Full wwPDB X-ray Structure Validation Report

Aug 10, 2020 – 05:37 AM BST

PDB ID : 1RWT
Title : Crystal Structure of Spinach Major Light-harvesting complex at 2.72 Å
Authors : Liu, Z.; Yan, H.; Wang, K.; Kuang, T.; Zhang, J.; Gui, L.; An, X.; Chang, W.
Deposited on : 2003-12-17
Resolution : 2.72 Å (reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
with specific help available everywhere you see the symbol.

The following versions of software and data (see references) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.13.1
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 2.72 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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<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<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 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 $\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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The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

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2 Entry composition

There are 11 unique types of molecules in this entry. The entry contains 29039 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 protein called Chlorophyll A-B binding protein, chloroplast.

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- Molecule 2 is nonyl beta-D-glucopyranoside (three-letter code: BNG) (formula: C_{15}H_{30}O_{6}).
**Molecule 3** is SODIUM ION (three-letter code: NA) (formula: Na).

**Molecule 4** is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,
3’-DIOL (three-letter code: LUT) (formula: C\textsubscript{40}H\textsubscript{56}O\textsubscript{2}).

![LUT molecule](image)

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- Molecule 5 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'-TETRAHYDRO-BETA, BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C_{40}H_{56}O_{4}).

![XAT molecule diagram]

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- Molecule 6 is (1R,3R)-6-{(3E,5E,7E,9E,11E,13E,15E,17E)-18-[(1S,4R,6R)-4-HYDROXY-2, 2,6-TRIMETHYL-7-OXABICYCLO[4.1.0]HEPT-1-YL]-3,7,12,16-TETRAMETHYLOCTA DECA-1,3,5,7,9,11,13,15,17-NONAENYLIDENE}-1,5,5-TRIMETHYLCYCLOHEXANE-1, 3-DIOL (three-letter code: NEX) (formula: C\textsubscript{40}H\textsubscript{56}O\textsubscript{4}).

![NEX](image)

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- Molecule 7 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C_{38}H_{75}O_{10}P).

![LHG](image)

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- Molecule 8 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).

![DGD](image)

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- Molecule 9 is CHLOROPHYLL B (three-letter code: CHL) (formula: C_{55}H_{70}Mg_{4}N_{6}O_{6}).

![Molecule 9 is CHLOROPHYLL B](image)

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- Molecule 10 is CHLOROPHYLL A (three-letter code: CLA) (formula: C\textsubscript{55}H\textsubscript{72}Mg\textsubscript{4}O\textsubscript{5}).
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### 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 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**: Chlorophyll A-B binding protein, chloroplast

Chain A:

Chain B:

Chain C:

Chain D:
- Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain E:

- Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain F:

- Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain G:

- Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain H:
• Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain I:

• Molecule 1: Chlorophyll A-B binding protein, chloroplast

Chain J:
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 1.79% of the height of the origin peak. No significant pseudotranslation is detected.

---

1. Intensities estimated from amplitudes.
2. Theoretical 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: LHG, LUT, DGD, XAT, CHL, CLA, NEX, NA, BNG

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).

| Mol | Chain | Bond lengths RMSZ | #|$|Z|>5$ | Bond angles RMSZ | #|$|Z|>5$ |
|-----|-------|-------------------|--------|------------------|--------|
| 1   | A     | 0.35              | 0/1713 | 0.55             | 0/2333 |
| 1   | B     | 0.37              | 0/1713 | 0.58             | 0/2333 |
| 1   | C     | 0.37              | 0/1713 | 0.58             | 0/2333 |
| 1   | D     | 0.37              | 0/1713 | 0.58             | 0/2333 |
| 1   | E     | 0.36              | 0/1713 | 0.57             | 0/2333 |
| 1   | F     | 0.37              | 0/1722 | 0.58             | 0/2344 |
| 1   | G     | 0.37              | 0/1713 | 0.58             | 0/2333 |
| 1   | H     | 0.36              | 0/1713 | 0.56             | 0/2333 |
| 1   | I     | 0.36              | 0/1713 | 0.57             | 0/2333 |
| 1   | J     | 0.36              | 0/1713 | 0.56             | 0/2333 |
| All | All   | 0.36              | 0/17139| 0.57             | 0/23341|

There are no bond length outliers.
There are no bond angle outliers.
There are no chirality outliers.
There are no planarity outliers.

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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<th>H(added)</th>
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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 7.

All (388) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
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<th>Clash overlap (Å)</th>
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<td>2.52</td>
<td>0.40</td>
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</table>

There are no symmetry-related clashes.
5.3 Torsion angles

5.3.1 Protein backbone

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

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
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<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>216/232 (93%)</td>
<td>207 (96%)</td>
<td>9 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>216/232 (93%)</td>
<td>210 (97%)</td>
<td>6 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>216/232 (93%)</td>
<td>209 (97%)</td>
<td>7 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>216/232 (93%)</td>
<td>208 (96%)</td>
<td>8 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>216/232 (93%)</td>
<td>208 (96%)</td>
<td>8 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
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<td>211 (97%)</td>
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<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
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<td>216/232 (93%)</td>
<td>209 (97%)</td>
<td>7 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
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<td>10 (5%)</td>
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<td>100 100</td>
</tr>
<tr>
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<td>209 (97%)</td>
<td>7 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>1</td>
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<td>216/232 (93%)</td>
<td>207 (96%)</td>
<td>9 (4%)</td>
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<td>100 100</td>
</tr>
<tr>
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<td>All</td>
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<td>2084 (96%)</td>
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There are no Ramachandran outliers to report.

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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<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
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<td>167 (99%)</td>
<td>1 (1%)</td>
<td>86 94</td>
</tr>
<tr>
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<td>168/180 (93%)</td>
<td>165 (98%)</td>
<td>3 (2%)</td>
<td>59 82</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>168/180 (93%)</td>
<td>166 (99%)</td>
<td>2 (1%)</td>
<td>71 88</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>168/180 (93%)</td>
<td>165 (98%)</td>
<td>3 (2%)</td>
<td>59 82</td>
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Continued from previous page...

<table>
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<th>Mol</th>
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<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
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<td>165 (98%)</td>
<td>3 (2%)</td>
<td>59 82</td>
</tr>
<tr>
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<td>165 (98%)</td>
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<td>166 (99%)</td>
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<td>167 (99%)</td>
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<td>86 94</td>
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<td>I</td>
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<td>165 (98%)</td>
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<td>59 82</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
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<td>86 94</td>
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<tr>
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<td>All</td>
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<td>1658 (99%)</td>
<td>23 (1%)</td>
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All (23) residues with a non-rotameric sidechain are listed below:

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Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

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5.3.3 RNA

There are no RNA molecules in this entry.

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

Of 211 ligands modelled in this entry, 1 is monoatomic - leaving 210 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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9 | F | 606 | CHL | C2-C3 | 3.02 | 1.41 | 1.32 
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9 | J | 608 | CHL | O2D-CGD | 3.02 | 1.40 | 1.33 
10 | H | 613 | CLA | O2A-CGA | 3.02 | 1.42 | 1.33 
9 | B | 608 | CHL | C2-C3 | 3.01 | 1.40 | 1.33 
10 | H | 612 | CLA | O2D-CED | -3.01 | 1.38 | 1.45 
10 | J | 612 | CLA | C2-C3 | 3.01 | 1.40 | 1.33 
4 | G | 6621 | LUT | C23-C24 | 3.01 | 1.54 | 1.50 
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10 | F | 612 | CLA | C16-C15-C13 | 3.64 | 127.68 | 115.92
9 | B | 608 | CHL | CBA-CAA-C2A | 3.64 | 124.60 | 113.86
10 | J | 602 | CLA | O2A-CGA-CBA | 3.64 | 123.32 | 111.91
9 | F | 608 | CHL | C1-C2-C3 | 3.63 | 132.33 | 126.04
10 | G | 611 | CLA | C1D-CHD-C4C | 3.63 | 127.35 | 122.56
9 | H | 606 | CHL | CED-O2D-CGD | 3.63 | 124.15 | 115.94
10 | J | 610 | CLA | CED-O2D-CGD | 3.63 | 124.14 | 115.94
9 | I | 608 | CHL | C16-C15-C13 | 3.62 | 127.62 | 115.92
10 | J | 613 | CLA | CBA-CAA-C2A | 3.62 | 124.47 | 113.86
10 | H | 612 | CLA | CED-O2D-CGD | 3.62 | 124.15 | 115.94
9 | I | 608 | CHL | C16-C15-C13 | 3.62 | 127.62 | 115.92
9 | J | 611 | CLA | CBA-CAA-C2A | 3.62 | 124.47 | 113.86
10 | C | 602 | CLA | C4-C3-C5 | 3.63 | 121.37 | 115.27
9 | G | 605 | CHL | OBD-CAD-CBD | -3.63 | 120.71 | 125.89
10 | I | 611 | CLA | C1D-CHD-C4C | 3.63 | 127.34 | 122.56
10 | H | 602 | CLA | C6-C7-C8 | -3.62 | 104.20 | 115.94
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10 | F | 604 | CLA | C4A-C2A-C3A | -3.62 | 102.86 | 112.78
10 | B | 611 | CLA | CAA-C2A-C1A | 3.62 | 123.84 | 111.97
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10 | B | 611 | CLA | OBD-CAD-CBD | -3.62 | 120.72 | 125.89
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9 | D | 609 | CHL | C1D-CHD-C4C | 3.62 | 127.33 | 122.56
8 | B | 1632 | DGD | O2G-C1B-C2B | 3.61 | 119.29 | 111.50
9 | E | 608 | CHL | OBD-CAD-CBD | -3.61 | 120.73 | 125.89
9 | E | 609 | CHL | CED-O2D-CGD | 3.61 | 124.10 | 115.94
10 | D | 603 | CLA | C4D-C3D-CAD | -3.61 | 106.46 | 108.47
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10 | C | 603 | CLA | CED-O2D-CGD | 3.61 | 124.09 | 115.94
9 | J | 608 | CHL | OBD-CAD-CBD | -3.61 | 120.74 | 125.89
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10 | C | 610 | CLA | CMC-C2C-C1C | 3.60 | 130.52 | 125.04
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9 | B | 605 | CHL | O2A-CGA-CBA | 3.59 | 123.18 | 111.91
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### Full wwPDB X-ray Structure Validation Report

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10 | I | 613 | CLA | C5-C3-C2 | 2.40 | 125.98 | 121.12
10 | H | 602 | CLA | C9-C8-C7 | 2.40 | 119.99 | 111.29
7 | D | 3630 | LHG | O10-C23-C24 | -2.40 | 114.36 | 123.73
10 | H | 603 | CLA | C1-C2-C3 | 2.40 | 130.19 | 126.04
9 | G | 605 | CHL | CED-O2D-CGD | 2.40 | 121.36 | 115.94
10 | C | 612 | CLA | C11-C12-C13 | 2.40 | 123.68 | 115.92
9 | J | 601 | CHL | CMB-C2B-C3B | 2.40 | 129.17 | 124.68
9 | G | 607 | CHL | C6-C5-C3 | 2.40 | 119.74 | 113.45
6 | A | 623 | NEX | C24-C23-C22 | 2.39 | 114.36 | 110.77
8 | E | 4632 | DGD | O3G-C1D-C2D | 2.39 | 112.04 | 108.30
4 | A | 621 | LUT | C1-C6-C5 | -2.39 | 119.24 | 122.61
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10 | I | 611 | CLA | C4-C3-C5 | -2.39 | 111.25 | 115.27
9 | J | 601 | CHL | C7-C6-C5 | -2.39 | 106.88 | 113.36
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10 | F | 604 | CLA | C6-C5-C3 | 2.39 | 119.71 | 113.45
10 | I | 602 | CLA | C6-C7-C8 | -2.38 | 108.21 | 115.92
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7 | I | 8630 | LHG | O7-C7-C8 | 2.38 | 116.64 | 111.50
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10 | C | 613 | CLA | CMD-C2D-C3D | 2.37 | 129.11 | 124.68
9 | G | 607 | CHL | CED-O2D-CGD | 2.37 | 121.29 | 115.94
10 | B | 602 | CLA | C12-C11-C10 | -2.37 | 102.36 | 113.24
5 | B | 5622 | XAT | C37-C21-C22 | -2.37 | 104.87 | 108.98
9 | H | 607 | CHL | CED-O2D-CGD | 2.36 | 121.29 | 115.94
9 | F | 609 | CHL | C16-C15-C13 | 2.36 | 123.56 | 115.92
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9 | I | 605 | CHL | CAA-C2A-C3A | -2.36 | 106.30 | 112.78
10 | H | 612 | CLA | CED-O2D-CGD | 2.36 | 121.28 | 115.94
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9 | C | 609 | CHL | C8-C10-C11-C12
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9 | C | 609 | CHL | CBA-CGA-O2A-C1
8 | E | 4632 | DGD | CFA-CGA-CHA-CIA
7 | G | 6630 | LHG | C7-C8-C9-C10
10 | I | 610 | CLA | C8-C10-C11-C12
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7 | D | 3630 | LHG | O6-C4-C5-C6
10 | H | 613 | CLA | O1D-CGD-O2D-CED
7 | J | 9630 | LHG | C27-C28-C29-C30

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The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.
Ligand NEX D 3623

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA A 602

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA G 610

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA D 611

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA F 602

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA H 611

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA J612

Bond lengths

Bond angles

Torsions

Rings

Ligand LHG H7630

Bond lengths

Bond angles

Torsions

Rings
Page 244

Ligand CLAG 602

Bond lengths

Bond angles

Torsions

Rings

Ligand CHLI 601

Bond lengths

Bond angles

Torsions

Rings

Ligand LUTE 4621

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA B 614

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA D 604

Bond lengths

Bond angles

Torsions

Rings

Ligand LUT C 2620

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA J 602

Bond lengths

Bond angles

Torsions

Rings
Ligand CHL F 608

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA H 612

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA D 603

Bond lengths

Bond angles

Torsions

Rings
Ligand CHL E 607

Bond lengths

Bond angles

Torsions

Rings

Ligand LUT A 620

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA G 613

Bond lengths

Bond angles

Torsions

Rings
Ligand CHL E 605

Bond lengths

Bond angles

Torsions

Rings

Ligand XAT A 622

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA C 614

Bond lengths

Bond angles

Torsions

Rings

Ligand CHL E 609

Bond lengths

Bond angles

Torsions

Rings
Ligand CHL G 606

Bond lengths

Bond angles

Torsions

Rings

Ligand XAT B 5622

Bond lengths

Bond angles

Torsions

Rings
Ligand BNG F 5633

Bond lengths

Bond angles

Torsions

Rings

Ligand CHL A 601

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA H 604

Ligand DGD B 2632

Ligand LUT H 7620
Ligand CHL G 605

Bond lengths

Bond angles

Torsions

Rings
Ligand CHL I 605

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA G 611

Bond lengths

Bond angles

Torsions

Rings

Ligand DGD H 6632

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA H 613

Bond lengths

Bond angles

Torsions

Rings
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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1 | F | 14 | SER | 2.7
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1 | J | 168 | ASP | 2.6
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1 | A | 168 | ASP | 2.6
1 | H | 231 | GLY | 2.6
1 | D | 107 | GLU | 2.5
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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 monosaccharides 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, 95\textsuperscript{th} 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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The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.
Electron density around BNG G 6633:

\[2mF - DF_c\] (at 0.7 rmsd) in gray
\[mF - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)

Electron density around BNG D 3633:

\[2mF - DF_c\] (at 0.7 rmsd) in gray
\[mF - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)
Electron density around BNG C 2633:

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

Electron density around BNG A 633:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around BNG E 4633:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around BNG J 9633:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around BNG H 7633:

2mF - DF (at 0.7 rmsd) in gray
mF - DF (at 3 rmsd) in purple (negative) and green (positive)

Electron density around BNG B 1633:

2mF - DF (at 0.7 rmsd) in gray
mF - DF (at 3 rmsd) in purple (negative) and green (positive)
Electron density around BNG F 5633:

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

Electron density around BNG I 8633:

\[ 2mF - DF \_c \text{ (at 0.7 rmsd) in gray} \]
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Electron density around NEX H 7623:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
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Electron density around NEX G 6623:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
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Electron density around NEX J 9623:

\[2mF_{o} - DF_{c} \text{ (at 0.7 rmsd) in gray}\]
\[mF_{o} - DF_{c} \text{ (at 3 rmsd) in purple (negative) and green (positive)}\]

Electron density around NEX I 8623:

\[2mF_{o} - DF_{c} \text{ (at 0.7 rmsd) in gray}\]
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**Electron density around NEX D 3623:**

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and green (positive)

**Electron density around NEX E 4623:**

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative)} \]
and green (positive)
Electron density around NEX A 623:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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Electron density around NEX B 1623:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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Electron density around NEX C 2623:

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Electron density around NEX F 5623:

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Electron density around DGD A 632:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
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Electron density around DGD H 7632:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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Electron density around DGD G 9632:

- $2mF_o - DF_c$ (at 0.7 rmsd) in gray
- $mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around DGD I 8632:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around DGD D 5632:

\(2mF_o - DF_c\) (at 0.7 rmsd) in gray
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Electron density around DGD B 2632:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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Electron density around DGDE 4632:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around DGD B 1632:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
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Electron density around DGDH 6632:

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Electron density around XATA 622:

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Electron density around XATE 2622:

\[ 2mF_{o} - DF_{c} \text{ (at 0.7 rmsd) in gray} \]
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Electron density around CLA A 611:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around DGD D 3632:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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Electron density around CLAI 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
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Electron density around LHGA 630:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LHG B 1630:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CLA D 611:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CLA H 611:**

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

**Electron density around CLA G 611:**

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around XAT B 5622:

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

Electron density around CLA B 611:

\[ 2mF_o - DF_c \] (at 0.7 rmsd) in gray
\[ mF_o - DF_c \] (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LHG I 8630:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around LHG G 6630:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around XAT D 8622:

$2mF - DF_c$ (at 0.7 rmsd) in gray
$F - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around XAT I 9622:

$2mF - DF_c$ (at 0.7 rmsd) in gray
$F - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around XAT C 7622:

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

Electron density around LHG E 4630:

\[2mF_o - DF_c\] (at 0.7 rmsd) in gray
\[mF_o - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA E 611:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around XAT H 4622:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 611:

\(2mF_o - DF_c\) (at 0.7 rmsd) in gray
\(mF_o - DF_c\) (at 3 rmsd) in purple (negative) and green (positive)

Electron density around XAT F 6622:

\(2mF_o - DF_c\) (at 0.7 rmsd) in gray
\(mF_o - DF_c\) (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LHG D 3630:

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

Electron density around CLA A 610:

\[2mF_o - DF_c\] (at 0.7 rmsd) in gray
\[mF_o - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around LHG F 5630:**

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

**Electron density around CLA J 611:**

\[2mF_o - DF_c \text{ (at 0.7 rmsd) in gray}\]
\[mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)}\]
**Electron density around CHL A 601:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

**Electron density around CLA F 611:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL J 606:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around XAT B 1622:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CHL A 606:**

- $2mF - DF$ (at 0.7 rmsd) in gray
- $mF - DF$ (at 3 rmsd) in purple (negative) and green (positive)

**Electron density around CHL F 606:**

- $2mF - DF$ (at 0.7 rmsd) in gray
- $mF - DF$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LHG H 7630:

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

Electron density around LHG J 9630:

\[2mF_o - DF_c\text{ (at 0.7 rmsd) in gray}\]
\[mF_o - DF_c\text{ (at 3 rmsd) in purple (negative) and green (positive)}\]
Electron density around XAT J 3622:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CLA J 604:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHLG 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA B 604:

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

Electron density around LHG C 2630:

\[ 2\text{mF} - \text{DF}_c \text{ (at 0.7 rmsd) in gray} \]
\[ \text{mF} - \text{DF}_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CLAH 604:

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

Electron density around CHL D 606:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CLA E 604:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL B 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA G 612:

\[2mF_{o} - DF_{c} \text{ (at 0.7 rmsd) in gray}\]
\[mF_{o} - DF_{c} \text{ (at 3 rmsd) in purple (negative) and green (positive)}\]
Electron density around CLA H 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL C 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA G 604:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL H 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA A 604:

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

Electron density around CHL H 606:

\[2mF_o - DF_c\ (at\ 0.7\ rmsd)\ in\ gray\]
\[mF_o - DF_c\ (at\ 3\ rmsd)\ in\ purple\ (negative)\]
and green (positive)
Electron density around CHL I 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA C 612:

$2\text{mF}_o\text{DF}_c$ (at 0.7 rmsd) in gray
$mF_oDF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA F 612:

\[ 2mF_{o} - DF_{c} \] (at 0.7 rmsd) in gray
\[ mF_{o} - DF_{c} \] (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CLA I 610:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray  
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

**Electron density around CHL C 606:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray  
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL E 606:

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

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Electron density around CHL I 606:

\[ 2mF_{\sigma}-DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_{\sigma}-DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CLA F 604:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA A 612:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA C 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CLA I 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CLA H 610:**

$2\text{mF} - \text{DF}_c$ (at 0.7 rmsd) in gray
$m\text{F} - \text{DF}_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL F 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL G 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA I 612:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL I 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL G 601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around CLA J 610:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around LUT G 6620:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL F 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL D 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 610:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CHL A 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL B 606:

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

Electron density around CHL I 601:

\[ 2mF_\sigma - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_\sigma - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CLA I 614:

$2mF_{o} - DF_{c}$ (at 0.7 rmsd) in gray
$mF_{o} - DF_{c}$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA G 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CHL A 605:**

2$m\sigma$DF$_c$ (at 0.7 rmsd) in gray
mF$_\sigma$DF$_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL E 605:

$2\text{mF}_o \text{DF}_c$ (at 0.7 rmsd) in gray

$m\text{F}_o \text{DF}_c$ (at 3 rmsd) in purple (negative)

and green (positive)
Electron density around CLA B 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLAD 612:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL G 606:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLAE 612:

\[2mF_o - DF_c \text{ (at 0.7 rmsd) in gray}\]
\[mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)}\]
Electron density around CHL J 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL H 601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$F_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL B 608:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CHL H 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA H 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL B 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL J 605:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA J 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA B 612:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
    and green (positive)
Electron density around CLA A 614:

\[ 2mF_{o}-DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_{o}-DF_c \text{ (at 3 rmsd) in purple (negative)} \]
\[ \text{and green (positive)} \]
Electron density around CHL C 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA E 610:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL D 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA D 604:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CLA G 610:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLAF 610:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHLE 601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA A 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL A 608:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA I 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL J 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CLA B 610:**

- $2mF - DF$ (at 0.7 rmsd) in gray
- $mF - DF$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA G 613:

\[2mF_o - DF_c\] (at 0.7 rmsd) in gray
\[mF_o - DF_c\] (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLAF 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CLA E 602:**

- $2mF_o - DF_c$ (at 0.7 rmsd) in gray
- $mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA E 603:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
**Electron density around CLAD 610:**

$2mF - DF$ (at 0.7 rmsd) in gray
$mF - DF$ (at 3 rmsd) in purple (negative) and green (positive)

**Electron density around LUT I 8620:**

$2mF - DF$ (at 0.7 rmsd) in gray
$mF - DF$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA G 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA I 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA H 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around LUT C 2620:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA J 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA G 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT D 3621:

\[2mF_o - DF_c\] (at 0.7 rmsd) in gray
\[mF_o - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA B 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL D 601:

$2mF_c \sigma DF_c$ (at 0.7 rmsd) in gray
$mF_c \sigma DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL F 601:

$2mF_c \sigma DF_c$ (at 0.7 rmsd) in gray
$mF_c \sigma DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA J 603:

2mF \sigma - DF_c (at 0.7 rmsd) in gray
mF \sigma - DF_c (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA A 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA D 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$F_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL A 609:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLAH 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT B 1621:

\(2mF_o - DF_c\) (at 0.7 rmsd) in gray
\(mF_o - DF_c\) (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL C 601:

\(2mF_o - DF_c\) (at 0.7 rmsd) in gray
\(mF_o - DF_c\) (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLAD614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL E 607:

$2\text{mF}_\sigma-\text{DF}_c$ (at 0.7 rmsd) in gray
$m\text{F}_\sigma-\text{DF}_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around LUT A 620:

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

Electron density around LUT H 7620:

\[2mF_o - DF_c\] (at 0.7 rmsd) in gray
\[mF_o - DF_c\] (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT D 3620:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL J 601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL E 608:

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative)} \]
\[ \text{ and green (positive)} \]
Electron density around CLA J 612:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL F 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA E 614:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA F 603:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA F 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL G 609:

$2mF_o - DF_C$ (at 0.7 rmsd) in gray
$mF_o - DF_C$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray

$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL I 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
**Electron density around LUT I 8621:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

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**Electron density around CHL D 609:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT J 9621:

2mF_o−DF_c (at 0.7 rmsd) in gray
mF_o−DF_c (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL F 609:

2mF_o−DF_c (at 0.7 rmsd) in gray
mF_o−DF_c (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA D 602:

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

Electron density around LUT F 5621:

\[ 2mF_\sigma - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_\sigma - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around LUT G 6621:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA I 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL J 609:

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

Electron density around LUT H 7621:

\[2mF_o - DF_c \text{ (at 0.7 rmsd) in gray}\]
\[mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)}\]
Electron density around CLA J 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$F_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT F 5620:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around LUT C 2621:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around LUT J 9620:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray

$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL C 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
**Electron density around CHL H 607:**

\[ 2mF_o - DF_c \text{ (at 0.7 rmsd) in gray} \]
\[ mF_o - DF_c \text{ (at 3 rmsd) in purple (negative) and green (positive)} \]
Electron density around CHL E 609:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CLA B 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA B 602:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA H 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around LUT B 1620:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA F 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA C 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
**Electron density around LUTE 4620:**

- $2mF_o - DF_c$ (at 0.7 rmsd) in gray
- $mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA E 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA D 613:

2mF\textsubscript{o}−DF\textsubscript{c} (at 0.7 rmsd) in gray
mF\textsubscript{o}−DF\textsubscript{c} (at 3 rmsd) in purple (negative)
and green (positive)
Electron density around CHL I 609:

2mF_oDF_c (at 0.7 rmsd) in gray
mF_oDF_c (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL C 609:

2mF_oDF_c (at 0.7 rmsd) in gray
mF_oDF_c (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL G 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL D 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL H 609:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around CHL B 609:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CHL B 607:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around LUT A 621:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
$mF_o-DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
Electron density around CLA A 613:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
$mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
6.5 Other polymers

There are no such residues in this entry.