Full wwPDB EM Validation Report

Dec 6, 2020 – 09:48 am GMT

PDB ID : 6T83
EMDB ID : EMD-10398
Title : Structure of yeast disome (di-ribosome) stalled on poly(A) tract.
Authors : Tesina, P.; Buschauer, R.; Cheng, J.; Berninghausen, O.; Becker, R.; Beckmann, R.
Deposited on : 2019-10-24
Resolution : 4.00 Å (reported)

This is a Full wwPDB EM 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:

- EMDB validation analysis : 0.0.0.dev61
- MolProbity : 4.02b-467
- Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
- Ideal geometry (proteins) : Engh & Huber (2001)
- Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
- Validation Pipeline (wwPDB-VP) : 2.15.1
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**ELECTRON MICROSCOPY**

The reported resolution of this entry is 4.00 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.

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The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

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<td>88</td>
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<td>106</td>
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<td>97%</td>
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<tr>
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<tr>
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<td>79</td>
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<td>76</td>
<td>75% 25%</td>
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Continued from previous page...

<table>
<thead>
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2 Entry composition

There are 80 unique types of molecules in this entry. The entry contains 401820 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 18S rRNA.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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- Molecule 2 is a protein called 40S ribosomal protein S0-A.

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<th>Atoms</th>
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<th>Trace</th>
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<tbody>
<tr>
<td>2</td>
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- Molecule 3 is a protein called 40S ribosomal protein S1-A.

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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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<tr>
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</table>

- Molecule 4 is a protein called 40S ribosomal protein S15.

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<th>Atoms</th>
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<td>916 583 171 155 7</td>
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</table>

- Molecule 5 is a protein called 40S ribosomal protein S2.
Molecule 6 is a protein called 40S ribosomal protein S3.

<table>
<thead>
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<th>Chain</th>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
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<tr>
<td>5</td>
<td>d</td>
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<td>1635 1047 289 297 2</td>
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Molecule 7 is a protein called 40S ribosomal protein S4-A.

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<th>Atoms</th>
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<th>Trace</th>
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<tr>
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<td></td>
<td>1734 1101 313 314 6</td>
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Molecule 8 is a protein called Rps5p.

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<tr>
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Molecule 9 is a protein called 40S ribosomal protein S6-A.

<table>
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<th>Atoms</th>
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<th>Trace</th>
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Molecule 10 is a protein called 40S ribosomal protein S7-A.

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<tr>
<td>10</td>
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<td></td>
<td></td>
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- Molecule 11 is a protein called 40S ribosomal protein S8-A.

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<tr>
<td>11</td>
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<td>N 916 295</td>
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<td></td>
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<td>O 263 2</td>
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<tr>
<td>11</td>
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<td>188</td>
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<td></td>
<td></td>
<td>N 925 298</td>
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<td></td>
<td></td>
<td></td>
<td>O 264 2</td>
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- Molecule 12 is a protein called 40S ribosomal protein S9-A.

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<tbody>
<tr>
<td>12</td>
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<td></td>
<td></td>
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<td>N 935 285</td>
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<td></td>
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<td></td>
<td>O 258 1</td>
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</tr>
<tr>
<td>12</td>
<td>k</td>
<td>185</td>
<td>Total C 1494</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N 943 289</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>O 261 1</td>
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- Molecule 13 is a protein called 40S ribosomal protein S10-A.

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<td></td>
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<td></td>
<td>O 141 2</td>
<td></td>
<td></td>
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<tr>
<td>13</td>
<td>l</td>
<td>92</td>
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<td>N 478 121</td>
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<td>O 140 2</td>
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- Molecule 14 is a protein called 40S ribosomal protein S11-A.

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<td></td>
<td>N 742 219</td>
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<td></td>
<td></td>
<td></td>
<td>O 195 3</td>
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<td>14</td>
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<td></td>
<td></td>
<td>O 197 3</td>
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- Molecule 15 is a protein called 40S ribosomal protein S12.
- Molecule 16 is a protein called 40S ribosomal protein S13.

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<tr>
<td>16</td>
<td>o</td>
<td>150</td>
<td>Total 1192 C 759 N 224 O 207 S 2</td>
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- Molecule 17 is a protein called 40S ribosomal protein S14-A.

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- Molecule 18 is a protein called 40S ribosomal protein S16-A.

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<tr>
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- Molecule 19 is a protein called 40S ribosomal protein S17-B.

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</thead>
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<td>19</td>
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- Molecule 20 is a protein called 40S ribosomal protein S18-A.

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<td>20</td>
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- Molecule 21 is a protein called 40S ribosomal protein S19-A.
- Molecule 22 is a protein called 40S ribosomal protein S20.

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<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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- Molecule 23 is a protein called 40S ribosomal protein S21-A.

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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>23</td>
<td>Vb</td>
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<tr>
<td>23</td>
<td>w</td>
<td>87</td>
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</table>

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>24</td>
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- Molecule 25 is a protein called 40S ribosomal protein S23-A.

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- Molecule 26 is a protein called 40S ribosomal protein S24-A.

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- Molecule 27 is a protein called 40S ribosomal protein S25-A.

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- Molecule 28 is a protein called 40S ribosomal protein S26-A.

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- Molecule 29 is a protein called 40S ribosomal protein S27-A.

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- Molecule 30 is a protein called 40S ribosomal protein S29-A.

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- Molecule 31 is a protein called 40S ribosomal protein S30-A.

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Molecule 32 is a protein called Ubiquitin-40S ribosomal protein S31.

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Molecule 33 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

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Molecule 34 is a protein called 40S ribosomal protein S28-B.

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Molecule 35 is a RNA chain called 5S rRNA.

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Molecule 36 is a RNA chain called 5.8S rRNA.

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Molecule 37 is a protein called 60S ribosomal protein L2-A.
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- Molecule 38 is a protein called 60S ribosomal protein L3.

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- Molecule 39 is a protein called 60S ribosomal protein L4-A.

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- Molecule 40 is a protein called 60S ribosomal protein L5.

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- Molecule 41 is a protein called 60S ribosomal protein L6-A.

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- Molecule 42 is a protein called 60S ribosomal protein L7-A.
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- Molecule 43 is a protein called 60S ribosomal protein L8-A.

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- Molecule 44 is a protein called 60S ribosomal protein L9-A.

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- Molecule 45 is a protein called 60S ribosomal protein L10.

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- Molecule 46 is a protein called 60S ribosomal protein L11-A.

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- Molecule 47 is a protein called 60S ribosomal protein L13-A.

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- Molecule 48 is a protein called 60S ribosomal protein L14-A.

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- Molecule 49 is a protein called 60S ribosomal protein L15-A.

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- Molecule 50 is a protein called 60S ribosomal protein L16-A.

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- Molecule 51 is a protein called 60S ribosomal protein L17-A.

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- Molecule 52 is a protein called 60S ribosomal protein L18-A.

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- Molecule 53 is a protein called 60S ribosomal protein L19-A.
Molecule 54 is a protein called 60S ribosomal protein L20-A.

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Molecule 55 is a protein called 60S ribosomal protein L21-A.

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Molecule 56 is a protein called 60S ribosomal protein L22-A.

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Molecule 58 is a protein called 60S ribosomal protein L24-A.

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- Molecule 59 is a protein called 60S ribosomal protein L25.

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- Molecule 60 is a protein called 60S ribosomal protein L26-A.

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- Molecule 61 is a protein called 60S ribosomal protein L27-A.

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- Molecule 62 is a protein called 60S ribosomal protein L28.

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<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>ay</td>
<td>148</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1173 749 231 190 193</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>L</td>
<td>148</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1173 749 231 190 193</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 63 is a protein called 60S ribosomal protein L29.
- Molecule 64 is a protein called 60S ribosomal protein L30.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>cy</td>
<td>96</td>
<td>Total C N O S</td>
<td>737 476 123 137 1</td>
<td>0 0</td>
</tr>
<tr>
<td>64</td>
<td>N</td>
<td>100</td>
<td>Total C N O S</td>
<td>767 492 128 146 1</td>
<td>0 0</td>
</tr>
</tbody>
</table>

- Molecule 65 is a protein called 60S ribosomal protein L31-A.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>dy</td>
<td>109</td>
<td>Total C N O S</td>
<td>876 556 167 152 1</td>
<td>0 0</td>
</tr>
<tr>
<td>65</td>
<td>O</td>
<td>109</td>
<td>Total C N O S</td>
<td>883 559 167 156 1</td>
<td>0 0</td>
</tr>
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</table>

- Molecule 66 is a protein called 60S ribosomal protein L32.

<table>
<thead>
<tr>
<th>Mol</th>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>ey</td>
<td>127</td>
<td>Total C N O S</td>
<td>1017 644 205 167 1</td>
<td>0 0</td>
</tr>
<tr>
<td>66</td>
<td>P</td>
<td>127</td>
<td>Total C N O S</td>
<td>1020 647 205 167 1</td>
<td>0 0</td>
</tr>
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- Molecule 67 is a protein called 60S ribosomal protein L33-A.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>fy</td>
<td>106</td>
<td>Total C N O S</td>
<td>850 540 165 144 1</td>
<td>0 0</td>
</tr>
<tr>
<td>67</td>
<td>Q</td>
<td>106</td>
<td>Total C N O S</td>
<td>850 540 165 144 1</td>
<td>0 0</td>
</tr>
</tbody>
</table>

- Molecule 68 is a protein called 60S ribosomal protein L34-A.

<table>
<thead>
<tr>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>68</td>
<td>gy</td>
<td>112</td>
<td>Total C N O S</td>
<td>880 545 179 152 4</td>
<td>0 0</td>
</tr>
<tr>
<td>68</td>
<td>R</td>
<td>112</td>
<td>Total C N O S</td>
<td>880 545 179 152 4</td>
<td>0 0</td>
</tr>
</tbody>
</table>

- Molecule 69 is a protein called 60S ribosomal protein L35-A.
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>hb</td>
<td>119</td>
<td>Total C N O S 969 615 186 167 1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>69</td>
<td>S</td>
<td>119</td>
<td>Total C N O S 965 612 185 167 1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 70 is a protein called 60S ribosomal protein L36-A.

<table>
<thead>
<tr>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>ib</td>
<td>99</td>
<td>Total C N O S 766 478 154 132 2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>70</td>
<td>T</td>
<td>99</td>
<td>Total C N O S 770 481 156 131 2</td>
<td>0</td>
<td>0</td>
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- Molecule 71 is a protein called 60S ribosomal protein L37-A.

<table>
<thead>
<tr>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>71</td>
<td>jb</td>
<td>85</td>
<td>Total C N O S 670 408 146 111 5</td>
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<td>0</td>
</tr>
<tr>
<td>71</td>
<td>U</td>
<td>82</td>
<td>Total C N O S 650 396 142 107 5</td>
<td>0</td>
<td>0</td>
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- Molecule 72 is a protein called 60S ribosomal protein L38.

<table>
<thead>
<tr>
<th>Mol</th>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>72</td>
<td>kb</td>
<td>77</td>
<td>Total C N O 612 391 115 106</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>72</td>
<td>V</td>
<td>77</td>
<td>Total C N O 608 388 114 106</td>
<td>0</td>
<td>0</td>
</tr>
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</table>

- Molecule 73 is a protein called 60S ribosomal protein L39.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>lb</td>
<td>50</td>
<td>Total C N O S 436 272 97 65 2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>73</td>
<td>W</td>
<td>50</td>
<td>Total C N O S 436 272 97 65 2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 74 is a protein called Ubiquitin-60S ribosomal protein L40.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>mb</td>
<td>52</td>
<td>Total C N O S 417 259 86 67 5</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>X</td>
<td>52</td>
<td>C 417</td>
<td>N 259</td>
<td>O 86</td>
</tr>
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</table>

- Molecule 75 is a protein called 60S ribosomal protein L41-A.

<table>
<thead>
<tr>
<th>Mol</th>
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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>75</td>
<td>nb</td>
<td>25</td>
<td>C 229</td>
<td>N 139</td>
<td>O 62</td>
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<tr>
<td>75</td>
<td>Y</td>
<td>25</td>
<td>C 233</td>
<td>N 142</td>
<td>O 63</td>
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- Molecule 76 is a protein called 60S ribosomal protein L42-A.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>ob</td>
<td>103</td>
<td>C 824</td>
<td>N 517</td>
<td>O 167</td>
</tr>
<tr>
<td>76</td>
<td>Z</td>
<td>105</td>
<td>C 847</td>
<td>N 534</td>
<td>O 170</td>
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</table>

- Molecule 77 is a protein called 60S ribosomal protein L43-A.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
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<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>77</td>
<td>pb</td>
<td>91</td>
<td>C 694</td>
<td>N 429</td>
<td>O 138</td>
</tr>
<tr>
<td>77</td>
<td>aa</td>
<td>91</td>
<td>C 694</td>
<td>N 429</td>
<td>O 138</td>
</tr>
</tbody>
</table>

- Molecule 78 is a RNA chain called 25S rRNA.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>1b</td>
<td>3184</td>
<td>C 68091</td>
<td>N 30415</td>
<td>O 12259</td>
</tr>
<tr>
<td>78</td>
<td>Aa</td>
<td>3127</td>
<td>C 66891</td>
<td>N 29878</td>
<td>O 12066</td>
</tr>
</tbody>
</table>

- Molecule 79 is a RNA chain called tRNA.
- Molecule 80 is a protein called 60S acidic ribosomal protein P0.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>ba</td>
<td>138</td>
<td>Total</td>
<td>C</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1052</td>
<td>672</td>
<td>187</td>
</tr>
</tbody>
</table>
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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 atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: 18S rRNA

Chain 2b:
• Molecule 1: 18S rRNA
- Molecule 2: 40S ribosomal protein S0-A

Chain Ab:

- Molecule 2: 40S ribosomal protein S0-A

Chain b:

- Molecule 3: 40S ribosomal protein S1-A

Chain Ba:

- Molecule 3: 40S ribosomal protein S1-A

Chain c:
• Molecule 4: 40S ribosomal protein S15

Chain Pb:

82% 18%

• Molecule 4: 40S ribosomal protein S15

Chain q:

35% 80% 16%

• Molecule 5: 40S ribosomal protein S2

Chain Cb:

81% 15%

• Molecule 5: 40S ribosomal protein S2

Chain d:

8% 85% 15%

• Molecule 6: 40S ribosomal protein S3

Chain Db:
- Molecule 6: 40S ribosomal protein S3

- Molecule 7: 40S ribosomal protein S4-A

- Molecule 8: Rps5p
• Molecule 9: 40S ribosomal protein S6-A

Chain Gb:

• Molecule 9: 40S ribosomal protein S6-A

Chain h:

• Molecule 10: 40S ribosomal protein S7-A

Chain Hb:

• Molecule 10: 40S ribosomal protein S7-A

Chain i:

• Molecule 11: 40S ribosomal protein S8-A

Chain Ib:
Chain j:

- Molecule 12: 40S ribosomal protein S9-A

Chain Jb:

- Molecule 12: 40S ribosomal protein S9-A

Chain k:

- Molecule 13: 40S ribosomal protein S10-A

Chain Kb:

- Molecule 13: 40S ribosomal protein S10-A

Chain l:

- Molecule 14: 40S ribosomal protein S11-A

Chain Lb:

- Molecule 14: 40S ribosomal protein S11-A

Chain m:

- Molecule 14: 40S ribosomal protein S11-A
• Molecule 15: 40S ribosomal protein S12
  Chain Mb:

• Molecule 15: 40S ribosomal protein S12
  Chain n:

• Molecule 16: 40S ribosomal protein S13
  Chain Nb:

• Molecule 16: 40S ribosomal protein S13
  Chain o:

• Molecule 17: 40S ribosomal protein S14-A
  Chain Ob:

• Molecule 17: 40S ribosomal protein S14-A
Chain p:

- Molecule 18: 40S ribosomal protein S16-A

Chain Qb:

- Molecule 18: 40S ribosomal protein S16-A

Chain r:

- Molecule 19: 40S ribosomal protein S17-B

Chain Rb:

- Molecule 19: 40S ribosomal protein S17-B

Chain s:

- Molecule 20: 40S ribosomal protein S18-A

Chain Sb:

- Molecule 20: 40S ribosomal protein S18-A
- Molecule 21: 40S ribosomal protein S19-A

Chain Tb:

- Molecule 21: 40S ribosomal protein S19-A

Chain u:

- Molecule 22: 40S ribosomal protein S20

Chain Ub:

- Molecule 22: 40S ribosomal protein S20

Chain v:

- Molecule 23: 40S ribosomal protein S21-A

Chain Vb:

- Molecule 23: 40S ribosomal protein S21-A

Chain w:

- Molecule 24: 40S ribosomal protein S22-A
Chain Wb:

- Molecule 24: 40S ribosomal protein S22-A

Chain x:

- Molecule 25: 40S ribosomal protein S23-A

Chain Xb:

- Molecule 25: 40S ribosomal protein S23-A

Chain y:

- Molecule 26: 40S ribosomal protein S24-A

Chain Yb:

- Molecule 26: 40S ribosomal protein S24-A

Chain z:

- Molecule 27: 40S ribosomal protein S25-A

Chain Zb:
- Molecule 27: 40S ribosomal protein S25-A

Chain 0:

- Molecule 28: 40S ribosomal protein S26-A

Chain ab:

- Molecule 28: 40S ribosomal protein S26-A

Chain 1:

- Molecule 29: 40S ribosomal protein S27-A

Chain bb:

- Molecule 29: 40S ribosomal protein S27-A

Chain 2:

- Molecule 30: 40S ribosomal protein S29-A

Chain db:

- Molecule 30: 40S ribosomal protein S29-A
Chain 4:

- Molecule 31: 40S ribosomal protein S30-A

Chain eb:

- Molecule 31: 40S ribosomal protein S30-A

Chain 5:

- Molecule 32: Ubiquitin-40S ribosomal protein S31

Chain fb:

- Molecule 32: Ubiquitin-40S ribosomal protein S31

Chain 6:

- Molecule 33: Guanine nucleotide-binding protein subunit beta-like protein

Chain gb:

- Molecule 33: Guanine nucleotide-binding protein subunit beta-like protein
Chain 7:

- Molecule 34: 40S ribosomal protein S28-B

Chain cb:

- Molecule 34: 40S ribosomal protein S28-B

Chain 3:

- Molecule 35: 5S rRNA

Chain 4b:

- Molecule 35: 5S rRNA

Chain Bb:

- Molecule 36: 5.8S rRNA
Chain 3b:

Molecule 36: 5.8S rRNA

Chain Ca:

Molecule 37: 60S ribosomal protein L2-A

Chain Ay:

Molecule 37: 60S ribosomal protein L2-A

Chain Da:

Molecule 38: 60S ribosomal protein L3

Chain By:

Molecule 38: 60S ribosomal protein L3

Chain Ea:
- Molecule 39: 60S ribosomal protein L4-A

Chain Cy:

- Molecule 39: 60S ribosomal protein L4-A

Chain Fa:

- Molecule 40: 60S ribosomal protein L5

Chain Dy:

- Molecule 40: 60S ribosomal protein L5

Chain Ga:

- Molecule 41: 60S ribosomal protein L6-A

Chain Ey:

- Molecule 41: 60S ribosomal protein L6-A

Chain Ha:

- Molecule 42: 60S ribosomal protein L7-A
• Molecule 42: 60S ribosomal protein L7-A

• Molecule 43: 60S ribosomal protein L8-A

• Molecule 44: 60S ribosomal protein L9-A

• Molecule 45: 60S ribosomal protein L10
• Molecule 45: 60S ribosomal protein L10

Chain La:

• Molecule 46: 60S ribosomal protein L11-A

Chain Jy:

• Molecule 46: 60S ribosomal protein L11-A

Chain Ma:

• Molecule 47: 60S ribosomal protein L13-A

Chain Ly:

• Molecule 47: 60S ribosomal protein L13-A

Chain Na:

• Molecule 48: 60S ribosomal protein L14-A

Chain My:

• Molecule 48: 60S ribosomal protein L14-A
Chain Oa: 99%

• Molecule 49: 60S ribosomal protein L15-A

Chain Ny: 90%-9%

• Molecule 49: 60S ribosomal protein L15-A

Chain Pa: 98%

• Molecule 50: 60S ribosomal protein L16-A

Chain Oy: 95%

• Molecule 50: 60S ribosomal protein L16-A

Chain Qa: 98%

• Molecule 51: 60S ribosomal protein L17-A

Chain Py: 96%

• Molecule 51: 60S ribosomal protein L17-A

Chain A: 95%-5%

• Molecule 51: 60S ribosomal protein L17-A
• Molecule 52: 60S ribosomal protein L18-A

Chain Qy: 97%

• Molecule 52: 60S ribosomal protein L18-A

Chain B: 99%

• Molecule 53: 60S ribosomal protein L19-A

Chain Ry: 96%

• Molecule 53: 60S ribosomal protein L19-A

Chain C: 11%

• Molecule 54: 60S ribosomal protein L20-A

Chain Sy: 97%

• Molecule 54: 60S ribosomal protein L20-A

Chain D: 100%

• Molecule 55: 60S ribosomal protein L21-A

Chain Ty: 98%
• Molecule 55: 60S ribosomal protein L21-A

Chain E:  

• Molecule 56: 60S ribosomal protein L22-A

Chain Uy:  

• Molecule 56: 60S ribosomal protein L22-A

Chain F:  

• Molecule 57: 60S ribosomal protein L23-A

Chain Vy:  

• Molecule 57: 60S ribosomal protein L23-A

Chain G:  

• Molecule 58: 60S ribosomal protein L24-A

Chain Wy:  

• Molecule 58: 60S ribosomal protein L24-A

Chain H:

• Molecule 59: 60S ribosomal protein L25

Chain Xy:

• Molecule 59: 60S ribosomal protein L25

Chain I:

• Molecule 60: 60S ribosomal protein L26-A

Chain Yy:

• Molecule 60: 60S ribosomal protein L26-A

Chain J:

• Molecule 61: 60S ribosomal protein L27-A

Chain Zy:

• Molecule 61: 60S ribosomal protein L27-A
Chain K:

- Molecule 62: 60S ribosomal protein L28

Chain ay:

- Molecule 62: 60S ribosomal protein L28

Chain L:

- Molecule 63: 60S ribosomal protein L29

Chain by:

- Molecule 63: 60S ribosomal protein L29

Chain M:

- Molecule 64: 60S ribosomal protein L30

Chain cy:

- Molecule 64: 60S ribosomal protein L30

Chain N:
• Molecule 65: 60S ribosomal protein L31-A

Chain dy:

• Molecule 65: 60S ribosomal protein L31-A

Chain O:

• Molecule 66: 60S ribosomal protein L32

Chain ey:

• Molecule 66: 60S ribosomal protein L32

Chain P:

• Molecule 67: 60S ribosomal protein L33-A

Chain fy:

• Molecule 67: 60S ribosomal protein L33-A

Chain Q:

• Molecule 68: 60S ribosomal protein L34-A

Chain gy:
- Molecule 68: 60S ribosomal protein L34-A

Chain R:

- Molecule 69: 60S ribosomal protein L35-A

Chain hb:

- Molecule 69: 60S ribosomal protein L35-A

Chain S:

- Molecule 70: 60S ribosomal protein L36-A

Chain ib:

- Molecule 70: 60S ribosomal protein L36-A

Chain T:

- Molecule 71: 60S ribosomal protein L37-A

Chain jb:

- Molecule 71: 60S ribosomal protein L37-A
Chain U:

- Molecule 72: 60S ribosomal protein L38

Chain kb:

- Molecule 72: 60S ribosomal protein L38

Chain V:

- Molecule 73: 60S ribosomal protein L39

Chain lb:

- Molecule 73: 60S ribosomal protein L39

Chain W:

- Molecule 74: Ubiquitin-60S ribosomal protein L40

Chain mb:

- Molecule 74: Ubiquitin-60S ribosomal protein L40

Chain X:
• Molecule 75: 60S ribosomal protein L41-A

Chain nb:

• Molecule 75: 60S ribosomal protein L41-A

Chain Y:

• Molecule 76: 60S ribosomal protein L42-A

Chain ob:

• Molecule 76: 60S ribosomal protein L42-A

Chain Z:

• Molecule 77: 60S ribosomal protein L43-A

Chain pb:

• Molecule 77: 60S ribosomal protein L43-A

Chain aa:

• Molecule 78: 25S rRNA
• Molecule 78: 25S rRNA

Chain Aa:
• Molecule 79: tRNA

Chain 6b:

• Molecule 79: tRNA

Chain 8:
Molecule 80: 60S acidic ribosomal protein P0
## 4 Experimental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
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<td>Depositor</td>
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<td></td>
</tr>
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<td>CTF correction method</td>
<td>PHASE FLIPPING AND AMPLITUDE CORRECTION</td>
<td>Depositor</td>
</tr>
<tr>
<td>Microscope</td>
<td>FEI TITAN KRIOS</td>
<td>Depositor</td>
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5 Model quality

5.1 Standard geometry

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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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.

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1   2b   1465 C   C5-C4-N4   -9.37   113.64  120.20
78  1b   922 U    C2-N1-C1’  9.37   128.95  117.70
78  Aa   75 G    C4-C5-N7   9.35   114.54  110.80
78  1b   628 A    N1-C6-N6  9.35   124.21  118.60
1   2b   331 A    C5-N7-C8   -9.34   99.23  103.90
78  Aa   2974 U   N3-C2-O2   -9.33   155.67 122.20
78  1b   2362 C   C2-N1-C1’  9.32   129.05  111.90
78  1b   2592 G   C2-N3-C4  -9.30   107.25  111.90
78  1b   2354 C   N1-C2-O2   9.29   124.49  118.90
78  1b   1657 C   N3-C4-C5   9.31   125.62  121.90
78  1b   2654 C   C5-C4-N4  -9.30   113.69  120.20
78  1b   3343 G   C2-N3-C4  -9.30   107.25  111.90
78  1b   2354 C   N1-C2-O2   9.29   124.47  118.90
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1   2b   453 U   C2-N1-C1’  9.27   128.83  117.70
78  1b   894 G   C2-N3-C4  -9.27   107.26  111.90
78  6b   75 C    C5-C4-N4  -9.27   113.71  120.20
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78  1b   320 G   N3-C4-C5   9.27   133.23  128.60
78  1b   2367 A   C5-C6-N1   9.25   122.33  117.70
78  1b   2609 A   C5-C6-N1   9.25   122.33  117.70
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78  1b   846 A   C6-C5-N7  -9.21   125.65  132.30
78  1b   364 G   C8-N9-C4  9.19   110.08  106.40
78  1b   1863 G   N3-C4-C5  9.18   133.19  128.60
78  1b   221 A   O4’-C1’-N9  9.16   115.53  108.20
1   2b   1122 G   C2-N3-C4  -9.16   107.16  111.90
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## Full wwPDB EM Validation Report

### EMD-10398, 6T83

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78 | 1b | 1453 | A | C5-N7-C8 | -5.79 | 101.00 | 103.90
78 | 1b | 2367 | A | C6-C5-N7 | -5.79 | 128.25 | 132.30
79 | 6b | 13 | C | N3-C4-C5 | 5.79 | 124.22 | 121.90
78 | Aa | 580 | C | N3-C4-C5 | 5.79 | 124.22 | 121.90
1 | 2b | 988 | A | C5-N7-C8 | -5.79 | 101.01 | 103.90
78 | 1b | 2169 | G | N3-C2-N2 | -5.79 | 115.85 | 119.90
1 | 2b | 776 | A | C5-C4-N4 | 5.79 | 108.72 | 106.40
78 | 1b | 1333 | C | C5-C4-N4 | -5.79 | 116.15 | 120.20
78 | 1b | 1902 | G | C4-C5-N7 | 5.79 | 123.95 | 119.90
78 | 1b | 661 | G | C5-C6-N1 | -5.78 | 108.61 | 111.50
78 | 1b | 1195 | A | C8-N9-C4 | 5.78 | 123.95 | 119.90
78 | 1b | 584 | G | N3-C4-C5 | 5.78 | 108.11 | 105.80
78 | 1b | 665 | A | C5-N7-C8 | -5.78 | 101.01 | 103.90
78 | 1b | 2339 | C | C6-N1-C1’ | -5.78 | 113.86 | 120.80
78 | 1b | 2371 | G | N3-C2-N2 | 5.78 | 123.95 | 119.90
1 | 2b | 331 | A | C2-N3-C4 | -5.78 | 107.71 | 110.60
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78 | 1b | 622 | A | C5-C6-N6 | -5.78 | 119.08 | 112.70
78 | 1b | 2188 | A | C5-N7-C8 | -5.78 | 101.01 | 103.90
78 | 1b | 2961 | G | C6-C5-N7 | -5.78 | 126.93 | 130.40
78 | Aa | 1160 | C | C6-N1-C2 | 5.78 | 122.61 | 120.30
78 | Aa | 2913 | C | C6-N1-C2 | 5.78 | 122.61 | 120.30
1 | 2b | 298 | C | N3-C4-C5 | 5.78 | 124.21 | 121.90
78 | 1b | 3131 | U | C5-C4-O4 | -5.78 | 122.43 | 125.90
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78 | 1b | 867 | G | N3-C4-C5 | 5.78 | 131.49 | 128.60
78 | 1b | 1201 | C | N3-C4-N4 | 5.78 | 122.04 | 118.00
78 | 1b | 2714 | G | C2-N3-C4 | -5.78 | 109.01 | 111.90
1 | a | 1035 | G | N3-C4-C5 | 5.78 | 131.49 | 128.60
78 | Aa | 582 | G | C2-N3-C4 | -5.78 | 109.01 | 111.90
78 | Aa | 1483 | G | O4’-C1’-N9 | 5.78 | 112.82 | 108.20
1 | 2b | 1003 | A | C5-C6-N6 | -5.78 | 119.08 | 123.70
78 | 1b | 672 | A | C5-C6-N6 | -5.78 | 119.08 | 123.70
78 | 1b | 803 | C | C6-N1-C1’ | -5.78 | 113.87 | 120.80
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78 | 1b | 992 | A | C8-N9-C4 | 5.77 | 108.11 | 105.80
35 | 4b | 58 | C | C2-N1-C1’ | 5.77 | 125.15 | 118.80
78 | 1b | 29 | C | C5-C4-N4 | -5.77 | 116.16 | 120.20
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5.2 Too-close contacts

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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 PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.
### Mol Chain Analysed Favoured Allowed Outliers Percentiles

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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 PDB entries followed by that with respect to all EM entries.

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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### Mol | Chain | Analysed | Rotameric | Outliers | Percentiles
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56 | Uy | 87/107 (81%) | 86 (99%) | 1 (1%) | 73 85
57 | G | 103/105 (98%) | 103 (100%) | 0 | 100 100
57 | Vy | 104/105 (99%) | 104 (100%) | 0 | 100 100
58 | H | 114/129 (88%) | 112 (98%) | 2 (2%) | 59 77
58 | Wy | 60/129 (46%) | 60 (100%) | 0 | 100 100
59 | I | 104/118 (88%) | 104 (100%) | 0 | 100 100
59 | Xy | 104/118 (88%) | 104 (100%) | 0 | 100 100
60 | J | 107/110 (97%) | 107 (100%) | 0 | 100 100
60 | Yy | 108/110 (98%) | 108 (100%) | 0 | 100 100
61 | K | 115/116 (99%) | 115 (100%) | 0 | 100 100
61 | Zy | 115/116 (99%) | 114 (99%) | 1 (1%) | 78 88
62 | L | 118/119 (99%) | 118 (100%) | 0 | 100 100
62 | ay | 118/119 (99%) | 118 (100%) | 0 | 100 100
63 | M | 46/47 (98%) | 45 (98%) | 1 (2%) | 52 71
63 | by | 46/47 (98%) | 46 (100%) | 0 | 100 100
64 | N | 84/88 (96%) | 84 (100%) | 0 | 100 100
64 | cy | 81/88 (92%) | 81 (100%) | 0 | 100 100
65 | O | 94/97 (97%) | 93 (99%) | 1 (1%) | 73 85
65 | dy | 92/97 (95%) | 91 (99%) | 1 (1%) | 73 85
66 | P | 109/111 (98%) | 109 (100%) | 0 | 100 100
66 | ey | 108/111 (97%) | 108 (100%) | 0 | 100 100
67 | Q | 90/91 (99%) | 90 (100%) | 0 | 100 100
67 | fy | 90/91 (99%) | 90 (100%) | 0 | 100 100
68 | R | 95/103 (92%) | 95 (100%) | 0 | 100 100
68 | gy | 95/103 (92%) | 93 (98%) | 2 (2%) | 53 72
69 | S | 103/105 (98%) | 103 (100%) | 0 | 100 100
69 | bb | 104/105 (99%) | 100 (96%) | 4 (4%) | 33 59
70 | T | 80/82 (98%) | 80 (100%) | 0 | 100 100
70 | ib | 80/82 (98%) | 80 (100%) | 0 | 100 100

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<td>148</td>
<td>G</td>
</tr>
</tbody>
</table>

*Continued on next page...*
There are no RNA pucker outliers to report.

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 monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.
## 5.8 Polymer linkage issues

The following chains have linkage breaks:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Number of breaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>Fa</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Ba</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>Nb</td>
<td>1</td>
</tr>
<tr>
<td>47</td>
<td>Ly</td>
<td>1</td>
</tr>
<tr>
<td>45</td>
<td>Ly</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

All chain breaks are listed below:

<table>
<thead>
<tr>
<th>Model</th>
<th>Chain</th>
<th>Residue-1</th>
<th>Atom-1</th>
<th>Residue-2</th>
<th>Atom-2</th>
<th>Distance (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>13:ARG</td>
<td>C</td>
<td>14:TYR</td>
<td>N</td>
<td>1.73</td>
</tr>
<tr>
<td>1</td>
<td>Fa</td>
<td>19:ALA</td>
<td>C</td>
<td>20:LEU</td>
<td>N</td>
<td>1.20</td>
</tr>
<tr>
<td>1</td>
<td>Nb</td>
<td>134:VAL</td>
<td>C</td>
<td>135:LEU</td>
<td>N</td>
<td>1.19</td>
</tr>
<tr>
<td>1</td>
<td>Ly</td>
<td>120:GLY</td>
<td>C</td>
<td>121:LYS</td>
<td>N</td>
<td>1.17</td>
</tr>
<tr>
<td>1</td>
<td>Ba</td>
<td>33:LYS</td>
<td>C</td>
<td>34:ALA</td>
<td>N</td>
<td>1.11</td>
</tr>
<tr>
<td>1</td>
<td>Ly</td>
<td>54:LEU</td>
<td>C</td>
<td>55:ARG</td>
<td>N</td>
<td>1.07</td>
</tr>
</tbody>
</table>
6  Map visualisation

This section contains visualisations of the EMDB entry EMD-10398. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1  Orthogonal projections

6.1.1  Primary map

The images above show the map projected in three orthogonal directions.

6.2  Central slices

6.2.1  Primary map

X Index: 265  Y Index: 265  Z Index: 265
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices

6.3.1 Primary map

The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views

6.4.1 Primary map

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.
6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.
7 Map analysis

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution

The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.
7.2 Volume estimate

The volume at the recommended contour level is 4789 nm$^3$; this corresponds to an approximate mass of 4326 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.
7.3 Rotationally averaged power spectrum

*Reported resolution corresponds to spatial frequency of 0.250 Å⁻¹
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-10398 and PDB model 6T83. Per-residue inclusion information can be found in section 3 on page 26.

9.1 Map-model overlay

The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.
9.2 Atom inclusion

At the recommended contour level, 94% of all backbone atoms, 90% of all non-hydrogen atoms, are inside the map.