Full wwPDB X-ray Structure Validation Report

PDB ID : 4V7W
Title : Structure of the Thermus thermophilus ribosome complexed with chloramphenicol.
Authors : Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.
Deposited on : 2010-08-16
Resolution : 3.00 Å (reported)

This is a Full wwPDB X-ray 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:

- MolProbity : 4.02b-467
- Mogul : 1.8.5 (274361), CSD as541be (2020)
- Xtriage (Phenix) : 1.13
- EDS : 2.11
- buster-report : 1.1.7 (2018)
- Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
- Refmac : 5.8.0158
- CCP4 : 7.0.044 (Gargrove)
- Ideal geometry (proteins) : Engh & Huber (2001)
- Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
- Validation Pipeline (wwPDB-VP) : 2.11
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**X-RAY DIFFRACTION**

The reported resolution of this entry is 3.00 Å.

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.

![Graphic showing percentile ranks and values for various metrics like Rfree, Clashscore, Ramachandran outliers, Sidechain outliers, RSRZ outliers, RNA backbone with ranges for similar resolution entries.]

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<td>RNA backbone</td>
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The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. 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% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

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Continued on next page...
### Mol | Chain | Length | Quality of chain
--- | --- | --- | ---
28 | B6 | 54 | 9%<br>24%<br>50%<br>17%
28 | D6 | 54 | 7%<br>24%<br>52%<br>17%
29 | B7 | 49 | 3%<br>43%<br>47%<br>10%
29 | D7 | 49 | 3%<br>43%<br>45%<br>12%
30 | B8 | 65 | 9%<br>18%<br>49%<br>26%<br>5%
30 | D8 | 65 | 5%<br>18%<br>54%<br>23%<br>•
31 | BA | 2787 | 3%<br>24%<br>45%<br>24%<br>5%
31 | DA | 2787 | 4%<br>21%<br>46%<br>27%<br>•<br>•
32 | BB | 122 | 3%<br>16%<br>55%<br>24%<br>•<br>•
32 | DB | 122 | 12%<br>16%<br>54%<br>26%<br>•<br>•
33 | BD | 276 | 6%<br>32%<br>47%<br>19%<br>•<br>•
33 | DD | 276 | •<br>30%<br>49%<br>20%<br>•
34 | BE | 206 | •<br>3%<br>31%<br>45%<br>19%<br>5%
34 | DE | 206 | 7%<br>30%<br>47%<br>17%<br>5%
35 | BF | 210 | 4%<br>33%<br>49%<br>15%<br>•<br>•
35 | DF | 210 | 6%<br>32%<br>49%<br>17%<br>•<br>•
36 | BG | 182 | 3%<br>23%<br>59%<br>17%<br>•<br>•
36 | DG | 182 | 4%<br>23%<br>41%<br>60%<br>16%<br>•
37 | BH | 180 | 4%<br>28%<br>40%<br>16%<br>11%
37 | DH | 180 | 9%<br>21%<br>43%<br>13%<br>6%<br>11%
38 | BI | 148 | 9%<br>25%<br>55%<br>17%<br>•
38 | DI | 148 | 4%<br>27%<br>56%<br>15%<br>•
39 | BN | 140 | 4%<br>19%<br>49%<br>26%<br>6%
39 | DN | 140 | 4%<br>20%<br>49%<br>29%<br>5%
40 | BO | 122 | •<br>40%<br>49%<br>9%

*Continued on next page...*
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

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2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 277987 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 16S rRNA.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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- Molecule 2 is a protein called 30S ribosomal protein S2.

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<th>Atoms</th>
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<th>Trace</th>
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<td>O</td>
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- Molecule 3 is a protein called 30S ribosomal protein S3.

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- Molecule 4 is a protein called 30S ribosomal protein S4.

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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
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<td>C</td>
<td>N</td>
<td>O</td>
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- Molecule 5 is a protein called 30S ribosomal protein S5.
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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
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<tbody>
<tr>
<td>5</td>
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<td>Total C N O S 1147 724 218 201 4</td>
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<tr>
<td>5</td>
<td>CE</td>
<td>151</td>
<td>Total C N O S 1147 724 218 201 4</td>
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- Molecule 6 is a protein called 30S ribosomal protein S6.

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<tr>
<td>6</td>
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<td>Total C N O S 843 531 155 154 3</td>
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<td>CF</td>
<td>101</td>
<td>Total C N O S 843 531 155 154 3</td>
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- Molecule 7 is a protein called 30S ribosomal protein S7.

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<th>Atoms</th>
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<tr>
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<tr>
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<td>CG</td>
<td>155</td>
<td>Total C N O S 1257 781 252 218 6</td>
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- Molecule 8 is a protein called 30S ribosomal protein S8.

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<th>Atoms</th>
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<th>Trace</th>
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<tr>
<td>8</td>
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<td>Total C N O S 1116 705 215 193 3</td>
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<tr>
<td>8</td>
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<td>138</td>
<td>Total C N O S 1116 705 215 193 3</td>
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- Molecule 9 is a protein called 30S ribosomal protein S9.

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<th>Trace</th>
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<tr>
<td>9</td>
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<td>Total C N O 1011 639 198 174</td>
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<tr>
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There are 2 discrepancies between the modelled and reference sequences:

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<td>AI</td>
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<td>CONFLICT</td>
<td>UNP P80374</td>
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• Molecule 10 is a protein called 30S ribosomal protein S10.

<table>
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<tr>
<td>10</td>
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• Molecule 11 is a protein called 30S ribosomal protein S11.

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<tr>
<td>11</td>
<td>AK</td>
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<td>Total 885 C 549 N 168 O 165 S 3</td>
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<td>11</td>
<td>CK</td>
<td>119</td>
<td>Total 885 C 549 N 168 O 165 S 3</td>
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• Molecule 12 is a protein called 30S ribosomal protein S12.

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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>AL</td>
<td>125</td>
<td>Total 971 C 611 N 196 O 163 S 1</td>
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<tr>
<td>12</td>
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<td>125</td>
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There are 6 discrepancies between the modelled and reference sequences:

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<tr>
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<tr>
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<td>INSERTION</td>
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<tr>
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<td>UNP Q5SHN3</td>
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• Molecule 13 is a protein called 30S ribosomal protein S13.

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<th>Trace</th>
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<tr>
<td>13</td>
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<td>Total 921 C 569 N 190 O 160 S 2</td>
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<tr>
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<td>Total 921 C 569 N 190 O 160 S 2</td>
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• Molecule 14 is a protein called 30S ribosomal protein S14.
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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>14</td>
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<td>60</td>
<td>Total C 492 N 312 O 104 S 72</td>
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<td>0</td>
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<tr>
<td>14</td>
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- Molecule 15 is a protein called 30S ribosomal protein S15.

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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>15</td>
<td>AO</td>
<td>88</td>
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<td>0</td>
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<tr>
<td>15</td>
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- Molecule 16 is a protein called 30S ribosomal protein S16.

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<th>AltConf</th>
<th>Trace</th>
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<td>16</td>
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<td>84</td>
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<tr>
<td>16</td>
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- Molecule 17 is a protein called 30S ribosomal protein S17.

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<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>AQ</td>
<td>100</td>
<td>Total C 824 N 528 O 152 S 142</td>
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<td>Total C 824 N 528 O 152 S 142</td>
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- Molecule 18 is a protein called 30S ribosomal protein S18.

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<td>0</td>
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<tr>
<td>18</td>
<td>CR</td>
<td>70</td>
<td>Total C 574 N 367 O 112 S 95</td>
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- Molecule 19 is a protein called 30S ribosomal protein S19.

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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
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<tbody>
<tr>
<td>19</td>
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<td>Total C 630 N 403 O 115 S 110</td>
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</table>

*Continued on next page...*
Molecule 20 is a protein called 30S ribosomal protein S20.

<table>
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<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>162</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>129</td>
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Molecule 21 is a protein called 30S ribosomal protein Thx.

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<tr>
<td></td>
<td></td>
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<td>N</td>
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<td>0</td>
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<tr>
<td></td>
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<td></td>
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Molecule 22 is a protein called 50S ribosomal protein L27.

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<td></td>
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<td></td>
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Molecule 23 is a protein called 50S ribosomal protein L28.

<table>
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Molecule 24 is a protein called 50S ribosomal protein L29.

<table>
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<td>O</td>
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<td>0</td>
<td>0</td>
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<td>S</td>
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• Molecule 25 is a protein called 50S ribosomal protein L30.

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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>25</td>
<td>B3</td>
<td>60</td>
<td>Total C N O S</td>
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<td>0</td>
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<tr>
<td>25</td>
<td>D3</td>
<td>60</td>
<td>Total C N O S</td>
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<td>0</td>
<td>1</td>
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</tbody>
</table>

• Molecule 26 is a protein called 50S ribosomal protein L31.

<table>
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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>B4</td>
<td>32</td>
<td>Total C N O</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>26</td>
<td>D4</td>
<td>32</td>
<td>Total C N O</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</table>

• Molecule 27 is a protein called 50S ribosomal protein L32.

<table>
<thead>
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<th>Mol</th>
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<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>B5</td>
<td>59</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>27</td>
<td>D5</td>
<td>59</td>
<td>Total C N O S</td>
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<td>0</td>
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• Molecule 28 is a protein called 50S ribosomal protein L33.

<table>
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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>28</td>
<td>B6</td>
<td>45</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>D6</td>
<td>45</td>
<td>Total C N O S</td>
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<td>1</td>
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</table>

• Molecule 29 is a protein called 50S ribosomal protein L34.

<table>
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<th>Mol</th>
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<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>B7</td>
<td>49</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>D7</td>
<td>49</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>1</td>
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</tbody>
</table>

• Molecule 30 is a protein called 50S ribosomal protein L35.
Molecule 31 is a RNA chain called 23S ribosomal RNA.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>30</td>
<td>B8</td>
<td>64</td>
<td>Total C N O S 508 326 102 78 2</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>D8</td>
<td>64</td>
<td>Total C N O S 508 326 102 78 2</td>
<td>0</td>
<td>0</td>
<td>1</td>
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</table>

Molecule 32 is a RNA chain called 5S ribosomal RNA.

<table>
<thead>
<tr>
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<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>BA</td>
<td>2725</td>
<td>Total C N O P 58698 26124 10986 18864 2724</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>31</td>
<td>DA</td>
<td>2725</td>
<td>Total C N O P 58698 26124 10986 18864 2724</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</table>

Molecule 33 is a protein called 50S ribosomal protein L2.

<table>
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<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>BD</td>
<td>272</td>
<td>Total C N O S 2105 1329 417 356 3</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>33</td>
<td>DD</td>
<td>272</td>
<td>Total C N O S 2105 1329 417 356 3</td>
<td>0</td>
<td>0</td>
<td>1</td>
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</table>

Molecule 34 is a protein called 50S ribosomal protein L3.

<table>
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<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>BE</td>
<td>205</td>
<td>Total C N O S 1564 988 300 270 6</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>34</td>
<td>DE</td>
<td>205</td>
<td>Total C N O S 1564 988 300 270 6</td>
<td>0</td>
<td>0</td>
<td>1</td>
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</table>

Molecule 35 is a protein called 50S ribosomal protein L4.

<table>
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<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>BF</td>
<td>208</td>
<td>Total C N O S 1624 1035 304 282 3</td>
<td>0</td>
<td>0</td>
<td>1</td>
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Continued from previous page...

<table>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>35</td>
<td>DF</td>
<td>208</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1624 1035 304 282</td>
<td></td>
<td></td>
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- Molecule 36 is a protein called 50S ribosomal protein L5.

<table>
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<tr>
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<th>Atoms</th>
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<th>AltConf</th>
<th>Trace</th>
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<tbody>
<tr>
<td>36</td>
<td>BG</td>
<td>181</td>
<td>Total C N O S</td>
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<td>0</td>
<td>0</td>
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<td></td>
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<td></td>
<td>1474 942 268 260</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>DG</td>
<td>181</td>
<td>Total C N O S</td>
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<td></td>
<td>1474 942 268 260</td>
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- Molecule 37 is a protein called 50S ribosomal protein L6.

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<th>Atoms</th>
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<tbody>
<tr>
<td>37</td>
<td>BH</td>
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<td></td>
<td></td>
<td></td>
<td>1223 773 229 220</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>DH</td>
<td>160</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
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<td></td>
<td>1223 773 229 220</td>
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- Molecule 38 is a protein called 50S ribosomal protein L9.

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<th>Atoms</th>
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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>38</td>
<td>BI</td>
<td>146</td>
<td>Total C N O S</td>
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<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1132 723 201 207</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>38</td>
<td>DI</td>
<td>146</td>
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<td></td>
<td>1132 723 201 207</td>
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- Molecule 39 is a protein called 50S ribosomal protein L13.

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<th>Atoms</th>
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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>39</td>
<td>BN</td>
<td>139</td>
<td>Total C N O S</td>
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<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1105 712 207 182</td>
<td></td>
<td></td>
<td></td>
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<td>DN</td>
<td>139</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1105 712 207 182</td>
<td></td>
<td></td>
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- Molecule 40 is a protein called 50S ribosomal protein L14.
- Molecule 41 is a protein called 50S ribosomal protein L15.

<table>
<thead>
<tr>
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<th>AltConf</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1114 692 227 193 2</td>
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<td>0</td>
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- Molecule 42 is a protein called 50S ribosomal protein L16.

<table>
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<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>BQ</td>
<td>136</td>
<td>Total C N O S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1080 688 204 183 5</td>
<td>0</td>
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<td>0</td>
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</table>

- Molecule 43 is a protein called 50S ribosomal protein L17.

<table>
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<tr>
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<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>BR</td>
<td>117</td>
<td>Total C N O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>960 599 202 159</td>
<td>0</td>
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<td>0</td>
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</table>

- Molecule 44 is a protein called 50S ribosomal protein L18.

<table>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>44</td>
<td>BS</td>
<td>99</td>
<td>Total C N O</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>771 486 155 130</td>
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<td>1</td>
</tr>
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</table>

- Molecule 45 is a protein called 50S ribosomal protein L19.

<table>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>BT</td>
<td>132</td>
<td>Total C N O S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1100 686 227 186 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 46 is a protein called 50S ribosomal protein L20.
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
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- Molecule 47 is a protein called 50S ribosomal protein L21.

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- Molecule 48 is a protein called 50S ribosomal protein L22.

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- Molecule 49 is a protein called 50S ribosomal protein L23.

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- Molecule 50 is a protein called 50S ribosomal protein L24.

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- Molecule 51 is a protein called 50S ribosomal protein L25.
- Molecule 52 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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- Molecule 53 is ZINC ION (three-letter code: ZN) (formula: Zn).

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- Molecule 54 is POTASSIUM ION (three-letter code: K) (formula: K).

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- Molecule 55 is CHLORAMPHENICOL (three-letter code: CLM) (formula: C₁₁H₁₂Cl₂N₂O₅).
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</table>
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-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. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 16S rRNA

Chain AA:

---

---
• Molecule 1: 16S rRNA

<table>
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<td>22%</td>
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<tr>
<td>60%</td>
</tr>
<tr>
<td>16%</td>
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</table>
- Molecule 2: 30S ribosomal protein S2

Chain AB:
• Molecule 2: 30S ribosomal protein S2

Chain CB:

- Molecule 3: 30S ribosomal protein S3

Chain AC:

- Molecule 3: 30S ribosomal protein S3

Chain CC:
• Molecule 4: 30S ribosomal protein S4

Chain AD:

• Molecule 4: 30S ribosomal protein S4

Chain CD:

• Molecule 5: 30S ribosomal protein S5

Chain AE:
• Molecule 5: 30S ribosomal protein S5

Molecule 6: 30S ribosomal protein S6

• Molecule 6: 30S ribosomal protein S6

• Molecule 7: 30S ribosomal protein S7
• Molecule 7: 30S ribosomal protein S7

Chain CG:

37% 51% 47%

• Molecule 8: 30S ribosomal protein S8

Chain AH:

40% 43% 17%

• Molecule 9: 30S ribosomal protein S9

Chain AI:

48% 50% 9%
- Molecule 9: 30S ribosomal protein S9

Chain CI:

- Molecule 10: 30S ribosomal protein S10

Chain AJ:

- Molecule 10: 30S ribosomal protein S10

Chain CJ:

- Molecule 11: 30S ribosomal protein S11

Chain AK:
• Molecule 11: 30S ribosomal protein S11

Chain CK:

• Molecule 12: 30S ribosomal protein S12

Chain AL:

• Molecule 12: 30S ribosomal protein S12

Chain CL:

• Molecule 13: 30S ribosomal protein S13

Chain AM:
- Molecule 13: 30S ribosomal protein S13

- Molecule 14: 30S ribosomal protein S14

- Molecule 14: 30S ribosomal protein S14

- Molecule 15: 30S ribosomal protein S15

- Molecule 15: 30S ribosomal protein S15

- Molecule 16: 30S ribosomal protein S16
Chain AP:

- Molecule 16: 30S ribosomal protein S16

Chain CP:

- Molecule 17: 30S ribosomal protein S17

Chain AQ:

- Molecule 17: 30S ribosomal protein S17

Chain CQ:

- Molecule 18: 30S ribosomal protein S18

Chain AR:
- **Molecule 18: 30S ribosomal protein S18**

  Chain CR:

- **Molecule 19: 30S ribosomal protein S19**

  Chain AS:

- **Molecule 19: 30S ribosomal protein S19**

  Chain CS:

- **Molecule 20: 30S ribosomal protein S20**

  Chain AT:

- **Molecule 20: 30S ribosomal protein S20**

  Chain CT:
Molecule 21: 30S ribosomal protein Thx
Chain AU:

Molecule 21: 30S ribosomal protein Thx
Chain CU:

Molecule 22: 50S ribosomal protein L27
Chain B0:

Molecule 22: 50S ribosomal protein L27
Chain D0:

Molecule 23: 50S ribosomal protein L28
Chain B1:
- Molecule 23: 50S ribosomal protein L28

Chain D1:

- Molecule 24: 50S ribosomal protein L29

Chain B2:

- Molecule 24: 50S ribosomal protein L29

Chain D2:

- Molecule 25: 50S ribosomal protein L30

Chain B3:

- Molecule 25: 50S ribosomal protein L30

Chain D3:
• Molecule 26: 50S ribosomal protein L31

Chain B4:

• Molecule 26: 50S ribosomal protein L31

Chain D4:

• Molecule 27: 50S ribosomal protein L32

Chain B5:

• Molecule 27: 50S ribosomal protein L32

Chain D5:

• Molecule 28: 50S ribosomal protein L33

Chain B6:

• Molecule 28: 50S ribosomal protein L33

Chain D6:

• Molecule 29: 50S ribosomal protein L34
Chain B7:

- Molecule 29: 50S ribosomal protein L34

Chain D7:

- Molecule 30: 50S ribosomal protein L35

Chain B8:

- Molecule 30: 50S ribosomal protein L35

Chain D8:

- Molecule 31: 23S ribosomal RNA
Molecule 31: 23S ribosomal RNA
• Molecule 32: 5S ribosomal RNA

Chain BB:

• Molecule 32: 5S ribosomal RNA

Chain DB:

• Molecule 33: 50S ribosomal protein L2

Chain BD:

• Molecule 33: 50S ribosomal protein L2

Chain DD:
• Molecule 34: 50S ribosomal protein L3

Chain BE:

• Molecule 34: 50S ribosomal protein L3

Chain DE:

• Molecule 35: 50S ribosomal protein L4

Chain BF:
- Molecule 35: 50S ribosomal protein L4

Chain DF:

- Molecule 36: 50S ribosomal protein L5

Chain BG:

- Molecule 36: 50S ribosomal protein L5

Chain DG:
- Molecule 37: 50S ribosomal protein L6

Chain BH:

- Molecule 37: 50S ribosomal protein L6

Chain DH:

- Molecule 38: 50S ribosomal protein L9

Chain BI:

- Molecule 38: 50S ribosomal protein L9

Chain DI:
• Molecule 39: 50S ribosomal protein L13

Chain BN:

• Molecule 39: 50S ribosomal protein L13

Chain DN:

• Molecule 40: 50S ribosomal protein L14

Chain BO:
• Molecule 42: 50S ribosomal protein L16

Chain DQ:

• Molecule 43: 50S ribosomal protein L17

Chain BR:

• Molecule 43: 50S ribosomal protein L17

Chain DR:

• Molecule 44: 50S ribosomal protein L18

Chain BS:
Molecule 45: 50S ribosomal protein L19

Chain DS:

Chain BT:

Molecule 45: 50S ribosomal protein L19

Chain DT:

Molecule 46: 50S ribosomal protein L20

Chain BU:

Molecule 46: 50S ribosomal protein L20
• Molecule 49: 50S ribosomal protein L23

Chain BX:

• Molecule 49: 50S ribosomal protein L23

Chain DX:

• Molecule 50: 50S ribosomal protein L24

Chain BY:

• Molecule 50: 50S ribosomal protein L24

Chain DY:

• Molecule 51: 50S ribosomal protein L25

Chain BZ:
Molecule 51: 50S ribosomal protein L25

Chain DZ:
4 Data and refinement statistics

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<td>Average B, all atoms (Å^2)</td>
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Xtriage’s analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 1.66% of the height of the origin peak. No significant pseudotranslation is detected.

---

^1 Intensities estimated from amplitudes.

^2 Theoretical values of < |L| >, < L^2 > for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.
5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: K, CLM, MG, ZN

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 root-mean-square of all Z scores of the bond lengths (or angles).

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<td>All</td>
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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.
Continued from previous page...

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<th>#Planarity outliers</th>
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All (124) bond length outliers are listed below:

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<th>Type</th>
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<th>Ideal(Å)</th>
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31 | BA  | 1266 | G   | C4-C5-N7 | 5.57  | 113.03 | 110.80
47 | BV  | 40   | LEU | C4-C5-N7 | 5.57  | 131.45 | 119.70
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5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

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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 41.

All (18994) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.
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## Full wwPDB X-ray Structure Validation Report

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### Interatomic Distance and Clash Overlap Table

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### Interatomic distance (Å) and Clash overlap (Å)

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### Full wwPDB X-ray Structure Validation Report

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### Interatomic Distance and Clash Overlap

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### Interatomic Distances and Overlap

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1:AA:59:A:H3' | 1:AA:331:G:H2' | 1.61 | 0.66
8:AH:58:TYR:O | 8:AH:59:LEU:HD23 | 1.96 | 0.66
11:AK:127:LYS:HE2 | 11:AK:127:LYS:CA | 2.25 | 0.66
31:BA:1281:G:C8 | 31:BA:1281:G:H5' | 2.25 | 0.66
31:BA:175:G:H8 | 31:BA:175:G:C5' | 2.08 | 0.66
31:BA:1839:G:N7 | 31:BA:1927:A:HI' | 2.10 | 0.66
31:BA:2286:A:O2' | 31:BA:2286:A:C8 | 2.49 | 0.66
31:BA:251:A:H5'' | 41:BP:51:PHE:CZ | 2.30 | 0.66
31:BA:309:G:H4' | 50:BY:18:GLY:HA3 | 1.77 | 0.66
31:BA:34:C:N4 | 31:BA:455:C:H5' | 2.11 | 0.66
31:BA:624:C:C2' | 31:BA:625:G:H5' | 2.26 | 0.66
22:B0:26:TYR:HE2 | 31:BA:857:C:H1' | 1.57 | 0.66
38:BI:54:GLN:HG2 | 38:BI:57:ARG:HH22 | 1.61 | 0.66
31:BA:661:C:H4' | 41:BP:16:ARG:NH1 | 2.10 | 0.66
1:CA:41:G:H2' | 1:CA:379:C:H1' | 1.96 | 0.66
1:CA:62:U:O2' | 1:CA:379:C:H1' | 1.96 | 0.66
1:CA:41:G:H2' | 1:CA:42:G:C8 | 2.31 | 0.66
1:CA:632:A:C8 | 1:CA:633:G:C8 | 2.84 | 0.66
2:CB:74:LYS:NZ | 2:CB:76:GLN:HB2 | 2.10 | 0.66
5:CE:68:GLU:O | 5:CE:68:GLU:HG3 | 1.95 | 0.66
1:CA:750:G:N3 | 15:CO:23:GLY:HA3 | 2.11 | 0.66
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30:D8:6cTHR:CG2 | 31:DA:243:U:OP1 | 2.44 | 0.66
31:DA:1579:A:H2' | 31:DA:1580:A:C8 | 2.31 | 0.66
31:DA:786:C:HE2 | 31:DA:787:U:H5' | 1.77 | 0.66
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45:DT:82:LEU:HD12 | 45:DT:82:LEU:N | 2.11 | 0.66

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### Table 1: Interatomic Distance and Clash Overlap

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27:D5:29:THR:HG21 | 31:DA:2815:C:H5′ | 1.81 | 0.63
30:D8:51:ALA:N | 30:D8:53:PRO:HD2 | 2.14 | 0.63
31:DA:1902:C:H1′ | 33:DD:24:ARG:HD3 | 1.81 | 0.63
31:DA:2405:G:O2′ | 31:DA:2406:U:P | 2.56 | 0.63
31:DA:271(E):U:H2′ | 31:DA:271(F):C:C6 | 2.34 | 0.63
31:DA:2807:G:C2 | 31:DA:2808:U:H1′ | 2.34 | 0.63
34:DE:52:LEU:HB3 | 34:DE:75:VAL:HG23 | 1.80 | 0.63
50:DY:8:LYS:NZ | 50:DY:74:PRO:HD3 | 2.13 | 0.63
1:AA:590:C:H2′ | 1:AA:591:U:H6 | 2.67 | 0.63
1:AA:617:G:N1 | 1:AA:618:C:C4 | 2.67 | 0.63
2:AB:204:ASN:HD22 | 2:AB:206:ASP:H | 1.46 | 0.63
2:AB:22:LYS:NZ | 2:AB:40:HIS:HE1 | 1.96 | 0.63
11:AK:121:PRO:HD2 | 11:AK:126:ARG:HG3 | 1.80 | 0.63
31:BA:1488:G:C6 | 31:BA:1489:U:N3 | 2.66 | 0.63
31:BA:1493:C:H4′ | 31:BA:1494:A:OP1 | 1.99 | 0.63
31:BA:1528(A):A:C5 | 31:BA:1529:G:H8 | 2.17 | 0.63
31:BA:1652:A:C2′ | 31:BA:1653:G:H5′ | 2.29 | 0.63
31:BA:1771:C:H1′ | 31:BA:1786:A:C8 | 2.33 | 0.63
30:BB:35:GLN:HA | 31:BA:2420:C:OP2 | 1.98 | 0.63
31:BA:879:G:H1 | 31:BA:898:C:H42 | 1.46 | 0.63
46:BU:104:GLN:CD | 46:BU:104:GLN:H | 2.01 | 0.63
1:CA:1277:C:H2′ | 1:CA:1278:U:H5′ | 1.80 | 0.63
1:CA:1337:G:H5″ | 1:CA:1338:G:OP1 | 1.99 | 0.63
1:CA:617:G:C6 | 1:CA:618:C:C5 | 2.86 | 0.63
3:CC:100:ALA:O | 3:CC:101:LEU:HB2 | 1.98 | 0.63
3:CC:58:GLU:H | 3:CC:65:ALA:HB3 | 1.64 | 0.63
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## Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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31:BA:548:A:O2' | 31:BA:549:G:OP1 | 2.16 | 0.62
38:BL:37:VAL:HG12 | 38:BL:38:LEU:N | 2.13 | 0.62
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1:CA:447:G:H2' | 1:CA:485:G:N2 | 2.15 | 0.62
1:CA:450:G:H5'' | 16:CP:41:PRO:O | 2.00 | 0.62
23:DI:26:ARG:CG | 23:DI:34:THR:HB | 2.30 | 0.62
31:DA:912:C:C2 | 31:DA:913:U:C5 | 2.88 | 0.62
31:DA:1190:G:H5' | 41:DP:35:HIS:HA | 1.80 | 0.62
47:DV:1:MET:HE1 | 47:DV:44:LYS:H | 1.65 | 0.62
49:DX:33:LYS:CA | 49:DX:35:THR:HG22 | 2.30 | 0.62
1:AA:509:A:O2' | 1:AA:510:A:O5' | 2.18 | 0.62
7:AG:150:ALA:HB2 | 11:AK:50:TYR:CZ | 2.35 | 0.62
31:BA:1478:G:C2' | 31:BA:1479:G:H5' | 2.29 | 0.62
31:BA:2092:U:H4' | 31:BA:2093:G:O5' | 2.00 | 0.62
31:BA:69:C:O2' | 31:BA:70:G:H5' | 1.99 | 0.62
1:CA:165:C:H2' | 1:CA:166:G:C8 | 2.35 | 0.62

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### Interatomic distance (Å)

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**Interatomic distance (Å) and Clash overlap (Å)**

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### Table: Interatomic Distances and Clash Overlaps

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## Interatomic distance (Å)

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## Atom-1  Atom-2  Interatomic distance (Å)  Clash overlap (Å)

| 2:AB:8:LYS:HZ3 | 2:AB:217:ARG:HH11 | 1.53 | 0.57 |
| 17:AQ:3:LYS:HD2 | 17:AQ:60:ILE:HD11 | 1.85 | 0.57 |
| 17:AQ:63:ARG:HG2 | 17:AQ:64:PRO:HD2 | 1.87 | 0.57 |
| 27:B5:52:TYR:HD2 | 27:B5:52:TYR:H | 1.50 | 0.57 |
| 30:B8:32:LEU:HD23 | 30:B8:35:GLN:HA | 1.87 | 0.57 |
| 31:BA:1478:G:O2' | 31:BA:1479:G:H5' | 2.05 | 0.57 |
| 31:BA:1657:C:H5 | 34:BE:133:LYS:O | 2.03 | 0.57 |
| 31:BA:271(M):G:N7 | 31:BA:271(O):C:N4 | 2.52 | 0.57 |
| 31:BA:588:U:H6 | 31:BA:588:U:OP2 | 1.87 | 0.57 |
| 31:BA:729:G:C5 | 33:BD:208:LYS:HB2 | 2.40 | 0.57 |
| 33:BD:211:ARG:O | 33:BD:215:LEU:HG | 2.05 | 0.57 |
| 41:BP:16:ARG:CD | 41:BP:18:ARG:HB2 | 2.35 | 0.57 |
| 41:BP:16:ARG:NE | 41:BP:18:ARG:HB2 | 2.19 | 0.57 |
| 44:BS:24:LEU:HD3 | 44:BS:85:VAL:HG13 | 1.86 | 0.57 |
| 47:BV:18:LEU:HD12 | 47:BV:98:GLU:OE1 | 2.05 | 0.57 |
| 1:CA:373:A:N3 | 1:CA:374:A:C8 | 2.73 | 0.57 |
| 7:CG:15:ASP:HB3 | 7:CG:19:GLY:N | 2.20 | 0.57 |
| 8:CH:77:GLU:HG3 | 8:CH:78:GLN:N | 2.20 | 0.57 |
| 20:CT:97:ALA:O | 20:CT:99:LEU:N | 2.31 | 0.57 |
| 31:DA:146:G:H8 | 31:DA:146:G:C5' | 2.17 | 0.57 |
| 32:DB:94:C:C2 | 32:DB:95:C:C5 | 2.92 | 0.57 |
| 35:DF:84:VAL:O | 35:DF:85:GLY:C | 2.43 | 0.57 |
| 31:DA:1140:C:O3' | 39:DN:25:ARG:NH1 | 2.38 | 0.57 |
| 41:DP:140:ALA:O | 41:DP:141:ALA:CB | 2.52 | 0.57 |

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### Interatomic distance and Clash overlap

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### Interatomic distance (Å)

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### Table: Interatomic distance and Clash overlap

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### Interatomic Distance (Å) and Clash Overlap (Å)

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### Interatomic distance (Å) and Clash overlap (Å)

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### Interatomic Distances and Clash Overlaps

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### Interatomic distance (Å) and Clash overlap (Å)

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### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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14:AN:54:PRO:O | 14:AN:56:VAL:HG23 | 2.11 | 0.49
27:BF:36:CYC:CB | 27:BF:49:CYC:SG | 3.00 | 0.49
30:BR:35:GLN:HE21 | 30:BR:36:LYS:CG | 2.25 | 0.49
31:BA:1142(A):A:C4 | 31:BA:1144:G:C8 | 3.00 | 0.49
31:BA:128:C:H2' | 31:BA:129:C:O4' | 2.12 | 0.49
31:BA:1303:G:H1' | 31:BA:1641:A:N1 | 2.27 | 0.49
31:BA:1527:G:C5' | 31:BA:1528:A:OP1 | 2.60 | 0.49
28:BU:46:HIS:ND1 | 31:BA:2371:G:O2' | 2.42 | 0.49
31:BA:2531:U:C2 | 31:BA:2658:O:O2 | 2.60 | 0.49
31:BA:2580:U:H4' | 34:BE:130:GLY:CA | 2.41 | 0.49
31:BA:2631:G:C6 | 31:BA:2632:AN7 | 2.80 | 0.49
31:BA:2762:G:C2' | 31:BA:2763:G:H5' | 2.42 | 0.49
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### Atom-1

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### Interatomic distance (Å) and Clash overlap (Å)

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### Interatomic distance (Å)

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### Interatomic distance (Å)

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### Interatomic distances and clash overlap

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31:BA:21:A:O2'  |  31:BA:22:C:H5'  |  2.17  |  0.45  
31:BA:827:U:O2  |  31:BA:2246:G:H4'  |  2.16  |  0.45  
31:BA:2314:C:O2  |  31:BA:2315:G:C8  |  2.70  |  0.45  
31:BA:2648:C:H2'  |  31:BA:2649:U:C6  |  2.51  |  0.45  
31:BA:2670:A:C2  |  31:BA:2671:A:C4  |  3.04  |  0.45  
31:BA:2863:C:H5'  |  31:BA:2863:C:H6  |  1.82  |  0.45  
31:BA:286:C:H42  |  31:BA:355:G:H1  |  1.64  |  0.45  
31:BA:86:C:O2'  |  31:BA:87:C:H5'  |  2.16  |  0.45  
31:BA:94:C:C5'  |  31:BA:94(A):G:OP2  |  2.62  |  0.45  
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34:BE:181:LEU:HD11  |  45:BT:7:ILE:CG2  |  2.46  |  0.45  
35:BF:83:PHE:O  |  35:BF:84:VAL:CG2  |  2.65  |  0.45  
36:BG:139:LEU:C  |  36:BG:141:PHE:H  |  2.20  |  0.45  
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31:DA:1157:G:C4  |  31:DA:1158:C:C5  |  3.05  |  0.45  
31:DA:142:A:H8  |  31:DA:1595:G:N2  |  2.12  |  0.45  

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### Interatomic Distance and Clash Overlap

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## Interatomic distance (Å) and Clash overlap (Å)

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### Atom-1

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8:AH:86:ILE:HG12 | 8:AH:135:CYS:HA  | 2.00  | 0.42  
8:AH:8:ASP:O  | 8:AH:9:MET:C  | 2.56  | 0.42  
27:B5:32:PRO:O  | 27:B5:38:ALA:O  | 2.36  | 0.42  
27:B5:47:PRO:C  | 27:B5:48:GLU:OE2 | 2.58  | 0.42  
31:BA:1319:G:C6 | 31:BA:1320:C:N4  | 2.87  | 0.42  
31:BA:1705:G:C5 | 31:BA:1706:U:C4  | 3.07  | 0.42  
31:BA:1783:A:C2 | 31:BA:2587:A:C5  | 3.07  | 0.42  
31:BA:205:G:O2′ | 31:BA:206:U:OP2  | 2.38  | 0.42  
31:BA:2208:A:H1′ | 31:BA:2219:G:C6  | 2.54  | 0.42  
31:BA:2570:G:H2′ | 31:BA:2571:C:O4′ | 2.19  | 0.42  
31:BA:2762:G:H5′ | 31:BA:2762:G:C8  | 2.48  | 0.42  
31:BA:323:G:HG1′ | 31:BA:1205:U:O2  | 2.19  | 0.42  
31:BA:459:U:O2′ | 31:BA:460:A:H5′  | 2.19  | 0.42  
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35:BF:117:ARG:HG2 | 35:BF:192:LEU:HB2 | 2.01  | 0.42  
37:BH:30:LYS:HG2 | 37:BH:79:VAL:O  | 2.19  | 0.42  
30:BS:7:HIS:CD2 | 41:BP:50:ARG:HD3 | 2.54  | 0.42  
44:BS:13:ARG:H  | 44:BS:13:ARG:HG2 | 1.47  | 0.42  
44:BS:17:ARG:O  | 44:BS:18:ILE:HB | 2.20  | 0.42  
45:BT:65:LYS:CG | 45:BT:66:VAL:N  | 2.82  | 0.42  
45:BT:67:SER:N | 45:BT:70:VAL:O  | 2.53  | 0.42  
46:BU:29:SER:C  | 46:BU:30:LYS:HD3 | 2.39  | 0.42  
50:BY:8:LYS:HE3 | 50:BY:72:VAL:HG23 | 1.94  | 0.42  
1:CA:1068:G:N7 | 1:CA:1094:G:C8 | 2.87  | 0.42  
1:CA:1107:C:C4 | 1:CA:1108:G:C8 | 3.08  | 0.42  
1:CA:1362:C:O2′ | 1:CA:1363:C:H5″ | 2.19  | 0.42  
1:CA:973:G:N3 | 10:CI:55:LYS:HE2 | 2.35  | 0.42  
3:CC:35:GLU:HA | 3:CC:38:ARG:HG2 | 2.00  | 0.42  
4:CD:79:PHE:CD1 | 4:CD:207:TYR:CD1 | 3.08  | 0.42  
7:CG:78:ARG:HB3 | 7:CG:87:VAL:HG23 | 2.00  | 0.42  

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33:DD:45:ASN:OD1 | 33:DD:45:ASN:C | 2.58 | 0.42
33:DE:4:IILE:HD13 | 34:DE:28:ALA:HB1 | 2.01 | 0.42
35:DF:177:ALA:HB1 | 35:DF:178:PRO:HD2 | 2.02 | 0.42
41:DP:146:VAL:HG22 | 41:DP:147:LEU:N | 2.19 | 0.42
41:DP:51:PHE:HB3 | 41:DP:52:GLU:CD | 2.38 | 0.42
41:DP:8:PRO:O | 41:DP:9:ASN:C | 2.58 | 0.42
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1:AA:374:A:C6 | 1:AA:375:U:C4 | 3.08 | 0.42
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9:AI:82:ALA:HB1 | 9:AI:96:LEU:HD13 | 2.00 | 0.42
15:AO:5:LYS:O | 15:AO:9:GLN:HG2 | 2.20 | 0.42
1:AA:376:G:O3' | 16:AP:5:ARG:HD2 | 2.19 | 0.42
17:AQ:48:GLU:O | 17:AQ:50:LYS:N | 2.53 | 0.42
21:AU:2:GLY:C | 21:AU:4:GLY:H | 2.21 | 0.42

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### Interatomic distances and overlaps

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### Atom-1

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47:DV:71:LEU:C  
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1:AA:1084:G:OP1  
1:AA:1126:U:H3'  
1:AA:1366:C:H2'  
1:AA:177:C:O2'  
1:AA:2153:ARG:O  
3:AC:165:THR:O  
5:AE:31:LEU:HA  
8:AH:25:ASP:OD2  
8:AH:28:ALA:CB  
8:AH:58:TYR:HD1  
9:AI:5:ARG:HA  
17:AQ:14:LYS:HZ2  
20:AT:63:ILE:HD22  
24:B2:44:LEU:C'  
31:BA:1485:G:H1'  
31:BA:1570:A:H2'  
31:BA:2046:G:H2'  
31:BA:2074:U:H2'  
28:BG:27:LYS:HD2  
31:BA:2323:G:H2'  
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31:BA:2766:G:N3  
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### Atom-2

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47:DV:71:LEU:HD22  
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1:AA:1086:U:N3  
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1:AA:1367:C:C6  
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1:AA:254:G:C8  
1:AA:413:G:H5'  
4:AD:125:HIS:HE2  
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2:AB:185:ILE:HG13  
3:AC:165:THR:HG23  
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31:BA:1571:A:C8  
31:BA:2047:U:H6  
31:BA:2075:U:C6  
31:BA:2285:C:C5  
31:BA:234:C:O4'  
31:BA:2435:A:O4'  
31:BA:2766:G:H2'  
31:BA:281:G:H5'  

### Interatomic distance (Å)

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2.35  
3.08  
2.53  
2.20  
1.84  
2.54  
2.20  
1.83  
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2.01  
2.49  
2.19  
2.58  
2.48  
2.19  
2.20  
2.17  
2.01  
2.73  
2.35  
2.55  
1.84  
2.54  
2.55  
2.20  
2.20  
2.34  
2.01  

### Clash overlap (Å)

0.42  
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0.42  
0.42  
0.42  
0.42  
0.42  
0.42  
0.42  
0.42  
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### Interatomic Distance and Clash Overlap Table

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## Atom-1

### Interatomic distance (Å) and Clash overlap (Å)

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### Interatomic distance (Å) and Clash overlap (Å)

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### Interatomic distance (Å) and Clash overlap (Å)

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### Atom-1 vs Atom-2 Interatomic Distance and Clash Overlap

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There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
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<td>155 (66%)</td>
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### Mol Chain Analysed Favoured Allowed Outliers Percentiles

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5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

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</tbody>
</table>

*Continued on next page...*
### 5.4 Non-standard residues in protein, DNA, RNA chains

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

### 5.5 Carbohydrates

There are no carbohydrates in this entry.

### 5.6 Ligand geometry

Of 853 ligands modelled in this entry, 851 are monoatomic - leaving 2 for Mogul analysis.
In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or 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 length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Counts</td>
<td>RMSZ</td>
</tr>
<tr>
<td>55</td>
<td>CLM</td>
<td>DA</td>
<td>3334</td>
<td>54</td>
<td>19,20,20</td>
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</tr>
<tr>
<td>55</td>
<td>CLM</td>
<td>BA</td>
<td>3370</td>
<td>54</td>
<td>19,20,20</td>
<td>1.22</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>
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<td>0/20/22/22</td>
<td>0/1/1/1</td>
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<td>BA</td>
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<td>54</td>
<td>-</td>
<td>0/20/22/22</td>
<td>0/1/1/1</td>
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</table>

All (2) bond length outliers are listed below:

<table>
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<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>
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</thead>
<tbody>
<tr>
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<td>3334</td>
<td>CLM</td>
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<td>1.45</td>
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<td>BA</td>
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<td>CLM</td>
<td>C9-N9</td>
<td>-4.26</td>
<td>1.34</td>
<td>1.45</td>
</tr>
</tbody>
</table>

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

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight $> 250$ and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.
5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

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<td>36</td>
<td>DG</td>
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<tr>
<td>36</td>
<td>BG</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>AI</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>CI</td>
<td>1</td>
</tr>
<tr>
<td>47</td>
<td>BV</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
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<td>1</td>
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</table>

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

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<th>Chain</th>
<th>Number of breaks</th>
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<tr>
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All chain breaks are listed below:

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<th>Atom-1</th>
<th>Residue-2</th>
<th>Atom-2</th>
<th>Distance (Å)</th>
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<td>C</td>
<td>70:LEU</td>
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<td>BG</td>
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<td>C</td>
<td>113:ARG</td>
<td>N</td>
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<tr>
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<td>112:PRO</td>
<td>C</td>
<td>113:ARG</td>
<td>N</td>
<td>4.53</td>
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<td>C</td>
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### 6 Fit of model and data

#### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#/RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95\textsuperscript{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

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<th>Analysed</th>
<th>&lt;RSRZ&gt;</th>
<th>#RSRZ &gt; 2</th>
<th>OWAB (Å\textsuperscript{2})</th>
<th>Q &lt; 0.9</th>
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<td>AA</td>
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<td>1.11</td>
<td>291 (19%)</td>
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<tr>
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<td>CA</td>
<td>1504/1522  (98%)</td>
<td>0.93</td>
<td>239 (15%)</td>
<td>46, 105, 198, 201</td>
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<tr>
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<td>AB</td>
<td>235/256    (91%)</td>
<td>0.71</td>
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<td>CB</td>
<td>235/256    (91%)</td>
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<td>51 (21%)</td>
<td>84, 149, 187, 196</td>
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<td>AC</td>
<td>207/239    (86%)</td>
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<tr>
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<td>208/209    (99%)</td>
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<td>151/162    (93%)</td>
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6.2 Non-standard residues in protein, DNA, RNA chains

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

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

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<td>BA</td>
<td>3133</td>
<td>1/1</td>
<td>0.99</td>
<td>0.31</td>
<td>25,25,25,25</td>
<td>0</td>
</tr>
</tbody>
</table>
instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.
Electron density around CLM BA 3370:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]

6.5 Other polymers

There are no such residues in this entry.