Full wwPDB X-ray Structure Validation Report

Feb 15, 2017 – 08:59 am GMT

PDB ID : 4V5R
Title : The crystal structure of EF-Tu and Trp-tRNA-Trp bound to a cognate codon on the 70S ribosome.
Authors : Schmeing, T.M.; Voorhees, R.M.; Ramakrishnan, V.
Deposited on : 2010-12-07
Resolution : 3.10 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
http://wwpdb.org/validation/2016/XrayValidationReportHelp
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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28972
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

\textit{X-RAY DIFFRACTION}

The reported resolution of this entry is 3.10 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.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>Similar resolution (#Entries, resolution range(Å))</th>
</tr>
</thead>
<tbody>
<tr>
<td>R\textsubscript{free}</td>
<td>100719</td>
<td>1001 (3.12-3.08)</td>
</tr>
<tr>
<td>Clashscore</td>
<td>112137</td>
<td>1099 (3.12-3.08)</td>
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<tr>
<td>Ramachandran outliers</td>
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<tr>
<td>RNA backbone</td>
<td>2435</td>
<td>1112 (3.50-2.70)</td>
</tr>
</tbody>
</table>

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 $\geq3$, 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 $\leq5\%$. 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.

<table>
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<tr>
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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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<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Chirality</th>
<th>Geometry</th>
<th>Clashes</th>
<th>Electron density</th>
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<td>502</td>
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<td>-</td>
<td>X</td>
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</tbody>
</table>
2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 307330 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>AltConf</th>
<th>Trace</th>
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- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

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<th>Atoms</th>
<th>ZeroOcc</th>
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<th>Trace</th>
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- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

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- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.
Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.
Continued from previous page...

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• Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

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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 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

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• Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

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<tr>
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<td>0</td>
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<tr>
<td>19</td>
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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.
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<td>208 128 50 30</td>
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- Molecule 22 is a RNA chain called E-SITE TRNA PHE OR P-SITE TRNA PHE.

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<tbody>
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<td></td>
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<td>1619 723 290 531</td>
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- Molecule 23 is a RNA chain called MRNA.

<table>
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- Molecule 24 is a RNA chain called A-SITE TRNA TRP-TRNA TRP.

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- Molecule 25 is a protein called ELONGATION FACTOR TU.

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<td>2984 1885 524 563</td>
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- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L27.
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<tr>
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<td>0</td>
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</tr>
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<td></td>
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<td>662 410 140 111 1</td>
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- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L28.

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- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L29.

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<td></td>
<td>598 370 121 106 1</td>
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- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L30.

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<td>467 298 90 78 1</td>
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<tr>
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<td></td>
<td></td>
<td>467 298 90 78 1</td>
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- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L31.

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<td>340 218 57 61 4</td>
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- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L32.

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<td>459 288 90 76 5</td>
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<td>459 288 90 76 5</td>
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- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L33.

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<tr>
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- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L34.

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<td>D7</td>
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<tr>
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<td></td>
<td>418 257 104 55 2</td>
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- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L35.

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<td>507 326 101 78 2</td>
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<tr>
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<td>D8</td>
<td>63</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
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<td></td>
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<td>507 326 101 78 2</td>
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- Molecule 35 is a protein called 50S RIBOSOMAL PROTEIN L36.

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<tr>
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<td>D9</td>
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<td></td>
<td></td>
<td></td>
<td>307 188 68 47 4</td>
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- Molecule 36 is a RNA chain called 23S RIBOSOMAL RNA.
- Molecule 37 is a RNA chain called 5S RIBOSOMAL RNA.

<table>
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<tr>
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<td>2551 1136 471 826 118</td>
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- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L1.

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<th>Residues</th>
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<td>1742 1101 319 319 3</td>
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- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L2.

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<td>2145 1353 428 361 3</td>
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- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L3.

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<tbody>
<tr>
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<td></td>
<td></td>
<td>1563 988 299 270 6</td>
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- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L4.

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<tbody>
<tr>
<td>41</td>
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<td></td>
<td></td>
<td></td>
<td>1623 1035 303 282 3</td>
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- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L5.
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<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>42</td>
<td>BG</td>
<td>181</td>
<td>Total C N O S</td>
<td>1474 942 268 260 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>42</td>
<td>DG</td>
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<td>Total C N O S</td>
<td>1474 942 268 260 4</td>
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<td>0</td>
</tr>
</tbody>
</table>

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L6.

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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>43</td>
<td>BH</td>
<td>159</td>
<td>Total C N O S</td>
<td>1222 773 228 220 1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>43</td>
<td>DH</td>
<td>159</td>
<td>Total C N O S</td>
<td>1222 773 228 220 1</td>
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<td>0</td>
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- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

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<tbody>
<tr>
<td>44</td>
<td>BJ</td>
<td>130</td>
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<td>0</td>
</tr>
<tr>
<td>44</td>
<td>DJ</td>
<td>130</td>
<td>Total C N O</td>
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- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

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<tr>
<td>45</td>
<td>BK</td>
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<td>Total C N O</td>
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<tr>
<td>45</td>
<td>DK</td>
<td>140</td>
<td>Total C N O</td>
<td>700 420 140 140</td>
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- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L13.

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<tbody>
<tr>
<td>46</td>
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<tr>
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<td>DN</td>
<td>138</td>
<td>Total C N O S</td>
<td>1104 712 206 182 4</td>
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- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L14.

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<tbody>
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<td>47</td>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
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<tbody>
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- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L15.

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<td></td>
<td>1114 692 227 193 2</td>
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<table>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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<tbody>
<tr>
<td>48</td>
<td>DP</td>
<td>146</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>1114 692 227 193 2</td>
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- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L16.

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<tbody>
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<td>0</td>
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<td></td>
<td></td>
<td>1122 715 212 188 7</td>
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<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>49</td>
<td>DQ</td>
<td>141</td>
<td>Total C N O S</td>
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<td>0</td>
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<td></td>
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- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L17.

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<tr>
<td></td>
<td></td>
<td></td>
<td>960 599 202 159</td>
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<table>
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<th>Residues</th>
<th>Atoms</th>
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</thead>
<tbody>
<tr>
<td>50</td>
<td>DR</td>
<td>117</td>
<td>Total C N O</td>
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<td>0</td>
<td>0</td>
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<td></td>
<td>960 599 202 159</td>
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- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L18.

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<th>ZeroOcc</th>
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<tbody>
<tr>
<td>51</td>
<td>BS</td>
<td>98</td>
<td>Total C N O</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>770 486 154 130</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<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>51</td>
<td>DS</td>
<td>98</td>
<td>Total C N O</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>770 486 154 130</td>
<td></td>
<td></td>
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</table>

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L19.

<table>
<thead>
<tr>
<th>Mol</th>
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<th>Atoms</th>
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<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>BT</td>
<td>137</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1141 710 234 196 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<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>52</td>
<td>DT</td>
<td>137</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1141 710 234 196 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L20.

<table>
<thead>
<tr>
<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>53</td>
<td>BU</td>
<td>117</td>
<td>Total C N O S 958 604 202 151 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>53</td>
<td>DU</td>
<td>117</td>
<td>Total C N O S 958 604 202 151 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L21.

<table>
<thead>
<tr>
<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>54</td>
<td>BV</td>
<td>101</td>
<td>Total C N O S 779 501 142 135 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>54</td>
<td>DV</td>
<td>101</td>
<td>Total C N O S 779 501 142 135 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L22.

<table>
<thead>
<tr>
<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>55</td>
<td>BW</td>
<td>113</td>
<td>Total C N O S 896 563 176 155 2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>55</td>
<td>DW</td>
<td>113</td>
<td>Total C N O S 896 563 176 155 2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L23.

<table>
<thead>
<tr>
<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>56</td>
<td>BX</td>
<td>92</td>
<td>Total C N O 725 471 131 123</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>56</td>
<td>DX</td>
<td>92</td>
<td>Total C N O 725 471 131 123</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

<table>
<thead>
<tr>
<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>57</td>
<td>BY</td>
<td>100</td>
<td>Total C N O S 775 500 148 123 4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>57</td>
<td>DY</td>
<td>100</td>
<td>Total C N O S 775 500 148 123 4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 58 is a protein called 50S RIBOSOMAL PROTEIN L25.
- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

<table>
<thead>
<tr>
<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>58</td>
<td>BZ</td>
<td>176</td>
<td>Total C N O S</td>
<td>1403 897 252 252 2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>58</td>
<td>DZ</td>
<td>176</td>
<td>Total C N O S</td>
<td>1403 897 252 252 2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 60 is GUANOSINE-5’-DIPHOSPHATE (three-letter code: GDP) (formula: C_{10}H_{15}N_{5}O_{11}P_{2}).

![GDP Image]
- Molecule 61 is KIRROMYCIN (three-letter code: KIR) (formula: C_{43}H_{60}N_{2}O_{12}).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>AZ</td>
<td>1</td>
<td>Total C N O P</td>
<td>28 10 5 11 2</td>
<td>0</td>
</tr>
<tr>
<td>60</td>
<td>CZ</td>
<td>1</td>
<td>Total C N O P</td>
<td>28 10 5 11 2</td>
<td>0</td>
</tr>
</tbody>
</table>

![KIR structure image](image-url)


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 RNA

Chain AA:
Chain CA:

- Molecule 1: 16S RNA
- Molecule 2: 30S RIBOSOMAL PROTEIN S2
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AD:

- 5%
- 37%
- 49%
- 13%

• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain CD:

- 3%
- 37%
- 48%
- 13%

• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AE:

- 51%
- 36%
- 6%
- 7%

• 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

- 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

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: E-SITE TRNA PHE OR P-SITE TRNA PHE

Chain AV:

• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

Chain AW:

• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

Chain CV:

• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

Chain CW:
• Molecule 23: MRNA

Chain AX:

• Molecule 24: A-SITE TRNA TRP-TRNA TRP

Chain AY:

• Molecule 24: A-SITE TRNA TRP-TRNA TRP

Chain CY:

• Molecule 25: ELONGATION FACTOR TU

Chain AZ:
• Molecule 25: ELONGATION FACTOR TU

Chain CZ:

• Molecule 26: 50S RIBOSOMAL PROTEIN L27

Chain B0:

• Molecule 26: 50S RIBOSOMAL PROTEIN L27

Chain D0:
• Molecule 27: 50S RIBOSOMAL PROTEIN L28

Chain B1:

• Molecule 27: 50S RIBOSOMAL PROTEIN L28

Chain D1:

• Molecule 28: 50S RIBOSOMAL PROTEIN L29

Chain B2:

• Molecule 28: 50S RIBOSOMAL PROTEIN L29

Chain D2:

• Molecule 29: 50S RIBOSOMAL PROTEIN L30
• Molecule 32: 50S RIBOSOMAL PROTEIN L33

Chain D6:

• Molecule 33: 50S RIBOSOMAL PROTEIN L34

Chain B7:

• Molecule 33: 50S RIBOSOMAL PROTEIN L34

Chain D7:

• Molecule 34: 50S RIBOSOMAL PROTEIN L35

Chain B8:

• Molecule 34: 50S RIBOSOMAL PROTEIN L35

Chain D8:

• Molecule 35: 50S RIBOSOMAL PROTEIN L36

Chain B9:

• Molecule 35: 50S RIBOSOMAL PROTEIN L36

Chain D9:
• Molecule 36: 23S RIBOSOMAL RNA

Chain BA:
Molecule 36: 23S RIBOSOMAL RNA

Chain DA:
• Molecule 37: 5S RIBOSOMAL RNA

Chain BB:

• Molecule 37: 5S RIBOSOMAL RNA

Chain DB:

• Molecule 38: 50S RIBOSOMAL PROTEIN L1

Chain BC:
• Molecule 38: 50S RIBOSOMAL PROTEIN L1

Chain DC:

• Molecule 39: 50S RIBOSOMAL PROTEIN L2

Chain BD:

• Molecule 39: 50S RIBOSOMAL PROTEIN L2

Chain DD:
• Molecule 40: 50S RIBOSOMAL PROTEIN L3

Chain BE:

• Molecule 40: 50S RIBOSOMAL PROTEIN L3

Chain DE:

• Molecule 41: 50S RIBOSOMAL PROTEIN L4

Chain BF:
• Molecule 41: 50S RIBOSOMAL PROTEIN L4

Chain DF:

• Molecule 42: 50S RIBOSOMAL PROTEIN L5

Chain BG:

• Molecule 42: 50S RIBOSOMAL PROTEIN L5

Chain DG:
- Molecule 43: 50S RIBOSOMAL PROTEIN L6
  Chain BH:

- Molecule 43: 50S RIBOSOMAL PROTEIN L6
  Chain DH:

- Molecule 44: 50S RIBOSOMAL PROTEIN L10
  Chain BJ:

- Molecule 44: 50S RIBOSOMAL PROTEIN L10
  Chain DJ:
• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain BK:

• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain DK:

• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN:

• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN:

• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain BO:
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain DO:

• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain BP:

• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain DP:

• Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain BQ:
• Molecule 49: 50S RIBOSOMAL PROTEIN L16

• Molecule 50: 50S RIBOSOMAL PROTEIN L17

• Molecule 51: 50S RIBOSOMAL PROTEIN L18
• Molecule 52: 50S RIBOSOMAL PROTEIN L19

Chain BT:

• Molecule 52: 50S RIBOSOMAL PROTEIN L19

Chain DT:

• Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain BU:

• Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain DU:
- Molecule 54: 50S RIBOSOMAL PROTEIN L21

Chain BV:

- Molecule 54: 50S RIBOSOMAL PROTEIN L21

Chain DV:

- Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain BW:

- Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain DW:

- Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain BX:

- Molecule 56: 50S RIBOSOMAL PROTEIN L23
• Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain DX:

• Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain BY:

• Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain DY:

• Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain BZ:

• Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain DZ:
4 Data and refinement statistics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>Space group</td>
<td>P 1 21 1</td>
<td>Depositor</td>
</tr>
<tr>
<td>Cell constants</td>
<td>290.20Å 269.20Å 404.00Å</td>
<td>Depositor</td>
</tr>
<tr>
<td>a, b, c, α, β, γ</td>
<td>90.00° 91.54° 90.00°</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution (Å)</td>
<td>50.00 – 3.10</td>
<td>Depositor</td>
</tr>
<tr>
<td></td>
<td>49.51 – 2.90</td>
<td>EDS</td>
</tr>
<tr>
<td>% Data completeness</td>
<td>99.8 (50.00-3.10)</td>
<td>Depositor</td>
</tr>
<tr>
<td>(in resolution range)</td>
<td>92.4 (49.51-2.90)</td>
<td>EDS</td>
</tr>
<tr>
<td>R&lt;sub&gt;merge&lt;/sub&gt;</td>
<td>0.02</td>
<td>Depositor</td>
</tr>
<tr>
<td>R&lt;sub&gt;sym&lt;/sub&gt; (Not available)</td>
<td></td>
<td>Depositor</td>
</tr>
<tr>
<td>&lt; I/σ(I) &gt;&lt;sup&gt;1&lt;/sup&gt;</td>
<td>1.36 (at 2.91Å)</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Refinement program</td>
<td>CNS 1.2</td>
<td>Depositor</td>
</tr>
<tr>
<td>R, R&lt;sub&gt;free&lt;/sub&gt;</td>
<td>0.237 , 0.264</td>
<td>Depositor</td>
</tr>
<tr>
<td></td>
<td>0.237 , 0.263</td>
<td>DCC</td>
</tr>
<tr>
<td>R&lt;sub&gt;free&lt;/sub&gt; test set</td>
<td>55683 reflections (5.25%)</td>
<td>DCC</td>
</tr>
<tr>
<td>Wilson B-factor (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>79.7</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Anisotropy</td>
<td>0.030</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Bulk solvent ρ&lt;sub&gt;sol&lt;/sub&gt;(e/Å&lt;sup&gt;3&lt;/sup&gt;), B&lt;sub&gt;sol&lt;/sub&gt;(Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>0.27, 67.8</td>
<td>EDS</td>
</tr>
<tr>
<td>L-test for twinning&lt;sup&gt;2&lt;/sup&gt;</td>
<td>&lt;</td>
<td>L</td>
</tr>
<tr>
<td>Estimated twinning fraction</td>
<td>0.026 for h,-k,-l</td>
<td>Xtriage</td>
</tr>
<tr>
<td>F&lt;sub&gt;o&lt;/sub&gt;-F&lt;sub&gt;c&lt;/sub&gt; correlation</td>
<td>0.93</td>
<td>EDS</td>
</tr>
<tr>
<td>Total number of atoms</td>
<td>307330</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Average B, all atoms (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>100.0</td>
<td>wwPDB-VP</td>
</tr>
</tbody>
</table>

Xtriage’s analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.44% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of < |L| >, < L<sup>2</sup> > 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: OMC, GDP, ZN, H2U, KIR, MIA, 4SU, 7MG, 5MU, PSU

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).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RMSZ</td>
<td>#</td>
</tr>
<tr>
<td>1</td>
<td>AA</td>
<td>0.57</td>
<td>6/36325 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>CA</td>
<td>0.64</td>
<td>11/36325 (0.0%)</td>
</tr>
<tr>
<td>2</td>
<td>AB</td>
<td>0.49</td>
<td>0/1935</td>
</tr>
<tr>
<td>2</td>
<td>CB</td>
<td>0.49</td>
<td>0/1935</td>
</tr>
<tr>
<td>3</td>
<td>AC</td>
<td>0.53</td>
<td>0/1636</td>
</tr>
<tr>
<td>3</td>
<td>CC</td>
<td>0.58</td>
<td>0/1636</td>
</tr>
<tr>
<td>4</td>
<td>AD</td>
<td>0.45</td>
<td>0/1733</td>
</tr>
<tr>
<td>4</td>
<td>CD</td>
<td>0.43</td>
<td>0/1733</td>
</tr>
<tr>
<td>5</td>
<td>AE</td>
<td>0.56</td>
<td>0/1162</td>
</tr>
<tr>
<td>5</td>
<td>CE</td>
<td>0.59</td>
<td>0/1162</td>
</tr>
<tr>
<td>6</td>
<td>AF</td>
<td>0.43</td>
<td>0/856</td>
</tr>
<tr>
<td>6</td>
<td>CF</td>
<td>0.42</td>
<td>0/856</td>
</tr>
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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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All (41) bond length outliers are listed below:

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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 34.

All (17315) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
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36:BA:673:C:H6 | 36:BA:673:C:H5' | 1.42 | 0.83
36:DA:2317:C:C2' | 36:DA:2318:G:H5' | 2.07 | 0.83
36:BA:1539:G:H2' | 36:BA:1540:U:H5' | 1.60 | 0.83
48:BP:58:THR:C | 48:BP:60:MET:H | 1.79 | 0.83
36:DA:673:C:H5' | 36:DA:673:C:H6 | 1.43 | 0.83
42:DG:47:LYS:HG3 | 42:DG:81:LYS:HG3 | 1.58 | 0.83
52:DT:100:TYR:HD2 | 52:DT:103:ARG:HH21 | 1.27 | 0.83
16:AP:20:VAL:HG21 | 16:AP:32:TYR:HB2 | 1.61 | 0.83
36:BA:1602:U:H3' | 36:BA:1603:A:C5' | 2.08 | 0.83
52:BT:32:TYR:CD2 | 52:BT:81:PRO:HB2 | 2.13 | 0.83
1:CA:8:A:H62 | 1:CA:8:A:H62 | 1.43 | 0.83
36:BA:1378:A:H4' | 36:BA:1379:A:OP1 | 1.76 | 0.83
36:BA:612:C:H2' | 36:BA:613:G:C5' | 2.08 | 0.83
42:BG:131:TYR:HB3 | 42:BG:159:VAL:CG1 | 2.08 | 0.83
36:BA:1227:G:OP1 | 53:BU:13:LYS:HD2 | 1.78 | 0.83
4:AD:100:ARG:NH2 | 4:AD:118:ARG:HH12 | 1.76 | 0.83

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### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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29:B3:6:VAL:HG12 | 29:B3:56:VAL:HG22 | 1.67 | 0.77
34:B8:32:LEU:HD13 | 36:BA:2391:G:H3' | 1.67 | 0.77
36:BA:28:A:N6 | 36:BA:512:G:H1' | 2.00 | 0.77
36:DA:2186:G:H2' | 36:DA:2187:G:C8 | 2.20 | 0.77
36:DA:28:A:N6 | 36:DA:512:G:H1' | 2.00 | 0.77
36:BA:1826:G:H4' | 39:BD:242:ARG:NH2 | 2.00 | 0.76
36:BA:658:C:H2' | 36:BA:659:C:H6 | 1.51 | 0.76
50:BR:72:ASP:HB3 | 50:BR:75:LEU:HB3 | 1.65 | 0.76
54:BV:29:PRO:HA | 54:BV:61:VAL:HG23 | 1.65 | 0.76
1:CA:1305:G:H5' | 21:CU:4:GLY:HA3 | 1.65 | 0.76
41:DF:132:VAL:HG13 | 41:DF:133:ASN:ND2 | 2.00 | 0.76
58:DZ:70:LEU:HD22 | 58:DZ:91:LEU:HD21 | 1.67 | 0.76
2:CB:114:ARG:NH1 | 2:CB:118:LEU:HD21 | 2.00 | 0.76
36:DA:2796:U:H3' | 36:DA:2799:C:H5' | 1.66 | 0.76
38:DC:82:LYS:HA | 38:DC:82:LYS:HE2 | 1.67 | 0.76
33:B7:10:ARG:HG2 | 33:B7:10:ARG:HH11 | 1.51 | 0.76
36:BA:1681:G:O2' | 36:BA:1762:G:H2' | 1.85 | 0.76
36:BA:2305:G:H3' | 36:BA:2306:G:H5'' | 1.68 | 0.76
51:BS:66:ALA:HA | 51:BS:69:VAL:HG12 | 1.66 | 0.76
4:CD:28:SER:HB3 | 4:CD:29:PRO:CD | 2.15 | 0.76
22:CW:74:C:H6 | 22:CW:74:C:H5 | 1.50 | 0.76
29:D3:35:ARG:HH11 | 29:D3:35:ARG:CB | 1.96 | 0.76
32:D6:19:ARG:HG2 | 32:D6:20:ASN:N | 1.97 | 0.76
36:DA:2036:C:H6 | 36:DA:2036:C:H5' | 1.49 | 0.76
39:BD:30:GLU:CB | 39:BD:35:LYS:HZ3 | 1.99 | 0.76
41:BF:132:VAL:HG13 | 41:BF:133:ASN:ND2 | 2.00 | 0.76

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## Interatomic Distances and Clash Overlap

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36:DA:2781:A:C5' | 36:DA:2782:G:H5' | 2.21 | 0.70
36:DA:1652:A:H2' | 36:DA:1653:G:H5' | 1.74 | 0.70
36:DA:672:C:H2' | 36:DA:673:C:C5' | 2.21 | 0.70
41:BF:103:LYS:HG3 | 41:BF:106:ARG:NH2 | 2.07 | 0.70
46:BN:3:THR:HG22 | 46:BN:4:TYR:H | 1.57 | 0.70
47:BO:104:ARG:HH21 | 52:BT:33:LYS:CE | 2.03 | 0.70
50:BR:12:ARG:HD3 | 50:BR:16:HIS:ND1 | 2.06 | 0.70
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36:DA:1652:A:H2' | 36:DA:1653:G:H5' | 1.74 | 0.70
36:DA:1652:A:H2' | 36:DA:1653:G:H5' | 1.74 | 0.70
36:DA:674:G:H1 | 41:DF:74:ARG:NH2 | 1.73 | 0.70
51:DS:12:PHE:HD1 | 51:DS:13:ARG:N | 1.90 | 0.70
55:DW:82:LEU:HB3 | 55:DW:84:ARG:NH1 | 2.06 | 0.70
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1:AA:265:G:H5' | 17:AQ:64:PRO:O | 1.91 | 0.70
1:AA:382:A:H2' | 1:AA:383:A:H8 | 1.56 | 0.70
24:AY:77:TRP:HB2 | 25:AZ:285:ASN:HB3 | 1.73 | 0.70
25:AZ:195:TRP:C | 25:AZ:197:ASP:H | 1.94 | 0.70

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### Interatomic Distance and Clash Overlap Table

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### Interatomic Distances and Clash Overlap

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### Atom-1 \ Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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50:BR:21:TYR:OH | 50:BR:43:GLU:HG2 | 2.02 | 0.59

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### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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1:AA:736:C:H2' | 1:AA:737:A:C8 | 2.42 | 0.54
1:AA:80:G:H3' | 1:AA:81:U:C5' | 2.37 | 0.54
1:AA:848:C:O2' | 1:AA:849:C:H5' | 2.07 | 0.54
1:AA:992:U:H4' | 1:AA:993:G:O5' | 2.06 | 0.54
6:AF:30:LEU:O | 6:AF:30:LEU:HD23 | 2.06 | 0.54
16:AP:8:ARG:HB3 | 16:AP:28:ARG:HH12 | 1.69 | 0.54
20:AT:12:ALA:O | 20:AT:15:ARG:HB2 | 2.07 | 0.54
32:B6:36:LEU:HD12 | 32:B6:50:ARG:CZ | 2.38 | 0.54
36:BA:564:C:O2' | 36:BA:565:C:H5' | 2.05 | 0.54
36:BA:675:A:OP1 | 41:BF:63:LYS:HE2 | 2.07 | 0.54
37:BB:7:G:H2' | 37:BB:8:U:H5" | 1.89 | 0.54
42:BG:51:ARG:NH1 | 42:BG:53:LEU:HD13 | 2.21 | 0.54
43:BH:163:TYR:CD1 | 43:BH:163:TYR:N | 2.75 | 0.54
48:BP:9:asn:HB2 | 48:BP:10:PRO:CD | 2.13 | 0.54
26:BO:7:LEU:HB3 | 49:BQ:85:LYS:HD2 | 1.89 | 0.54
50:BR:5:LYS:O | 50:BR:6:SER:HB2 | 2.07 | 0.54
50:BR:75:LEU:O | 50:BR:75:LEU:HD13 | 2.07 | 0.54
58:BZ:149:SER:OG | 58:BZ:173:ALA:HA | 2.07 | 0.54
58:BZ:172:ALA:O | 58:BZ:173:ALA:HB2 | 2.06 | 0.54
1:CA:1145:C:O2' | 1:CA:1146:A:O5' | 2.25 | 0.54
1:CA:1330:U:H3' | 1:CA:1331:G:O4' | 2.07 | 0.54
2:CB:126:GLU:O | 2:CB:129:GLU:HB2 | 2.07 | 0.54
3:CC:165:THR:O | 3:CC:165:THR:HG23 | 2.05 | 0.54
4:CD:129:ASN:HD21 | 4:CD:144:ASP:HA | 1.73 | 0.54
18:CR:67:ALA:O | 18:CR:71:LYS:HG3 | 2.08 | 0.54
29:D3:26:LEU:O | 29:D3:27:GLY:C | 2.45 | 0.54
33:D7:10:ARG:NH1 | 33:D7:10:ARG:HG2 | 2.18 | 0.54
36:DA:201:C:C2' | 36:DA:202:U:H5' | 2.38 | 0.54
36:DA:2133:G:N1 | 36:DA:2157:G:O6 | 2.40 | 0.54

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## Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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32:D6:44:ARG:C | 32:D6:45:LYS:HD2 | 2.28 | 0.54
32:D6:45:LYS:O | 32:D6:46:HIS:ND1 | 2.41 | 0.54
36:DA:1029:A:H2′ | 36:DA:1030:G:O4′ | 2.07 | 0.54
36:DA:1464:C:HO2′ | 36:DA:1528:A:H8 | 1.54 | 0.54
36:DA:2262:U:O2′ | 36:DA:2263:C:H5′ | 2.07 | 0.54
36:DA:2485:G:H5′ | 49:DQ:46:GLN:NE2 | 2.19 | 0.54
36:DA:419:C:H2′ | 36:DA:420:C:H6 | 1.72 | 0.54
36:DA:848:G:N9 | 36:DA:933:A:H8 | 2.05 | 0.54
38:DC:53:ARG:HH12 | 38:DC:55:ASP:CG | 2.11 | 0.54
39:DD:123:ALA:CD1 | 39:DD:113:VAL:CG2 | 2.38 | 0.54
41:DF:59:LEU:HA | 41:DF:192:LEU:HD22 | 2.38 | 0.54
51:DS:73:LEU:C | 51:DS:73:LEU:HD23 | 2.28 | 0.54
1:AA:1116:C:H2′ | 1:AA:1117:G:H5′ | 1.88 | 0.54
1:AA:841:U:H3′ | 1:AA:848:C:O4′ | 2.07 | 0.54
16:AP:53:VAL:CG2 | 16:AP:54:GLU:H | 2.17 | 0.54
22:AV:44:G:H2′ | 22:AV:45:U:H5′ | 1.89 | 0.54
36:BA:1472:A:C2′ | 36:BA:1473:G:H5′ | 2.38 | 0.54
36:BA:2185:C:C2′ | 36:BA:2186:G:H5′ | 2.35 | 0.54
36:BA:2712(A):A:H5′ | 36:BA:2713:A:OP2 | 2.06 | 0.54
36:BA:271(E):U:H2′ | 36:BA:271(F):C:C6 | 2.42 | 0.54
38:BC:114:VAL:HG23 | 38:BC:149:ILE:HD11 | 1.88 | 0.54
43:BH:121:ILE:CD1 | 43:BH:144:VAL:HG21 | 2.36 | 0.54
48:BP:39:LYS:HD2 | 48:BP:40:SER:H | 1.72 | 0.54
51:BS:73:LEU:O | 51:BS:73:LEU:HD23 | 2.07 | 0.54
53:BU:90:VAL:HG21 | 54:BV:47:VAL:CG2 | 2.38 | 0.54
1:CA:1443:G:H5′ | 1:CA:1444:C:OP2 | 2.07 | 0.54
1:CA:167:G:O2′ | 1:CA:168:G:H5′ | 2.07 | 0.54
1:CA:226:G:O2′ | 1:CA:227:G:H5′ | 2.06 | 0.54

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

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### Interatomic distances and overlaps

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26:DO:7:LEU:HD21 | 49:DQ:81:VAL:H13 | 1.91 | 0.52
50:DR:103:ARG:O | 50:DR:111:LEU:HD11 | 2.10 | 0.52
57:DY:85:VAL:O | 57:DY:86:ARG:HB2 | 2.08 | 0.52
58:DZ:124:ILE:HD11 | 58:DZ:137:ILE:HG13 | 1.91 | 0.52
1:AA:1158:C:C2 | 1:AA:1158:C:H2 | 2.57 | 0.52
1:AA:333:G:O2 | 1:AA:334:C:H5 | 2.10 | 0.52
17:AQ:59:ILE:HG21 | 17:AQ:71:PHE:HB3 | 1.89 | 0.52
36:BA:1642:G:O2 | 36:BA:1643:G:H5 | 2.09 | 0.52
36:BA:267:C:H2 | 36:BA:268:C:C6 | 2.43 | 0.52
36:BA:328:U:H4 | 57:BY:68:HIS:NE2 | 2.25 | 0.52
36:BA:906:A:O3 | 53:BU:92:ARG:H2 | 2.09 | 0.52
38:BC:181:PRO:HB2 | 38:BC:183:GLU:OE2 | 2.09 | 0.52
41:BF:185:ASP:O | 41:BF:188:ARG:H2 | 2.09 | 0.52
43:BI:142:ARG:H2 | 43:BI:43:VAL:N | 2.22 | 0.52
48:BP:58:THR:CB | 48:BP:61:ARG:NH2 | 2.20 | 0.52
51:BS:13:ARG:CG | 51:BS:14:VAL:N | 2.68 | 0.52
1:CA:1036:G:H5 | 1:CA:1037:C:H5 | 1.71 | 0.52
1:CA:1288:A:N1 | 1:CA:1371:G:H1 | 2.24 | 0.52
3:CC:131:ARG:HH11 | 3:CC:166:GLU:HG3 | 1.74 | 0.52
1:CA:1047:G:H5 | 14:CN:4:LYS:H2 | 1.91 | 0.52
27:DJ:75:GLU:CB | 27:DJ:77:ALA:N | 2.62 | 0.52
28:DO:32:LEU:O | 28:DO:35:LEU:HB3 | 2.09 | 0.52
36:DA:1311:G:N2 | 36:DA:1603:A:H62 | 2.08 | 0.52
36:DA:1651:G:C2 | 36:DA:2007:C:C2 | 2.97 | 0.52
36:DA:2746:U:HC2 | 36:DA:2747:G:O4 | 2.10 | 0.52
36:DA:479:A:HO2 | 36:DA:481:G:H8 | 1.58 | 0.52

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### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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10:J4:ILE:HB | 10:J4:ILE:CD1 | 2.36 | 0.52
14:CN:26:ARG:HH11 | 14:CN:47:LEU:HD21 | 1.73 | 0.52
28:D2:46:GLN:H | 28:D2:50:ILE:HD13 | 1.75 | 0.52
28:D2:59:ARG:HG3 | 28:D2:60:LEU:H | 1.73 | 0.52
28:D2:25:VAL:HB | 28:D2:61:LEU:HD21 | 1.90 | 0.52
32:D6:22:ALA:C | 32:D6:23:THR:HG23 | 2.28 | 0.52
36:DA:1688:UH1' | 36:DA:1701:A:C6 | 2.45 | 0.52
36:DA:1773:AH2' | 36:DA:1774:C:H5' | 1.91 | 0.52
36:DA:1885:AH5' | 36:DA:1885:A:H8 | 1.75 | 0.52
46:DN:89:LYS:O | 46:DN:93:THR:HG22 | 2.09 | 0.52
54:DV:19:LYS:HZ1 | 54:DV:20:LEU:H | 1.57 | 0.52
57:DY:77:PRO:O | 57:DY:78:ALA:HB2 | 2.09 | 0.52
58:DH:10:ARG:HG3 | 58:DH:36:LYS:HG3 | 1.91 | 0.52
1:AA:1151:A:O2' | 1:AA:1152:A:H8 | 1.92 | 0.52
1:AA:1151:A:O2' | 1:AA:1152:A:H8 | 1.92 | 0.52
1:AA:1151:A:O2' | 1:AA:1152:A:H8 | 1.92 | 0.52
1:AA:66:G:H4' | 1:AA:173:U:C5 | 2.44 | 0.52
1:AA:66:G:H4' | 1:AA:173:U:C5 | 2.44 | 0.52
1:AA:261:U:O2 | 1:AA:263:A:C8 | 2.62 | 0.52
1:AA:946:AH2' | 1:AA:947:G:H8 | 1.73 | 0.52
2:AB:87:ARG:HH12 | 2:AB:223:ILE:HD11 | 1.75 | 0.52
8:AH:10:LEU:HD22 | 8:AH:83:ILE:HD11 | 1.92 | 0.52
13:AM:12:ASN:N | 13:AM:12:ASN:HD22 | 2.02 | 0.52
22:AW:5:G:C6 | 22:AW:6:G:C5 | 2.97 | 0.52
27:BI:70:VAL:O | 27:BI:74:VAL:HG23 | 2.10 | 0.52
29:BS:31:LEU:C | 29:BS:33:GLN:H | 2.13 | 0.52
29:BS:37:LYS:O | 29:BS:54:VAL:HA | 2.10 | 0.52
34:BS:61:LEU:N | 34:BS:63:PRO:HD2 | 2.24 | 0.52
35:B9:3:VAL:HG21 | 36:BA:2539:C:H4' | 1.91 | 0.52
36:BA:1411:CH2' | 36:BA:1412:A:H8 | 1.75 | 0.52
36:BA:2262:U:H4' | 36:BA:2328:A:C2 | 2.44 | 0.52
36:BA:2358:G:H2' | 36:BA:2359:C:H6 | 1.75 | 0.52
36:BA:703:U:H2' | 36:BA:704:G:H5' | 1.92 | 0.52
36:BA:83:G:O2' | 36:BA:84:A:C8 | 2.58 | 0.52

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### Interatomic Distances

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### Interatomic distances and clash overlap

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41:BF:134:GLY:O | 41:BF:135:LYS:HE3 | 2.12 | 0.50
44:BJ:33:UNK:C | 44:BJ:34:UNK:C | 2.59 | 0.50
48:BP:146:VAL:CG2 | 48:BP:147:LEU:H | 2.05 | 0.50
50:BR:59:ASP:O | 50:BR:60:LEU:CB | 2.60 | 0.50
51:BS:22:GLY:O | 51:BS:23:ARG:O | 2.30 | 0.50
52:BT:32:TYR:N | 52:BT:32:TYR:CD1 | 2.77 | 0.50
52:BT:33:LYS:HG3 | 52:BT:43:GLN:HB2 | 1.94 | 0.50
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57:BY:6:HIS:N | 57:BY:6:HIS:CD2 | 2.79 | 0.50
58:BZ:128:VAL:HG22 | 58:BZ:129:SER:N | 2.27 | 0.50
1:CA:44:G:C2 | 1:CA:45:U:H1' | 2.46 | 0.50
1:CA:476:G:H2' | 1:CA:477:A:H8 | 1.77 | 0.50
17:CQ:18:THR:HG23 | 17:CQ:69:LYS:HZ3 | 1.74 | 0.50
20:CT:86:ARG:HH11 | 20:CT:86:ARG:HG3 | 1.76 | 0.50
27:D1:5:CYS:CB | 27:D1:8:SER:HG | 2.24 | 0.50
34:D8:41:ILE:HD12 | 36:DA:2419:U:P | 2.52 | 0.50
36:DA:528:A:C2 | 36:DA:2043:C:O5' | 2.63 | 0.50
36:DA:2415:G:H2' | 36:DA:2416:G:H6 | 1.77 | 0.50
36:DA:2653:U:H3' | 36:DA:2654:A:C8 | 2.46 | 0.50
36:DA:2843:G:N2 | 36:DA:2875:C:C2 | 2.80 | 0.50
36:DA:247:G:H4 | 36:DA:386:G:C5 | 2.46 | 0.50
40:DE:2:LYS:HD3 | 40:DE:95:ILE:CG2 | 2.41 | 0.50
43:DH:83:TYR:O | 43:DH:84:SER:O | 2.30 | 0.50
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1:AA:339:C:OP2 | 47:BO:97:ARG:HN1 | 2.45 | 0.49
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1:AA:631:G:H2' | 1:AA:632:A:C8 | 2.47 | 0.49

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36:BA:2777:G:C4' | 36:BA:2778:A:H5' | 2.44 | 0.47
36:BA:2869:G:H2' | 36:BA:2870:C:O4' | 2.14 | 0.47
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50:BR:29:LEU:C | 50:BR:30:THR:HG22 | 2.34 | 0.47
1:CA:1320:C:H5' | 19:CS:70:LYS:HG3 | 1.95 | 0.47
4:CD:12:THR:N | 4:CD:147:ALA:O | 2.47 | 0.47
9:CI:6:GLY:CA | 9:CI:84:ALA:HB2 | 2.44 | 0.47
14:CN:13:THR:H | 14:CN:14:PRO:HD2 | 1.76 | 0.47
24:CY:6:C:H42 | 24:CY:67:G:H1 | 1.61 | 0.47
36:DA:2746:U:H5' | 43:DH:139:GLN:HA | 1.95 | 0.47
46:DN:1:MET:C | 46:DN:1:MET:SD | 2.93 | 0.47

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### Table: Interatomic Distances and Clash Overlap

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## Interatomic distance and Clash overlap

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### Interatomic distances and clash overlap

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### Interatomic Distances and Clash Overlap

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### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
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36:DA:2157:G:C3' | 36:DA:2157:G:C8 | 2.99 | 0.45
36:DA:2326:C:H41 | 36:DA:2389:G:H1 | 1.65 | 0.45
36:DA:603:A:N6 | 36:DA:626:U:H4' | 2.31 | 0.45
38:DC:118:ASP:CG | 38:DC:119:VAL:N | 2.70 | 0.45
38:DC:192:PHE:O | 38:DC:192:PHE:CG | 2.69 | 0.45
41:DF:107:LYS:HE3 | 41:DF:205:ARG:HG2 | 1.98 | 0.45
56:DX:64:LYS:HD3 | 56:DX:73:ARG:NH2 | 2.31 | 0.45
57:DY:3:VAL:O | 57:DY:3:VAL:HG12 | 2.16 | 0.45
58:AZ:7:ALA:O | 58:AZ:61:LEU:HA | 2.17 | 0.45
1:AA:192:U:H1' | 20:AT:103:GLY:CA | 2.44 | 0.45
1:AA:719:C:C2 | 18:AR:50:ILE:HG12 | 2.51 | 0.45
2:AB:165:VAL:CG2 | 2:AB:166:ASP:N | 2.71 | 0.45
3:AC:35:GLU:CD | 3:AC:95:THR:HG23 | 2.38 | 0.45
31:B5:16:ARG:NH1 | 31:B5:17:ASP:OD1 | 2.50 | 0.45
32:B6:26:ASN:HB3 | 32:B6:27:LYS:H | 1.46 | 0.45
36:BA:1131:G:O6 | 36:BA:2040:C:H1' | 2.17 | 0.45
36:BA:1375:C:O2' | 36:BA:1376:C:H5' | 2.17 | 0.45
36:BA:562:U:O4 | 36:BA:2036:C:H1' | 2.16 | 0.45
36:BA:2188:C:H2' | 36:BA:2189:U:C5 | 2.52 | 0.45
36:BA:2464:C:HO2' | 36:BA:2465:C:P | 2.39 | 0.45
36:BA:271(K):U:C3' | 36:BA:271(L):U:H5' | 2.47 | 0.45
36:BA:2762:G:H2' | 36:BA:2763:G:C5' | 2.46 | 0.45

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## Table of Interatomic Distances and Clash Overlap

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<th>Clash overlap (Å)</th>
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All (4) 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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
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<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
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<td>45 (19%)</td>
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<td>171 (84%)</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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There are no RNA pucker outliers to report.

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

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

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).

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## Bond lengths

| Mol | Type | Chain | Res | Link | Counts | RMS | |Z| > 2 | |Z| > 2 |
|-----|------|-------|-----|------|--------|-----|-----|---|---|
| 24  | 7MG  | AY    | 46  | 24   | 20,26,27 | 1.67 | 3 (15%) | 22,39,42 | 2.23 | 2 (9%) |
| 24  | 5MU  | AY    | 54  | 24   | 14,22,23 | 1.23 | 2 (14%) | 16,32,35 | 4.27 | 3 (18%) |
| 24  | PSU  | AY    | 55  | 24   | 16,21,22 | 1.11 | 2 (12%) | 20,30,33 | 3.73 | 8 (40%) |
| 24  | 4SU  | AY    | 8   | 24   | 14,21,22 | 1.41 | 4 (28%) | 15,30,33 | 2.65 | 2 (13%) |
| 24  | H2U  | CY    | 16  | 24   | 17,21,22 | 1.00 | 1 (5%)  | 21,30,33 | 1.86 | 4 (19%) |
| 24  | H2U  | CY    | 17  | 24   | 17,21,22 | 1.11 | 2 (11%) | 21,30,33 | 1.96 | 5 (23%) |
| 24  | H2U  | CY    | 20  | 24   | 17,21,22 | 0.85 | 1 (5%)  | 21,30,33 | 1.95 | 5 (23%) |
| 24  | OMC  | CY    | 32  | 24   | 15,22,23 | 0.73 | 0       | 19,31,34 | 0.77 | 1 (5%)  |
| 24  | MIA  | CY    | 37  | 24   | 23,31,32 | 1.09 | 2 (8%)  | 25,44,47 | 1.66 | 3 (12%) |
| 24  | 7MG  | CY    | 46  | 24   | 20,26,27 | 1.78 | 4 (20%) | 22,39,42 | 2.23 | 2 (9%)  |
| 24  | 5MU  | CY    | 54  | 24   | 14,22,23 | 1.28 | 3 (21%) | 16,32,35 | 4.27 | 3 (18%) |
| 24  | PSU  | CY    | 55  | 24   | 16,21,22 | 1.09 | 2 (12%) | 20,30,33 | 3.66 | 8 (40%) |
| 24  | 4SU  | CY    | 8   | 24   | 14,21,22 | 1.36 | 3 (21%) | 15,30,33 | 2.63 | 2 (13%) |

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.

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There are no chirality outliers.

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There are no ring outliers.

14 monomers are involved in 19 short contacts:

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5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 12 ligands modelled in this entry, 8 are monoatomic - leaving 4 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).

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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.

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There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 45 short contacts:

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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

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6.3 Carbohydrates

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6.4 Ligands

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