



wwPDB X-ray Structure Validation Summary Report

Feb 27, 2014 – 04:03 PM GMT

PDB ID : 3V2D
Title : Crystal structure of YfiA bound to the 70S ribosome. This PDB entry contains coordinates for the 50S subunit of the 1st ribosome in the ASU
Authors : Polikanov, Y.S.; Blaha, G.M.; Steitz, T.A.
Deposited on : 2011-12-12
Resolution : 2.70 Å(reported)

This is a wwPDB validation summary 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/ValidationPDFNotes.html>

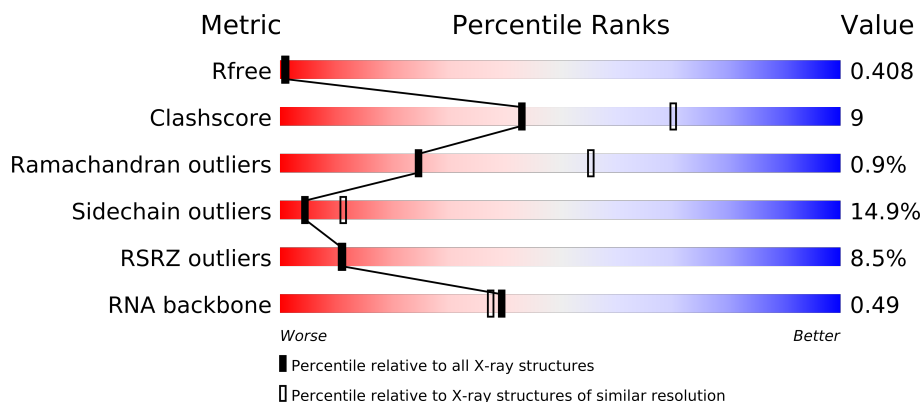
The following versions of software and data (see [references](#)) were used in the production of this report:

| | | |
|--------------------------------|---|--------------------------|
| MolProbity | : | 4.02b-467 |
| Mogul | : | 1.15 2013 |
| Xtriage (Phenix) | : | dev-1323 |
| EDS | : | stable22639 |
| Percentile statistics | : | 21963 |
| Refmac | : | 5.8.0049 |
| CCP4 | : | 6.3.0 (Settle) |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et. al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | stable22683 |

1 Overall quality at a glance

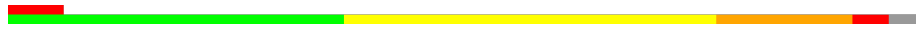











The reported resolution of this entry is 2.70 Å.

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.












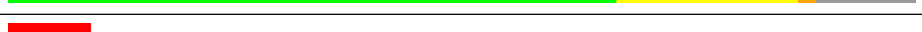

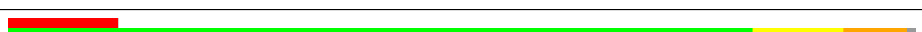
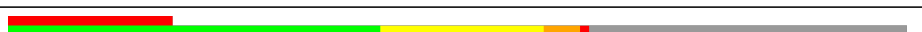

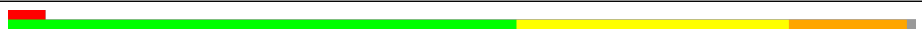




| Metric | Whole archive (#Entries) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| R_{free} | 66092 | 1557 (2.70-2.70) |
| Clashscore | 79885 | 1939 (2.70-2.70) |
| Ramachandran outliers | 78287 | 1905 (2.70-2.70) |
| Sidechain outliers | 78261 | 1905 (2.70-2.70) |
| RSRZ outliers | 66119 | 1559 (2.70-2.70) |
| RNA backbone | 1838 | 1042 (3.20-2.20) |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 1 | A | 2915 |  |
| 2 | B | 122 |  |
| 3 | D | 276 |  |
| 4 | E | 206 |  |
| 5 | F | 210 |  |
| 6 | G | 182 |  |
| 7 | H | 180 |  |
| 8 | I | 148 |  |
| 9 | N | 140 |  |
| 10 | O | 122 |  |
| 11 | P | 150 |  |
| 12 | Q | 141 |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|---|
| 13 | R | 118 |  |
| 14 | S | 112 |  |
| 15 | T | 146 |  |
| 16 | U | 118 |  |
| 17 | V | 101 |  |
| 18 | W | 113 |  |
| 19 | X | 96 |  |
| 20 | Y | 110 |  |
| 21 | Z | 206 |  |
| 22 | 0 | 85 |  |
| 23 | 1 | 98 |  |
| 24 | 2 | 72 |  |
| 25 | 3 | 60 |  |
| 26 | 4 | 71 |  |
| 27 | 5 | 60 |  |
| 28 | 6 | 54 |  |
| 29 | 7 | 49 |  |
| 30 | 8 | 65 |  |
| 31 | 9 | 37 |  |

2 Entry composition

There are 34 unique types of molecules in this entry. The entry contains 93185 atoms, of which 0 are hydrogen and 0 are deuterium.

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 23S Ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 1 | A | 2827 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 60898 | 27101 | 11400 | 19571 | 2826 | | | |

- Molecule 2 is a RNA chain called 5S Ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
| 2 | B | 120 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 2573 | 1146 | 476 | 832 | 119 | | | |

- Molecule 3 is a protein called 50S Ribosomal Protein L2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 3 | D | 275 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2136 | 1349 | 423 | 361 | 3 | | | |

- Molecule 4 is a protein called 50S Ribosomal Protein L3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 4 | E | 204 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1555 | 982 | 297 | 270 | 6 | | | |

- Molecule 5 is a protein called 50S Ribosomal Protein L4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 5 | F | 203 | Total | C | N | O | S | 0 | 0 | 1 |
| | | | 1577 | 1004 | 298 | 273 | 2 | | | |

- Molecule 6 is a protein called 50S Ribosomal Protein L5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | G | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1368 | 879 | 242 | 244 | 3 | | | |

- Molecule 7 is a protein called 50S Ribosomal Protein L6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7 | H | 174 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1317 | 837 | 243 | 236 | 1 | | | |

- Molecule 8 is a protein called 50S Ribosomal Protein L9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8 | I | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1043 | 672 | 180 | 190 | 1 | | | |

- Molecule 9 is a protein called 50S Ribosomal Protein L13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 9 | N | 140 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1112 | 717 | 207 | 184 | 4 | | | |

- Molecule 10 is a protein called 50S Ribosomal Protein L14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | O | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 923 | 583 | 168 | 168 | 4 | | | |

- Molecule 11 is a protein called 50S Ribosomal Protein L15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 11 | P | 149 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1131 | 703 | 229 | 196 | 3 | | | |

- Molecule 12 is a protein called 50S Ribosomal Protein L16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12 | Q | 141 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1122 | 715 | 212 | 188 | 7 | | | |

- Molecule 13 is a protein called 50S Ribosomal Protein L17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 13 | R | 118 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 968 | 604 | 203 | 160 | 1 | | | |

- Molecule 14 is a protein called 50S Ribosomal Protein L18.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 14 | S | 110 | Total | C | N | O | | | |
| | | | 865 | 544 | 172 | 149 | 0 | 0 | 0 |

- Molecule 15 is a protein called 50S Ribosomal Protein L19.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 15 | T | 131 | Total | C | N | O | S | | |
| | | | 1063 | 666 | 213 | 183 | 1 | 0 | 0 |

- Molecule 16 is a protein called 50S Ribosomal Protein L20.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 16 | U | 116 | Total | C | N | O | S | | |
| | | | 959 | 608 | 201 | 149 | 1 | 0 | 0 |

- Molecule 17 is a protein called 50S Ribosomal Protein L21.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 17 | V | 101 | Total | C | N | O | S | | |
| | | | 771 | 495 | 140 | 135 | 1 | 0 | 0 |

- Molecule 18 is a protein called 50S Ribosomal Protein L22.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 18 | W | 112 | Total | C | N | O | S | | |
| | | | 881 | 554 | 172 | 153 | 2 | 0 | 0 |

- Molecule 19 is a protein called 50S Ribosomal Protein L23.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 19 | X | 95 | Total | C | N | O | S | | |
| | | | 742 | 483 | 134 | 124 | 1 | 0 | 0 |

- Molecule 20 is a protein called 50S Ribosomal Protein L24.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 20 | Y | 107 | Total | C | N | O | S | | |
| | | | 785 | 503 | 145 | 131 | 6 | 0 | 0 |

- Molecule 21 is a protein called 50S Ribosomal Protein L25.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 21 | Z | 198 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1522 | 972 | 269 | 279 | 2 | | | |

- Molecule 22 is a protein called 50S Ribosomal Protein L27.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22 | 0 | 76 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 594 | 368 | 125 | 100 | 1 | | | |

- Molecule 23 is a protein called 50S Ribosomal Protein L28.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 23 | 1 | 97 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 745 | 469 | 144 | 131 | 1 | | | |

- Molecule 24 is a protein called 50S Ribosomal Protein L29.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 24 | 2 | 70 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 588 | 365 | 118 | 103 | 2 | | | |

- Molecule 25 is a protein called 50S Ribosomal Protein L30.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 25 | 3 | 59 | Total | C | N | O | 0 | 0 | 0 |
| | | | 458 | 293 | 87 | 78 | | | |

- Molecule 26 is a protein called 50S Ribosomal Protein L31.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 26 | 4 | 46 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 349 | 223 | 57 | 64 | 5 | | | |

- Molecule 27 is a protein called 50S Ribosomal Protein L32.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 27 | 5 | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 455 | 286 | 90 | 74 | 5 | | | |

- Molecule 28 is a protein called 50S Ribosomal Protein L33.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 28 | 6 | 53 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 449 | 278 | 90 | 77 | 4 | | | |

- Molecule 29 is a protein called 50S Ribosomal Protein L34.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 29 | 7 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 418 | 257 | 104 | 55 | 2 | | | |

- Molecule 30 is a protein called 50S Ribosomal Protein L35.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 30 | 8 | 64 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 509 | 326 | 99 | 82 | 2 | | | |

- Molecule 31 is a protein called 50S ribosomal protein L36.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 31 | 9 | 36 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 297 | 182 | 66 | 46 | 3 | | | |

- Molecule 32 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 32 | P | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 32 | B | 19 | Total | Mg | 0 | 0 |
| | | | 19 | 19 | | |
| 32 | 6 | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 32 | W | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 32 | N | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 32 | 2 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 32 | S | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 32 | E | 6 | Total | Mg | 0 | 0 |
| | | | 6 | 6 | | |
| 32 | V | 4 | Total | Mg | 0 | 0 |
| | | | 4 | 4 | | |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 32 | A | 725 | Total 725 | Mg 725 | 0 | 0 |
| 32 | R | 5 | Total 5 | Mg 5 | 0 | 0 |
| 32 | 1 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | D | 6 | Total 6 | Mg 6 | 0 | 0 |
| 32 | Z | 2 | Total 2 | Mg 2 | 0 | 0 |
| 32 | U | 3 | Total 3 | Mg 3 | 0 | 0 |
| 32 | 9 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 32 | 0 | 4 | Total 4 | Mg 4 | 0 | 0 |
| 32 | G | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | Q | 5 | Total 5 | Mg 5 | 0 | 0 |
| 32 | H | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | 7 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | T | 3 | Total 3 | Mg 3 | 0 | 0 |
| 32 | 8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | O | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | Y | 1 | Total 1 | Mg 1 | 0 | 0 |
| 32 | 3 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 32 | F | 6 | Total 6 | Mg 6 | 0 | 0 |

- Molecule 33 is ZINC ION (three-letter code: ZN) (formula: Zn).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 33 | 9 | 1 | Total 1 | Zn 1 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 33 | Y | 1 | Total 1 | Zn 1 | 0 | 0 |
| 33 | 4 | 1 | Total 1 | Zn 1 | 0 | 0 |
| 33 | 6 | 1 | Total 1 | Zn 1 | 0 | 0 |
| 33 | 5 | 1 | Total 1 | Zn 1 | 0 | 0 |

- Molecule 34 is water.

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|---------------|-----------|---------|---------|
| 34 | A | 1975 | Total 1975 | O 1975 | 0 | 0 |
| 34 | B | 45 | Total 45 | O 45 | 0 | 0 |
| 34 | D | 18 | Total 18 | O 18 | 0 | 0 |
| 34 | E | 16 | Total 16 | O 16 | 0 | 0 |
| 34 | F | 17 | Total 17 | O 17 | 0 | 0 |
| 34 | G | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | H | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | N | 7 | Total 7 | O 7 | 0 | 0 |
| 34 | O | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | P | 21 | Total 21 | O 21 | 0 | 0 |
| 34 | Q | 8 | Total 8 | O 8 | 0 | 0 |
| 34 | R | 9 | Total 9 | O 9 | 0 | 0 |
| 34 | S | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | T | 5 | Total 5 | O 5 | 0 | 0 |
| 34 | U | 7 | Total 7 | O 7 | 0 | 0 |

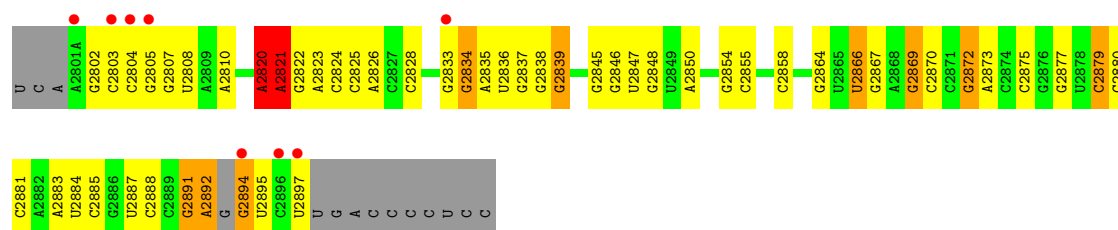
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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|---------|
| 34 | V | 13 | Total 13 | O 13 | 0 | 0 |
| 34 | W | 6 | Total 6 | O 6 | 0 | 0 |
| 34 | X | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | Y | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | Z | 2 | Total 2 | O 2 | 0 | 0 |
| 34 | 0 | 6 | Total 6 | O 6 | 0 | 0 |
| 34 | 1 | 5 | Total 5 | O 5 | 0 | 0 |
| 34 | 3 | 5 | Total 5 | O 5 | 0 | 0 |
| 34 | 5 | 6 | Total 6 | O 6 | 0 | 0 |
| 34 | 6 | 1 | Total 1 | O 1 | 0 | 0 |
| 34 | 7 | 4 | Total 4 | O 4 | 0 | 0 |
| 34 | 8 | 9 | Total 9 | O 9 | 0 | 0 |
| 34 | 9 | 1 | Total 1 | O 1 | 0 | 0 |

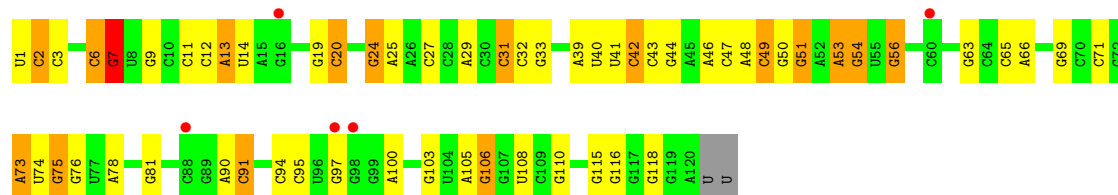


| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| G2722 | G2645 | G2584 | G2518 | G2443 | G2371 | G2299 | A2225 | G2151 | G2087 | A2020 | G1954 | G1861 | A1783 | C1685 |
| C2723 | C2646 | U2585 | U2519 | G2444 | G2375 | G2300 | C2226 | G2152 | G2087 | C2021 | U1955 | G1861 | A1784 | C1686 |
| U2726 | C2648 | C2586 | U2523 | G2446 | A2376 | C2302 | G2227 | G2153 | G2090 | U2022 | U1956 | C1865 | A1785 | C1687 |
| G2729 | U2649 | A2587 | U2522 | G2447 | A2377 | G2303 | G2228 | G2154 | G2093 | G2024 | C1958 | A1876 | A1787 | U1688 |
| G2730 | U2656 | C2588 | G2523 | G2448 | A2378 | G2304 | G2229 | G2155 | G2093 | C2025 | C1959 | G1877 | C1788 | A1689 |
| G2731 | U2657 | A2589 | G2524 | U2449 | A2379 | A2305 | C2231 | G2156 | U2096 | G2026 | A1960 | G1878 | U1693 | U1693 |
| G2732 | G2659 | C2591 | G2525 | A2450 | G2381 | G2308 | U2232 | G2157 | U2096 | G2027 | C1961 | C1879 | C1694 | C1694 |
| A2733 | A2660 | U2592 | U2526 | A2451 | G2382 | A2309 | U2233 | A2158 | G2100 | U2028 | C1962 | C1880 | A1791 | C1695 |
| G2737 | G2662 | U2593 | U2527 | A2452 | G2383 | A2310 | G2234 | G2160 | G2101 | G2029 | U1963 | C1881 | A1792 | C1696 |
| G2740 | A2663 | G2595 | U2528 | G2453 | G2384 | A2311 | G2235 | G2161 | G2102 | A2030 | C1964 | C1882 | C1793 | C1697 |
| A2741 | G2678 | G2596 | G2529 | G2454 | G2385 | U2312 | G2236 | G2162 | U2102 | G2031 | C1965 | G1883 | U1794 | C1698 |
| A2742 | G2679 | U2597 | G2532 | U2457 | U2387 | G2315 | G2238 | G2163 | C2103 | G2032 | A1966 | A1884 | C1795 | C1699 |
| G2743 | A2675 | A2598 | G2535 | U2460 | A2388 | G2316 | G2239 | G2164 | G2104 | A2033 | C1967 | A1885 | U1796 | A1700 |
| G2744 | G2676 | C2599 | U2536 | G2461 | A2389 | C2317 | G2240 | G2165 | G2105 | U2034 | C1968 | C1886 | U1797 | A1701 |
| G2745 | G2677 | U2600 | U2537 | G2462 | U2390 | G2318 | A2241 | G2166 | G2106 | G2035 | A1969 | G1887 | U1798 | G1702 |
| U2746 | G2683 | A2601 | G2538 | G2463 | G2391 | G2319 | A2242 | G2167 | C2107 | G2036 | A1970 | A1889 | U1799 | G1710 |
| G2747 | G2684 | G2602 | C2539 | G2464 | A2392 | A2320 | U2243 | G2168 | C2108 | G2037 | A1971 | A1890 | C1800 | G1721 |
| G2751 | G2685 | A2603 | C2540 | G2465 | G2393 | G2322 | U2244 | G2169 | U2109 | G2038 | A1972 | G1801 | G1801 | A1802 |
| G2755 | G2686 | G2607 | G2545 | G2466 | G2394 | G2323 | G2245 | A2170 | G2110 | C2039 | G1973 | C1894 | A1802 | A1722 |
| A2757 | G2687 | U2608 | U2546 | G2467 | G2400 | G2324 | G2246 | A2171 | G2111 | C2040 | A1977 | C1895 | A1803 | A1723 |
| G2758 | G2688 | G2609 | U2547 | G2473 | C2404 | A2325 | G2247 | U2172 | G2112 | U2041 | G1980 | G1896 | C1806 | U1739 |
| G2759 | U2689 | U2610 | G2548 | C2474 | G2405 | G2326 | G2248 | A2173 | U2113 | A2042 | G1897 | G1897 | U1740 | G1740 |
| G2760 | G2690 | G2611 | G2549 | C2475 | U2406 | G2327 | G2249 | G2182 | A2114 | C2043 | U1898 | U1898 | G1807 | A1741 |
| G2763 | G2691 | U2612 | U2550 | A2476 | G2407 | G2328 | G2250 | G2183 | G2115 | C2044 | A1981 | A1899 | G1742 | G1742 |
| G2766 | C2692 | G2613 | G2551 | G2477 | G2410 | U2332 | G2251 | C2184 | G2116 | C2045 | C1982 | A1900 | C1743 | C1743 |
| G2769 | G2693 | U2614 | U2552 | A2478 | G2411 | U2333 | G2252 | G2185 | A2117 | C2050 | G1985 | A1901 | C1744 | C1744 |
| G2772 | G2694 | G2615 | U2553 | C2483 | G2412 | A2334 | G2253 | G2186 | G2118 | A2051 | C1986 | C1902 | A1810 | C1745 |
| G2773 | G2695 | C2616 | U2554 | C2484 | G2413 | A2335 | G2254 | G2187 | G2120 | G2052 | G1987 | G1903 | A1811 | G1812 |
| G2774 | U2696 | G2617 | U2555 | G2485 | G2414 | A2336 | G2255 | G2188 | G2121 | C2053 | U1988 | G1906 | G1814 | G1746 |
| G2775 | G2697 | G2618 | G2556 | A2486 | G2415 | U2337 | G2256 | G2189 | U2122 | A2054 | C1989 | G1913 | A1815 | G1748 |
| G2776 | G2698 | U2619 | G2557 | G2487 | G2416 | G2338 | G2257 | U2190 | G2123 | C2055 | C1990 | A1913 | A1816 | G1752 |
| G2777 | G2699 | C2620 | C2558 | G2488 | G2417 | A2339 | G2258 | G2191 | U2124 | G2056 | U1991 | G1896 | G1817 | C1753 |
| G2778 | G2700 | A2621 | C2559 | G2489 | G2418 | G2340 | G2259 | G2192 | G2125 | A2057 | U1992 | U1915 | A1818 | G1754 |
| G2781 | C2701 | G2622 | U2560 | U2492 | A2421 | A2346 | G2260 | G2193 | A2126 | G2058 | G1993 | G1921 | A1819 | C1754 |
| G2783 | U2702 | U2623 | G2561 | G2493 | G2422 | G2347 | G2261 | G2194 | G2127 | A2059 | C1994 | U1926 | U1820 | A1755 |
| G2784 | G2703 | G2624 | U2562 | G2494 | U2423 | U2348 | G2262 | G2195 | C2128 | G2062 | G1997 | U1927 | G1822 | G1756 |
| G2785 | C2704 | G2625 | U2563 | G2495 | G2424 | G2349 | G2263 | G2196 | U2129 | G2063 | G1998 | A1928 | G1823 | U1757 |
| G2786 | A2705 | G2626 | A2564 | G2496 | A2425 | U2350 | G2264 | U2197 | U2130 | C2064 | C1999 | A1929 | A1824 | C1761 |
| G2787 | G2706 | U2627 | A2565 | G2497 | A2426 | G2351 | G2265 | G2198 | U2131 | G2065 | G2002 | G1930 | G1825 | A1762 |
| G2788 | G2707 | G2628 | A2566 | C2498 | G2427 | G2352 | G2266 | U2199 | U2132 | C2066 | G2003 | U1931 | G1826 | G1763 |
| G2789 | G2708 | G2629 | G2567 | C2499 | G2428 | A2353 | G2267 | G2200 | A2134 | G2067 | A1932 | G1932 | C1827 | G1764 |
| G2790 | U2709 | U2630 | G2568 | C2500 | G2429 | G2354 | G2268 | C2201 | C2135 | U2068 | C2006 | G1933 | G1828 | U1768 |
| G2791 | G2710 | G2631 | U2570 | U2501 | U2431 | G2355 | G2269 | G2202 | C2136 | G2069 | C2007 | G1934 | A1829 | G1769 |
| G2792 | A2711 | G2632 | G2571 | G2502 | G2432 | G2356 | G2270 | C2203 | C2137 | A2071 | G2008 | G1935 | G1830 | G1770 |
| G2793 | U2712 | U2633 | A2572 | A2503 | G2433 | C2357 | G2271 | U2204 | C2138 | G2072 | C2009 | A1937 | A1938 | G1771 |
| G2794 | G2713 | G2634 | C2573 | U2504 | A2434 | U2357 | G2272 | G2205 | C2139 | C2073 | G2010 | U1939 | U1772 | G1772 |
| G2795 | U2714 | U2635 | U2574 | G2505 | A2435 | G2358 | G2273 | U2206 | U2075 | U2011 | G2012 | U1939 | G1839 | G1773 |
| G2796 | G2715 | G2636 | G2575 | G2506 | G2436 | G2359 | G2274 | G2207 | U2076 | U2012 | A2013 | C1942 | G1840 | G1774 |
| G2797 | A2716 | U2637 | C2576 | U2507 | G2437 | A2360 | G2275 | A2208 | A2077 | A2014 | A2014 | U1943 | U1775 | G1775 |
| G2798 | G2717 | G2638 | U2577 | G2508 | U2438 | G2361 | G2276 | U2218 | C2145 | A2015 | A2015 | U1944 | U1776 | U1776 |
| G2799 | G2718 | U2639 | G2578 | G2509 | A2439 | C2362 | G2277 | G2219 | G2147 | U2016 | U2016 | U1951 | U1777 | U1777 |
| G2800 | G2719 | G2640 | U2579 | G2510 | G2440 | G2363 | G2278 | G2220 | G2148 | G2017 | G2017 | A1952 | U1778 | U1778 |
| G2801 | U2720 | G2641 | U2580 | U2511 | C2441 | G2364 | G2279 | G2221 | G2149 | G2018 | G2018 | G1858 | C1781 | C1781 |
| G2802 | A2721 | G2642 | G2581 | C2512 | C2442 | G2365 | A2298 | G2224 | U2150 | C2084 | A2019 | A1953 | C1782 | C1782 |



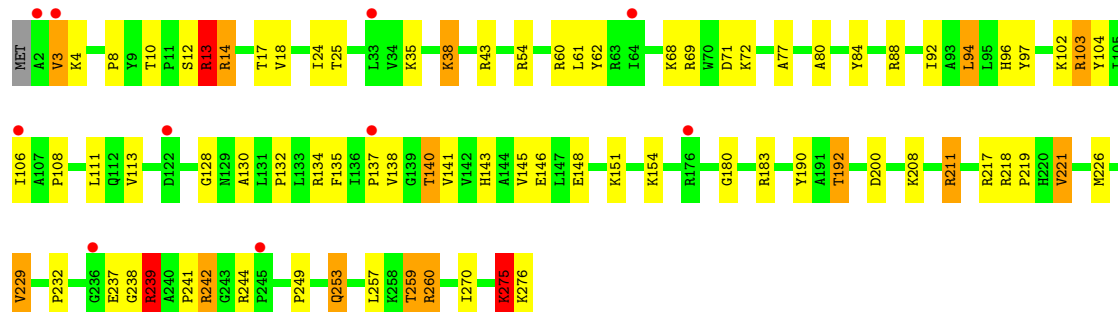
• Molecule 2: 5S Ribosomal RNA

Chain B:



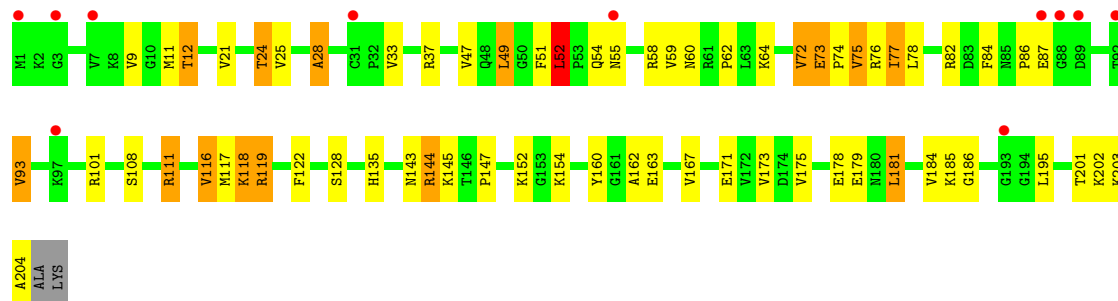
• Molecule 3: 50S Ribosomal Protein L2

Chain D:



• Molecule 4: 50S Ribosomal Protein L3

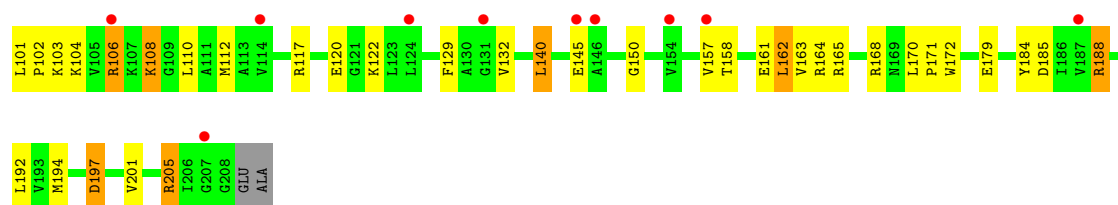
Chain E:



• Molecule 5: 50S Ribosomal Protein L4

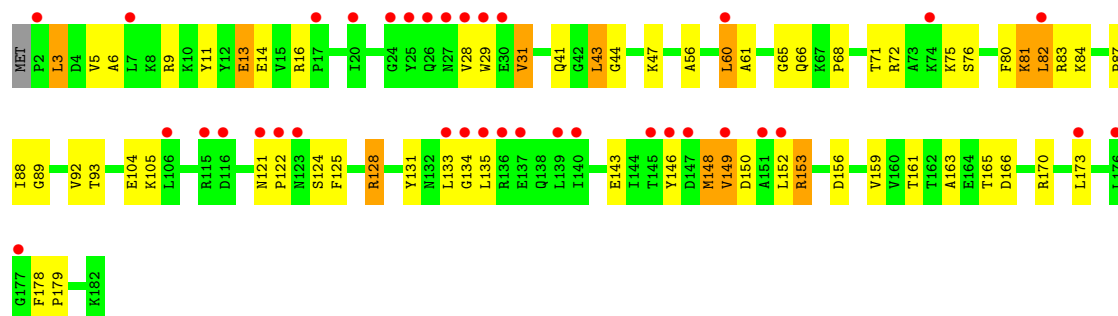
Chain F:





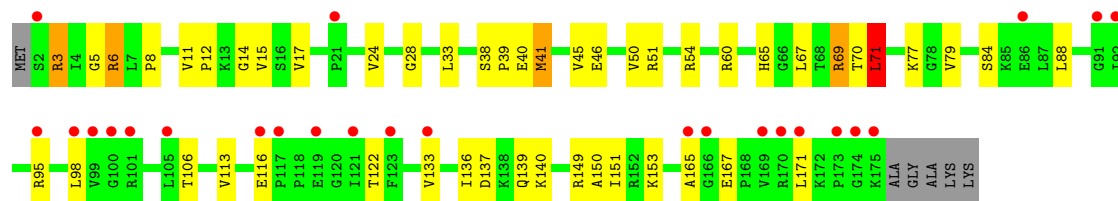
• Molecule 6: 50S Ribosomal Protein L5

Chain G:



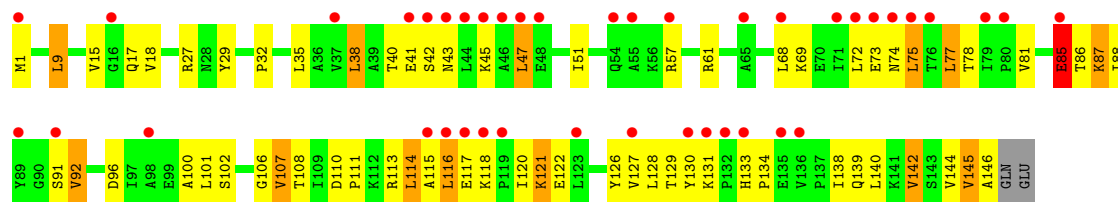
• Molecule 7: 50S Ribosomal Protein L6

Chain H:



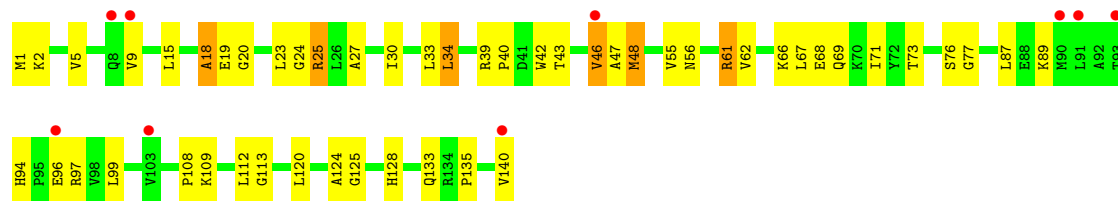
• Molecule 8: 50S Ribosomal Protein L9

Chain I:



• Molecule 9: 50S Ribosomal Protein L13

Chain N:



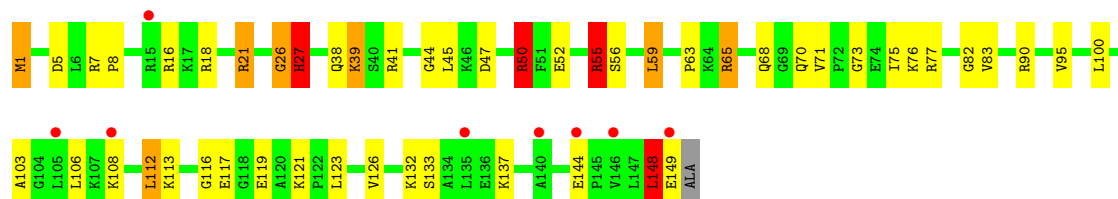
• Molecule 10: 50S Ribosomal Protein L14

Chain O:



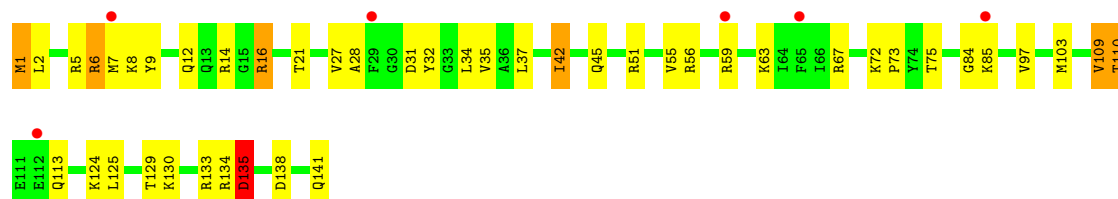
• Molecule 11: 50S Ribosomal Protein L15

Chain P:



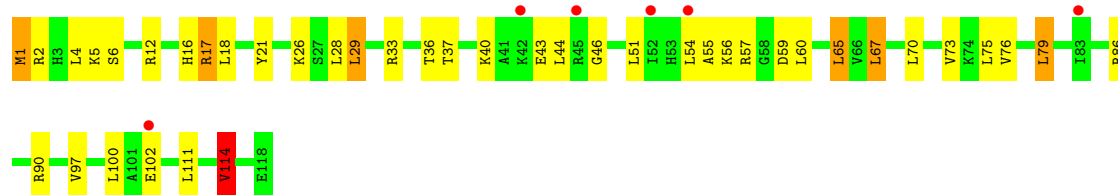
• Molecule 12: 50S Ribosomal Protein L16

Chain Q:



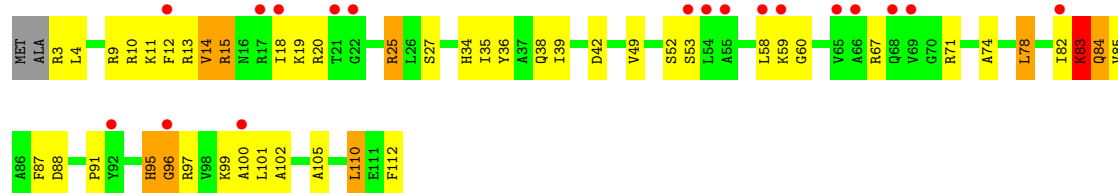
• Molecule 13: 50S Ribosomal Protein L17

Chain R:



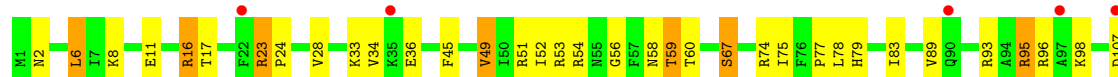
• Molecule 14: 50S Ribosomal Protein L18

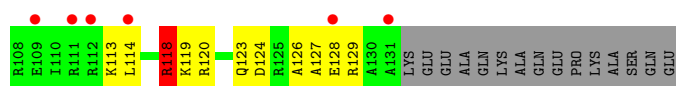
Chain S:



• Molecule 15: 50S Ribosomal Protein L19

Chain T:





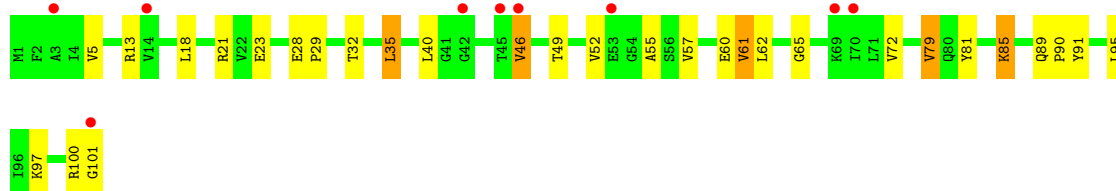
• Molecule 16: 50S Ribosomal Protein L20

Chain U:



• Molecule 17: 50S Ribosomal Protein L21

Chain V:



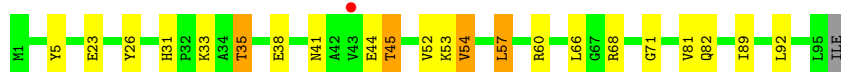
• Molecule 18: 50S Ribosomal Protein L22

Chain W:



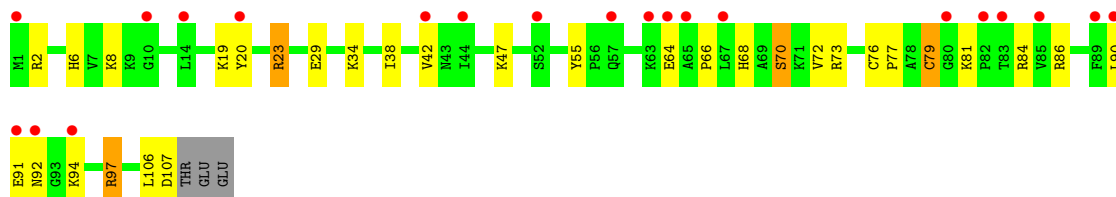
• Molecule 19: 50S Ribosomal Protein L23

Chain X:



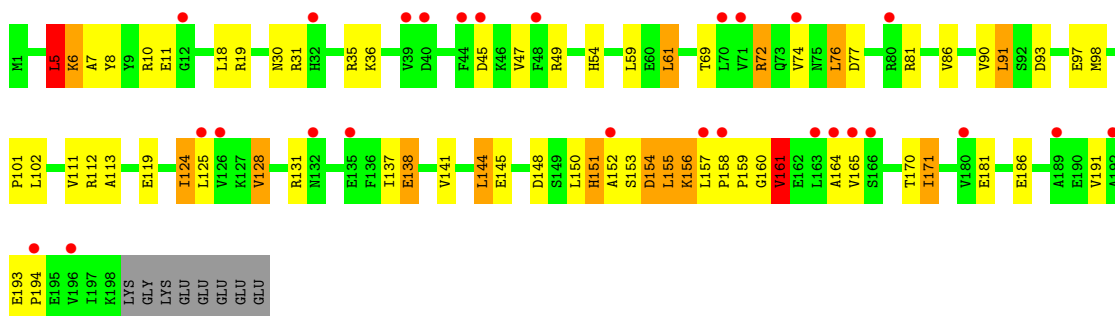
• Molecule 20: 50S Ribosomal Protein L24

Chain Y:



• Molecule 21: 50S Ribosomal Protein L25

Chain Z:



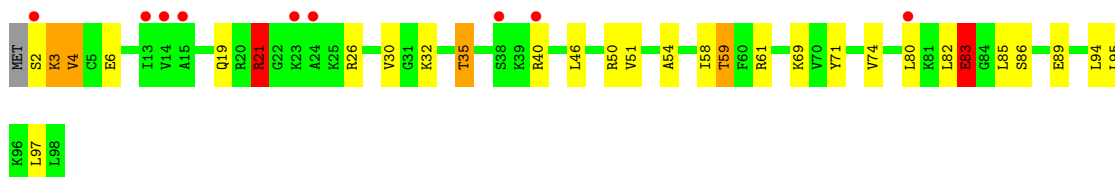
• Molecule 22: 50S Ribosomal Protein L27

Chain 0:



• Molecule 23: 50S Ribosomal Protein L28

Chain 1:



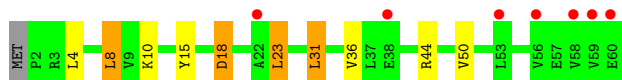
• Molecule 24: 50S Ribosomal Protein L29

Chain 2:



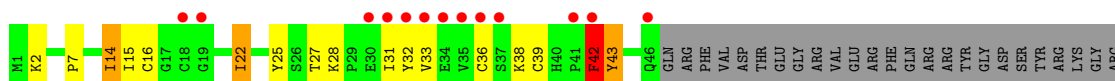
• Molecule 25: 50S Ribosomal Protein L30

Chain 3:



• Molecule 26: 50S Ribosomal Protein L31

Chain 4:



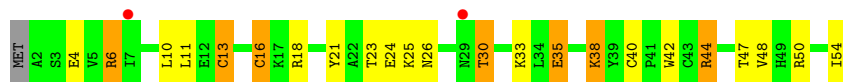
• Molecule 27: 50S Ribosomal Protein L32

Chain 5:



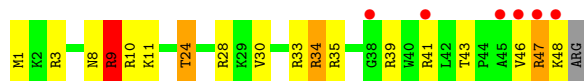
- Molecule 28: 50S Ribosomal Protein L33

Chain 6: 



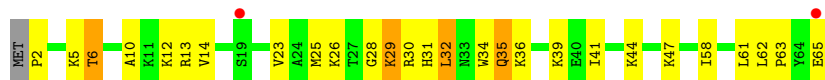
- Molecule 29: 50S Ribosomal Protein L34

Chain 7: 



- Molecule 30: 50S Ribosomal Protein L35

Chain 8: 



- Molecule 31: 50S ribosomal protein L36

Chain 9: 



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 209.63Å 449.30Å 620.90Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 49.71 – 2.70 49.71 – 2.70 | Depositor EDS |
| % Data completeness (in resolution range) | 98.4 (49.71-2.70) 98.4 (49.71-2.70) | Depositor EDS |
| R_{merge} | 0.17 | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 1.20 (at 2.69Å) | Xtriage |
| Refinement program | PHENIX (phenix.refine: 1.7.2_869) | Depositor |
| R, R_{free} | 0.217 , 0.254 0.402 , 0.408 | Depositor DCC |
| R_{free} test set | 78243 reflections (5.29%) | DCC |
| Wilson B-factor (Å ²) | 55.6 | Xtriage |
| Anisotropy | 0.155 | Xtriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.31 , 26.4 | EDS |
| Estimated twinning fraction | No twinning to report. | Xtriage |
| L-test for twinning | $\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$ | Xtriage |
| Outliers | 0 of 1557851 reflections | Xtriage |
| F_o, F_c correlation | 0.68 | EDS |
| Total number of atoms | 93185 | wwPDB-VP |
| Average B, all atoms (Å ²) | 50.0 | wwPDB-VP |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.42% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|------------------|-------------|--------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 1 | A | 1.46 | 435/68200 (0.6%) | 1.72 | 2119/106454 (2.0%) |
| 2 | B | 1.09 | 2/2878 (0.1%) | 1.48 | 44/4490 (1.0%) |
| 3 | D | 0.90 | 1/2186 (0.0%) | 1.02 | 8/2944 (0.3%) |
| 4 | E | 0.89 | 0/1588 | 0.98 | 2/2145 (0.1%) |
| 5 | F | 0.84 | 1/1612 (0.1%) | 0.94 | 5/2184 (0.2%) |
| 6 | G | 0.55 | 0/1393 | 0.78 | 0/1892 |
| 7 | H | 0.68 | 0/1343 | 0.80 | 0/1820 |
| 8 | I | 0.63 | 0/1058 | 0.84 | 0/1449 |
| 9 | N | 0.84 | 0/1139 | 0.96 | 4/1538 (0.3%) |
| 10 | O | 0.86 | 0/933 | 0.92 | 2/1257 (0.2%) |
| 11 | P | 0.85 | 0/1148 | 1.02 | 7/1529 (0.5%) |
| 12 | Q | 0.85 | 0/1143 | 0.89 | 2/1527 (0.1%) |
| 13 | R | 0.85 | 0/982 | 0.98 | 2/1312 (0.2%) |
| 14 | S | 0.71 | 0/875 | 0.91 | 1/1168 (0.1%) |
| 15 | T | 0.79 | 0/1077 | 0.98 | 2/1444 (0.1%) |
| 16 | U | 0.89 | 0/977 | 0.95 | 4/1301 (0.3%) |
| 17 | V | 0.85 | 0/782 | 0.92 | 0/1049 |
| 18 | W | 0.97 | 2/891 (0.2%) | 0.97 | 3/1197 (0.3%) |
| 19 | X | 0.88 | 0/756 | 0.90 | 1/1016 (0.1%) |
| 20 | Y | 0.76 | 1/798 (0.1%) | 1.04 | 4/1073 (0.4%) |
| 21 | Z | 0.67 | 0/1555 | 0.85 | 4/2118 (0.2%) |
| 22 | 0 | 0.78 | 0/602 | 0.94 | 3/804 (0.4%) |
| 23 | 1 | 0.85 | 0/752 | 0.91 | 2/1003 (0.2%) |
| 24 | 2 | 0.77 | 0/590 | 0.80 | 0/781 |
| 25 | 3 | 0.76 | 0/463 | 0.77 | 0/623 |
| 26 | 4 | 0.65 | 1/358 (0.3%) | 0.82 | 1/487 (0.2%) |
| 27 | 5 | 0.93 | 0/469 | 1.07 | 2/634 (0.3%) |
| 28 | 6 | 0.89 | 1/456 (0.2%) | 0.90 | 0/609 |
| 29 | 7 | 1.02 | 0/426 | 1.17 | 5/561 (0.9%) |
| 30 | 8 | 0.92 | 0/516 | 0.98 | 1/679 (0.1%) |
| 31 | 9 | 0.98 | 0/300 | 1.11 | 3/395 (0.8%) |
| All | All | 1.30 | 444/98246 (0.5%) | 1.55 | 2231/147483 (1.5%) |

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.

| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 1 | A | 0 | 4 |
| 3 | D | 0 | 1 |
| 4 | E | 0 | 1 |
| 5 | F | 0 | 3 |
| 6 | G | 0 | 1 |
| 7 | H | 0 | 1 |
| 8 | I | 0 | 1 |
| 9 | N | 0 | 1 |
| 11 | P | 0 | 2 |
| 14 | S | 0 | 1 |
| 15 | T | 0 | 1 |
| 19 | X | 0 | 1 |
| 21 | Z | 0 | 1 |
| 23 | 1 | 0 | 1 |
| 26 | 4 | 0 | 1 |
| 27 | 5 | 0 | 1 |
| All | All | 0 | 22 |

The worst 5 of 444 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|---------|------|-------|--------|-------------|----------|
| 1 | A | 1021 | A | N9-C4 | -14.91 | 1.28 | 1.37 |
| 1 | A | 2287 | A | N9-C4 | -14.79 | 1.28 | 1.37 |
| 1 | A | 1142(A) | A | N9-C4 | -14.66 | 1.29 | 1.37 |
| 1 | A | 945 | A | N9-C4 | -14.58 | 1.29 | 1.37 |
| 1 | A | 528 | A | N9-C4 | -13.49 | 1.29 | 1.37 |

The worst 5 of 2231 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 1 | A | 2296 | U | N3-C4-O4 | -24.74 | 102.08 | 119.40 |
| 1 | A | 1021 | A | C2-N3-C4 | -23.74 | 98.73 | 110.60 |
| 1 | A | 2296 | U | C2-N3-C4 | -23.58 | 112.85 | 127.00 |
| 1 | A | 945 | A | C5-N7-C8 | -23.44 | 92.18 | 103.90 |
| 1 | A | 2335 | A | C5-C6-N1 | 22.23 | 128.81 | 117.70 |

There are no chirality outliers.

5 of 22 planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|--------|------|-----------|
| 1 | A | 2375 | G | Sidechain |
| 1 | A | 2464 | C | Sidechain |
| 1 | A | 271(Q) | G | Sidechain |
| 1 | A | 512 | G | Sidechain |
| 3 | D | 275 | LYS | Peptide |

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | A | 60898 | 0 | 30697 | 757 | 0 |
| 2 | B | 2573 | 0 | 1306 | 27 | 0 |
| 3 | D | 2136 | 0 | 2218 | 55 | 0 |
| 4 | E | 1555 | 0 | 1607 | 41 | 0 |
| 5 | F | 1577 | 0 | 1612 | 44 | 0 |
| 6 | G | 1368 | 0 | 1324 | 37 | 0 |
| 7 | H | 1317 | 0 | 1376 | 23 | 0 |
| 8 | I | 1043 | 0 | 1054 | 39 | 0 |
| 9 | N | 1112 | 0 | 1180 | 25 | 0 |
| 10 | O | 923 | 0 | 981 | 11 | 0 |
| 11 | P | 1131 | 0 | 1201 | 39 | 0 |
| 12 | Q | 1122 | 0 | 1179 | 26 | 0 |
| 13 | R | 968 | 0 | 1033 | 24 | 0 |
| 14 | S | 865 | 0 | 905 | 38 | 0 |
| 15 | T | 1063 | 0 | 1103 | 26 | 0 |
| 16 | U | 959 | 0 | 1019 | 12 | 0 |
| 17 | V | 771 | 0 | 830 | 14 | 1 |
| 18 | W | 881 | 0 | 935 | 22 | 0 |
| 19 | X | 742 | 0 | 799 | 14 | 0 |
| 20 | Y | 785 | 0 | 828 | 16 | 0 |
| 21 | Z | 1522 | 0 | 1511 | 54 | 0 |
| 22 | 0 | 594 | 0 | 604 | 7 | 0 |
| 23 | 1 | 745 | 0 | 804 | 20 | 0 |
| 24 | 2 | 588 | 0 | 643 | 13 | 0 |
| 25 | 3 | 458 | 0 | 503 | 6 | 0 |
| 26 | 4 | 349 | 0 | 336 | 11 | 0 |
| 27 | 5 | 455 | 0 | 472 | 10 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 28 | 6 | 449 | 0 | 462 | 15 | 0 |
| 29 | 7 | 418 | 0 | 467 | 10 | 0 |
| 30 | 8 | 509 | 0 | 565 | 19 | 0 |
| 31 | 9 | 297 | 0 | 316 | 6 | 0 |
| 32 | 0 | 4 | 0 | 0 | 0 | 0 |
| 32 | 1 | 1 | 0 | 0 | 0 | 0 |
| 32 | 2 | 2 | 0 | 0 | 0 | 0 |
| 32 | 3 | 2 | 0 | 0 | 0 | 0 |
| 32 | 6 | 1 | 0 | 0 | 0 | 0 |
| 32 | 7 | 1 | 0 | 0 | 0 | 0 |
| 32 | 8 | 1 | 0 | 0 | 0 | 0 |
| 32 | 9 | 3 | 0 | 0 | 0 | 0 |
| 32 | A | 725 | 0 | 0 | 0 | 0 |
| 32 | B | 19 | 0 | 0 | 0 | 0 |
| 32 | D | 6 | 0 | 0 | 0 | 0 |
| 32 | E | 6 | 0 | 0 | 0 | 0 |
| 32 | F | 6 | 0 | 0 | 0 | 0 |
| 32 | G | 1 | 0 | 0 | 0 | 0 |
| 32 | H | 1 | 0 | 0 | 0 | 0 |
| 32 | N | 2 | 0 | 0 | 0 | 0 |
| 32 | O | 1 | 0 | 0 | 0 | 0 |
| 32 | P | 2 | 0 | 0 | 0 | 0 |
| 32 | Q | 5 | 0 | 0 | 0 | 0 |
| 32 | R | 5 | 0 | 0 | 0 | 0 |
| 32 | S | 1 | 0 | 0 | 0 | 0 |
| 32 | T | 3 | 0 | 0 | 0 | 0 |
| 32 | U | 3 | 0 | 0 | 0 | 0 |
| 32 | V | 4 | 0 | 0 | 0 | 0 |
| 32 | W | 1 | 0 | 0 | 0 | 0 |
| 32 | Y | 1 | 0 | 0 | 0 | 0 |
| 32 | Z | 2 | 0 | 0 | 0 | 0 |
| 33 | 4 | 1 | 0 | 0 | 0 | 0 |
| 33 | 5 | 1 | 0 | 0 | 0 | 0 |
| 33 | 6 | 1 | 0 | 0 | 0 | 0 |
| 33 | 9 | 1 | 0 | 0 | 0 | 0 |
| 33 | Y | 1 | 0 | 0 | 0 | 0 |
| 34 | 0 | 6 | 0 | 0 | 0 | 0 |
| 34 | 1 | 5 | 0 | 0 | 0 | 0 |
| 34 | 3 | 5 | 0 | 0 | 0 | 0 |
| 34 | 5 | 6 | 0 | 0 | 0 | 0 |
| 34 | 6 | 1 | 0 | 0 | 0 | 0 |
| 34 | 7 | 4 | 0 | 0 | 2 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 34 | 8 | 9 | 0 | 0 | 0 | 0 |
| 34 | 9 | 1 | 0 | 0 | 0 | 0 |
| 34 | A | 1975 | 0 | 0 | 65 | 1 |
| 34 | B | 45 | 0 | 0 | 1 | 0 |
| 34 | D | 18 | 0 | 0 | 2 | 0 |
| 34 | E | 16 | 0 | 0 | 1 | 0 |
| 34 | F | 17 | 0 | 0 | 0 | 0 |
| 34 | G | 2 | 0 | 0 | 0 | 0 |
| 34 | H | 2 | 0 | 0 | 0 | 0 |
| 34 | N | 7 | 0 | 0 | 0 | 0 |
| 34 | O | 2 | 0 | 0 | 0 | 0 |
| 34 | P | 21 | 0 | 0 | 0 | 0 |
| 34 | Q | 8 | 0 | 0 | 0 | 0 |
| 34 | R | 9 | 0 | 0 | 0 | 1 |
| 34 | S | 2 | 0 | 0 | 0 | 0 |
| 34 | T | 5 | 0 | 0 | 0 | 0 |
| 34 | U | 7 | 0 | 0 | 0 | 0 |
| 34 | V | 13 | 0 | 0 | 1 | 1 |
| 34 | W | 6 | 0 | 0 | 0 | 0 |
| 34 | X | 2 | 0 | 0 | 0 | 0 |
| 34 | Y | 2 | 0 | 0 | 0 | 0 |
| 34 | Z | 2 | 0 | 0 | 0 | 0 |
| All | All | 93185 | 0 | 59870 | 1298 | 2 |

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 9.

The worst 5 of 1298 close contacts within the same asymmetric unit are listed below.

| Atom-1 | Atom-2 | Distance(Å) | Clash(Å) |
|-----------------|---------------|-------------|----------|
| 1:A:2296:U:O4 | 1:A:2335:A:N6 | 1.59 | 1.34 |
| 1:A:885:C:N4 | 1:A:890:A:N6 | 1.97 | 1.13 |
| 1:A:2322:A:H61 | 1:A:2335:A:N6 | 1.48 | 1.11 |
| 1:A:885:C:H42 | 1:A:890:A:N6 | 1.50 | 1.03 |
| 1:A:1019:U:HO2' | 1:A:1021:A:H2 | 1.01 | 0.99 |

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

| Atom-1 | Atom-2 | Distance(Å) | Clash(Å) |
|----------------|------------------------|-------------|----------|
| 34:R:309:HOH:O | 34:V:310:HOH:O[4_445] | 2.03 | 0.17 |
| 17:V:101:GLY:O | 34:A:5726:HOH:O[4_545] | 2.17 | 0.03 |

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.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|------------|----------|----------|-------------|-----|
| 3 | D | 273/276 (99%) | 262 (96%) | 8 (3%) | 3 (1%) | 21 | 49 |
| 4 | E | 202/206 (98%) | 191 (95%) | 8 (4%) | 3 (2%) | 15 | 38 |
| 5 | F | 201/210 (96%) | 189 (94%) | 10 (5%) | 2 (1%) | 22 | 51 |
| 6 | G | 179/182 (98%) | 149 (83%) | 26 (14%) | 4 (2%) | 10 | 25 |
| 7 | H | 172/180 (96%) | 161 (94%) | 10 (6%) | 1 (1%) | 33 | 66 |
| 8 | I | 144/148 (97%) | 116 (81%) | 24 (17%) | 4 (3%) | 8 | 18 |
| 9 | N | 138/140 (99%) | 125 (91%) | 11 (8%) | 2 (1%) | 16 | 41 |
| 10 | O | 120/122 (98%) | 118 (98%) | 2 (2%) | 0 | 100 | 100 |
| 11 | P | 147/150 (98%) | 132 (90%) | 13 (9%) | 2 (1%) | 16 | 41 |
| 12 | Q | 139/141 (99%) | 132 (95%) | 6 (4%) | 1 (1%) | 30 | 62 |
| 13 | R | 116/118 (98%) | 114 (98%) | 2 (2%) | 0 | 100 | 100 |
| 14 | S | 108/112 (96%) | 99 (92%) | 8 (7%) | 1 (1%) | 25 | 55 |
| 15 | T | 129/146 (88%) | 125 (97%) | 4 (3%) | 0 | 100 | 100 |
| 16 | U | 114/118 (97%) | 114 (100%) | 0 | 0 | 100 | 100 |
| 17 | V | 99/101 (98%) | 93 (94%) | 6 (6%) | 0 | 100 | 100 |
| 18 | W | 110/113 (97%) | 109 (99%) | 1 (1%) | 0 | 100 | 100 |
| 19 | X | 93/96 (97%) | 85 (91%) | 8 (9%) | 0 | 100 | 100 |
| 20 | Y | 105/110 (96%) | 93 (89%) | 12 (11%) | 0 | 100 | 100 |
| 21 | Z | 196/206 (95%) | 178 (91%) | 14 (7%) | 4 (2%) | 11 | 28 |
| 22 | 0 | 74/85 (87%) | 72 (97%) | 2 (3%) | 0 | 100 | 100 |
| 23 | 1 | 95/98 (97%) | 92 (97%) | 1 (1%) | 2 (2%) | 11 | 27 |
| 24 | 2 | 68/72 (94%) | 64 (94%) | 4 (6%) | 0 | 100 | 100 |
| 25 | 3 | 57/60 (95%) | 56 (98%) | 1 (2%) | 0 | 100 | 100 |
| 26 | 4 | 44/71 (62%) | 35 (80%) | 8 (18%) | 1 (2%) | 10 | 24 |
| 27 | 5 | 57/60 (95%) | 53 (93%) | 4 (7%) | 0 | 100 | 100 |
| 28 | 6 | 51/54 (94%) | 49 (96%) | 2 (4%) | 0 | 100 | 100 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 29 | 7 | 46/49 (94%) | 44 (96%) | 1 (2%) | 1 (2%) | 10 | 25 |
| 30 | 8 | 62/65 (95%) | 60 (97%) | 1 (2%) | 1 (2%) | 14 | 35 |
| 31 | 9 | 34/37 (92%) | 34 (100%) | 0 | 0 | 100 | 100 |
| All | All | 3373/3526 (96%) | 3144 (93%) | 197 (6%) | 32 (1%) | 25 | 55 |

5 of 32 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 5 | F | 21 | ALA |
| 6 | G | 82 | LEU |
| 8 | I | 107 | VAL |
| 11 | P | 27 | HIS |
| 21 | Z | 161 | VAL |

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.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 3 | D | 215/218 (99%) | 191 (89%) | 24 (11%) | 9 | 20 |
| 4 | E | 163/166 (98%) | 140 (86%) | 23 (14%) | 5 | 12 |
| 5 | F | 158/166 (95%) | 134 (85%) | 24 (15%) | 4 | 10 |
| 6 | G | 128/156 (82%) | 107 (84%) | 21 (16%) | 3 | 9 |
| 7 | H | 141/148 (95%) | 125 (89%) | 16 (11%) | 9 | 19 |
| 8 | I | 100/124 (81%) | 73 (73%) | 27 (27%) | 1 | 2 |
| 9 | N | 117/119 (98%) | 99 (85%) | 18 (15%) | 4 | 10 |
| 10 | O | 98/100 (98%) | 89 (91%) | 9 (9%) | 13 | 29 |
| 11 | P | 114/116 (98%) | 94 (82%) | 20 (18%) | 3 | 7 |
| 12 | Q | 111/111 (100%) | 94 (85%) | 17 (15%) | 4 | 10 |
| 13 | R | 101/101 (100%) | 81 (80%) | 20 (20%) | 2 | 5 |
| 14 | S | 84/88 (96%) | 70 (83%) | 14 (17%) | 3 | 8 |
| 15 | T | 110/127 (87%) | 90 (82%) | 20 (18%) | 2 | 6 |
| 16 | U | 93/94 (99%) | 80 (86%) | 13 (14%) | 5 | 12 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|------------|-----------|-------------|----|
| 17 | V | 80/82 (98%) | 65 (81%) | 15 (19%) | 2 | 6 |
| 18 | W | 89/92 (97%) | 77 (86%) | 12 (14%) | 6 | 13 |
| 19 | X | 75/78 (96%) | 66 (88%) | 9 (12%) | 7 | 17 |
| 20 | Y | 80/91 (88%) | 66 (82%) | 14 (18%) | 3 | 7 |
| 21 | Z | 159/179 (89%) | 137 (86%) | 22 (14%) | 5 | 13 |
| 22 | 0 | 59/67 (88%) | 52 (88%) | 7 (12%) | 8 | 18 |
| 23 | 1 | 78/83 (94%) | 65 (83%) | 13 (17%) | 3 | 8 |
| 24 | 2 | 65/67 (97%) | 57 (88%) | 8 (12%) | 7 | 17 |
| 25 | 3 | 49/52 (94%) | 44 (90%) | 5 (10%) | 11 | 24 |
| 26 | 4 | 39/63 (62%) | 34 (87%) | 5 (13%) | 6 | 15 |
| 27 | 5 | 50/52 (96%) | 43 (86%) | 7 (14%) | 5 | 12 |
| 28 | 6 | 50/52 (96%) | 40 (80%) | 10 (20%) | 2 | 5 |
| 29 | 7 | 41/42 (98%) | 35 (85%) | 6 (15%) | 5 | 11 |
| 30 | 8 | 52/55 (94%) | 45 (86%) | 7 (14%) | 6 | 13 |
| 31 | 9 | 32/34 (94%) | 30 (94%) | 2 (6%) | 25 | 53 |
| All | All | 2731/2923 (93%) | 2323 (85%) | 408 (15%) | 4 | 11 |

5 of 408 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 12 | Q | 7 | MET |
| 14 | S | 52 | SER |
| 27 | 5 | 15 | ARG |
| 12 | Q | 35 | VAL |
| 13 | R | 54 | LEU |

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 11 | P | 38 | GLN |
| 11 | P | 70 | GLN |
| 19 | X | 82 | GLN |
| 9 | N | 133 | GLN |
| 19 | X | 31 | HIS |

5.3.3 RNA ⓘ

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | A | 2819/2915 (96%) | 514 (18%) | 72 (2%) |
| 2 | B | 119/122 (97%) | 19 (15%) | 0 |
| All | All | 2938/3037 (96%) | 533 (18%) | 72 (2%) |

5 of 533 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 10 | G |
| 1 | A | 15 | G |
| 1 | A | 34 | C |
| 1 | A | 45 | C |
| 1 | A | 69 | C |

5 of 72 RNA pucker outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|---------|------|
| 1 | A | 1108 | U |
| 1 | A | 1379 | A |
| 1 | A | 2689 | U |
| 1 | A | 1142(A) | A |
| 1 | A | 1175 | U |

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 814 ligands modelled in this entry, 814 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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.

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|----------------|-----------------------|-------|
| 1 | A | 2827/2915 (96%) | 0.29 | 186 (6%) 18 20 | 24, 40, 120, 169 | 0 |
| 2 | B | 120/122 (98%) | 0.42 | 5 (4%) 35 39 | 39, 65, 76, 119 | 0 |
| 3 | D | 275/276 (99%) | 0.35 | 10 (3%) 41 46 | 24, 39, 51, 79 | 0 |
| 4 | E | 204/206 (99%) | 0.24 | 11 (5%) 25 27 | 24, 44, 64, 81 | 0 |
| 5 | F | 203/210 (96%) | 0.61 | 16 (7%) 13 13 | 25, 49, 82, 113 | 0 |
| 6 | G | 181/182 (99%) | 1.02 | 36 (19%) 2 2 | 64, 83, 108, 138 | 0 |
| 7 | H | 174/180 (96%) | 0.74 | 25 (14%) 3 4 | 49, 64, 80, 92 | 0 |
| 8 | I | 146/148 (98%) | 1.41 | 41 (28%) 1 1 | 46, 75, 91, 98 | 0 |
| 9 | N | 140/140 (100%) | 0.32 | 9 (6%) 19 21 | 30, 44, 66, 83 | 0 |
| 10 | O | 122/122 (100%) | 0.10 | 2 (1%) 68 74 | 34, 43, 62, 65 | 0 |
| 11 | P | 149/150 (99%) | 0.50 | 8 (5%) 25 27 | 25, 51, 77, 96 | 0 |
| 12 | Q | 141/141 (100%) | 0.36 | 6 (4%) 34 38 | 31, 47, 59, 74 | 0 |
| 13 | R | 118/118 (100%) | 0.41 | 6 (5%) 27 30 | 30, 39, 51, 62 | 0 |
| 14 | S | 110/112 (98%) | 1.02 | 18 (16%) 2 3 | 48, 62, 77, 85 | 0 |
| 15 | T | 131/146 (89%) | 0.50 | 11 (8%) 11 12 | 38, 46, 76, 103 | 0 |
| 16 | U | 116/118 (98%) | 0.13 | 3 (2%) 53 59 | 28, 38, 53, 70 | 0 |
| 17 | V | 101/101 (100%) | 0.45 | 9 (8%) 10 10 | 27, 48, 67, 83 | 0 |
| 18 | W | 112/113 (99%) | 0.13 | 5 (4%) 32 36 | 28, 35, 52, 92 | 0 |
| 19 | X | 95/96 (98%) | 0.27 | 1 (1%) 77 82 | 33, 43, 65, 84 | 0 |
| 20 | Y | 107/110 (97%) | 1.01 | 21 (19%) 2 2 | 44, 55, 77, 88 | 0 |
| 21 | Z | 198/206 (96%) | 0.65 | 27 (13%) 4 4 | 48, 68, 91, 103 | 0 |
| 22 | 0 | 76/85 (89%) | 0.54 | 5 (6%) 18 20 | 37, 44, 57, 75 | 0 |
| 23 | 1 | 97/98 (98%) | 0.52 | 9 (9%) 9 9 | 31, 44, 74, 82 | 0 |
| 24 | 2 | 70/72 (97%) | 1.43 | 23 (32%) 1 1 | 42, 56, 67, 93 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|----------------|-----------------------|-------|
| 25 | 3 | 59/60 (98%) | 0.71 | 7 (11%) 5 5 | 33, 42, 66, 84 | 0 |
| 26 | 4 | 46/71 (64%) | 1.17 | 13 (28%) 1 1 | 73, 96, 111, 116 | 0 |
| 27 | 5 | 59/60 (98%) | 0.07 | 0 100 100 | 23, 38, 56, 68 | 0 |
| 28 | 6 | 53/54 (98%) | 0.45 | 2 (3%) 38 43 | 40, 46, 59, 66 | 0 |
| 29 | 7 | 48/49 (97%) | 0.48 | 6 (12%) 5 5 | 26, 30, 51, 71 | 0 |
| 30 | 8 | 64/65 (98%) | 0.25 | 2 (3%) 47 52 | 34, 38, 45, 57 | 0 |
| 31 | 9 | 36/37 (97%) | 0.78 | 2 (5%) 24 25 | 38, 46, 57, 69 | 0 |
| All | All | 6378/6563 (97%) | 0.44 | 525 (8%) 11 12 | 23, 45, 93, 169 | 0 |

The worst 5 of 525 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|--------|------|------|
| 1 | A | 2133 | G | 13.9 |
| 1 | A | 2108 | C | 11.6 |
| 1 | A | 2132 | U | 11.6 |
| 1 | A | 652(B) | A | 10.4 |
| 1 | A | 2790 | A | 10.4 |

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 32 | MG | A | 3697 | 1/1 | 0.23 | - | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3003 | 1/1 | 0.25 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3657 | 1/1 | 0.12 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3277 | 1/1 | 0.08 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3611 | 1/1 | 0.16 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3513 | 1/1 | 0.13 | - | 28,28,28,28 | 0 |
| 32 | MG | Q | 204 | 1/1 | 0.19 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3485 | 1/1 | 0.51 | - | 74,74,74,74 | 0 |
| 32 | MG | Z | 302 | 1/1 | 0.14 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3499 | 1/1 | 0.15 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3005 | 1/1 | 0.18 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3564 | 1/1 | 0.43 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3324 | 1/1 | 0.09 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3581 | 1/1 | 0.14 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3025 | 1/1 | 0.23 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3376 | 1/1 | 0.06 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3347 | 1/1 | 0.06 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3146 | 1/1 | 0.34 | - | 48,48,48,48 | 0 |
| 32 | MG | B | 219 | 1/1 | 0.14 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3169 | 1/1 | 0.07 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3360 | 1/1 | 0.09 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3268 | 1/1 | 0.40 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3053 | 1/1 | 0.49 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3568 | 1/1 | 0.23 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3468 | 1/1 | 0.19 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3041 | 1/1 | 0.54 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3059 | 1/1 | 0.43 | - | 36,36,36,36 | 0 |
| 32 | MG | G | 201 | 1/1 | 0.06 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3229 | 1/1 | 0.11 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3071 | 1/1 | 0.24 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3293 | 1/1 | 0.08 | - | 43,43,43,43 | 0 |
| 32 | MG | 9 | 103 | 1/1 | 0.42 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3084 | 1/1 | 0.28 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3261 | 1/1 | 0.58 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3212 | 1/1 | 0.19 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3642 | 1/1 | 0.18 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3447 | 1/1 | 0.66 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3032 | 1/1 | 0.16 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3415 | 1/1 | 0.10 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3251 | 1/1 | 0.15 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3246 | 1/1 | 0.09 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3407 | 1/1 | 0.11 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3645 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3652 | 1/1 | 0.49 | - | 91,91,91,91 | 0 |
| 32 | MG | A | 3016 | 1/1 | 0.59 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3538 | 1/1 | 0.16 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3465 | 1/1 | 0.08 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3638 | 1/1 | 0.66 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3011 | 1/1 | 0.07 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3466 | 1/1 | 0.20 | - | 50,50,50,50 | 0 |
| 32 | MG | B | 206 | 1/1 | 0.22 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3520 | 1/1 | 0.25 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3194 | 1/1 | 0.06 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3290 | 1/1 | 0.11 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3007 | 1/1 | 0.19 | - | 24,24,24,24 | 0 |
| 32 | MG | T | 201 | 1/1 | 0.72 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3671 | 1/1 | 0.38 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3316 | 1/1 | 0.18 | - | 77,77,77,77 | 0 |
| 32 | MG | A | 3712 | 1/1 | 0.21 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3063 | 1/1 | 0.12 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3272 | 1/1 | 0.18 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3692 | 1/1 | 0.07 | - | 27,27,27,27 | 0 |
| 32 | MG | B | 212 | 1/1 | 0.10 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3039 | 1/1 | 0.48 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3515 | 1/1 | 0.17 | - | 29,29,29,29 | 0 |
| 32 | MG | B | 202 | 1/1 | 0.22 | - | 45,45,45,45 | 0 |
| 32 | MG | B | 201 | 1/1 | 0.57 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3099 | 1/1 | 0.21 | - | 44,44,44,44 | 0 |
| 32 | MG | D | 302 | 1/1 | 0.24 | - | 33,33,33,33 | 0 |
| 32 | MG | B | 209 | 1/1 | 0.10 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3286 | 1/1 | 0.15 | - | 68,68,68,68 | 0 |
| 32 | MG | 6 | 102 | 1/1 | 0.11 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3197 | 1/1 | 0.20 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3605 | 1/1 | 0.08 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3576 | 1/1 | 0.53 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3387 | 1/1 | 0.15 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3548 | 1/1 | 0.16 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3370 | 1/1 | 0.26 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3673 | 1/1 | 0.12 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3620 | 1/1 | 0.24 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3151 | 1/1 | 0.10 | - | 36,36,36,36 | 0 |
| 32 | MG | U | 202 | 1/1 | 0.14 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3566 | 1/1 | 0.21 | - | 74,74,74,74 | 0 |
| 32 | MG | A | 3377 | 1/1 | 0.28 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3097 | 1/1 | 0.15 | - | 33,33,33,33 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3451 | 1/1 | 0.11 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3074 | 1/1 | 0.34 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3557 | 1/1 | 0.15 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3115 | 1/1 | 0.30 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3539 | 1/1 | 0.22 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3457 | 1/1 | 0.23 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3014 | 1/1 | 0.17 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3574 | 1/1 | 0.32 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3183 | 1/1 | 0.11 | - | 71,71,71,71 | 0 |
| 32 | MG | A | 3505 | 1/1 | 0.44 | - | 77,77,77,77 | 0 |
| 32 | MG | A | 3267 | 1/1 | 0.13 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3313 | 1/1 | 0.17 | - | 64,64,64,64 | 0 |
| 32 | MG | A | 3300 | 1/1 | 0.09 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3687 | 1/1 | 0.39 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3028 | 1/1 | 0.15 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3291 | 1/1 | 0.20 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3446 | 1/1 | 0.05 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3615 | 1/1 | 0.14 | - | 40,40,40,40 | 0 |
| 32 | MG | 9 | 104 | 1/1 | 0.14 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3533 | 1/1 | 0.07 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3250 | 1/1 | 0.11 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3179 | 1/1 | 0.08 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3201 | 1/1 | 0.09 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3001 | 1/1 | 0.13 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3238 | 1/1 | 0.11 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3724 | 1/1 | 0.12 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3462 | 1/1 | 0.09 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3436 | 1/1 | 0.22 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3330 | 1/1 | 0.44 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3035 | 1/1 | 0.14 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3022 | 1/1 | 0.18 | - | 34,34,34,34 | 0 |
| 33 | ZN | 6 | 101 | 1/1 | 0.03 | - | 42,42,42,42 | 0 |
| 32 | MG | B | 215 | 1/1 | 0.12 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3066 | 1/1 | 0.16 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3177 | 1/1 | 0.20 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3666 | 1/1 | 0.16 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3126 | 1/1 | 0.12 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3508 | 1/1 | 0.16 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3367 | 1/1 | 0.17 | - | 32,32,32,32 | 0 |
| 32 | MG | N | 201 | 1/1 | 0.17 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3215 | 1/1 | 0.36 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3494 | 1/1 | 0.50 | - | 35,35,35,35 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3110 | 1/1 | 0.13 | - | 50,50,50,50 | 0 |
| 32 | MG | B | 205 | 1/1 | 0.11 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3283 | 1/1 | 0.30 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3480 | 1/1 | 0.12 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3072 | 1/1 | 0.47 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3154 | 1/1 | 0.06 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3258 | 1/1 | 0.09 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3191 | 1/1 | 0.27 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3701 | 1/1 | 0.06 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3134 | 1/1 | 0.34 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3098 | 1/1 | 0.17 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3653 | 1/1 | 0.13 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3048 | 1/1 | 0.41 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3717 | 1/1 | 0.17 | - | 71,71,71,71 | 0 |
| 32 | MG | A | 3679 | 1/1 | 0.34 | - | 64,64,64,64 | 0 |
| 32 | MG | A | 3403 | 1/1 | 0.09 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3351 | 1/1 | 0.27 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3241 | 1/1 | 0.21 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3328 | 1/1 | 0.13 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3209 | 1/1 | 0.12 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3006 | 1/1 | 0.11 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3713 | 1/1 | 0.12 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3686 | 1/1 | 0.14 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3289 | 1/1 | 0.18 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3185 | 1/1 | 0.27 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3663 | 1/1 | 0.34 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3404 | 1/1 | 0.11 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3113 | 1/1 | 0.17 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3149 | 1/1 | 0.25 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3546 | 1/1 | 0.08 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3455 | 1/1 | 0.20 | - | 51,51,51,51 | 0 |
| 32 | MG | F | 304 | 1/1 | 0.44 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3226 | 1/1 | 0.10 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3089 | 1/1 | 0.38 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3545 | 1/1 | 0.24 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3507 | 1/1 | 0.55 | - | 71,71,71,71 | 0 |
| 32 | MG | A | 3650 | 1/1 | 0.65 | - | 68,68,68,68 | 0 |
| 32 | MG | A | 3309 | 1/1 | 0.25 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3391 | 1/1 | 0.11 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3382 | 1/1 | 0.14 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3417 | 1/1 | 0.10 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3688 | 1/1 | 0.08 | - | 36,36,36,36 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | 9 | 102 | 1/1 | 0.21 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3140 | 1/1 | 0.13 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3056 | 1/1 | 0.18 | - | 32,32,32,32 | 0 |
| 32 | MG | F | 302 | 1/1 | 0.20 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3256 | 1/1 | 0.12 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3013 | 1/1 | 0.19 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3361 | 1/1 | 0.12 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3326 | 1/1 | 0.15 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3296 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3352 | 1/1 | 0.14 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3704 | 1/1 | 0.16 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3282 | 1/1 | 0.16 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3239 | 1/1 | 0.07 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3244 | 1/1 | 0.25 | - | 39,39,39,39 | 0 |
| 32 | MG | B | 213 | 1/1 | 0.39 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3329 | 1/1 | 0.18 | - | 39,39,39,39 | 0 |
| 32 | MG | 0 | 101 | 1/1 | 0.41 | - | 40,40,40,40 | 0 |
| 32 | MG | F | 305 | 1/1 | 0.21 | - | 29,29,29,29 | 0 |
| 32 | MG | F | 303 | 1/1 | 0.24 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3152 | 1/1 | 0.18 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3540 | 1/1 | 0.22 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3675 | 1/1 | 0.09 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3243 | 1/1 | 0.12 | - | 20,20,20,20 | 0 |
| 32 | MG | A | 3559 | 1/1 | 0.09 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3554 | 1/1 | 0.09 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3178 | 1/1 | 0.13 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3401 | 1/1 | 0.12 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3189 | 1/1 | 0.10 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3472 | 1/1 | 0.07 | - | 101,101,101,101 | 0 |
| 32 | MG | A | 3131 | 1/1 | 0.39 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3148 | 1/1 | 0.15 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3223 | 1/1 | 0.16 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3060 | 1/1 | 0.37 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3398 | 1/1 | 0.20 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3112 | 1/1 | 0.30 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3054 | 1/1 | 0.18 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3235 | 1/1 | 0.16 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3037 | 1/1 | 0.20 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3563 | 1/1 | 0.13 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3609 | 1/1 | 0.10 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3363 | 1/1 | 0.06 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3558 | 1/1 | 0.15 | - | 59,59,59,59 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3710 | 1/1 | 0.31 | - | 88,88,88,88 | 0 |
| 32 | MG | A | 3487 | 1/1 | 0.28 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3637 | 1/1 | 0.21 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3274 | 1/1 | 0.08 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3042 | 1/1 | 0.19 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3368 | 1/1 | 0.26 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3087 | 1/1 | 0.12 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3690 | 1/1 | 0.16 | - | 52,52,52,52 | 0 |
| 32 | MG | S | 201 | 1/1 | 0.16 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3664 | 1/1 | 0.17 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3409 | 1/1 | 0.15 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3021 | 1/1 | 0.40 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3525 | 1/1 | 0.39 | - | 95,95,95,95 | 0 |
| 32 | MG | A | 3603 | 1/1 | 0.10 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3706 | 1/1 | 0.09 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3308 | 1/1 | 0.09 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3082 | 1/1 | 0.10 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3273 | 1/1 | 0.21 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3218 | 1/1 | 0.09 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3216 | 1/1 | 0.10 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3253 | 1/1 | 0.06 | - | 18,18,18,18 | 0 |
| 32 | MG | B | 207 | 1/1 | 0.17 | - | 49,49,49,49 | 0 |
| 32 | MG | E | 303 | 1/1 | 0.41 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3585 | 1/1 | 0.36 | - | 77,77,77,77 | 0 |
| 32 | MG | A | 3137 | 1/1 | 0.08 | - | 23,23,23,23 | 0 |
| 32 | MG | O | 104 | 1/1 | 0.23 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3214 | 1/1 | 0.13 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3509 | 1/1 | 0.06 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3500 | 1/1 | 0.24 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3358 | 1/1 | 0.11 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3477 | 1/1 | 0.19 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3591 | 1/1 | 0.41 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3454 | 1/1 | 0.13 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3495 | 1/1 | 0.15 | - | 68,68,68,68 | 0 |
| 32 | MG | A | 3265 | 1/1 | 0.09 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3681 | 1/1 | 0.13 | - | 43,43,43,43 | 0 |
| 32 | MG | T | 203 | 1/1 | 0.20 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3294 | 1/1 | 0.15 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3383 | 1/1 | 0.07 | - | 20,20,20,20 | 0 |
| 32 | MG | P | 201 | 1/1 | 0.23 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3133 | 1/1 | 0.41 | - | 55,55,55,55 | 0 |
| 32 | MG | R | 201 | 1/1 | 0.35 | - | 39,39,39,39 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3339 | 1/1 | 0.12 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3075 | 1/1 | 0.46 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3047 | 1/1 | 0.38 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3392 | 1/1 | 0.08 | - | 36,36,36,36 | 0 |
| 32 | MG | Y | 202 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3437 | 1/1 | 0.22 | - | 24,24,24,24 | 0 |
| 32 | MG | D | 303 | 1/1 | 0.11 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3064 | 1/1 | 0.30 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3544 | 1/1 | 0.14 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3624 | 1/1 | 0.50 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3305 | 1/1 | 0.13 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3236 | 1/1 | 0.06 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3430 | 1/1 | 0.16 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3049 | 1/1 | 0.33 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3397 | 1/1 | 0.15 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3602 | 1/1 | 0.22 | - | 76,76,76,76 | 0 |
| 32 | MG | A | 3366 | 1/1 | 0.14 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3696 | 1/1 | 0.13 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3224 | 1/1 | 0.09 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3629 | 1/1 | 0.05 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3255 | 1/1 | 0.25 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3168 | 1/1 | 0.91 | - | 73,73,73,73 | 0 |
| 32 | MG | A | 3711 | 1/1 | 0.15 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3656 | 1/1 | 0.20 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3618 | 1/1 | 0.29 | - | 85,85,85,85 | 0 |
| 32 | MG | A | 3317 | 1/1 | 0.12 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3434 | 1/1 | 0.08 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3725 | 1/1 | 0.37 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3348 | 1/1 | 0.12 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3396 | 1/1 | 0.13 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3138 | 1/1 | 0.09 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3432 | 1/1 | 0.09 | - | 28,28,28,28 | 0 |
| 32 | MG | B | 217 | 1/1 | 0.28 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3208 | 1/1 | 0.07 | - | 39,39,39,39 | 0 |
| 32 | MG | R | 202 | 1/1 | 0.09 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3187 | 1/1 | 0.16 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3315 | 1/1 | 0.11 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3171 | 1/1 | 0.10 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3406 | 1/1 | 0.14 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3393 | 1/1 | 0.23 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3172 | 1/1 | 0.21 | - | 23,23,23,23 | 0 |
| 32 | MG | Z | 301 | 1/1 | 0.36 | - | 61,61,61,61 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3526 | 1/1 | 0.06 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3143 | 1/1 | 0.09 | - | 24,24,24,24 | 0 |
| 32 | MG | E | 301 | 1/1 | 0.26 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3584 | 1/1 | 0.23 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3350 | 1/1 | 0.09 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3278 | 1/1 | 0.20 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3590 | 1/1 | 0.09 | - | 78,78,78,78 | 0 |
| 32 | MG | A | 3373 | 1/1 | 0.08 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3689 | 1/1 | 0.09 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3184 | 1/1 | 0.11 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3680 | 1/1 | 0.57 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3206 | 1/1 | 0.17 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3257 | 1/1 | 0.06 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3411 | 1/1 | 0.10 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3484 | 1/1 | 0.19 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3297 | 1/1 | 0.22 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3553 | 1/1 | 0.11 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3062 | 1/1 | 0.22 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3280 | 1/1 | 0.45 | - | 96,96,96,96 | 0 |
| 32 | MG | A | 3181 | 1/1 | 0.55 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3464 | 1/1 | 0.20 | - | 65,65,65,65 | 0 |
| 32 | MG | D | 305 | 1/1 | 0.14 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3320 | 1/1 | 0.22 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3162 | 1/1 | 0.17 | - | 68,68,68,68 | 0 |
| 32 | MG | A | 3078 | 1/1 | 0.23 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3102 | 1/1 | 0.47 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3489 | 1/1 | 0.58 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3065 | 1/1 | 0.18 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3196 | 1/1 | 0.16 | - | 67,67,67,67 | 0 |
| 32 | MG | U | 201 | 1/1 | 0.31 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3722 | 1/1 | 0.12 | - | 73,73,73,73 | 0 |
| 32 | MG | A | 3378 | 1/1 | 0.07 | - | 26,26,26,26 | 0 |
| 32 | MG | V | 203 | 1/1 | 0.18 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3453 | 1/1 | 0.13 | - | 45,45,45,45 | 0 |
| 32 | MG | 2 | 101 | 1/1 | 0.14 | - | 46,46,46,46 | 0 |
| 33 | ZN | 9 | 101 | 1/1 | 0.04 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3720 | 1/1 | 0.75 | - | 97,97,97,97 | 0 |
| 32 | MG | A | 3672 | 1/1 | 1.06 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3055 | 1/1 | 0.18 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3395 | 1/1 | 0.09 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3332 | 1/1 | 0.10 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3046 | 1/1 | 0.36 | - | 38,38,38,38 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3225 | 1/1 | 0.22 | - | 35,35,35,35 | 0 |
| 32 | MG | R | 204 | 1/1 | 0.16 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3587 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3355 | 1/1 | 0.11 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3551 | 1/1 | 0.22 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3237 | 1/1 | 0.18 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3443 | 1/1 | 0.05 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3512 | 1/1 | 0.13 | - | 91,91,91,91 | 0 |
| 32 | MG | A | 3593 | 1/1 | 0.10 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3372 | 1/1 | 0.15 | - | 44,44,44,44 | 0 |
| 32 | MG | Q | 203 | 1/1 | 0.06 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3607 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3285 | 1/1 | 0.10 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3130 | 1/1 | 0.07 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3292 | 1/1 | 0.54 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3307 | 1/1 | 0.08 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3429 | 1/1 | 0.14 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3561 | 1/1 | 0.18 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3420 | 1/1 | 0.10 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3549 | 1/1 | 0.15 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3572 | 1/1 | 0.09 | - | 59,59,59,59 | 0 |
| 32 | MG | B | 218 | 1/1 | 0.10 | - | 69,69,69,69 | 0 |
| 32 | MG | T | 202 | 1/1 | 0.20 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3045 | 1/1 | 0.30 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3619 | 1/1 | 0.24 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3414 | 1/1 | 0.15 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3271 | 1/1 | 0.13 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3668 | 1/1 | 0.22 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3068 | 1/1 | 0.20 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3705 | 1/1 | 0.18 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3027 | 1/1 | 0.15 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3542 | 1/1 | 0.15 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3067 | 1/1 | 0.22 | - | 74,74,74,74 | 0 |
| 32 | MG | A | 3488 | 1/1 | 0.12 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3252 | 1/1 | 0.15 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3678 | 1/1 | 0.35 | - | 95,95,95,95 | 0 |
| 32 | MG | A | 3150 | 1/1 | 0.14 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3219 | 1/1 | 0.06 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3597 | 1/1 | 0.08 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3496 | 1/1 | 0.23 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3413 | 1/1 | 0.16 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3050 | 1/1 | 0.18 | - | 32,32,32,32 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3478 | 1/1 | 0.16 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3408 | 1/1 | 0.12 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3384 | 1/1 | 0.17 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3118 | 1/1 | 0.11 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3092 | 1/1 | 0.17 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3721 | 1/1 | 0.10 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3433 | 1/1 | 0.30 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3193 | 1/1 | 0.14 | - | 46,46,46,46 | 0 |
| 32 | MG | Q | 202 | 1/1 | 0.12 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3052 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3589 | 1/1 | 0.30 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3288 | 1/1 | 0.21 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3474 | 1/1 | 0.43 | - | 77,77,77,77 | 0 |
| 32 | MG | A | 3633 | 1/1 | 0.33 | - | 82,82,82,82 | 0 |
| 32 | MG | A | 3560 | 1/1 | 0.17 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3644 | 1/1 | 0.08 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3318 | 1/1 | 0.07 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3301 | 1/1 | 0.41 | - | 61,61,61,61 | 0 |
| 32 | MG | O | 201 | 1/1 | 0.17 | - | 53,53,53,53 | 0 |
| 32 | MG | D | 304 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3604 | 1/1 | 0.06 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3135 | 1/1 | 0.17 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3635 | 1/1 | 0.33 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3337 | 1/1 | 0.07 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3502 | 1/1 | 0.38 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3306 | 1/1 | 0.12 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3425 | 1/1 | 0.17 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3431 | 1/1 | 0.12 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3569 | 1/1 | 0.30 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3058 | 1/1 | 0.93 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3156 | 1/1 | 0.14 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3030 | 1/1 | 0.20 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3295 | 1/1 | 0.45 | - | 54,54,54,54 | 0 |
| 32 | MG | Q | 201 | 1/1 | 0.35 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3595 | 1/1 | 0.22 | - | 58,58,58,58 | 0 |
| 33 | ZN | 4 | 101 | 1/1 | 0.05 | - | 117,117,117,117 | 0 |
| 32 | MG | A | 3676 | 1/1 | 0.09 | - | 31,31,31,31 | 0 |
| 32 | MG | B | 214 | 1/1 | 0.12 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3002 | 1/1 | 0.23 | - | 20,20,20,20 | 0 |
| 32 | MG | A | 3207 | 1/1 | 0.14 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3210 | 1/1 | 0.35 | - | 64,64,64,64 | 0 |
| 32 | MG | A | 3141 | 1/1 | 0.18 | - | 33,33,33,33 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3640 | 1/1 | 0.17 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3364 | 1/1 | 0.05 | - | 27,27,27,27 | 0 |
| 32 | MG | B | 204 | 1/1 | 0.21 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3547 | 1/1 | 0.10 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3482 | 1/1 | 0.19 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3412 | 1/1 | 0.10 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3577 | 1/1 | 0.19 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3647 | 1/1 | 0.17 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3444 | 1/1 | 0.13 | - | 40,40,40,40 | 0 |
| 33 | ZN | Y | 201 | 1/1 | 0.04 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3435 | 1/1 | 0.14 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3270 | 1/1 | 0.06 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3069 | 1/1 | 0.19 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3517 | 1/1 | 0.25 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3450 | 1/1 | 0.15 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3565 | 1/1 | 0.46 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3259 | 1/1 | 0.14 | - | 86,86,86,86 | 0 |
| 32 | MG | A | 3015 | 1/1 | 0.29 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3660 | 1/1 | 0.23 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3490 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3170 | 1/1 | 0.16 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3331 | 1/1 | 0.29 | - | 71,71,71,71 | 0 |
| 32 | MG | A | 3452 | 1/1 | 0.21 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3094 | 1/1 | 0.24 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3158 | 1/1 | 0.08 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3527 | 1/1 | 0.09 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3161 | 1/1 | 0.19 | - | 45,45,45,45 | 0 |
| 32 | MG | E | 304 | 1/1 | 0.16 | - | 53,53,53,53 | 0 |
| 32 | MG | R | 203 | 1/1 | 0.54 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3612 | 1/1 | 0.20 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3153 | 1/1 | 0.13 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3375 | 1/1 | 0.19 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3626 | 1/1 | 0.27 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3245 | 1/1 | 0.30 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3323 | 1/1 | 0.26 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3123 | 1/1 | 0.32 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3031 | 1/1 | 0.13 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3335 | 1/1 | 0.12 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3504 | 1/1 | 0.48 | - | 77,77,77,77 | 0 |
| 32 | MG | A | 3018 | 1/1 | 0.20 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3677 | 1/1 | 0.32 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3634 | 1/1 | 0.72 | - | 56,56,56,56 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3503 | 1/1 | 0.06 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3390 | 1/1 | 0.08 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3623 | 1/1 | 0.16 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3103 | 1/1 | 0.70 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3009 | 1/1 | 0.29 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3497 | 1/1 | 0.09 | - | 34,34,34,34 | 0 |
| 32 | MG | V | 201 | 1/1 | 0.54 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3104 | 1/1 | 0.50 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3088 | 1/1 | 0.71 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3248 | 1/1 | 0.09 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3669 | 1/1 | 0.22 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3531 | 1/1 | 0.77 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3144 | 1/1 | 0.15 | - | 70,70,70,70 | 0 |
| 32 | MG | A | 3311 | 1/1 | 0.12 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3567 | 1/1 | 0.26 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3362 | 1/1 | 0.18 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3709 | 1/1 | 0.19 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3422 | 1/1 | 0.06 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3190 | 1/1 | 0.27 | - | 52,52,52,52 | 0 |
| 32 | MG | D | 301 | 1/1 | 0.26 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3043 | 1/1 | 0.25 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3648 | 1/1 | 0.12 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3299 | 1/1 | 0.07 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3100 | 1/1 | 0.16 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3079 | 1/1 | 0.12 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3230 | 1/1 | 0.22 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3024 | 1/1 | 0.47 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3475 | 1/1 | 0.38 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3442 | 1/1 | 0.19 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3606 | 1/1 | 0.09 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3263 | 1/1 | 0.06 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3132 | 1/1 | 0.16 | - | 64,64,64,64 | 0 |
| 32 | MG | A | 3232 | 1/1 | 0.14 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3038 | 1/1 | 0.28 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3354 | 1/1 | 0.15 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3445 | 1/1 | 0.07 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3388 | 1/1 | 0.11 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3632 | 1/1 | 1.26 | - | 81,81,81,81 | 0 |
| 32 | MG | A | 3522 | 1/1 | 0.62 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3227 | 1/1 | 0.14 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3369 | 1/1 | 0.10 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3469 | 1/1 | 0.20 | - | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3026 | 1/1 | 0.21 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3186 | 1/1 | 0.12 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3017 | 1/1 | 0.15 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3155 | 1/1 | 0.17 | - | 20,20,20,20 | 0 |
| 32 | MG | A | 3661 | 1/1 | 0.30 | - | 78,78,78,78 | 0 |
| 32 | MG | V | 204 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3613 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3655 | 1/1 | 0.08 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3473 | 1/1 | 0.39 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3518 | 1/1 | 0.10 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3163 | 1/1 | 0.23 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3374 | 1/1 | 0.13 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3389 | 1/1 | 0.07 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3061 | 1/1 | 0.46 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3723 | 1/1 | 0.30 | - | 94,94,94,94 | 0 |
| 32 | MG | A | 3122 | 1/1 | 0.20 | - | 63,63,63,63 | 0 |
| 32 | MG | 3 | 101 | 1/1 | 0.16 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3594 | 1/1 | 0.24 | - | 63,63,63,63 | 0 |
| 32 | MG | F | 301 | 1/1 | 0.36 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3298 | 1/1 | 0.12 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3628 | 1/1 | 0.09 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3106 | 1/1 | 0.43 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3394 | 1/1 | 0.09 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3344 | 1/1 | 0.18 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3402 | 1/1 | 0.07 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3242 | 1/1 | 0.14 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3479 | 1/1 | 0.17 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3670 | 1/1 | 0.19 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3534 | 1/1 | 0.19 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3281 | 1/1 | 0.10 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3254 | 1/1 | 0.13 | - | 20,20,20,20 | 0 |
| 32 | MG | A | 3703 | 1/1 | 0.13 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3128 | 1/1 | 0.11 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3200 | 1/1 | 0.27 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3459 | 1/1 | 0.16 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3699 | 1/1 | 0.49 | - | 70,70,70,70 | 0 |
| 32 | MG | A | 3222 | 1/1 | 0.17 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3175 | 1/1 | 0.15 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3524 | 1/1 | 0.28 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3266 | 1/1 | 0.33 | - | 66,66,66,66 | 0 |
| 32 | MG | Q | 205 | 1/1 | 0.10 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3423 | 1/1 | 0.16 | - | 23,23,23,23 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3506 | 1/1 | 0.12 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3349 | 1/1 | 0.16 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3492 | 1/1 | 0.08 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3662 | 1/1 | 0.10 | - | 22,22,22,22 | 0 |
| 32 | MG | 0 | 103 | 1/1 | 0.14 | - | 71,71,71,71 | 0 |
| 32 | MG | A | 3080 | 1/1 | 0.15 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3036 | 1/1 | 0.21 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3685 | 1/1 | 0.05 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3691 | 1/1 | 0.11 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3610 | 1/1 | 0.53 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3076 | 1/1 | 0.17 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3198 | 1/1 | 0.16 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3481 | 1/1 | 0.08 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3336 | 1/1 | 0.09 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3221 | 1/1 | 0.15 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3599 | 1/1 | 0.41 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3114 | 1/1 | 0.10 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3627 | 1/1 | 0.26 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3467 | 1/1 | 0.22 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3470 | 1/1 | 0.11 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3321 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3051 | 1/1 | 0.14 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3204 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3582 | 1/1 | 0.09 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3276 | 1/1 | 0.16 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3643 | 1/1 | 0.10 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3202 | 1/1 | 0.17 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3124 | 1/1 | 0.12 | - | 79,79,79,79 | 0 |
| 32 | MG | A | 3501 | 1/1 | 0.06 | - | 33,33,33,33 | 0 |
| 32 | MG | D | 306 | 1/1 | 0.32 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3535 | 1/1 | 0.10 | - | 64,64,64,64 | 0 |
| 32 | MG | A | 3580 | 1/1 | 0.30 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3516 | 1/1 | 0.12 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3410 | 1/1 | 0.15 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3614 | 1/1 | 0.16 | - | 75,75,75,75 | 0 |
| 32 | MG | A | 3164 | 1/1 | 0.11 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3659 | 1/1 | 0.14 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3541 | 1/1 | 0.10 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3646 | 1/1 | 0.31 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3579 | 1/1 | 0.22 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3174 | 1/1 | 0.39 | - | 42,42,42,42 | 0 |
| 32 | MG | P | 202 | 1/1 | 0.48 | - | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3107 | 1/1 | 0.62 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3718 | 1/1 | 0.16 | - | 70,70,70,70 | 0 |
| 32 | MG | A | 3233 | 1/1 | 0.30 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3033 | 1/1 | 0.78 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3708 | 1/1 | 0.17 | - | 35,35,35,35 | 0 |
| 32 | MG | B | 210 | 1/1 | 0.16 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3338 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3203 | 1/1 | 0.11 | - | 19,19,19,19 | 0 |
| 32 | MG | A | 3260 | 1/1 | 0.17 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3279 | 1/1 | 0.12 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3034 | 1/1 | 0.29 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3192 | 1/1 | 0.21 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3129 | 1/1 | 0.10 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3333 | 1/1 | 0.10 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3029 | 1/1 | 0.26 | - | 23,23,23,23 | 0 |
| 32 | MG | B | 216 | 1/1 | 0.48 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3008 | 1/1 | 0.89 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3714 | 1/1 | 0.20 | - | 83,83,83,83 | 0 |
| 32 | MG | E | 306 | 1/1 | 0.10 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3552 | 1/1 | 0.15 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3111 | 1/1 | 0.45 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3532 | 1/1 | 0.34 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3188 | 1/1 | 0.19 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3105 | 1/1 | 0.77 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3399 | 1/1 | 0.08 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3220 | 1/1 | 0.10 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3588 | 1/1 | 0.16 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3716 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3249 | 1/1 | 0.15 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3651 | 1/1 | 0.19 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3616 | 1/1 | 0.15 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3240 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3180 | 1/1 | 0.12 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3529 | 1/1 | 0.35 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3514 | 1/1 | 0.09 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3302 | 1/1 | 0.23 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3142 | 1/1 | 0.19 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3456 | 1/1 | 0.09 | - | 62,62,62,62 | 0 |
| 32 | MG | A | 3428 | 1/1 | 0.23 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3601 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 32 | MG | 1 | 101 | 1/1 | 0.23 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3658 | 1/1 | 0.11 | - | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3228 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3573 | 1/1 | 0.16 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3073 | 1/1 | 0.57 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3682 | 1/1 | 0.14 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3101 | 1/1 | 0.23 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3093 | 1/1 | 0.33 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3695 | 1/1 | 0.09 | - | 41,41,41,41 | 0 |
| 32 | MG | R | 205 | 1/1 | 0.13 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3145 | 1/1 | 0.19 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3641 | 1/1 | 0.10 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3694 | 1/1 | 0.14 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3310 | 1/1 | 0.30 | - | 63,63,63,63 | 0 |
| 32 | MG | N | 202 | 1/1 | 0.07 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3707 | 1/1 | 0.52 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3586 | 1/1 | 0.59 | - | 104,104,104,104 | 0 |
| 32 | MG | A | 3121 | 1/1 | 0.10 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3571 | 1/1 | 0.17 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3139 | 1/1 | 0.07 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3698 | 1/1 | 0.13 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3493 | 1/1 | 0.16 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3312 | 1/1 | 0.53 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3578 | 1/1 | 0.21 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3012 | 1/1 | 0.28 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3385 | 1/1 | 0.24 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3319 | 1/1 | 0.06 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3157 | 1/1 | 0.23 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3380 | 1/1 | 0.15 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3166 | 1/1 | 0.24 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3471 | 1/1 | 0.17 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3715 | 1/1 | 0.12 | - | 64,64,64,64 | 0 |
| 32 | MG | U | 203 | 1/1 | 0.18 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3086 | 1/1 | 0.35 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3523 | 1/1 | 0.15 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3418 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3550 | 1/1 | 0.11 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3303 | 1/1 | 0.36 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3345 | 1/1 | 0.14 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3649 | 1/1 | 0.17 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3536 | 1/1 | 0.09 | - | 21,21,21,21 | 0 |
| 32 | MG | A | 3108 | 1/1 | 0.11 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3004 | 1/1 | 0.21 | - | 27,27,27,27 | 0 |
| 32 | MG | A | 3342 | 1/1 | 0.22 | - | 44,44,44,44 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3199 | 1/1 | 0.80 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3461 | 1/1 | 0.27 | - | 78,78,78,78 | 0 |
| 32 | MG | A | 3359 | 1/1 | 0.06 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3631 | 1/1 | 0.46 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3269 | 1/1 | 0.10 | - | 48,48,48,48 | 0 |
| 32 | MG | W | 201 | 1/1 | 0.22 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3356 | 1/1 | 0.14 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3116 | 1/1 | 0.09 | - | 46,46,46,46 | 0 |
| 32 | MG | A | 3090 | 1/1 | 0.14 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3127 | 1/1 | 0.32 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3556 | 1/1 | 0.29 | - | 46,46,46,46 | 0 |
| 32 | MG | 8 | 101 | 1/1 | 0.21 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3521 | 1/1 | 0.15 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3346 | 1/1 | 0.26 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3460 | 1/1 | 0.14 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3096 | 1/1 | 0.13 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3684 | 1/1 | 0.13 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3085 | 1/1 | 0.15 | - | 34,34,34,34 | 0 |
| 32 | MG | V | 202 | 1/1 | 0.33 | - | 83,83,83,83 | 0 |
| 32 | MG | A | 3334 | 1/1 | 0.09 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3438 | 1/1 | 0.15 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3284 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 32 | MG | 0 | 102 | 1/1 | 0.18 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3683 | 1/1 | 0.15 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3217 | 1/1 | 0.08 | - | 24,24,24,24 | 0 |
| 32 | MG | B | 211 | 1/1 | 0.25 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3070 | 1/1 | 0.48 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3234 | 1/1 | 0.53 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3592 | 1/1 | 0.16 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3421 | 1/1 | 0.07 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3486 | 1/1 | 0.57 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3211 | 1/1 | 0.12 | - | 60,60,60,60 | 0 |
| 32 | MG | E | 302 | 1/1 | 0.14 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3275 | 1/1 | 0.69 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3159 | 1/1 | 0.21 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3621 | 1/1 | 0.19 | - | 68,68,68,68 | 0 |
| 32 | MG | A | 3674 | 1/1 | 0.38 | - | 80,80,80,80 | 0 |
| 32 | MG | A | 3441 | 1/1 | 0.20 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3040 | 1/1 | 0.18 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3205 | 1/1 | 0.27 | - | 49,49,49,49 | 0 |
| 32 | MG | 7 | 101 | 1/1 | 0.25 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3498 | 1/1 | 0.09 | - | 23,23,23,23 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3570 | 1/1 | 0.70 | - | 59,59,59,59 | 0 |
| 32 | MG | F | 306 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3483 | 1/1 | 0.14 | - | 20,20,20,20 | 0 |
| 32 | MG | A | 3125 | 1/1 | 0.09 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3596 | 1/1 | 0.19 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3327 | 1/1 | 0.08 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3562 | 1/1 | 0.70 | - | 66,66,66,66 | 0 |
| 32 | MG | A | 3165 | 1/1 | 0.23 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3530 | 1/1 | 0.10 | - | 58,58,58,58 | 0 |
| 32 | MG | A | 3176 | 1/1 | 0.11 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3019 | 1/1 | 0.15 | - | 34,34,34,34 | 0 |
| 32 | MG | B | 208 | 1/1 | 0.11 | - | 33,33,33,33 | 0 |
| 32 | MG | A | 3617 | 1/1 | 0.39 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3416 | 1/1 | 0.22 | - | 34,34,34,34 | 0 |
| 32 | MG | A | 3379 | 1/1 | 0.12 | - | 29,29,29,29 | 0 |
| 32 | MG | A | 3608 | 1/1 | 0.09 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3340 | 1/1 | 0.31 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3491 | 1/1 | 0.44 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3287 | 1/1 | 0.35 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3136 | 1/1 | 0.26 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3537 | 1/1 | 0.10 | - | 33,33,33,33 | 0 |
| 32 | MG | H | 201 | 1/1 | 0.17 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3304 | 1/1 | 0.50 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3636 | 1/1 | 0.40 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3528 | 1/1 | 0.18 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3583 | 1/1 | 0.43 | - | 55,55,55,55 | 0 |
| 32 | MG | A | 3057 | 1/1 | 0.18 | - | 31,31,31,31 | 0 |
| 32 | MG | 2 | 102 | 1/1 | 0.47 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3314 | 1/1 | 0.08 | - | 26,26,26,26 | 0 |
| 32 | MG | A | 3693 | 1/1 | 0.10 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3424 | 1/1 | 0.26 | - | 59,59,59,59 | 0 |
| 32 | MG | A | 3555 | 1/1 | 0.25 | - | 93,93,93,93 | 0 |
| 32 | MG | A | 3463 | 1/1 | 0.20 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3400 | 1/1 | 0.06 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3419 | 1/1 | 0.11 | - | 25,25,25,25 | 0 |
| 32 | MG | A | 3117 | 1/1 | 0.27 | - | 48,48,48,48 | 0 |
| 32 | MG | A | 3083 | 1/1 | 0.28 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3231 | 1/1 | 0.07 | - | 41,41,41,41 | 0 |
| 32 | MG | A | 3598 | 1/1 | 0.11 | - | 39,39,39,39 | 0 |
| 33 | ZN | 5 | 101 | 1/1 | 0.04 | - | 42,42,42,42 | 0 |
| 32 | MG | A | 3654 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 32 | MG | A | 3109 | 1/1 | 0.13 | - | 35,35,35,35 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3371 | 1/1 | 0.15 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3081 | 1/1 | 0.25 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3365 | 1/1 | 0.17 | - | 23,23,23,23 | 0 |
| 32 | MG | A | 3510 | 1/1 | 0.08 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3440 | 1/1 | 0.84 | - | 60,60,60,60 | 0 |
| 32 | MG | A | 3173 | 1/1 | 0.38 | - | 31,31,31,31 | 0 |
| 32 | MG | A | 3160 | 1/1 | 0.84 | - | 53,53,53,53 | 0 |
| 32 | MG | A | 3427 | 1/1 | 0.08 | - | 68,68,68,68 | 0 |
| 32 | MG | A | 3213 | 1/1 | 0.18 | - | 67,67,67,67 | 0 |
| 32 | MG | A | 3020 | 1/1 | 0.31 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3353 | 1/1 | 0.24 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3091 | 1/1 | 0.20 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3322 | 1/1 | 0.13 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3147 | 1/1 | 0.07 | - | 36,36,36,36 | 0 |
| 32 | MG | A | 3182 | 1/1 | 0.18 | - | 47,47,47,47 | 0 |
| 32 | MG | A | 3575 | 1/1 | 0.24 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3625 | 1/1 | 0.07 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3667 | 1/1 | 0.18 | - | 69,69,69,69 | 0 |
| 32 | MG | A | 3639 | 1/1 | 0.12 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3119 | 1/1 | 0.20 | - | 39,39,39,39 | 0 |
| 32 | MG | A | 3622 | 1/1 | 0.82 | - | 40,40,40,40 | 0 |
| 32 | MG | A | 3381 | 1/1 | 0.20 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3120 | 1/1 | 0.05 | - | 30,30,30,30 | 0 |
| 32 | MG | A | 3702 | 1/1 | 0.14 | - | 49,49,49,49 | 0 |
| 32 | MG | A | 3448 | 1/1 | 0.12 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3262 | 1/1 | 0.15 | - | 56,56,56,56 | 0 |
| 32 | MG | B | 203 | 1/1 | 0.47 | - | 48,48,48,48 | 0 |
| 32 | MG | E | 305 | 1/1 | 0.21 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3195 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3095 | 1/1 | 0.34 | - | 37,37,37,37 | 0 |
| 32 | MG | A | 3665 | 1/1 | 0.21 | - | 65,65,65,65 | 0 |
| 32 | MG | A | 3511 | 1/1 | 0.13 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3325 | 1/1 | 0.52 | - | 45,45,45,45 | 0 |
| 32 | MG | A | 3600 | 1/1 | 0.87 | - | 89,89,89,89 | 0 |
| 32 | MG | A | 3023 | 1/1 | 0.23 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3476 | 1/1 | 0.09 | - | 22,22,22,22 | 0 |
| 32 | MG | A | 3543 | 1/1 | 0.10 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3458 | 1/1 | 0.18 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3341 | 1/1 | 0.36 | - | 43,43,43,43 | 0 |
| 32 | MG | A | 3439 | 1/1 | 0.16 | - | 50,50,50,50 | 0 |
| 32 | MG | A | 3630 | 1/1 | 0.34 | - | 72,72,72,72 | 0 |
| 32 | MG | A | 3357 | 1/1 | 0.07 | - | 30,30,30,30 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 32 | MG | A | 3077 | 1/1 | 0.11 | - | 32,32,32,32 | 0 |
| 32 | MG | A | 3386 | 1/1 | 0.10 | - | 24,24,24,24 | 0 |
| 32 | MG | A | 3449 | 1/1 | 0.10 | - | 55,55,55,55 | 0 |
| 32 | MG | 3 | 102 | 1/1 | 0.29 | - | 38,38,38,38 | 0 |
| 32 | MG | A | 3519 | 1/1 | 0.05 | - | 35,35,35,35 | 0 |
| 32 | MG | A | 3405 | 1/1 | 0.19 | - | 56,56,56,56 | 0 |
| 32 | MG | A | 3010 | 1/1 | 0.17 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3343 | 1/1 | 0.13 | - | 44,44,44,44 | 0 |
| 32 | MG | A | 3426 | 1/1 | 0.13 | - | 28,28,28,28 | 0 |
| 32 | MG | A | 3700 | 1/1 | 0.27 | - | 57,57,57,57 | 0 |
| 32 | MG | A | 3264 | 1/1 | 0.16 | - | 51,51,51,51 | 0 |
| 32 | MG | A | 3247 | 1/1 | 0.12 | - | 52,52,52,52 | 0 |
| 32 | MG | A | 3167 | 1/1 | 0.22 | - | 63,63,63,63 | 0 |
| 32 | MG | A | 3044 | 1/1 | 0.21 | - | 54,54,54,54 | 0 |
| 32 | MG | A | 3719 | 1/1 | 0.26 | - | 54,54,54,54 | 0 |

6.5 Other polymers

There are no such residues in this entry.