Full wwPDB X-ray Structure Validation Report

Jul 2, 2018 – 02:52 PM EDT

PDB ID : 4V95
Title : Crystal structure of YAEJ bound to the 70S ribosome
Authors : Gagnon, M.G.; Seetharaman, S.V.; Bulkley, D.P.; Steitz, T.A.
Deposited on : 2012-01-27
Resolution : 3.20 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
Xtriage (Phenix) : 1.13
EDS : rb-20031172
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20031172
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 3.20 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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<th>Similar resolution (#Entries, resolution range(Å))</th>
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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 $\geq$3, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq$5%. 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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2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 284877 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 Ribosomal RNA.

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- Molecule 2 is a protein called 30S Ribosomal Protein S2.

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- Molecule 3 is a protein called 30S Ribosomal Protein S3.

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- Molecule 8 is a protein called 30S Ribosomal Protein S8.

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- Molecule 9 is a protein called 30S Ribosomal Protein S9.

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- Molecule 10 is a protein called 30S Ribosomal Protein S10.
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- Molecule 12 is a protein called 30S Ribosomal Protein S12.

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- Molecule 13 is a protein called 30S Ribosomal Protein S13.

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- Molecule 14 is a protein called 30S Ribosomal Protein S14.

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- Molecule 15 is a protein called 30S Ribosomal Protein S15.
• Molecule 16 is a protein called 30S Ribosomal Protein S16.

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• Molecule 17 is a protein called 30S Ribosomal Protein S17.

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• Molecule 19 is a protein called 30S Ribosomal Protein S19.

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• Molecule 20 is a protein called 30S Ribosomal Protein S20.

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• Molecule 21 is a protein called 30S Ribosomal Protein THX.
- Molecule 22 is a protein called YAEJ.

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- Molecule 23 is a RNA chain called P-site fMet-tRNA.

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- Molecule 24 is a RNA chain called mRNA.

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- Molecule 25 is a RNA chain called 23S Ribosomal RNA.

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- Molecule 26 is a RNA chain called 5S Ribosomal RNA.

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- Molecule 27 is a protein called 50S Ribosomal Protein L2.

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- Molecule 28 is a protein called 50S Ribosomal Protein L3.

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- Molecule 29 is a protein called 50S Ribosomal Protein L4.

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- Molecule 30 is a protein called 50S Ribosomal Protein L5.

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<td>O</td>
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- Molecule 31 is a protein called 50S Ribosomal Protein L6.

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<td>O</td>
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- Molecule 32 is a protein called 50S Ribosomal Protein L9.
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<tbody>
<tr>
<td>32</td>
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<td>147</td>
<td>Total C 1066 N 687 O 184 S 194</td>
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<td>0</td>
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<tr>
<td>32</td>
<td>DI</td>
<td>146</td>
<td>Total C 1057 N 682 O 182 S 192</td>
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- Molecule 33 is a protein called 50S Ribosomal Protein L13.

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<tr>
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<td>DN</td>
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<td>Total C 1112 N 717 O 207 S 184</td>
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- Molecule 34 is a protein called 50S Ribosomal Protein L14.

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<tr>
<td>34</td>
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<td>Total C 923 N 583 O 168 S 168</td>
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<tr>
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<td>DO</td>
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<td>Total C 923 N 583 O 168 S 168</td>
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- Molecule 35 is a protein called 50S Ribosomal Protein L15.

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<tbody>
<tr>
<td>35</td>
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<td>Total C 1131 N 703 O 229 S 196</td>
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<td>0</td>
<td>0</td>
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<tr>
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<td>DP</td>
<td>149</td>
<td>Total C 1131 N 703 O 229 S 196</td>
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- Molecule 36 is a protein called 50S Ribosomal Protein L16.

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<td>Total C 1122 N 715 O 212 S 188</td>
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- Molecule 37 is a protein called 50S Ribosomal Protein L17.

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<tr>
<td>37</td>
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<td>968 604 203 160 1</td>
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- Molecule 38 is a protein called 50S Ribosomal Protein L18.

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<td>865 544 172 149</td>
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<tr>
<td>38</td>
<td>DS</td>
<td>110</td>
<td>Total C N O</td>
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<td>873 550 174 149</td>
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- Molecule 39 is a protein called 50S Ribosomal Protein L19.

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- Molecule 40 is a protein called 50S Ribosomal Protein L20.

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<td>959 608 201 149 1</td>
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<tr>
<td>40</td>
<td>DU</td>
<td>116</td>
<td>Total C N O S</td>
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<td></td>
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<td>959 608 201 149 1</td>
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- Molecule 41 is a protein called 50S Ribosomal Protein L21.

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<tbody>
<tr>
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<td></td>
<td></td>
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<td>766 493 139 133 1</td>
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<tr>
<td>41</td>
<td>DV</td>
<td>100</td>
<td>Total C N O S</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>770 496 140 133 1</td>
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- Molecule 42 is a protein called 50S Ribosomal Protein L22.
- Molecule 43 is a protein called 50S Ribosomal Protein L23.

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<td>Total C N O S</td>
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<td>732 477 130 124 1</td>
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- Molecule 44 is a protein called 50S Ribosomal Protein L24.

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<tbody>
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<td></td>
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<td>785 503 145 131 6</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>44</td>
<td>DY</td>
<td>107</td>
<td>Total C N O S</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>781 502 145 128 6</td>
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- Molecule 45 is a protein called 50S Ribosomal Protein L25.

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<td>1451 925 253 270 3</td>
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- Molecule 46 is a protein called 50S Ribosomal Protein L27.

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<tr>
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<td>B0</td>
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<td>594 368 125 100 1</td>
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<tr>
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<td>D0</td>
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<td>607 376 126 104 1</td>
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- Molecule 47 is a protein called 50S Ribosomal Protein L28.

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<tbody>
<tr>
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<td>B1</td>
<td>97</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>745 469 144 131 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>47</td>
<td>D1</td>
<td>97</td>
<td>Total C N O S</td>
<td></td>
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<tr>
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<td></td>
<td>745 469 144 131 1</td>
<td>0</td>
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- Molecule 48 is a protein called 50S Ribosomal Protein L29.
• Molecule 49 is a protein called 50S Ribosomal Protein L30.

<table>
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<th>Trace</th>
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</thead>
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• Molecule 50 is a protein called 50S Ribosomal Protein L31.

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<th>Atoms</th>
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• Molecule 51 is a protein called 50S Ribosomal Protein L32.

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<th>Atoms</th>
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<tbody>
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<tr>
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<td>D5</td>
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• Molecule 52 is a protein called 50S Ribosomal Protein L33.

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<th>Trace</th>
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• Molecule 53 is a protein called 50S Ribosomal Protein L34.

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- Molecule 54 is a protein called 50S Ribosomal Protein L35.

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- Molecule 55 is a protein called 50S Ribosomal Protein L36.

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- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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- Molecule 57 is ZINC ION (three-letter code: ZN) (formula: Zn).

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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 Ribosomal RNA

Chain AA:
• Molecule 1: 16S Ribosomal RNA

Chain CA:
• 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

Chain CE:

• Molecule 6: 30S Ribosomal Protein S6

Chain AF:

• Molecule 6: 30S Ribosomal Protein S6

Chain CF:
• Molecule 7: 30S Ribosomal Protein S7

Chain AG:

• Molecule 7: 30S Ribosomal Protein S7

Chain CG:

• Molecule 8: 30S Ribosomal Protein S8

Chain AH:

• Molecule 8: 30S Ribosomal Protein S8

Chain CH:

• Molecule 9: 30S Ribosomal Protein S9

Chain AI:
• 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

Chain CM:

• Molecule 14: 30S Ribosomal Protein S14

Chain AN:

• Molecule 14: 30S Ribosomal Protein S14

Chain CN:
- Molecule 15: 30S Ribosomal Protein S15

Chain AO:

- Molecule 15: 30S Ribosomal Protein S15

Chain CO:

- 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
Molecule 20: 30S Ribosomal Protein S20

Molecule 21: 30S Ribosomal Protein THX

Molecule 22: YAEJ

Molecule 23: P-site fMet-tRNA
• Molecule 23: P-site fMet-tRNA

Chain CV:

• Molecule 24: mRNA

Chain AX:

• Molecule 24: mRNA

Chain CX:

• Molecule 25: 23S Ribosomal RNA

Chain BA:
• Molecule 25: 23S Ribosomal RNA

Chain DA:
- **Molecule 26: 5S Ribosomal RNA**

Chain BB:

- **Molecule 26: 5S Ribosomal RNA**

Chain DB:

- **Molecule 27: 50S Ribosomal Protein L2**

Chain BD:
• Molecule 27: 50S Ribosomal Protein L2

Chain DD:

%  
49%  41%  10%

• Molecule 28: 50S Ribosomal Protein L3

Chain BE:

%  
55%  33%  11%

• Molecule 28: 50S Ribosomal Protein L3

Chain DE:

%  
48%  42%  8%
- **Molecule 29: 50S Ribosomal Protein L4**

  Chain BF:

- **Molecule 29: 50S Ribosomal Protein L4**

  Chain DF:

- **Molecule 30: 50S Ribosomal Protein L5**

  Chain BG:

- **Molecule 30: 50S Ribosomal Protein L5**

  Chain DG:
• Molecule 31: 50S Ribosomal Protein L6

Chain BH:

• Molecule 32: 50S Ribosomal Protein L9

Chain BI:

• Molecule 33: 50S Ribosomal Protein L13

Chain DI:
• Molecule 33: 50S Ribosomal Protein L13

• Molecule 34: 50S Ribosomal Protein L14

• Molecule 35: 50S Ribosomal Protein L15
• Molecule 36: 50S Ribosomal Protein L16

Chain BQ:

[Diagram showing Chain BQ]

• Molecule 36: 50S Ribosomal Protein L16

Chain DQ:

[Diagram showing Chain DQ]

• Molecule 37: 50S Ribosomal Protein L17

Chain BR:

[Diagram showing Chain BR]

• Molecule 37: 50S Ribosomal Protein L17

Chain DR:

[Diagram showing Chain DR]

• Molecule 38: 50S Ribosomal Protein L18

Chain BS:

[Diagram showing Chain BS]
• Molecule 38: 50S Ribosomal Protein L18
Chain DS:

• Molecule 39: 50S Ribosomal Protein L19
Chain BT:

• Molecule 39: 50S Ribosomal Protein L19
Chain DT:

• Molecule 40: 50S Ribosomal Protein L20
Chain BU:

• Molecule 40: 50S Ribosomal Protein L20
Chain DU:
- Molecule 41: 50S Ribosomal Protein L21

Chain BV:

- Molecule 41: 50S Ribosomal Protein L21

Chain DV:

- Molecule 42: 50S Ribosomal Protein L22

Chain BW:

- Molecule 42: 50S Ribosomal Protein L22

Chain DW:

- Molecule 43: 50S Ribosomal Protein L23

Chain BX:
• Molecule 43: 50S Ribosomal Protein L23

Chain DX:

• Molecule 44: 50S Ribosomal Protein L24

Chain BY:

• Molecule 44: 50S Ribosomal Protein L24

Chain DY:

• Molecule 45: 50S Ribosomal Protein L25

Chain BZ:

• Molecule 45: 50S Ribosomal Protein L25

Chain DZ:
• Molecule 46: 50S Ribosomal Protein L27

Chain B0:

- 45% Red
- 36% Green
- 8% Orange
- 11% Gray

• Molecule 46: 50S Ribosomal Protein L27

Chain D0:

- 44% Red
- 35% Green
- 12% Orange
- 9% Gray

• Molecule 47: 50S Ribosomal Protein L28

Chain B1:

- 56% Red
- 36% Green
- 6% Orange

• Molecule 47: 50S Ribosomal Protein L28

Chain D1:

- 50% Red
- 36% Green
- 11% Orange

• Molecule 48: 50S Ribosomal Protein L29

Chain B2:

- 42% Red
- 39% Green
- 15% Orange
Chain D2:

- Molecule 49: 50S Ribosomal Protein L30

Chain B3:

- Molecule 49: 50S Ribosomal Protein L30

Chain D3:

- Molecule 50: 50S Ribosomal Protein L31

Chain B4:

- Molecule 50: 50S Ribosomal Protein L31

Chain D4:

- Molecule 51: 50S Ribosomal Protein L32

Chain B5:

- Molecule 51: 50S Ribosomal Protein L32

Chain D5:

- Molecule 51: 50S Ribosomal Protein L32
• Molecule 52: 50S Ribosomal Protein L33

Chain B6:

• Molecule 52: 50S Ribosomal Protein L33

Chain D6:

• Molecule 53: 50S Ribosomal Protein L34

Chain B7:

• Molecule 53: 50S Ribosomal Protein L34

Chain D7:

• Molecule 54: 50S Ribosomal Protein L35

Chain B8:

• Molecule 54: 50S Ribosomal Protein L35

Chain D8:

• Molecule 55: 50S Ribosomal Protein L36

Chain B9:

• Molecule 55: 50S Ribosomal Protein L36

Chain D9:
## 4 Data and refinement statistics

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Xtriage’s analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.56% of the height of the origin peak. No significant pseudotranslation is detected.*

---

1Intensities estimated from amplitudes.

2Theoretical values of < |L|>, < L² > 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: ZN, MG

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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Continued from previous page...

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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 17.

All (7600) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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### Interatomic Distances and Overlaps

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## Interatomic distances and clash overlap

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### Interatomic Distances

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### Interatomic distances and clash overlap

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### Interatomic distances and overlaps

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### Interatomic distances and clash overlap

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All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

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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.

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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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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 2350 ligands modelled in this entry, 2350 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.
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.
5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.
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, 95th 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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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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56 | MG | AA | 1823 | 1/1 | 0.67 | 0.99 | 77,77,77,77 | 0
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### 6.5 Other polymers

There are no such residues in this entry.