Full wwPDB NMR Structure Validation Report

Feb 21, 2018 – 04:57 pm GMT

PDB ID : 1KOS
Title : SOLUTION NMR STRUCTURE OF AN ANALOG OF THE YEAST TRNA
PHE T STEM LOOP CONTAINING RIBOTHYMIDINE AT ITS NATU-
RALLY OCCURRING POSITION
Authors : Koshlap, K.M.; Guenther, R.; Sochacka, E.; Malkiewicz, A.; Agris, P.F.
Deposited on : 1999-05-03

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
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 : 1.7.3 (157068), CSD as539be (2018)
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : trunk30686
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30686
1 Overall quality at a glance

The following experimental techniques were used to determine the structure: **SOLUTION NMR**

The overall completeness of chemical shifts assignment was not calculated.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>NMR archive (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>136279</td>
<td>12091</td>
</tr>
<tr>
<td>RNA backbone</td>
<td>3744</td>
<td>647</td>
</tr>
</tbody>
</table>

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 <=5%.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

![Quality of chain diagram]
2 Ensemble composition and analysis

This entry contains 8 models. This entry does not contain polypeptide chains, therefore identification of well-defined residues and clustering analysis are not possible. All residues are included in the validation scores.
3  Entry composition

There is only 1 type of molecule in this entry. The entry contains 543 atoms, of which 187 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*AP*G)- 3’.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>Total C H N O P</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>543 161 187 60 119 16</td>
<td></td>
</tr>
</tbody>
</table>
4 Residue-property plots

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: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*AP*G)- 3’

Chain A:

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: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*AP*G)- 3’

Chain A:

4.2.2 Score per residue for model 2

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*AP*G)- 3’

Chain A:
4.2.3  Score per residue for model 3

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3’

Chain A:

```
6% 29% 65%
```

4.2.4  Score per residue for model 4

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3’

Chain A:

```
6% 18% 76%
```

4.2.5  Score per residue for model 5

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3’

Chain A:

```
6% 18% 76%
```

4.2.6  Score per residue for model 6

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3’

Chain A:

```
6% 12% 82%
```

4.2.7  Score per residue for model 7

- Molecule 1: 5’-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3’
4.2.8 Score per residue for model 8

- Molecule 1: 5'-R(*CP*UP*GP*UP*GP*(5MU)P*UP*CP*GP*AP*UP*(CH)P*CP*AP*CP*A P*G)- 3'

Chain A:
5 Refinement protocol and experimental data overview

The models were refined using the following method: DISTANCE GEOMETRY AND SIMULATED ANNEALING.

Of the 50 calculated structures, 8 were deposited, based on the following criterion: LOWEST ENERGY STRUCTURES.

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

<table>
<thead>
<tr>
<th>Software name</th>
<th>Classification</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-PLOR</td>
<td>refinement</td>
<td>3.851</td>
</tr>
<tr>
<td>X-PLOR</td>
<td>structure solution</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical shift file(s)</th>
<th>BMRB entry 4984</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of chemical shift lists</td>
<td>1</td>
</tr>
<tr>
<td>Total number of shifts</td>
<td>1712</td>
</tr>
<tr>
<td>Number of shifts mapped to atoms</td>
<td>0</td>
</tr>
<tr>
<td>Number of unparsed shifts</td>
<td>0</td>
</tr>
<tr>
<td>Number of shifts with mapping errors</td>
<td>1712</td>
</tr>
<tr>
<td>Number of shifts with mapping warnings</td>
<td>0</td>
</tr>
<tr>
<td>Assignment completeness (well-defined parts)</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, CH

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).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RMSZ</td>
<td>#Z&gt;5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1.91±0.03</td>
<td>9±1/350 (2.5±0.3%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1.91</td>
<td>71/2800 (2.5%)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Chirality</th>
<th>Planarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>0.1±0.3</td>
<td>0.0±0.0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
<th>Models</th>
<th>Worst</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>5</td>
<td>G</td>
<td>N9-C8</td>
<td>-11.48</td>
<td>1.29</td>
<td>1.37</td>
<td>2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>3</td>
<td>G</td>
<td>N9-C8</td>
<td>-8.69</td>
<td>1.31</td>
<td>1.37</td>
<td>6</td>
<td>8</td>
<td></td>
</tr>
<tr>
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<td>A</td>
<td>17</td>
<td>G</td>
<td>N9-C8</td>
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<td>1.32</td>
<td>1.37</td>
<td>4</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>G</td>
<td>N9-C4</td>
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<td>2</td>
<td>6</td>
<td></td>
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<tr>
<td>1</td>
<td>A</td>
<td>15</td>
<td>C</td>
<td>N1-C6</td>
<td>-6.91</td>
<td>1.33</td>
<td>1.37</td>
<td>2</td>
<td>8</td>
<td></td>
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<tr>
<td>1</td>
<td>A</td>
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<td>C</td>
<td>N1-C6</td>
<td>-6.79</td>
<td>1.33</td>
<td>1.37</td>
<td>7</td>
<td>3</td>
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<tr>
<td>1</td>
<td>A</td>
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<td>C</td>
<td>C2'-C1'</td>
<td>-6.50</td>
<td>1.46</td>
<td>1.53</td>
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<tr>
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<td>A</td>
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<td>G</td>
<td>C2'-C1'</td>
<td>-6.31</td>
<td>1.46</td>
<td>1.53</td>
<td>2</td>
<td>6</td>
<td></td>
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<tr>
<td>1</td>
<td>A</td>
<td>8</td>
<td>C</td>
<td>C3'-C2'</td>
<td>-6.18</td>
<td>1.46</td>
<td>1.52</td>
<td>7</td>
<td>7</td>
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<tr>
<td>1</td>
<td>A</td>
<td>3</td>
<td>G</td>
<td>C2'-C1'</td>
<td>-6.10</td>
<td>1.46</td>
<td>1.53</td>
<td>5</td>
<td>2</td>
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<tr>
<td>1</td>
<td>A</td>
<td>16</td>
<td>A</td>
<td>N9-C8</td>
<td>-6.00</td>
<td>1.32</td>
<td>1.37</td>
<td>7</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>C</td>
<td>C4-C5</td>
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<td>1.38</td>
<td>1.43</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>16</td>
<td>A</td>
<td>O4'-C1'-N9</td>
<td>19.91</td>
<td>124.13</td>
<td>108.20</td>
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<tr>
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<td>C</td>
<td>O4'-C1'-N1</td>
<td>19.41</td>
<td>123.73</td>
<td>108.20</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>G</td>
<td>N9-C1'-C2'</td>
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<td>91.28</td>
<td>114.00</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>4</td>
<td>U</td>
<td>O4'-C1'-N1</td>
<td>13.79</td>
<td>119.23</td>
<td>108.20</td>
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<tr>
<td>1</td>
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<td>U</td>
<td>O4'-C1'-N1</td>
<td>13.69</td>
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<td>108.20</td>
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<td>G</td>
<td>O4'-C1'-N9</td>
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<td>C</td>
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<td>C</td>
<td>C5'-C4'-O4'</td>
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<td>123.99</td>
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<td>C3'-C2'-C1'</td>
<td>11.25</td>
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<td>C</td>
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<td>G</td>
<td>C1'-O4'-C4'</td>
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<td>C1'-O4'-C4'</td>
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<td>C</td>
<td>O4'-C1'-C2'</td>
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<td>G</td>
<td>C1'-O4'-C4'</td>
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<td>102.51</td>
<td>109.90</td>
<td>6</td>
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<tr>
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<td>P-O3'-C3'</td>
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<td>130.72</td>
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<td>G</td>
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<td>101.97</td>
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<tr>
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<td>A</td>
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<td>N7-C8-N9</td>
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<td>G</td>
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<td>99.90</td>
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<td>7</td>
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<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>G</td>
<td>O4'-C1'-N9</td>
<td>8.75</td>
<td>115.20</td>
<td>108.20</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>14</td>
<td>A</td>
<td>C5'-C4'-O4'</td>
<td>8.65</td>
<td>119.48</td>
<td>109.10</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>C</td>
<td>P-O3'-C3'</td>
<td>8.62</td>
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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.
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 71.

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

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<td>2.02</td>
<td>6</td>
</tr>
<tr>
<td>1:A:12:CH:OP1</td>
<td>1:A:13:C:C5</td>
<td>0.54</td>
<td>2.60</td>
<td>4</td>
</tr>
<tr>
<td>1:A:5:G:N3</td>
<td>1:A:14:A:N1</td>
<td>0.54</td>
<td>2.56</td>
<td>3</td>
</tr>
<tr>
<td>1:A:10:A:O3'</td>
<td>1:A:12:CH:H5'</td>
<td>0.54</td>
<td>2.02</td>
<td>8</td>
</tr>
<tr>
<td>1:A:3:G:H2'</td>
<td>1:A:4:U:C6</td>
<td>0.54</td>
<td>2.38</td>
<td>6</td>
</tr>
<tr>
<td>1:A:3:G:C5</td>
<td>1:A:4:U:C4</td>
<td>0.53</td>
<td>2.97</td>
<td>8</td>
</tr>
<tr>
<td>1:A:15:C:N4</td>
<td>1:A:16:A:N6</td>
<td>0.53</td>
<td>2.57</td>
<td>1</td>
</tr>
<tr>
<td>1:A:13:C:O2'</td>
<td>1:A:14:A:H8</td>
<td>0.53</td>
<td>1.87</td>
<td>8</td>
</tr>
<tr>
<td>1:A:5:G:N2</td>
<td>1:A:14:A:C5</td>
<td>0.52</td>
<td>2.78</td>
<td>1</td>
</tr>
<tr>
<td>1:A:12:CH:O4'</td>
<td>1:A:13:C:C5</td>
<td>0.52</td>
<td>2.63</td>
<td>2</td>
</tr>
<tr>
<td>1:A:2:U:C2</td>
<td>1:A:3:G:N7</td>
<td>0.52</td>
<td>2.78</td>
<td>8</td>
</tr>
<tr>
<td>1:A:6:5MU:O4'</td>
<td>1:A:7:U:H5</td>
<td>0.51</td>
<td>1.87</td>
<td>8</td>
</tr>
<tr>
<td>1:A:6:5MU:H73</td>
<td>1:A:8:C:OP2</td>
<td>0.51</td>
<td>2.04</td>
<td>3</td>
</tr>
<tr>
<td>1:A:13:C:HO2'</td>
<td>1:A:14:A:H8</td>
<td>0.51</td>
<td>1.44</td>
<td>8</td>
</tr>
<tr>
<td>1:A:6:5MU:C5</td>
<td>1:A:7:U:O2'</td>
<td>0.51</td>
<td>2.64</td>
<td>3</td>
</tr>
<tr>
<td>1:A:5:G:O2'</td>
<td>1:A:6:5MU:H6</td>
<td>0.51</td>
<td>1.87</td>
<td>5</td>
</tr>
<tr>
<td>1:A:5:G:O3'</td>
<td>1:A:6:5MU:H71</td>
<td>0.51</td>
<td>2.06</td>
<td>2</td>
</tr>
<tr>
<td>1:A:5:G:C2</td>
<td>1:A:14:A:C6</td>
<td>0.50</td>
<td>2.99</td>
<td>4</td>
</tr>
<tr>
<td>1:A:5:G:N2</td>
<td>1:A:14:A:C4</td>
<td>0.50</td>
<td>2.79</td>
<td>4</td>
</tr>
<tr>
<td>1:A:2:U:C2</td>
<td>1:A:3:G:C5</td>
<td>0.50</td>
<td>2.99</td>
<td>6</td>
</tr>
<tr>
<td>1:A:15:C:C4</td>
<td>1:A:16:A:N7</td>
<td>0.50</td>
<td>2.80</td>
<td>7</td>
</tr>
<tr>
<td>1:A:3:G:C2'</td>
<td>1:A:4:U:C6</td>
<td>0.50</td>
<td>2.94</td>
<td>8</td>
</tr>
<tr>
<td>1:A:10:A:OP2</td>
<td>1:A:10:A:H3'</td>
<td>0.49</td>
<td>2.06</td>
<td>6</td>
</tr>
<tr>
<td>1:A:2:U:OP2</td>
<td>1:A:2:U:H3'</td>
<td>0.49</td>
<td>2.07</td>
<td>5</td>
</tr>
<tr>
<td>1:A:16:A:N6</td>
<td>1:A:17:G:C6</td>
<td>0.49</td>
<td>2.80</td>
<td>7</td>
</tr>
<tr>
<td>1:A:4:U:H4'</td>
<td>1:A:5:G:OP1</td>
<td>0.49</td>
<td>2.07</td>
<td>5</td>
</tr>
<tr>
<td>1:A:13:C:C2'</td>
<td>1:A:14:A:C8</td>
<td>0.49</td>
<td>2.95</td>
<td>7</td>
</tr>
<tr>
<td>1:A:5:G:C2</td>
<td>1:A:7:U:O2'</td>
<td>0.49</td>
<td>2.66</td>
<td>7</td>
</tr>
<tr>
<td>1:A:1:C:H4'</td>
<td>1:A:2:U:OP1</td>
<td>0.48</td>
<td>2.08</td>
<td>3</td>
</tr>
<tr>
<td>1:A:14:A:O2'</td>
<td>1:A:15:C:H5'</td>
<td>0.48</td>
<td>2.08</td>
<td>1</td>
</tr>
<tr>
<td>1:A:3:G:N2</td>
<td>1:A:15:C:N3</td>
<td>0.48</td>
<td>2.59</td>
<td>4</td>
</tr>
<tr>
<td>1:A:5:G:N2</td>
<td>1:A:14:A:C6</td>
<td>0.47</td>
<td>2.82</td>
<td>1</td>
</tr>
<tr>
<td>1:A:5:G:H4'</td>
<td>1:A:6:5MU:OP1</td>
<td>0.47</td>
<td>2.09</td>
<td>4</td>
</tr>
<tr>
<td>1:A:6:5MU:O2'</td>
<td>1:A:7:U:C5</td>
<td>0.47</td>
<td>2.68</td>
<td>1</td>
</tr>
<tr>
<td>1:A:12:CH:OP1</td>
<td>1:A:13:C:H5</td>
<td>0.47</td>
<td>1.90</td>
<td>4</td>
</tr>
<tr>
<td>1:A:11:U:O2'</td>
<td>1:A:12:CH:H5</td>
<td>0.47</td>
<td>2.10</td>
<td>8</td>
</tr>
<tr>
<td>1:A:16:A:O2'</td>
<td>1:A:17:G:O4'</td>
<td>0.47</td>
<td>2.33</td>
<td>8</td>
</tr>
<tr>
<td>1:A:15:C:C4</td>
<td>1:A:16:A:C5</td>
<td>0.47</td>
<td>3.03</td>
<td>4</td>
</tr>
</tbody>
</table>

Continued on next page...
### 6.3 Torsion angles

#### 6.3.1 Protein backbone

There are no protein molecules in this entry.
6.3.2 Protein sidechains

There are no protein molecules in this entry.

6.3.3 RNA

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Backbone Outliers</th>
<th>Pucker Outliers</th>
<th>Suiteness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>16/17 (94%)</td>
<td>14±1 (90±4%)</td>
<td>9±1 (59±6%)</td>
<td>0.01±0.01</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>128/136 (94%)</td>
<td>115 (90%)</td>
<td>75 (59%)</td>
<td>0.01</td>
</tr>
</tbody>
</table>

The overall RNA backbone suiteness is 0.01.

All unique RNA backbone outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>9</td>
<td>G</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>15</td>
<td>C</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>16</td>
<td>A</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>11</td>
<td>U</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>10</td>
<td>A</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>5MU</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>5</td>
<td>G</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>14</td>
<td>A</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>13</td>
<td>C</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>4</td>
<td>U</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>8</td>
<td>C</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>3</td>
<td>G</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>2</td>
<td>U</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>7</td>
<td>U</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>G</td>
<td>5</td>
</tr>
</tbody>
</table>

All unique RNA pucker outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>14</td>
<td>A</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>13</td>
<td>C</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>4</td>
<td>U</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>C</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>3</td>
<td>G</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>2</td>
<td>U</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>15</td>
<td>C</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>5MU</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>7</td>
<td>U</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>8</td>
<td>C</td>
<td>4</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>16</td>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>10</td>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>9</td>
<td>G</td>
<td>2</td>
</tr>
</tbody>
</table>

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Counts</th>
<th>Bond lengths</th>
<th>#Z&gt;2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH</td>
<td>A</td>
<td>12</td>
<td>1</td>
<td>13,21,22</td>
<td>1.09±0.08</td>
<td>0±0 (0±0%)</td>
</tr>
<tr>
<td></td>
<td>5MU</td>
<td>A</td>
<td>6</td>
<td>1</td>
<td>12,22,23</td>
<td>1.60±0.21</td>
<td>0±0 (0±0%)</td>
</tr>
</tbody>
</table>

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Counts</th>
<th>Bond angles</th>
<th>#Z&gt;2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH</td>
<td>A</td>
<td>12</td>
<td>1</td>
<td>15,30,33</td>
<td>1.44±0.28</td>
<td>0±0 (0±2%)</td>
</tr>
<tr>
<td></td>
<td>5MU</td>
<td>A</td>
<td>6</td>
<td>1</td>
<td>13,32,35</td>
<td>2.86±0.74</td>
<td>2±1 (11±5%)</td>
</tr>
</tbody>
</table>

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. ‘-’ means no outliers of that kind were identified.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH</td>
<td>A</td>
<td>12</td>
<td>1</td>
<td>-</td>
<td>0±0,3,25,26</td>
<td>0±0,2,2,2</td>
</tr>
<tr>
<td></td>
<td>5MU</td>
<td>A</td>
<td>6</td>
<td>1</td>
<td>-</td>
<td>0±0,3,25,26</td>
<td>0±0,2,2,2</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>5MU</td>
<td>O4'-C1'-N1</td>
<td>9.98</td>
<td>127.86</td>
<td>108.05</td>
<td>1-5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>5MU</td>
<td>C4'-O4'-C1'</td>
<td>6.71</td>
<td>102.84</td>
<td>109.83</td>
<td>1-3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>5MU</td>
<td>O2'-C2'-C3'</td>
<td>5.50</td>
<td>129.45</td>
<td>111.83</td>
<td>8-4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>12</td>
<td>CH</td>
<td>O4'-C1'-N1</td>
<td>5.01</td>
<td>117.99</td>
<td>108.05</td>
<td>5-1</td>
</tr>
</tbody>
</table>

There are no chirality outliers.
There are no torsion outliers.
There are no ring outliers.

### 6.5 Carbohydrates

There are no carbohydrates 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 0% for the well-defined parts and 0% for the entire structure.

7.1 Chemical shift list 1

File name: BMRB entry 4984

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.

<table>
<thead>
<tr>
<th>Total number of shifts</th>
<th>1712</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of shifts mapped to atoms</td>
<td>0</td>
</tr>
<tr>
<td>Number of unparsed shifts</td>
<td>0</td>
</tr>
<tr>
<td>Number of shifts with mapping errors</td>
<td>1712</td>
</tr>
<tr>
<td>Number of shifts with mapping warnings</td>
<td>0</td>
</tr>
<tr>
<td>Number of shift outliers (ShiftChecker)</td>
<td>5</td>
</tr>
</tbody>
</table>

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

- Chain not found in structure. All 1712 occurrences are reported below.

<table>
<thead>
<tr>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atom</th>
<th>Shift Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNMAPPED</td>
<td>40</td>
<td>THR</td>
<td>HG23</td>
<td>1.268</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>101</td>
<td>VAL</td>
<td>HG12</td>
<td>0.899</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>37</td>
<td>SER</td>
<td>CB</td>
<td>64.267</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>39</td>
<td>ILE</td>
<td>HG13</td>
<td>0.91</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>130</td>
<td>GLY</td>
<td>N</td>
<td>108.216</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>69</td>
<td>LEU</td>
<td>HB2</td>
<td>1.7</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>32</td>
<td>MET</td>
<td>HG2</td>
<td>2.269</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>54</td>
<td>ASN</td>
<td>HB2</td>
<td>2.81</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>25</td>
<td>PHE</td>
<td>CB</td>
<td>45.19</td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>72</td>
<td>SER</td>
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<td>58</td>
<td>ARG</td>
<td>HA</td>
<td>4.537</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>103</td>
<td>ARG</td>
<td>HA</td>
<td>4.957</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>33</td>
<td>VAL</td>
<td>C</td>
<td>177.5</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>132</td>
<td>LEU</td>
<td>HD13</td>
<td>0.92</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>146</td>
<td>THR</td>
<td>HG21</td>
<td>1.21</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>122</td>
<td>SER</td>
<td>HB2</td>
<td>3.69</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>4</td>
<td>LEU</td>
<td>CD2</td>
<td>23.98</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>90</td>
<td>GLU</td>
<td>CB</td>
<td>33.513</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>23</td>
<td>LEU</td>
<td>HB2</td>
<td>1.384</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>115</td>
<td>SER</td>
<td>C</td>
<td>177.1</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>93</td>
<td>PHE</td>
<td>HA</td>
<td>5.237</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>6</td>
<td>ASP</td>
<td>C</td>
<td>176.7</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>131</td>
<td>ARG</td>
<td>CA</td>
<td>55.223</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>73</td>
<td>PHE</td>
<td>HB3</td>
<td>2.996</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>51</td>
<td>GLY</td>
<td>C</td>
<td>174.0</td>
<td></td>
</tr>
<tr>
<td>UNMAPPED</td>
<td>60</td>
<td>ILE</td>
<td>CG2</td>
<td>16.846</td>
<td></td>
</tr>
</tbody>
</table>

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

<table>
<thead>
<tr>
<th>Nucleus</th>
<th># values</th>
<th>Correction ± precision, ppm</th>
<th>Suggested action</th>
</tr>
</thead>
<tbody>
<tr>
<td>$^{13}\text{C}_\alpha$</td>
<td>148</td>
<td>0.00 ± 0.00</td>
<td>None needed (&lt; 0.5 ppm)</td>
</tr>
<tr>
<td>$^{13}\text{C}_\beta$</td>
<td>138</td>
<td>0.00 ± 0.00</td>
<td>None needed (&lt; 0.5 ppm)</td>
</tr>
<tr>
<td>$^{13}\text{C}'$</td>
<td>140</td>
<td>0.00 ± 0.00</td>
<td>None needed (&lt; 0.5 ppm)</td>
</tr>
<tr>
<td>$^{15}\text{N}$</td>
<td>146</td>
<td>0.00 ± 0.00</td>
<td>None needed (&lt; 0.5 ppm)</td>
</tr>
</tbody>
</table>

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 0%, i.e. 0 atoms were assigned a chemical shift out of a possible 281. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>$^1\text{H}$</th>
<th>$^{13}\text{C}$</th>
<th>$^{15}\text{N}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backbone</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Sidechain</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Aromatic</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Overall</td>
<td>0/281</td>
<td>0/161</td>
<td>0/101</td>
<td>0/19</td>
</tr>
</tbody>
</table>
The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 0%, i.e. 0 atoms were assigned a chemical shift out of a possible 281. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>$^1$H</th>
<th>$^{13}$C</th>
<th>$^{15}$N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backbone</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Sidechain</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Aromatic</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
<td>0/0</td>
</tr>
<tr>
<td>Overall</td>
<td>0/281</td>
<td>0/161</td>
<td>0/101</td>
<td>0/19</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atom</th>
<th>Shift, ppm</th>
<th>Expected range, ppm</th>
<th>Z-score</th>
</tr>
</thead>
<tbody>
<tr>
<td>???</td>
<td>UNMAPPED</td>
<td>127</td>
<td>LYS</td>
<td>CE</td>
<td>25.24</td>
<td>46.00 – 37.80</td>
<td>-20.3</td>
</tr>
<tr>
<td>???</td>
<td>UNMAPPED</td>
<td>122</td>
<td>SER</td>
<td>C</td>
<td>197.10</td>
<td>183.48 – 165.88</td>
<td>12.7</td>
</tr>
<tr>
<td>???</td>
<td>UNMAPPED</td>
<td>47</td>
<td>HIS</td>
<td>CE1</td>
<td>119.61</td>
<td>149.70 – 125.30</td>
<td>-7.3</td>
</tr>
<tr>
<td>???</td>
<td>UNMAPPED</td>
<td>34</td>
<td>ILE</td>
<td>CG2</td>
<td>27.23</td>
<td>24.63 – 10.43</td>
<td>6.8</td>
</tr>
<tr>
<td>???</td>
<td>UNMAPPED</td>
<td>62</td>
<td>VAL</td>
<td>CB</td>
<td>44.00</td>
<td>41.76 – 23.66</td>
<td>6.2</td>
</tr>
</tbody>
</table>

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.