6	0.48	2.82	19	5
1:B:77:C:HO2'	1:B:78:C:P	0.48	2.32	14	1
1:A:21:A:OP1	1:A:21:A:C3'	0.48	2.52	16	1
1:B:49:A:C2	1:B:51:G:O4'	0.47	2.67	4	2
1:A:14:A:N6	1:A:15:C:N4	0.47	2.61	10	1
1:A:5:U:O2'	1:A:6:A:OP2	0.47	2.31	16	3
1:A:35:C:N4	1:A:36:U:O4	0.47	2.48	12	1
1:A:6:A:C2'	1:A:7:U:C6	0.47	2.97	14	1
1:A:24:C:HO2'	1:A:25:U:H5'	0.47	1.65	12	2
1:B:65:A:C2	1:B:66:A:N3	0.47	2.82	7	11
1:A:8:G:H3'	1:A:8:G:OP2	0.47	2.10	2	1
1:B:77:C:N3	1:B:78:C:C5	0.47	2.83	14	1
1:A:21:A:C2	1:B:81:A:N7	0.47	2.82	17	1
1:B:50:U:HO2'	1:B:51:G:H5'	0.47	1.70	5	1
1:B:64:A:N7	1:B:65:A:C5	0.47	2.83	7	2
1:B:49:A:C6	1:B:51:G:N7	0.47	2.83	14	2
1:A:22:A:C2	1:A:23:A:C4	0.47	3.03	5	15
1:B:80:A:H1'	1:B:81:A:N7	0.47	2.25	12	2
1:B:49:A:C6	1:B:51:G:C4	0.47	3.03	18	1
1:B:69:U:C2'	1:B:70:G:O4'	0.46	2.63	15	4
1:A:41:C:O2'	1:A:42:C:O4'	0.46	2.28	8	1
1:A:38:A:O5'	1:A:38:A:C8	0.46	2.66	12	1
1:A:7:U:H4'	1:A:8:G:O5'	0.46	2.09	14	1
1:B:79:U:C2'	1:B:80:A:O5'	0.46	2.63	13	1
1:A:22:A:N6	1:A:23:A:C6	0.46	2.83	20	1
1:A:21:A:OP1	1:A:22:A:C8	0.46	2.68	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:51:G:C4	1:B:52:G:C8	0.46	3.04	18	4
1:B:53:A:O2'	1:B:54:A:C5'	0.46	2.64	8	2
1:B:78:C:HO2'	1:B:79:U:P	0.46	2.33	19	1
1:B:50:U:H3'	1:B:50:U:OP2	0.46	2.10	17	1
1:B:51:G:O6	1:B:52:G:C6	0.46	2.69	4	1
1:B:81:A:O5'	1:B:81:A:H8	0.46	1.93	19	1
1:B:56:A:H2'	1:B:57:A:C8	0.46	2.45	4	2
1:B:66:A:H8	1:B:66:A:O5'	0.46	1.93	3	3
1:B:51:G:N1	1:B:52:G:N7	0.46	2.63	20	1
1:A:36:U:C2'	1:A:37:A:O5'	0.46	2.62	19	1
1:A:6:A:C2	1:B:64:A:N6	0.46	2.84	12	1
1:B:78:C:O2'	1:B:79:U:OP1	0.46	2.27	7	3
1:B:64:A:C6	1:B:65:A:C4	0.46	3.03	7	1
1:B:79:U:O4'	1:B:79:U:OP1	0.46	2.33	7	1
1:A:7:U:OP1	1:A:7:U:C1'	0.46	2.64	15	1
1:B:77:C:H2'	1:B:78:C:O5'	0.46	2.11	14	1
1:A:12:G:O6	1:A:13:A:N6	0.46	2.48	11	1
1:A:35:C:HO2'	1:A:36:U:P	0.46	2.34	7	1
1:A:35:C:O2'	1:A:36:U:OP1	0.46	2.34	7	1
1:A:8:G:C8	1:A:9:G:C8	0.46	3.03	20	2
1:B:49:A:C2'	1:B:50:U:O5'	0.46	2.64	14	1
1:B:50:U:C1'	1:B:51:G:P	0.46	3.04	11	2
1:B:62:G:O6	1:B:63:G:C6	0.45	2.70	12	4
1:A:6:A:N1	1:A:38:A:C6	0.45	2.84	17	1
1:A:6:A:C2	1:A:7:U:C5	0.45	3.04	6	1
1:A:7:U:OP1	1:A:7:U:C6	0.45	2.69	15	1
1:B:51:G:C2	1:B:52:G:C8	0.45	3.04	20	1
1:B:49:A:OP2	1:B:49:A:C8	0.45	2.69	14	1
1:A:7:U:O2	1:A:7:U:O2'	0.45	2.32	14	1
1:A:35:C:H2'	1:A:36:U:O4'	0.45	2.12	14	1
1:A:7:U:HO2'	1:A:8:G:H5'	0.45	1.69	16	1
1:A:10:A:O2'	1:A:11:A:C5'	0.45	2.64	9	2
1:B:82:G:OP1	1:B:82:G:O4'	0.45	2.35	19	1
1:A:7:U:O2'	1:A:8:G:H8	0.45	1.92	7	1
1:A:2:G:O2'	1:A:3:G:C5'	0.45	2.65	17	2
1:A:15:C:C4	1:A:16:C:N3	0.45	2.84	8	1
1:B:69:U:C4	1:B:70:G:N7	0.45	2.85	7	1
1:A:36:U:O2'	1:A:37:A:O5'	0.45	2.25	17	1
1:B:53:A:N6	1:B:77:C:N4	0.45	2.64	18	1
1:A:38:A:C8	1:B:64:A:C5	0.45	3.05	6	1
1:B:64:A:O2'	1:B:65:A:O4'	0.45	2.35	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:38:A:N7	1:B:64:A:C2	0.45	2.85	10	1
1:B:70:G:C2'	1:B:71:G:C8	0.45	3.00	1	1
1:B:51:G:OP2	1:B:51:G:H3'	0.45	2.12	16	1
1:A:30:U:O2'	1:A:31:C:C5'	0.44	2.65	15	1
1:B:57:A:C6	1:B:58:C:C4	0.44	3.06	13	1
1:A:34:C:N4	1:A:35:C:N4	0.44	2.64	11	1
1:A:20:G:H21	1:A:23:A:H62	0.44	1.56	4	3
1:A:21:A:C6	1:A:22:A:C2	0.44	3.05	10	1
1:B:50:U:C4	1:B:52:G:O6	0.44	2.70	10	1
1:B:51:G:C2'	1:B:52:G:OP1	0.44	2.64	18	1
1:A:27:G:H2'	1:A:28:G:C8	0.44	2.47	8	4
1:B:48:U:HO2'	1:B:49:A:P	0.44	2.34	19	1
1:B:49:A:C1'	1:B:50:U:P	0.44	3.05	10	2
1:A:19:G:C6	1:A:20:G:C2	0.44	3.04	13	2
1:A:6:A:H2'	1:A:7:U:C5	0.44	2.46	14	1
1:A:1:G:O5'	1:A:1:G:C8	0.44	2.68	8	1
1:B:74:C:N4	1:B:75:U:O4	0.44	2.50	19	1
1:B:49:A:O2'	1:B:51:G:C8	0.44	2.65	13	1
1:A:27:G:H2'	1:A:28:G:N7	0.44	2.27	8	1
1:B:73:U:O4	1:B:74:C:N4	0.44	2.51	8	1
1:B:60:G:O6	1:B:70:G:C2	0.44	2.70	10	3
1:A:35:C:O2'	1:A:36:U:P	0.44	2.76	7	1
1:B:50:U:C1'	1:B:50:U:OP1	0.44	2.66	19	1
1:B:49:A:C8	1:B:80:A:N1	0.44	2.86	6	1
1:A:9:G:O4'	1:A:9:G:OP1	0.44	2.35	7	2
1:B:61:G:HO2'	1:B:62:G:H5'	0.44	1.69	17	1
1:B:45:G:O2'	1:B:46:G:C5'	0.44	2.62	14	1
1:A:4:A:H2'	1:A:5:U:O4'	0.44	2.13	14	1
1:B:58:C:N4	1:B:59:C:C4	0.43	2.86	1	2
1:A:7:U:C2'	1:A:7:U:OP1	0.43	2.66	15	1
1:A:6:A:C1'	1:A:8:G:N7	0.43	2.81	17	1
1:B:49:A:C2	1:B:51:G:N9	0.43	2.86	18	1
1:A:21:A:O4'	1:B:81:A:O4'	0.43	2.34	18	1
1:B:48:U:C4'	1:B:49:A:OP1	0.43	2.65	17	5
1:A:36:U:O4	1:A:37:A:C6	0.43	2.71	7	1
1:B:76:U:O2'	1:B:77:C:H5'	0.43	2.13	2	1
1:A:31:C:C4	1:A:32:U:O4	0.43	2.71	4	1
1:A:1:G:O5'	1:A:1:G:H8	0.43	1.96	8	1
1:A:23:A:C8	1:A:23:A:O5'	0.43	2.67	19	1
1:A:29:U:HO2'	1:A:30:U:C5'	0.43	2.26	15	1
1:A:21:A:C6	1:A:22:A:N1	0.43	2.87	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:72:U:HO2'	1:B:73:U:H5'	0.43	1.72	19	1
1:A:28:G:O2'	1:A:29:U:H5'	0.43	2.13	20	2
1:A:38:A:HO2'	1:A:39:G:P	0.43	2.36	15	1
1:A:10:A:O2'	1:A:11:A:H5'	0.43	2.13	16	2
1:B:58:C:HO2'	1:B:59:C:H5'	0.43	1.72	2	1
1:A:26:U:HO2'	1:A:27:G:C4'	0.43	2.27	18	1
1:B:49:A:C2'	1:B:51:G:N7	0.43	2.81	2	2
1:B:81:A:O2'	1:B:82:G:OP1	0.43	2.37	19	1
1:A:8:G:C1'	1:B:65:A:H61	0.43	2.27	12	1
1:B:66:A:C4'	1:B:66:A:OP1	0.43	2.67	11	1
1:B:50:U:OP2	1:B:50:U:H3'	0.43	2.14	1	1
1:B:84:C:O2'	1:B:85:C:O4'	0.43	2.35	2	1
1:B:65:A:C6	1:B:66:A:C5	0.43	3.06	11	1
1:A:9:G:OP1	1:A:9:G:O4'	0.43	2.37	3	1
1:A:5:U:C5'	1:A:6:A:OP2	0.43	2.61	13	1
1:A:6:A:C4	1:A:7:U:C5	0.43	3.06	20	1
1:B:66:A:C2'	1:B:67:C:O4'	0.43	2.59	2	1
1:A:26:U:O2'	1:A:27:G:C4'	0.43	2.67	4	2
1:B:50:U:C4'	1:B:51:G:OP1	0.43	2.67	16	2
1:A:8:G:O4'	1:B:64:A:N6	0.43	2.51	12	1
1:A:37:A:H8	1:A:37:A:O5'	0.43	1.96	12	1
1:A:6:A:C6	1:A:8:G:C8	0.43	3.07	14	1
1:A:6:A:H4'	1:A:6:A:OP2	0.43	2.12	18	1
1:B:49:A:N9	1:B:51:G:N7	0.42	2.67	6	1
1:B:64:A:C8	1:B:65:A:C8	0.42	3.06	7	1
1:A:6:A:OP2	1:A:6:A:C4'	0.42	2.67	9	1
1:A:36:U:OP1	1:A:36:U:C4'	0.42	2.66	2	1
1:B:51:G:C2'	1:B:52:G:O4'	0.42	2.60	10	1
1:A:41:C:H2'	1:A:42:C:C6	0.42	2.50	8	4
1:B:83:U:O5'	1:B:83:U:C6	0.42	2.65	19	2
1:B:69:U:C4	1:B:70:G:C6	0.42	3.08	10	2
1:A:39:G:H8	1:A:39:G:O5'	0.42	1.98	13	1
1:A:6:A:H1'	1:A:7:U:O5'	0.42	2.15	11	1
1:B:80:A:C4'	1:B:81:A:OP1	0.42	2.64	15	1
1:A:21:A:C2	1:B:81:A:C8	0.42	3.08	17	1
1:B:48:U:H2'	1:B:80:A:N1	0.42	2.30	17	1
1:B:49:A:H4'	1:B:50:U:OP2	0.42	2.13	3	1
1:A:5:U:O3'	1:A:6:A:H4'	0.42	2.15	13	1
1:A:20:G:C2'	1:A:22:A:N7	0.42	2.83	16	1
1:A:6:A:O4'	1:A:6:A:OP2	0.42	2.37	18	2
1:A:7:U:C6	1:A:7:U:C5'	0.42	3.03	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:U:O2'	1:B:80:A:O5'	0.42	2.38	17	1
1:B:78:C:C2'	1:B:79:U:O5'	0.42	2.68	20	1
1:B:64:A:C4'	1:B:65:A:OP1	0.42	2.65	6	1
1:B:76:U:O2'	1:B:77:C:C5'	0.41	2.68	2	1
1:A:6:A:C6	1:A:8:G:N9	0.41	2.87	3	1
1:A:8:G:C2'	1:A:9:G:O5'	0.41	2.66	17	1
1:B:48:U:C4	1:B:80:A:N7	0.41	2.88	4	1
1:B:64:A:C6	1:B:65:A:C2	0.41	3.08	14	1
1:B:62:G:C5	1:B:63:G:C6	0.41	3.08	11	1
1:A:38:A:C1'	1:B:64:A:C8	0.41	3.03	6	1
1:A:38:A:C2'	1:A:39:G:O5'	0.41	2.69	15	1
1:A:40:U:C4	1:A:41:C:N4	0.41	2.88	10	1
1:A:21:A:O2'	1:A:22:A:OP1	0.41	2.31	12	1
1:A:22:A:C6	1:A:23:A:N6	0.41	2.88	16	1
1:B:69:U:N3	1:B:70:G:C5	0.41	2.88	7	1
1:A:21:A:C6	1:B:49:A:N1	0.41	2.88	13	1
1:B:85:C:H6	1:B:85:C:O5'	0.41	1.99	19	1
1:A:26:U:C4	1:A:27:G:C5	0.41	3.09	9	1
1:A:15:C:N4	1:A:16:C:H42	0.41	2.11	20	1
1:A:22:A:N1	1:A:23:A:C6	0.41	2.89	15	1
1:A:21:A:C4	1:A:22:A:C8	0.41	3.09	9	1
1:A:24:C:H6	1:A:24:C:O5'	0.41	1.98	6	1
1:B:49:A:C5	1:B:51:G:C8	0.41	3.08	6	1
1:A:31:C:H2'	1:A:32:U:C6	0.41	2.50	15	1
1:A:6:A:C2	1:A:8:G:N9	0.41	2.89	13	1
1:B:58:C:C4	1:B:59:C:N3	0.41	2.88	1	1
1:B:69:U:O4	1:B:70:G:O6	0.41	2.39	7	1
1:A:6:A:C4'	1:A:7:U:OP2	0.41	2.69	17	1
1:A:5:U:O3'	1:A:6:A:C4'	0.41	2.68	13	1
1:A:32:U:H2'	1:A:33:U:C6	0.41	2.51	13	1
1:A:1:G:HO2'	1:A:2:G:H5'	0.41	1.74	18	1
1:A:7:U:H2'	1:A:8:G:O5'	0.41	2.15	20	1
1:A:8:G:N7	1:A:9:G:C8	0.40	2.89	1	1
1:A:22:A:OP1	1:A:22:A:C4'	0.40	2.69	19	1
1:B:65:A:N1	1:B:66:A:C6	0.40	2.88	19	1
1:B:49:A:N7	1:B:51:G:C5	0.40	2.89	6	1
1:B:84:C:H2'	1:B:85:C:C6	0.40	2.51	19	1
1:A:7:U:C4	1:A:39:G:N2	0.40	2.89	10	1
1:B:57:A:H8	1:B:57:A:O5'	0.40	1.99	4	1
1:B:67:C:O2'	1:B:68:U:C5'	0.40	2.55	13	1
1:A:34:C:O2'	1:A:35:C:H5'	0.40	2.16	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:65:A:C5	1:B:66:A:C5	0.40	3.09	11	1
1:A:35:C:H2'	1:A:36:U:O5'	0.40	2.17	3	1
1:A:36:U:OP1	1:A:36:U:O4'	0.40	2.39	16	1
1:B:49:A:P	1:B:49:A:O4'	0.40	2.78	19	1
1:A:6:A:C2	1:A:7:U:C6	0.40	3.09	6	1
1:B:49:A:H2'	1:B:51:G:N7	0.40	2.31	2	1
1:A:14:A:C5	1:A:15:C:C4	0.40	3.10	10	1
1:A:6:A:C6	1:A:8:G:C5	0.40	3.09	5	1
1:B:50:U:OP1	1:B:50:U:C1'	0.40	2.69	3	1
1:A:8:G:O2'	1:A:9:G:O5'	0.40	2.35	12	1
1:B:68:U:O2'	1:B:69:U:O4'	0.40	2.35	12	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

6.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

6.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
1	A	42/43 (98%)	11±1 (25±3%)	2±1 (4±3%)	0.33±0.02
1	B	42/43 (98%)	11±1 (26±3%)	2±1 (5±2%)	0.36±0.02
All	All	1680/1720 (98%)	429 (26%)	71 (4%)	0.34

The overall RNA backbone suiteness is 0.34.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	9	G	20
1	B	66	A	20
1	B	52	G	20
1	A	23	A	20
1	A	8	G	19

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Mol	Chain	Res	Type	Models (Total)
1	B	63	G	19
1	A	7	U	19
1	B	51	G	19
1	A	20	G	19
1	A	36	U	19
1	B	49	A	18
1	B	50	U	18
1	A	6	A	18
1	B	64	A	17
1	A	22	A	17
1	A	38	A	17
1	B	79	U	17
1	B	65	A	17
1	A	21	A	15
1	B	81	A	13
1	B	82	G	12
1	B	78	C	10
1	A	39	G	10
1	A	37	A	9
1	B	80	A	9
1	A	35	C	8
1	B	77	C	5
1	A	34	C	4
1	B	53	A	1

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	B	50	U	10
1	A	21	A	7
1	A	6	A	7
1	B	49	A	6
1	B	48	U	6
1	B	65	A	5
1	B	64	A	5
1	B	81	A	4
1	A	7	U	4
1	A	22	A	3
1	A	5	U	3
1	A	35	C	2
1	B	79	U	2
1	A	38	A	2

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Mol	Chain	Res	Type	Models (Total)
1	B	78	C	1
1	B	82	G	1
1	A	23	A	1
1	B	77	C	1
1	A	39	G	1

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

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

6.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 41% for the well-defined parts and 41% for the entire structure.

7.1 Chemical shift list 1

File name: BMRB entry 6652

Chemical shift list name: *assigned_chem_shift_list_1*

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	700
Number of shifts mapped to atoms	700
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	6

7.1.2 Chemical shift referencing

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

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 41%, i.e. 656 atoms were assigned a chemical shift out of a possible 1616. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Sidechain	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Aromatic	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Overall	656/1616 (41%)	454/928 (49%)	156/576 (27%)	46/112 (41%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 41%, i.e. 656 atoms were assigned a chemical shift out of a possible 1616. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Sidechain	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Aromatic	0/0 (—%)	0/0 (—%)	0/0 (—%)	0/0 (—%)
Overall	656/1616 (41%)	454/928 (49%)	156/576 (27%)	46/112 (41%)

7.1.4 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, <i>ppm</i>	Expected range, <i>ppm</i>	Z-score
1	A	24	C	H1'	3.28	6.40 – 4.70	-13.3
1	B	67	C	H1'	3.28	6.40 – 4.70	-13.3
1	B	81	A	H1'	3.70	6.87 – 4.87	-10.9
1	A	38	A	H1'	3.70	6.87 – 4.87	-10.9
1	B	80	A	H1'	7.20	6.87 – 4.87	6.6
1	A	37	A	H1'	7.20	6.87 – 4.87	6.6

7.1.5 Random Coil Index (RCI) plots ⓘ

No *random coil index* (RCI) plot could be generated from the current chemical shift list (assigned_chem_shift_list_1). RCI is only applicable to proteins.