



wwPDB X-ray Structure Validation Summary Report ⓘ

May 25, 2020 – 10:54 pm BST

PDB ID : 5E81
Title : Structure of T. thermophilus 70S ribosome complex with mRNA and tRNA^{Lys} in the A-site with wobble pair
Authors : Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on : 2015-10-13
Resolution : 2.95 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

| | | |
|--------------------------------|---|--|
| MolProbity | : | 4.02b-467 |
| Mogul | : | 1.8.5 (274361), CSD as541be (2020) |
| Xtriage (Phenix) | : | 1.13 |
| EDS | : | 2.11 |
| Percentile statistics | : | 20191225.v01 (using entries in the PDB archive December 25th 2019) |
| Refmac | : | 5.8.0158 |
| CCP4 | : | 7.0.044 (Gargrove) |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | 2.11 |

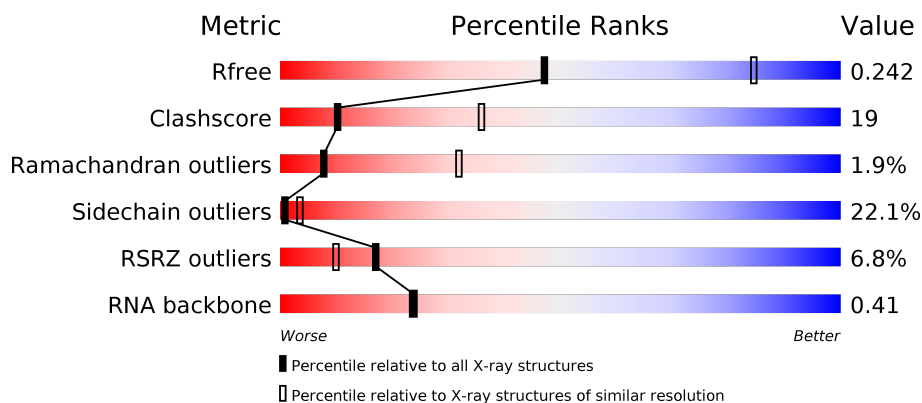
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.95 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} | 130704 | 3104 (3.00-2.92) |
| Clashscore | 141614 | 3462 (3.00-2.92) |
| Ramachandran outliers | 138981 | 3340 (3.00-2.92) |
| Sidechain outliers | 138945 | 3343 (3.00-2.92) |
| RSRZ outliers | 127900 | 2986 (3.00-2.92) |
| RNA backbone | 3102 | 1065 (3.22-2.70) |

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 respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 1 | 13 | 1519 | <div> <div>24%</div> <div>45%</div> <div>24%</div> <div>5%</div> </div> |
| 1 | 1G | 1519 | <div> <div>32%</div> <div>44%</div> <div>18%</div> </div> |
| 2 | 12 | 256 | <div> <div>8%</div> <div>34%</div> <div>38%</div> <div>7%</div> <div>19%</div> </div> |
| 2 | 1E | 256 | <div> <div>5%</div> <div>38%</div> <div>39%</div> <div>13%</div> <div>10%</div> </div> |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 3 | 22 | 239 | |
| 3 | 2E | 239 | |
| 4 | 32 | 209 | |
| 4 | 3E | 209 | |
| 5 | 42 | 162 | |
| 5 | 4E | 162 | |
| 6 | 52 | 101 | |
| 6 | 5E | 101 | |
| 7 | 62 | 156 | |
| 7 | 6E | 156 | |
| 8 | 72 | 138 | |
| 8 | 7E | 138 | |
| 9 | 82 | 128 | |
| 9 | 8E | 128 | |
| 10 | 1A | 105 | |
| 10 | 1I | 105 | |
| 11 | 2A | 129 | |
| 11 | 2I | 129 | |
| 12 | 3A | 132 | |
| 12 | 3I | 132 | |
| 13 | 4A | 126 | |
| 13 | 4I | 126 | |
| 14 | 5A | 61 | |
| 14 | 5I | 61 | |
| 15 | 6A | 89 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 15 | 6I | 89 | |
| 16 | 7A | 88 | |
| 16 | 7I | 88 | |
| 17 | 8A | 105 | |
| 17 | 8I | 105 | |
| 18 | 9A | 88 | |
| 18 | 9I | 88 | |
| 19 | AA | 93 | |
| 19 | AI | 93 | |
| 20 | BA | 106 | |
| 20 | BI | 106 | |
| 21 | 1B | 27 | |
| 21 | 1F | 27 | |
| 22 | 1K | 76 | |
| 22 | 1L | 76 | |
| 23 | 2K | 77 | |
| 23 | 2L | 77 | |
| 24 | 3K | 76 | |
| 24 | 3L | 76 | |
| 25 | 4K | 27 | |
| 25 | 4L | 27 | |
| 26 | 14 | 2917 | |
| 26 | 1H | 2917 | |
| 27 | 16 | 122 | |
| 27 | 1J | 122 | |

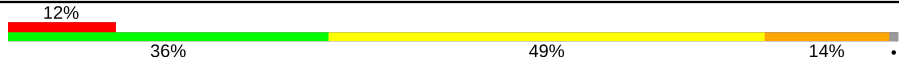
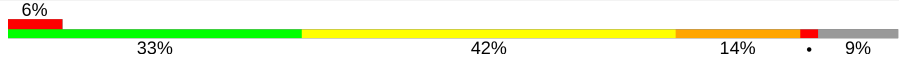
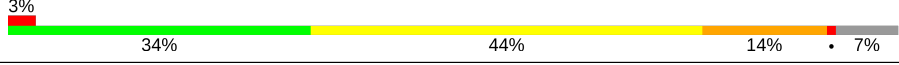
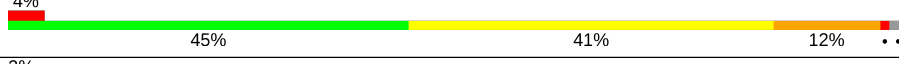

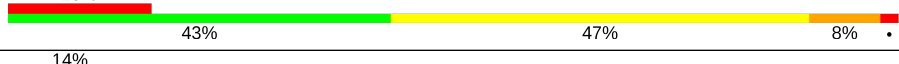
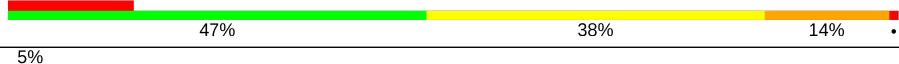

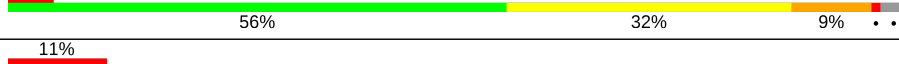
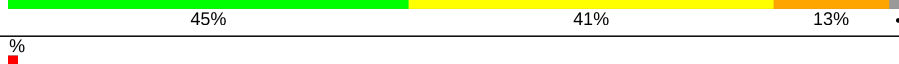

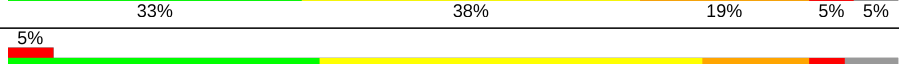
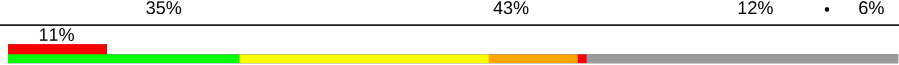
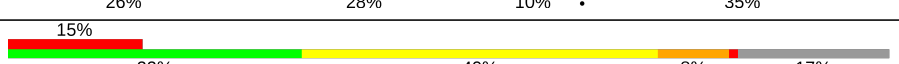
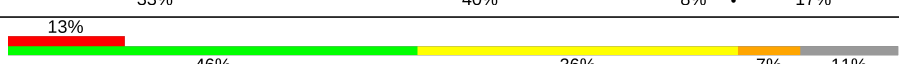



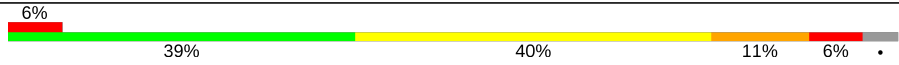
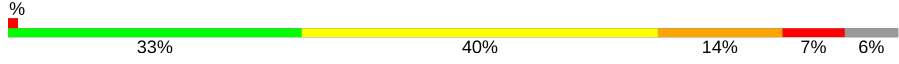

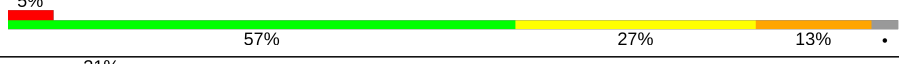



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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 28 | 71 | 229 | |
| 28 | 79 | 229 | |
| 29 | 11 | 276 | |
| 29 | 19 | 276 | |
| 30 | 21 | 206 | |
| 30 | 29 | 206 | |
| 31 | 31 | 210 | |
| 31 | 39 | 210 | |
| 32 | 41 | 182 | |
| 32 | 49 | 182 | |
| 33 | 51 | 180 | |
| 33 | 59 | 180 | |
| 34 | 61 | 148 | |
| 34 | 69 | 148 | |
| 35 | 15 | 140 | |
| 35 | 58 | 140 | |
| 36 | 25 | 122 | |
| 36 | 68 | 122 | |
| 37 | 35 | 150 | |
| 37 | 78 | 150 | |
| 38 | 45 | 141 | |
| 38 | 88 | 141 | |
| 39 | 55 | 118 | |
| 39 | 98 | 118 | |
| 40 | 65 | 112 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 40 | A8 | 112 |  |
| 41 | 75 | 146 |  |
| 41 | B8 | 146 |  |
| 42 | 85 | 118 |  |
| 42 | C8 | 118 |  |
| 43 | 95 | 101 |  |
| 43 | D8 | 101 |  |
| 44 | A5 | 113 |  |
| 44 | E8 | 113 |  |
| 45 | B5 | 96 |  |
| 45 | F8 | 96 |  |
| 46 | C5 | 110 |  |
| 46 | G8 | 110 |  |
| 47 | D5 | 206 |  |
| 47 | H8 | 206 |  |
| 48 | E5 | 85 |  |
| 48 | I8 | 85 |  |
| 49 | F5 | 98 |  |
| 49 | J8 | 98 |  |
| 50 | G5 | 72 |  |
| 50 | K8 | 72 |  |
| 51 | H5 | 60 |  |
| 51 | L8 | 60 |  |
| 52 | M8 | 71 |  |
| 53 | J5 | 60 |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 53 | N8 | 60 | |
| 54 | L5 | 49 | |
| 54 | P8 | 49 | |
| 55 | M5 | 65 | |
| 55 | Q8 | 65 | |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | 13 | 1616 | - | - | - | X |
| 56 | MG | 13 | 1643 | - | - | - | X |
| 56 | MG | 13 | 1661 | - | - | - | X |
| 56 | MG | 14 | 3028 | - | - | - | X |
| 56 | MG | 14 | 3131 | - | - | - | X |
| 56 | MG | 14 | 3141 | - | - | - | X |
| 56 | MG | 14 | 3149 | - | - | - | X |
| 56 | MG | 14 | 3151 | - | - | - | X |
| 56 | MG | 14 | 3161 | - | - | - | X |
| 56 | MG | 14 | 3169 | - | - | - | X |
| 56 | MG | 14 | 3181 | - | - | - | X |
| 56 | MG | 14 | 3189 | - | - | - | X |
| 56 | MG | 14 | 3194 | - | - | - | X |
| 56 | MG | 14 | 3200 | - | - | - | X |
| 56 | MG | 14 | 3209 | - | - | - | X |
| 56 | MG | 14 | 3216 | - | - | - | X |
| 56 | MG | 14 | 3234 | - | - | - | X |
| 56 | MG | 14 | 3238 | - | - | - | X |
| 56 | MG | 1G | 1617 | - | - | - | X |
| 56 | MG | 1G | 1632 | - | - | - | X |
| 56 | MG | 1G | 1637 | - | - | - | X |
| 56 | MG | 1G | 1641 | - | - | - | X |
| 56 | MG | 1G | 1656 | - | - | - | X |
| 56 | MG | 1G | 1661 | - | - | - | X |
| 56 | MG | 1G | 1668 | - | - | - | X |
| 56 | MG | 1H | 3015 | - | - | - | X |
| 56 | MG | 1H | 3047 | - | - | - | X |
| 56 | MG | 1H | 3076 | - | - | - | X |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | 1H | 3081 | - | - | - | X |
| 56 | MG | 1H | 3096 | - | - | - | X |
| 56 | MG | 1H | 3136 | - | - | - | X |
| 56 | MG | 1H | 3168 | - | - | - | X |
| 56 | MG | 1H | 3194 | - | - | - | X |
| 56 | MG | 1H | 3201 | - | - | - | X |
| 56 | MG | 1H | 3214 | - | - | - | X |
| 56 | MG | 1H | 3220 | - | - | - | X |
| 56 | MG | 1H | 3230 | - | - | - | X |
| 56 | MG | 1H | 3234 | - | - | - | X |
| 56 | MG | 1H | 3267 | - | - | - | X |
| 56 | MG | 1H | 3270 | - | - | - | X |
| 56 | MG | 2I | 302 | - | - | - | X |
| 56 | MG | 4K | 101 | - | - | - | X |
| 56 | MG | P8 | 101 | - | - | - | X |
| 57 | SF4 | 32 | 302 | - | - | X | - |

2 Entry composition

There are 59 unique types of molecules in this entry. The entry contains 297904 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|------|-------|------|---------|---------|-------|
| 1 | 13 | 1496 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 32157 | 14313 | 5960 | 10388 | 1496 | | | |
| 1 | 1G | 1506 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 32371 | 14409 | 6001 | 10456 | 1505 | | | |

- Molecule 2 is a protein called 30S ribosomal protein S2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 2 | 1E | 231 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1874 | 1199 | 334 | 336 | 5 | | | |
| 2 | 12 | 207 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1696 | 1083 | 306 | 303 | 4 | | | |

- Molecule 3 is a protein called 30S ribosomal protein S3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 3 | 2E | 205 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1605 | 1011 | 313 | 280 | 1 | | | |
| 3 | 22 | 195 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1537 | 973 | 297 | 266 | 1 | | | |

- Molecule 4 is a protein called 30S ribosomal protein S4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 4 | 3E | 207 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1698 | 1064 | 338 | 289 | 7 | | | |
| 4 | 32 | 208 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1702 | 1066 | 339 | 290 | 7 | | | |

- Molecule 5 is a protein called 30S ribosomal protein S5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 5 | 4E | 149 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1142 | 722 | 216 | 200 | 4 | | | |
| 5 | 42 | 149 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1139 | 721 | 216 | 198 | 4 | | | |

- Molecule 6 is a protein called 30S ribosomal protein S6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | 5E | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 837 | 528 | 154 | 152 | 3 | | | |
| 6 | 52 | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 842 | 531 | 155 | 153 | 3 | | | |

- Molecule 7 is a protein called 30S ribosomal protein S7.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7 | 6E | 154 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1242 | 770 | 250 | 216 | 6 | | | |
| 7 | 62 | 140 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1120 | 695 | 223 | 196 | 6 | | | |

- Molecule 8 is a protein called 30S ribosomal protein S8.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8 | 7E | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1115 | 705 | 215 | 192 | 3 | | | |
| 8 | 72 | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1107 | 700 | 214 | 191 | 2 | | | |

- Molecule 9 is a protein called 30S ribosomal protein S9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|--|---------|---------|-------|
| 9 | 8E | 126 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 1000 | 634 | 196 | 170 | | | | |
| 9 | 82 | 121 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 953 | 605 | 186 | 162 | | | | |

- Molecule 10 is a protein called 30S ribosomal protein S10.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | 1I | 95 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 754 | 471 | 148 | 134 | 1 | | | |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 10 | 1A | 80 | Total | C | N | O | 0 | 0 | 0 |
| | | | 646 | 403 | 129 | 114 | | | |

- Molecule 11 is a protein called 30S ribosomal protein S11.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 11 | 2I | 111 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 823 | 512 | 154 | 154 | 3 | | | |
| 11 | 2A | 113 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 835 | 520 | 156 | 156 | 3 | | | |

- Molecule 12 is a protein called 30S ribosomal protein S12.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12 | 3I | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 956 | 603 | 193 | 159 | 1 | | | |
| 12 | 3A | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 956 | 603 | 193 | 159 | 1 | | | |

- Molecule 13 is a protein called 30S ribosomal protein S13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 13 | 4I | 119 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 942 | 582 | 194 | 164 | 2 | | | |
| 13 | 4A | 111 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 893 | 552 | 183 | 156 | 2 | | | |

- Molecule 14 is a protein called 30S ribosomal protein S14 type Z.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 14 | 5I | 60 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 491 | 312 | 104 | 71 | 4 | | | |
| 14 | 5A | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 486 | 309 | 103 | 70 | 4 | | | |

- Molecule 15 is a protein called 30S ribosomal protein S15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 15 | 6I | 87 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 729 | 457 | 146 | 124 | 2 | | | |
| 15 | 6A | 87 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 729 | 457 | 146 | 124 | 2 | | | |

- Molecule 16 is a protein called 30S ribosomal protein S16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 16 | 7I | 83 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 700 | 443 | 139 | 117 | 1 | | | |
| 16 | 7A | 84 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 705 | 446 | 140 | 118 | 1 | | | |

- Molecule 17 is a protein called 30S ribosomal protein S17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 17 | 8I | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 834 | 534 | 155 | 143 | 2 | | | |
| 17 | 8A | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 823 | 528 | 151 | 142 | 2 | | | |

- Molecule 18 is a protein called 30S ribosomal protein S18.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 18 | 9I | 68 | Total | C | N | O | 0 | 0 | 0 |
| | | | 549 | 352 | 105 | 92 | | | |
| 18 | 9A | 67 | Total | C | N | O | 0 | 0 | 0 |
| | | | 544 | 349 | 104 | 91 | | | |

- Molecule 19 is a protein called 30S ribosomal protein S19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 19 | AI | 82 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 661 | 422 | 123 | 114 | 2 | | | |
| 19 | AA | 62 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 481 | 306 | 85 | 88 | 2 | | | |

- Molecule 20 is a protein called 30S ribosomal protein S20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 20 | BI | 97 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 746 | 461 | 157 | 126 | 2 | | | |
| 20 | BA | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 762 | 470 | 162 | 128 | 2 | | | |

- Molecule 21 is a protein called 30S ribosomal protein Thx.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 21 | 1F | 23 | Total | C | N | O | 0 | 0 | 0 |
| | | | 199 | 122 | 48 | 29 | | | |
| 21 | 1B | 22 | Total | C | N | O | 0 | 0 | 0 |
| | | | 188 | 116 | 44 | 28 | | | |

- Molecule 22 is a RNA chain called tRNA-Lys.

| Mol | Chain | Residues | Atoms | | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| 22 | 1K | 72 | Total | C | N | O | P | S | 0 | 0 | 0 |
| | | | 1542 | 691 | 269 | 509 | 72 | 1 | | | |
| 22 | 1L | 69 | Total | C | N | O | P | S | 0 | 0 | 0 |
| | | | 1477 | 662 | 257 | 488 | 69 | 1 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| 23 | 2K | 77 | Total | C | N | O | P | S | 0 | 0 | 0 |
| | | | 1646 | 735 | 298 | 535 | 77 | 1 | | | |
| 23 | 2L | 77 | Total | C | N | O | P | S | 0 | 0 | 0 |
| | | | 1646 | 735 | 298 | 535 | 77 | 1 | | | |

- Molecule 24 is a RNA chain called tRNA-Lys.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 24 | 3K | 70 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1483 | 664 | 260 | 490 | 69 | | | |
| 24 | 3L | 72 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1528 | 684 | 270 | 503 | 71 | | | |

- Molecule 25 is a RNA chain called mRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|-----|----|---------|---------|-------|
| 25 | 4K | 21 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 464 | 208 | 99 | 136 | 21 | | | |
| 25 | 4L | 19 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 419 | 188 | 89 | 123 | 19 | | | |

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 26 | 1H | 2885 | Total | C | N | O | P | 0 | 3 | 0 |
| | | | 62204 | 27685 | 11631 | 20000 | 2888 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 26 | 14 | 2855 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 61505 | 27372 | 11512 | 19766 | 2855 | | | |

There are 14 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|-------------|
| 1H | 161 | U | UNK | conflict | GB 55771382 |
| 1H | 654A | A | G | conflict | GB 55771382 |
| 1H | 654E | C | G | conflict | GB 55771382 |
| 1H | 654P | G | C | conflict | GB 55771382 |
| 1H | 654T | A | C | conflict | GB 55771382 |
| 1H | 1058 | U | G | conflict | GB 55771382 |
| 1H | 1080 | A | C | conflict | GB 55771382 |
| 14 | 158 | U | UNK | conflict | GB 55771382 |
| 14 | 654A | A | G | conflict | GB 55771382 |
| 14 | 654E | C | G | conflict | GB 55771382 |
| 14 | 654P | G | C | conflict | GB 55771382 |
| 14 | 654T | A | C | conflict | GB 55771382 |
| 14 | 1058 | U | G | conflict | GB 55771382 |
| 14 | 1080 | A | C | conflict | GB 55771382 |

- Molecule 27 is a RNA chain called 5S ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
| 27 | 16 | 122 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 2617 | 1166 | 486 | 844 | 121 | | | |
| 27 | 1J | 122 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 2617 | 1166 | 486 | 844 | 121 | | | |

- Molecule 28 is a protein called 50S ribosomal protein L1.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 28 | 71 | 133 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1033 | 651 | 194 | 187 | 1 | | | |
| 28 | 79 | 57 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 456 | 283 | 91 | 82 | | | | |

- Molecule 29 is a protein called 50S ribosomal protein L2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 29 | 11 | 273 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2120 | 1338 | 421 | 358 | 3 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 29 | 19 | 274 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2125 | 1341 | 422 | 359 | 3 | | | |

- Molecule 30 is a protein called 50S ribosomal protein L3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 30 | 21 | 203 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1558 | 985 | 298 | 269 | 6 | | | |
| 30 | 29 | 204 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1563 | 988 | 299 | 270 | 6 | | | |

- Molecule 31 is a protein called 50S ribosomal protein L4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 31 | 31 | 202 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1585 | 1011 | 297 | 275 | 2 | | | |
| 31 | 39 | 204 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1602 | 1022 | 299 | 279 | 2 | | | |

- Molecule 32 is a protein called 50S ribosomal protein L5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 32 | 41 | 179 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1457 | 931 | 265 | 257 | 4 | | | |
| 32 | 49 | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1468 | 937 | 268 | 259 | 4 | | | |

- Molecule 33 is a protein called 50S ribosomal protein L6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 33 | 51 | 174 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1328 | 842 | 249 | 236 | 1 | | | |
| 33 | 59 | 70 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 543 | 341 | 110 | 92 | | | | |

- Molecule 34 is a protein called 50S ribosomal protein L9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 34 | 61 | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1136 | 726 | 201 | 208 | 1 | | | |
| 34 | 69 | 145 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1131 | 723 | 200 | 207 | 1 | | | |

- Molecule 35 is a protein called 50S ribosomal protein L13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 35 | 58 | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1096 | 706 | 205 | 181 | 4 | | | |
| 35 | 15 | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1104 | 712 | 206 | 182 | 4 | | | |

- Molecule 36 is a protein called 50S ribosomal protein L14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36 | 68 | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 588 | 171 | 169 | 4 | | | |
| 36 | 25 | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 588 | 171 | 169 | 4 | | | |

- Molecule 37 is a protein called 50S ribosomal protein L15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37 | 78 | 147 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1122 | 698 | 229 | 192 | 3 | | | |
| 37 | 35 | 147 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1122 | 698 | 229 | 192 | 3 | | | |

- Molecule 38 is a protein called 50S ribosomal protein L16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 38 | 88 | 141 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1117 | 712 | 211 | 187 | 7 | | | |
| 38 | 45 | 139 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1104 | 705 | 209 | 184 | 6 | | | |

- Molecule 39 is a protein called 50S ribosomal protein L17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 39 | 98 | 118 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 967 | 604 | 203 | 159 | 1 | | | |
| 39 | 55 | 118 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 967 | 604 | 203 | 159 | 1 | | | |

- Molecule 40 is a protein called 50S ribosomal protein L18.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 40 | A8 | 111 | Total | C | N | O | 0 | 0 | 0 |
| | | | 881 | 556 | 176 | 149 | | | |
| 40 | 65 | 110 | Total | C | N | O | 0 | 0 | 0 |
| | | | 876 | 553 | 175 | 148 | | | |

- Molecule 41 is a protein called 50S ribosomal protein L19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 41 | B8 | 136 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1124 | 700 | 231 | 192 | 1 | | | |
| 41 | 75 | 133 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1109 | 691 | 228 | 189 | 1 | | | |

- Molecule 42 is a protein called 50S ribosomal protein L20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 42 | C8 | 115 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 950 | 603 | 199 | 147 | 1 | | | |
| 42 | 85 | 116 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 959 | 608 | 201 | 149 | 1 | | | |

- Molecule 43 is a protein called 50S ribosomal protein L21.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 43 | D8 | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 774 | 499 | 141 | 133 | 1 | | | |
| 43 | 95 | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 770 | 496 | 140 | 133 | 1 | | | |

- Molecule 44 is a protein called 50S ribosomal protein L22.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 44 | E8 | 110 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 876 | 552 | 171 | 151 | 2 | | | |
| 44 | A5 | 111 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 886 | 558 | 174 | 152 | 2 | | | |

- Molecule 45 is a protein called 50S ribosomal protein L23.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 45 | F8 | 95 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 743 | 482 | 134 | 126 | 1 | | | |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 45 | B5 | 94 | Total | C | N | O | 0 | 0 | 0 |
| | | | 735 | 477 | 133 | 125 | | | |

- Molecule 46 is a protein called 50S ribosomal protein L24.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 46 | G8 | 103 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 783 | 504 | 148 | 126 | 5 | | | |
| 46 | C5 | 104 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 794 | 510 | 152 | 127 | 5 | | | |

- Molecule 47 is a protein called 50S ribosomal protein L25.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 47 | H8 | 170 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1365 | 870 | 246 | 246 | 3 | | | |
| 47 | D5 | 133 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1079 | 694 | 194 | 189 | 2 | | | |

- Molecule 48 is a protein called 50S ribosomal protein L27.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 48 | I8 | 77 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 611 | 378 | 129 | 103 | 1 | | | |
| 48 | E5 | 76 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 603 | 372 | 128 | 102 | 1 | | | |

- Molecule 49 is a protein called 50S ribosomal protein L28.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 49 | J8 | 94 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 737 | 463 | 146 | 127 | 1 | | | |
| 49 | F5 | 94 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 737 | 463 | 146 | 127 | 1 | | | |

- Molecule 50 is a protein called 50S ribosomal protein L29.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 50 | K8 | 68 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 575 | 358 | 116 | 100 | 1 | | | |
| 50 | G5 | 69 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 576 | 358 | 116 | 101 | 1 | | | |

- Molecule 51 is a protein called 50S ribosomal protein L30.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 51 | L8 | 58 | Total | C | N | O | 0 | 0 | 0 |
| | | | 459 | 293 | 89 | 77 | | | |
| 51 | H5 | 58 | Total | C | N | O | 0 | 0 | 0 |
| | | | 459 | 293 | 89 | 77 | | | |

- Molecule 52 is a protein called 50S ribosomal protein L31.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 52 | M8 | 49 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 376 | 240 | 63 | 68 | 5 | | | |

- Molecule 53 is a protein called 50S ribosomal protein L32.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 53 | N8 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 369 | 229 | 75 | 60 | 5 | | | |
| 53 | J5 | 56 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 434 | 272 | 87 | 70 | 5 | | | |

- Molecule 54 is a protein called 50S ribosomal protein L34.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 54 | P8 | 47 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 401 | 246 | 99 | 54 | 2 | | | |
| 54 | L5 | 47 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 401 | 246 | 99 | 54 | 2 | | | |

- Molecule 55 is a protein called 50S ribosomal protein L35.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 55 | Q8 | 64 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 516 | 331 | 102 | 81 | 2 | | | |
| 55 | M5 | 64 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 516 | 331 | 102 | 81 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 56 | 98 | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56 | 45 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | P8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 32 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 13 | 161 | Total 161 | Mg 161 | 0 | 0 |
| 56 | 1J | 11 | Total 11 | Mg 11 | 0 | 0 |
| 56 | 5I | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 35 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | 16 | 13 | Total 13 | Mg 13 | 0 | 0 |
| 56 | 42 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | B5 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 25 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | M5 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 21 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | 2K | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | Q8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | L8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | I8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 52 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 2A | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 5E | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 29 | 1 | Total 1 | Mg 1 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56 | 78 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | 39 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | 1G | 126 | Total 126 | Mg 126 | 0 | 0 |
| 56 | 11 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | 1H | 572 | Total 572 | Mg 572 | 0 | 0 |
| 56 | E5 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | 88 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | 14 | 471 | Total 471 | Mg 471 | 0 | 0 |
| 56 | F8 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 4K | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 1K | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | 41 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | 2L | 3 | Total 3 | Mg 3 | 0 | 0 |

- Molecule 57 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 57 | 3E | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 57 | 32 | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |

- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 58 | C5 | 1 | Total | Zn | 0 | 0 |
| | | | 1 | 1 | | |
| 58 | 5A | 1 | Total | Zn | 0 | 0 |
| | | | 1 | 1 | | |
| 58 | G8 | 1 | Total | Zn | 0 | 0 |
| | | | 1 | 1 | | |
| 58 | 5I | 1 | Total | Zn | 0 | 0 |
| | | | 1 | 1 | | |

- Molecule 59 is water.

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|-----|---------|---------|
| 59 | 13 | 389 | Total | O | 0 | 0 |
| | | | 389 | 389 | | |
| 59 | 1E | 1 | Total | O | 0 | 0 |
| | | | 1 | 1 | | |
| 59 | 3E | 2 | Total | O | 0 | 0 |
| | | | 2 | 2 | | |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|---------------|-----------|---------|---------|
| 59 | 4E | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 8E | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | 1I | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 3I | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 4I | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 5I | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 6I | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | 7I | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 1F | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 1K | 8 | Total 8 | O 8 | 0 | 0 |
| 59 | 2K | 6 | Total 6 | O 6 | 0 | 0 |
| 59 | 3K | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 4K | 5 | Total 5 | O 5 | 0 | 0 |
| 59 | 1H | 1539 | Total 1539 | O 1539 | 0 | 0 |
| 59 | 16 | 35 | Total 35 | O 35 | 0 | 0 |
| 59 | 11 | 16 | Total 16 | O 16 | 0 | 0 |
| 59 | 21 | 7 | Total 7 | O 7 | 0 | 0 |
| 59 | 31 | 6 | Total 6 | O 6 | 0 | 0 |
| 59 | 41 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 58 | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 68 | 2 | Total 2 | O 2 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|
| 59 | 78 | 8 | Total 8 | O 8 | 0 | 0 |
| 59 | 88 | 8 | Total 8 | O 8 | 0 | 0 |
| 59 | C8 | 4 | Total 4 | O 4 | 0 | 0 |
| 59 | D8 | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | F8 | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | G8 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | I8 | 7 | Total 7 | O 7 | 0 | 0 |
| 59 | J8 | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | K8 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | L8 | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | P8 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | Q8 | 8 | Total 8 | O 8 | 0 | 0 |
| 59 | 1G | 297 | Total 297 | O 297 | 0 | 0 |
| 59 | 32 | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | 42 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 52 | 4 | Total 4 | O 4 | 0 | 0 |
| 59 | 62 | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | 2A | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | 3A | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 6A | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 7A | 6 | Total 6 | O 6 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|---------------|-----------|---------|---------|
| 59 | 9A | 2 | Total 2 | O 2 | 0 | 0 |
| 59 | BA | 5 | Total 5 | O 5 | 0 | 0 |
| 59 | 1L | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 2L | 6 | Total 6 | O 6 | 0 | 0 |
| 59 | 4L | 5 | Total 5 | O 5 | 0 | 0 |
| 59 | 14 | 1225 | Total 1225 | O 1225 | 0 | 0 |
| 59 | 1J | 12 | Total 12 | O 12 | 0 | 0 |
| 59 | 19 | 11 | Total 11 | O 11 | 0 | 0 |
| 59 | 29 | 5 | Total 5 | O 5 | 0 | 0 |
| 59 | 39 | 7 | Total 7 | O 7 | 0 | 0 |
| 59 | 25 | 6 | Total 6 | O 6 | 0 | 0 |
| 59 | 35 | 8 | Total 8 | O 8 | 0 | 0 |
| 59 | 45 | 4 | Total 4 | O 4 | 0 | 0 |
| 59 | 55 | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | 85 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | 95 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | A5 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | B5 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | C5 | 3 | Total 3 | O 3 | 0 | 0 |
| 59 | F5 | 1 | Total 1 | O 1 | 0 | 0 |
| 59 | H5 | 2 | Total 2 | O 2 | 0 | 0 |

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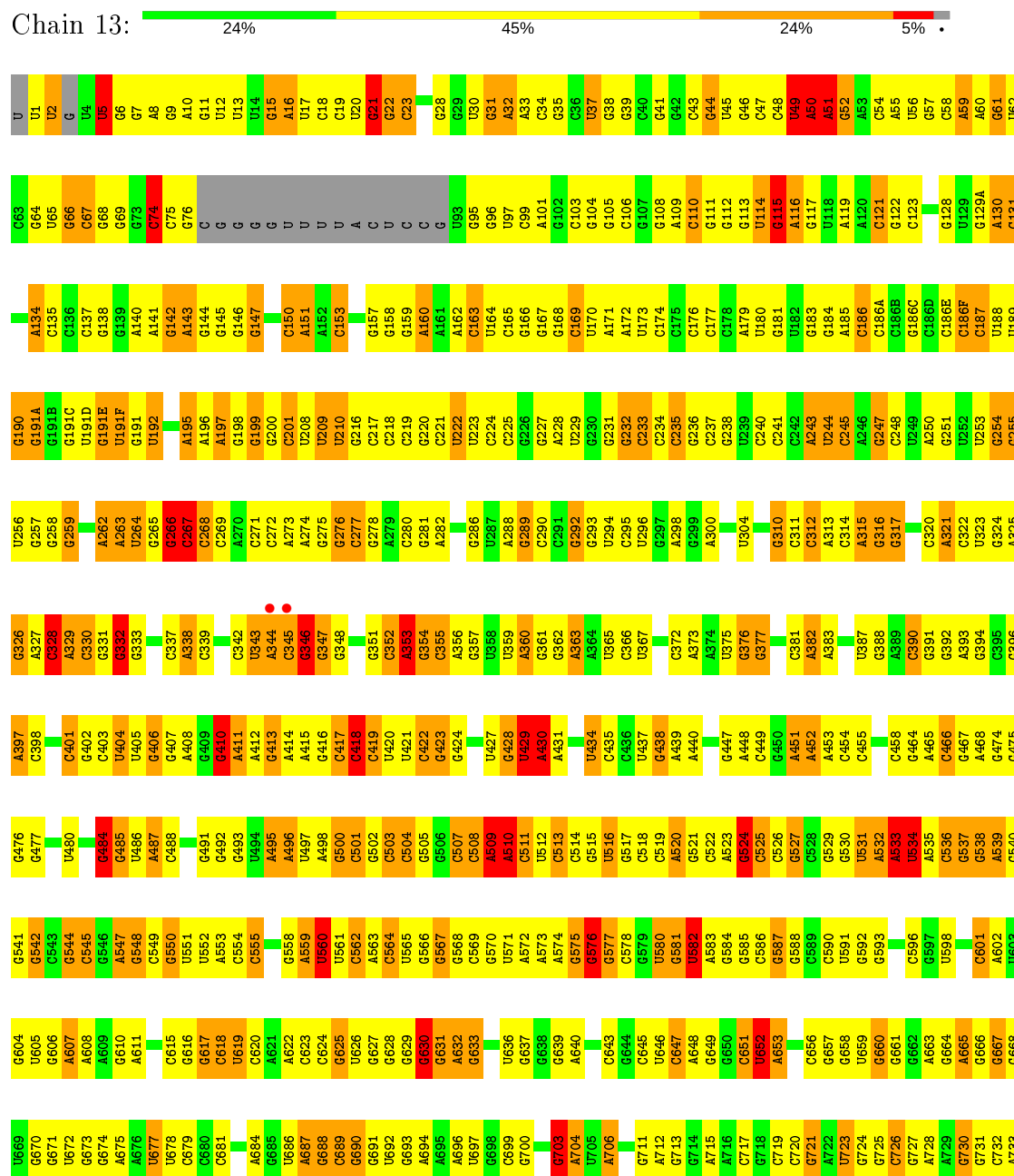
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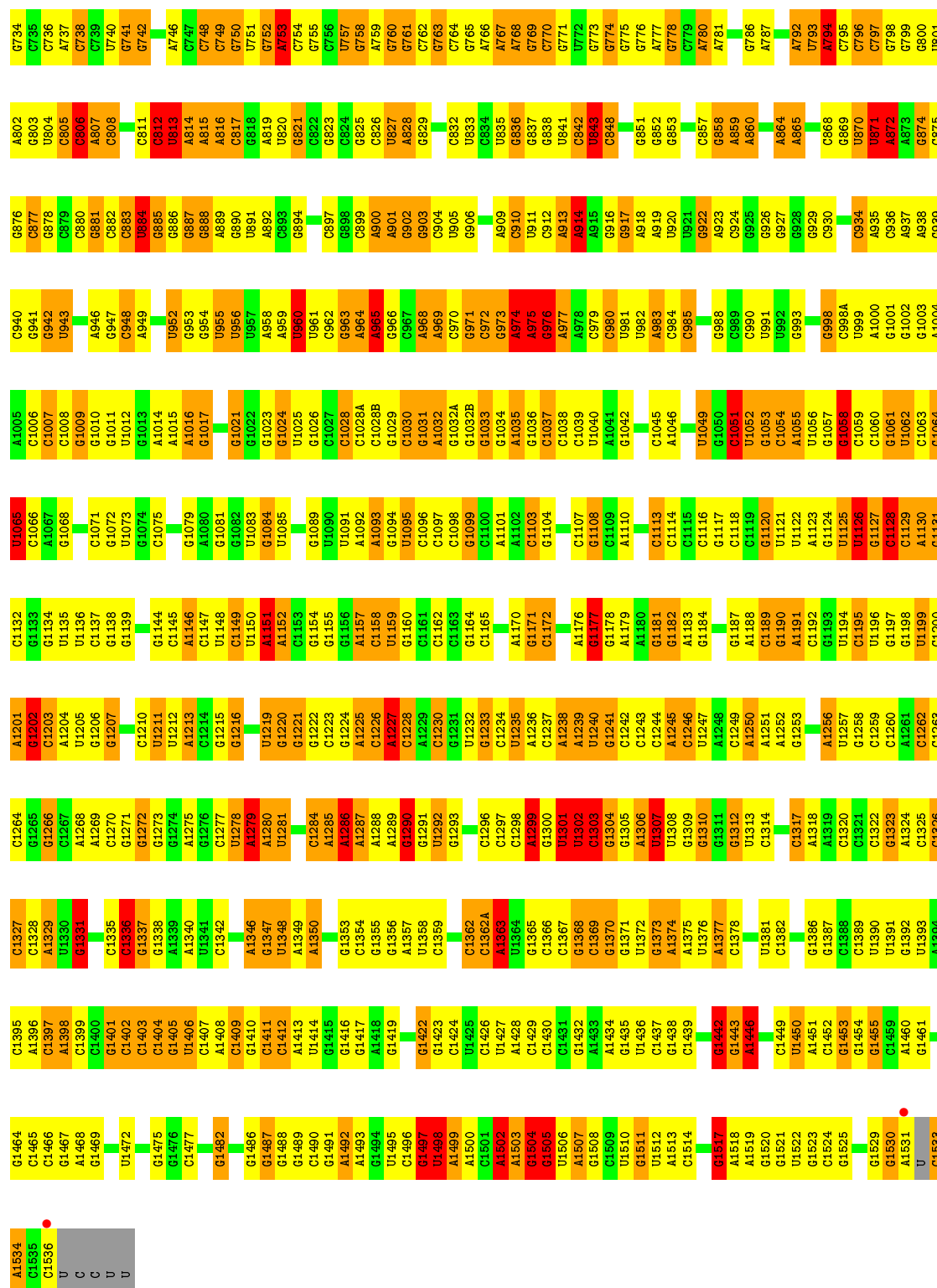
| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---------|---------|
| 59 | L5 | 3 | Total | O | 0 | 0 |
| | | | 3 | 3 | | |
| 59 | M5 | 6 | Total | O | 0 | 0 |
| | | | 6 | 6 | | |

3 Residue-property plots

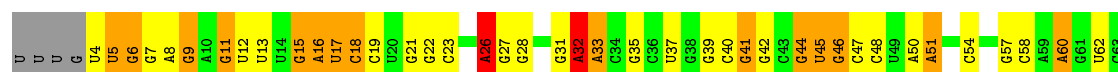
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 16S ribosomal RNA

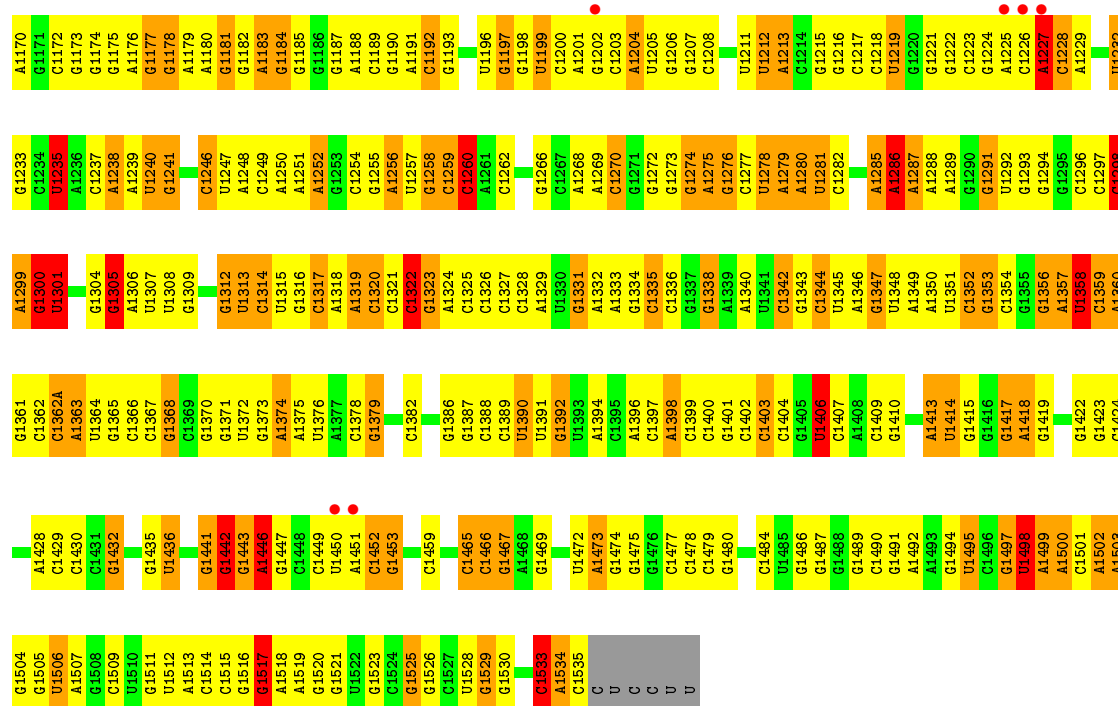




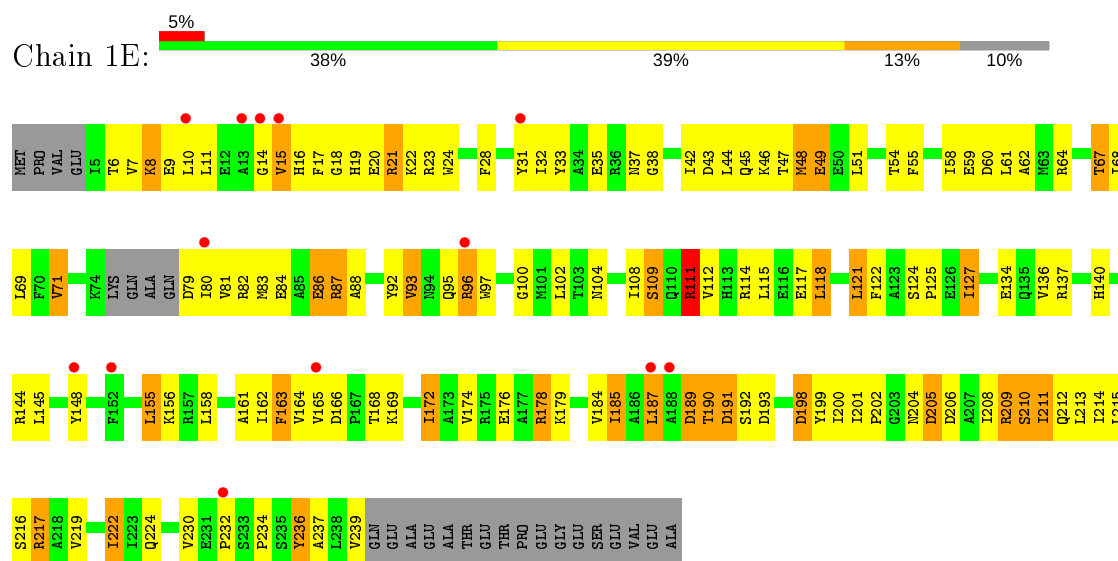
• Molecule 1: 16S ribosomal RNA



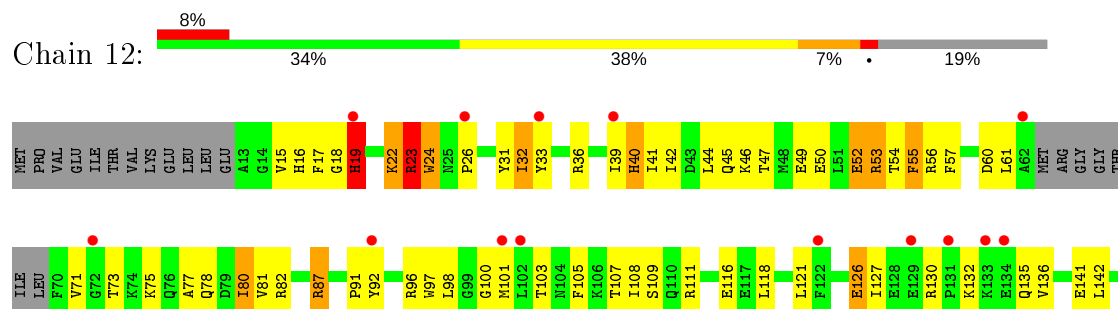
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| G1106 | G1107 | G1108 | G1109 | G1110 | G1111 | G1112 | G1113 | G1114 | G1115 | G1118 | G1119 | U | U | U | A87 | C88 | U89 | C90 | C91 | G96 | A101 | G102 | C103 | G104 | G105 | G108 | A109 | C110 | G111 | G112 | G113 | U114 | G115 | A116 | G117 | A120 | C121 | G127 | G128 | U129 | G129A | A130 | C131 | C132 | U133 | A134 | C135 | G142 | A143 | G144 | G145 | G146 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G1031 | A1032 | G1032A | G1032B | G1033 | C1037 | G1038 | G1039 | G1040 | A1041 | A1046 | G1047 | G1048 | G1051 | U1052 | G1053 | C1054 | U1055 | U1056 | G1057 | G1058 | C1059 | G1060 | G1061 | U1062 | G1063 | G1064 | U1065 | G1066 | A1067 | G1068 | G1072 | U1073 | C1076 | G1077 | A1080 | G1081 | G1084 | U1085 | U1086 | G1087 | G1088 | U1089 | A1092 | U1093 | G1094 | U1095 | C1096 | A1101 | A1102 | A1105 | A1106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C970 | G971 | C972 | G973 | A974 | A975 | G976 | A977 | A978 | C979 | C980 | U981 | U982 | A983 | C984 | C985 | A986 | C990 | U991 | U992 | G993 | A994 | C995 | A996 | G997 | C998 | U999 | A999 | C1000 | G1001 | G1002 | G1003 | A1004 | A1005 | G1006 | C1007 | G1008 | G1009 | G1010 | A1014 | A1015 | A1016 | G1017 | G1018 | G1019 | U1020 | G1021 | G1022 | G1023 | U1024 | G1025 | G1026 | C1027 | G1028 | C1028A | G1028B | G1029 | C1030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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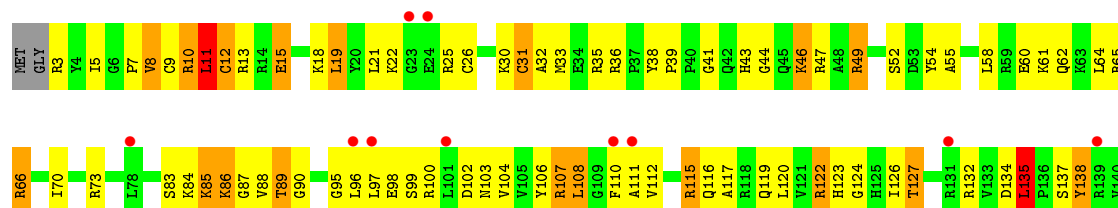


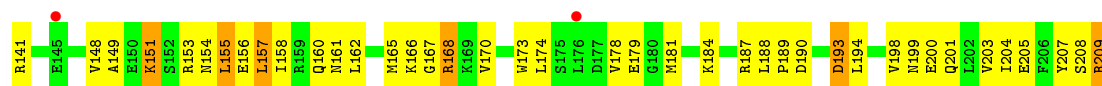
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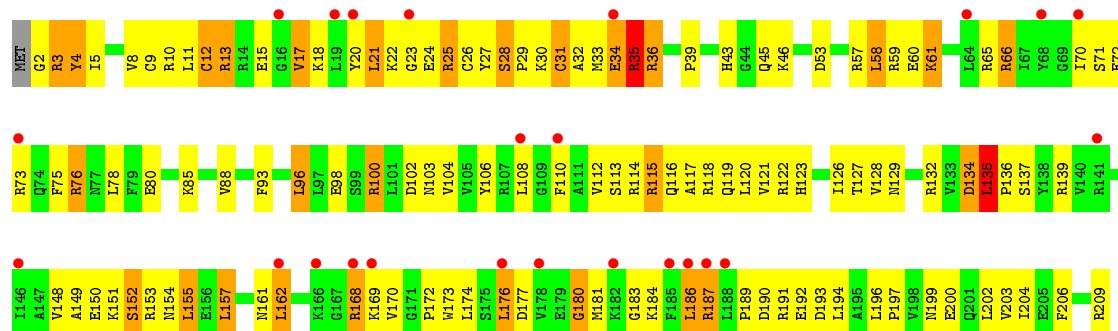
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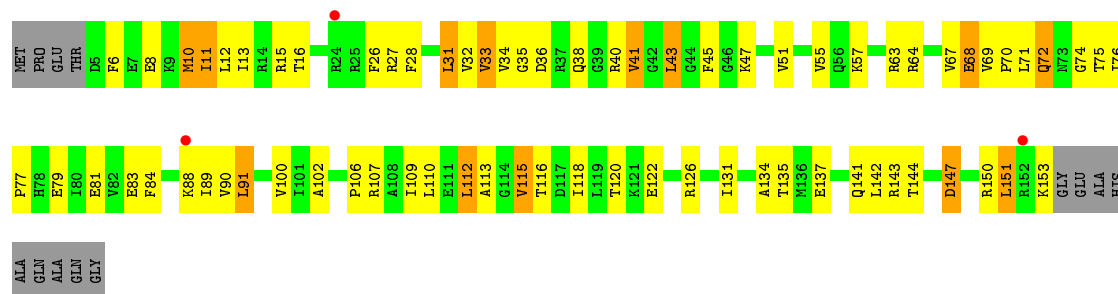




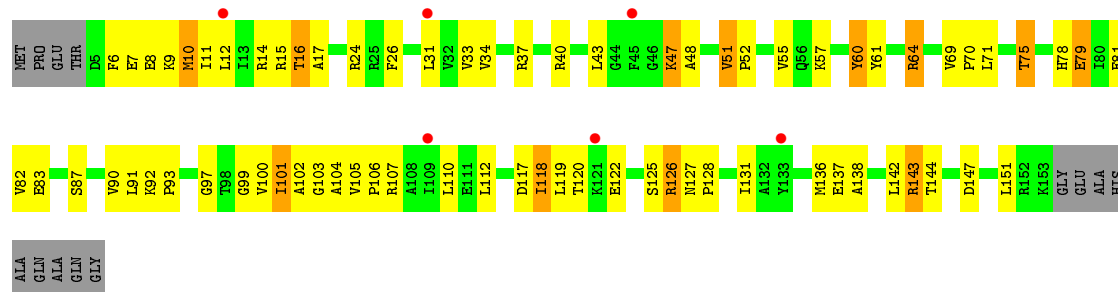
• Molecule 4: 30S ribosomal protein S4



• Molecule 5: 30S ribosomal protein S5

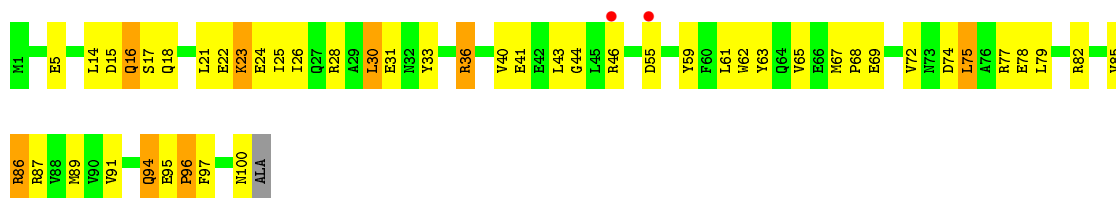


• Molecule 5: 30S ribosomal protein S5



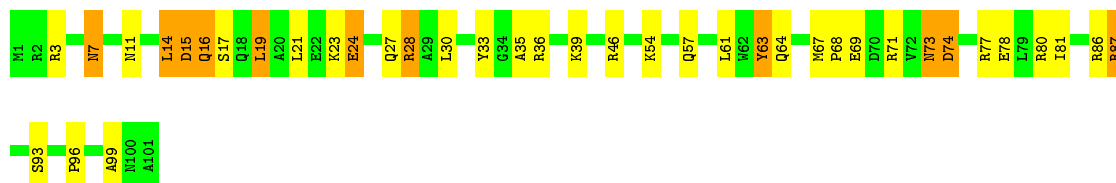
• Molecule 6: 30S ribosomal protein S6





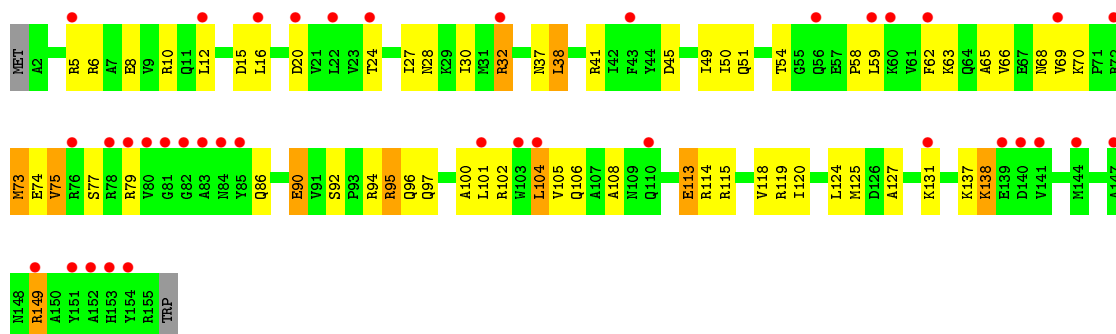
• Molecule 6: 30S ribosomal protein S6

Chain 52: 61% 28% 11%



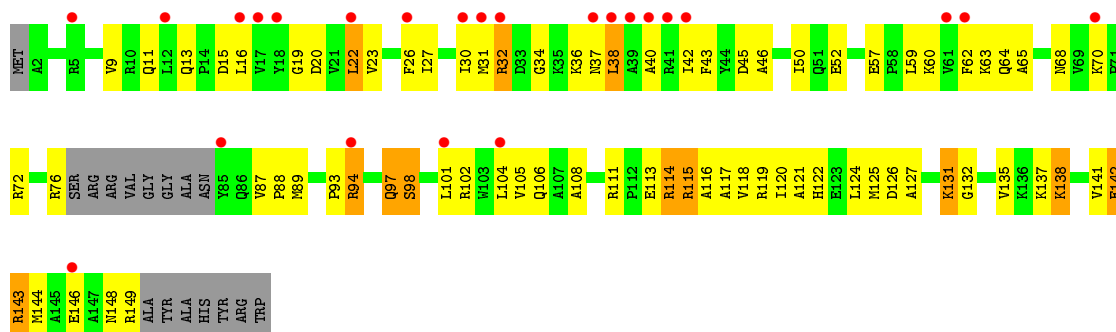
• Molecule 7: 30S ribosomal protein S7

Chain 6E: 24% 59% 33% 6%



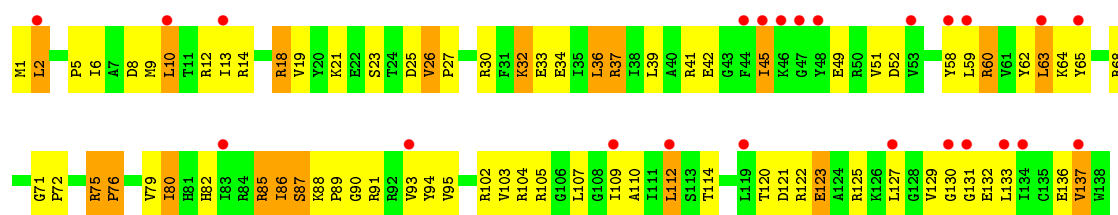
• Molecule 7: 30S ribosomal protein S7

Chain 62: 15% 41% 41% 8% 10%

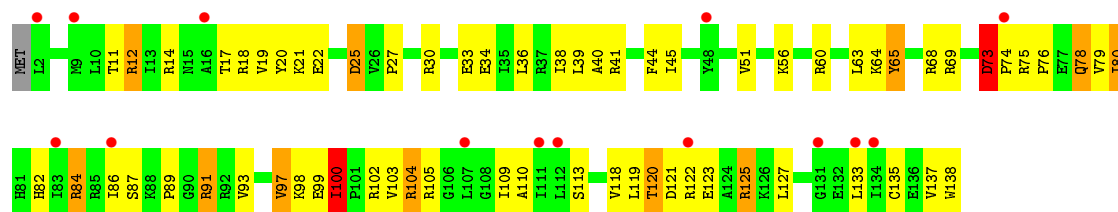


• Molecule 8: 30S ribosomal protein S8

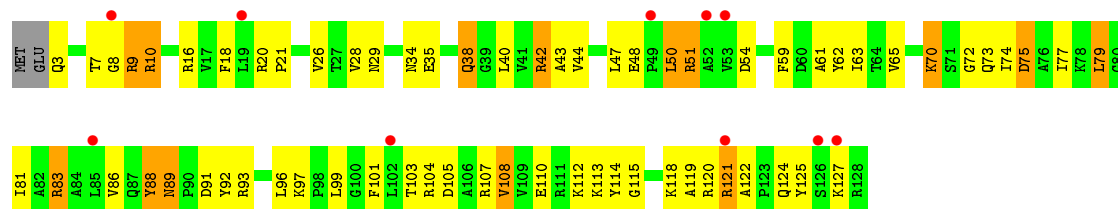
Chain 7E: 17% 44% 42% 14%



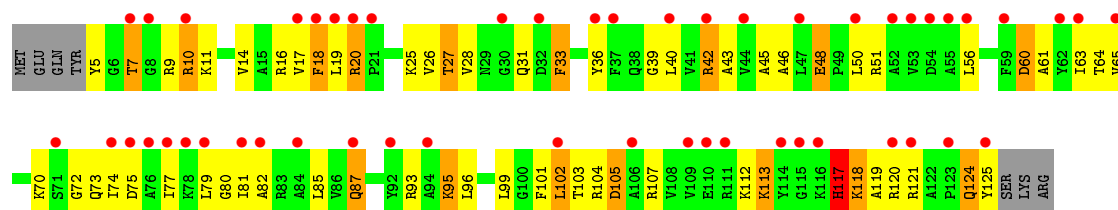
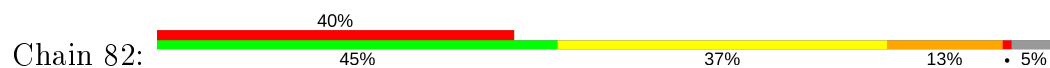
• Molecule 8: 30S ribosomal protein S8



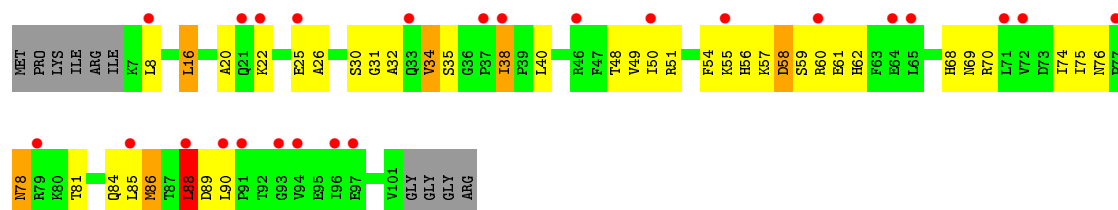
• Molecule 9: 30S ribosomal protein S9



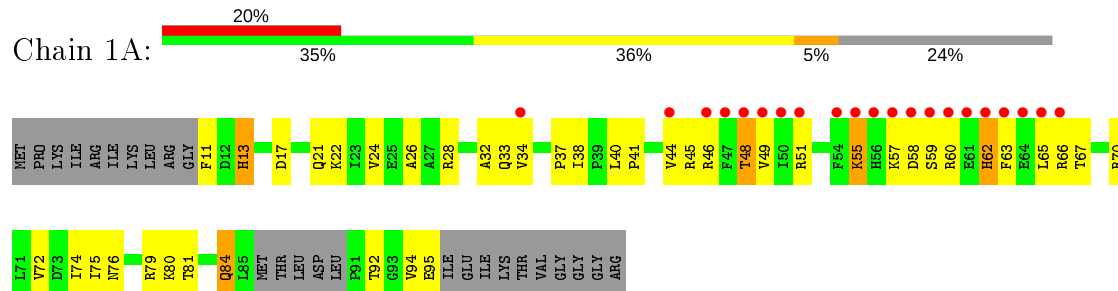
• Molecule 9: 30S ribosomal protein S9



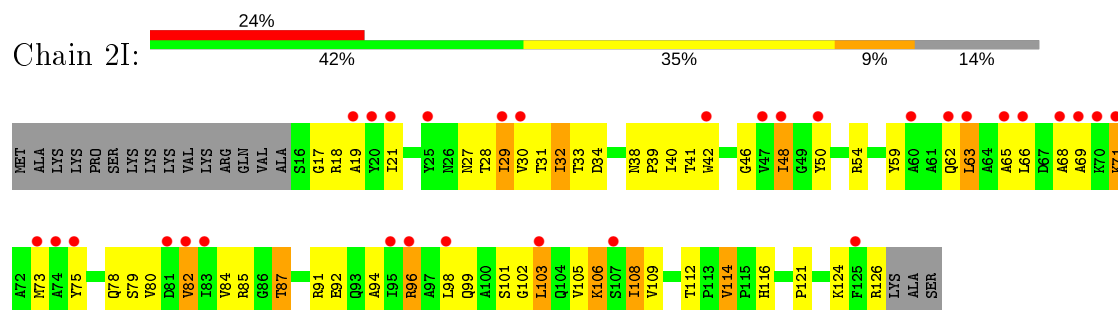
• Molecule 10: 30S ribosomal protein S10



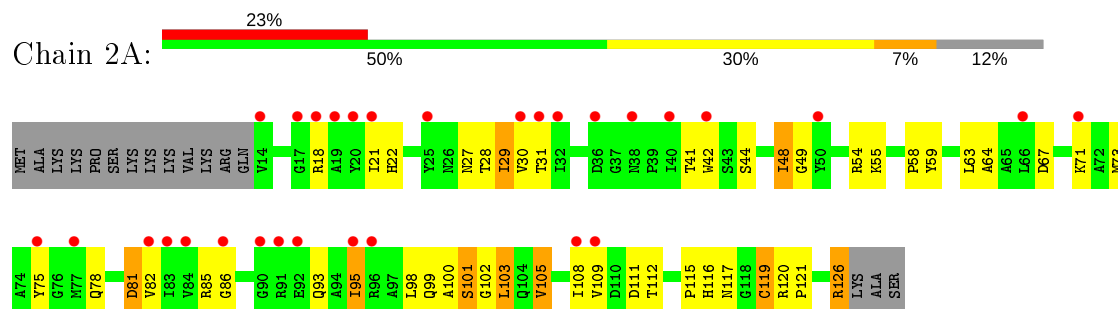
- Molecule 10: 30S ribosomal protein S10



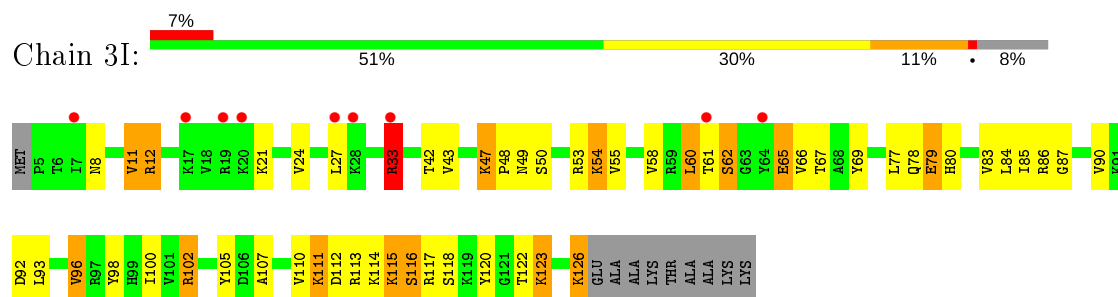
- Molecule 11: 30S ribosomal protein S11



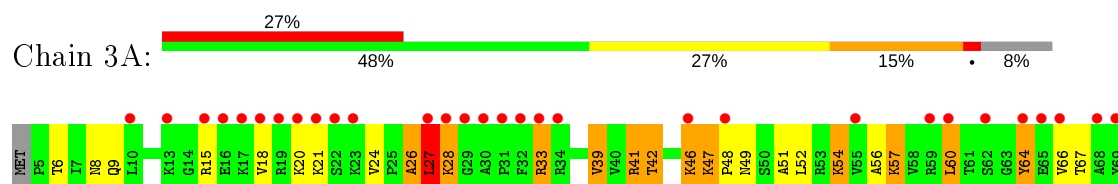
- Molecule 11: 30S ribosomal protein S11



- Molecule 12: 30S ribosomal protein S12

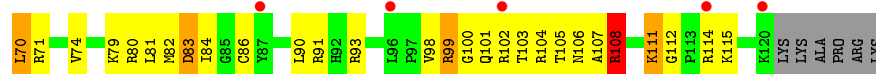
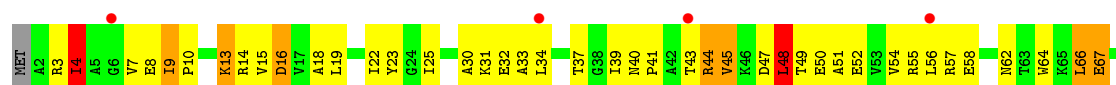


- Molecule 12: 30S ribosomal protein S12

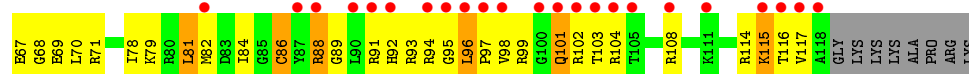




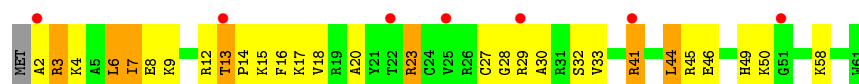
- Molecule 13: 30S ribosomal protein S13



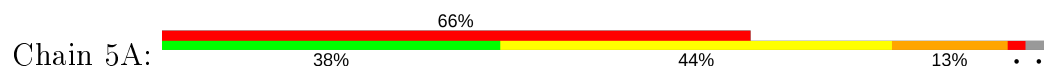
- Molecule 13: 30S ribosomal protein S13



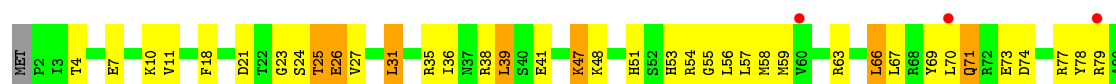
- Molecule 14: 30S ribosomal protein S14 type Z



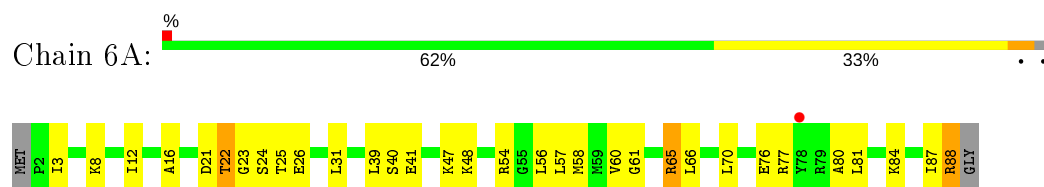
- Molecule 14: 30S ribosomal protein S14 type Z



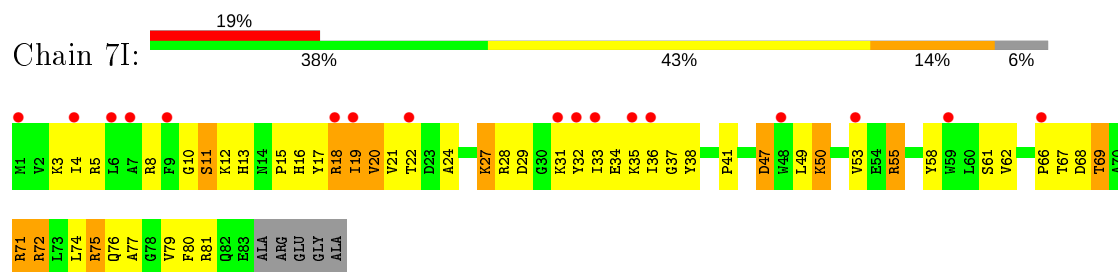
- Molecule 15: 30S ribosomal protein S15



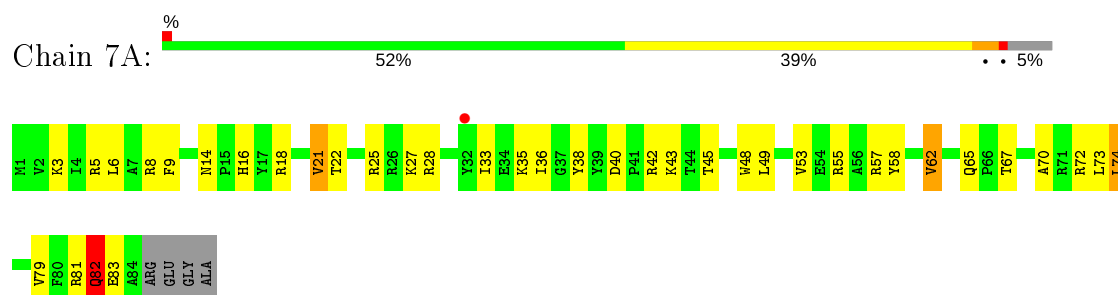
- Molecule 15: 30S ribosomal protein S15



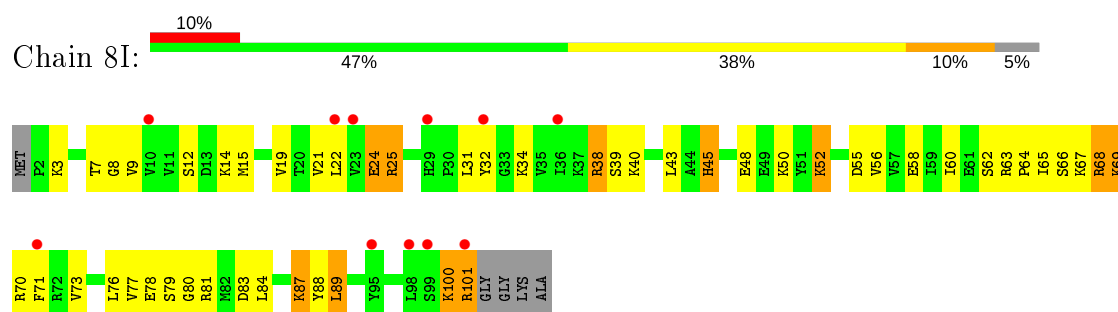
- Molecule 16: 30S ribosomal protein S16



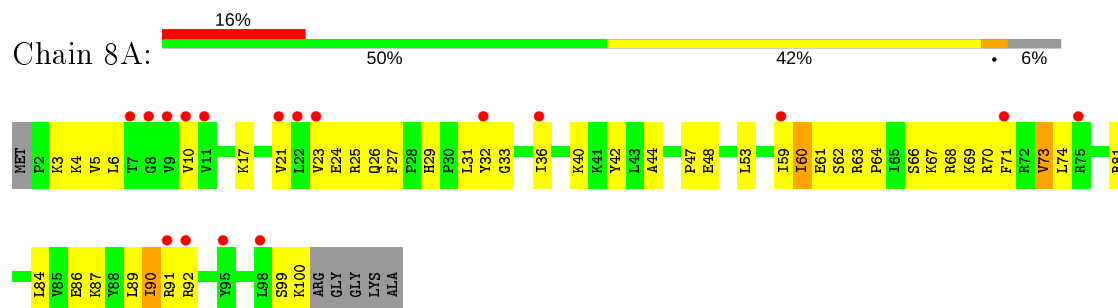
- Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17



- Molecule 17: 30S ribosomal protein S17



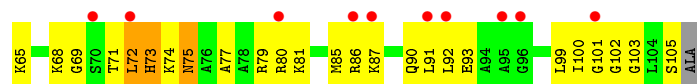
- Chain 91:
-
- | Amino Acid | Percentage |
|------------|------------|
| LYS | 44% |
| ARG | 27% |
| PRO | 6% |
| GLN | 23% |

- [illegible]

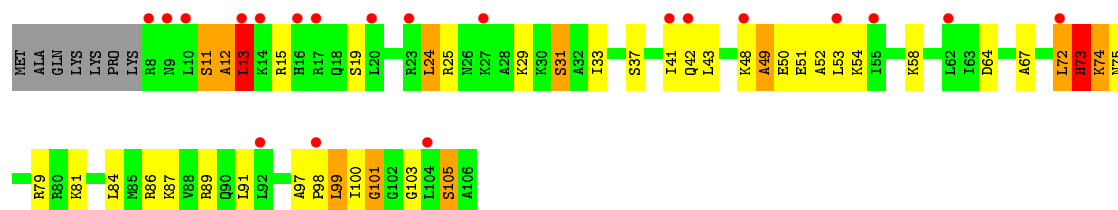
- Chain AI:
-
- | Amino Acid | Category | Percentage |
|------------|----------|------------|
| F74 | Red | 9% |
| A75 | Red | 9% |
| P76 | Red | 9% |
| T77 | Red | 9% |
| R78 | Green | 42% |
| T79 | Green | 42% |
| Y80 | Green | 42% |
| R81 | Green | 42% |
| G82 | Green | 42% |
| H83 | Green | 42% |
| GLY | Grey | 12% |
| LYS | Grey | 12% |
| GLU | Grey | 12% |
| ALA | Grey | 12% |
| LYS | Grey | 12% |
| LYS | Grey | 12% |
| THR | Grey | 12% |
| LYS | Grey | 12% |
| LYS | Grey | 12% |
| LYS | Grey | 12% |
| K25 | Yellow | 34% |
| G26 | Yellow | 34% |
| E27 | Yellow | 34% |
| L30 | Green | 42% |
| I31 | Orange | 8% |
| K32 | Green | 42% |
| T33 | Green | 42% |
| R36 | Orange | 8% |
| S38 | Green | 42% |
| T39 | Green | 42% |
| I40 | Red | 9% |
| V41 | Red | 9% |
| P42 | Orange | 8% |
| E43 | Orange | 8% |
| M44 | Orange | 8% |
| V45 | Yellow | 34% |
| T48 | Green | 42% |
| L49 | Green | 42% |
| A50 | Yellow | 34% |
| V51 | Yellow | 34% |
| Y52 | Yellow | 34% |
| H57 | Grey | 12% |
| V58 | Grey | 12% |
| P59 | Green | 42% |
| V60 | Green | 42% |
| M65 | Grey | 12% |
| M66 | Grey | 12% |
| V67 | Red | 9% |
| G68 | Grey | 12% |
| H69 | Grey | 12% |
| K70 | Green | 42% |
| L71 | Green | 42% |

- Chain AA:
-
- | Amino Acid | Frequency (%) |
|------------|---------------|
| MET | 5% |
| PRO | 26% |
| ARG | 26% |
| SER | 26% |
| ILE | 33% |
| K6 | 33% |
| K7 | 33% |
| G8 | 33% |
| V9 | 33% |
| D12 | 8% |
| D13 | 8% |
| H14 | 8% |
| L15 | 8% |
| L16 | 8% |
| E17 | 8% |
| K18 | 8% |
| V19 | 8% |
| E21 | 8% |
| L22 | 8% |
| L23 | 8% |
| N24 | 8% |
| A24 | 8% |
| LYS | 8% |
| GLY | 8% |
| GLU | 8% |
| LYS | 8% |
| ARG | 8% |
| LEU | 8% |
| ILE | 8% |
| K32 | 8% |
| T33 | 8% |
| W34 | 8% |
| S35 | 8% |
| R36 | 8% |
| R37 | 8% |
| S38 | 8% |
| T39 | 8% |
| I40 | 8% |
| M44 | 8% |
| T48 | 8% |
| ILE | 8% |
| ALA | 8% |
| VAL | 8% |
| TYR | 8% |
| N63 | 8% |
| G54 | 8% |
| K55 | 8% |
| Q56 | 8% |
| H57 | 8% |
| V58 | 8% |
| P59 | 8% |
| V60 | 8% |
| Y61 | 8% |
| I62 | 8% |
| T63 | 8% |
| P64 | 8% |
| N56 | 8% |

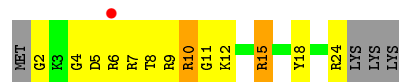
- Chain BI:
-
- | Category | Percentage |
|----------------|------------|
| Red Segment | 25% |
| Green Segment | 42% |
| Yellow Segment | 42% |
| Grey Segment | 8% |



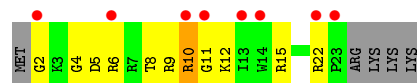
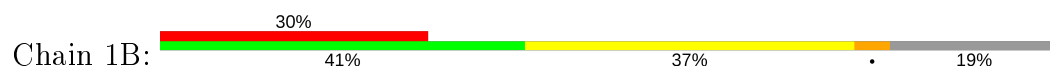
- Molecule 20: 30S ribosomal protein S20



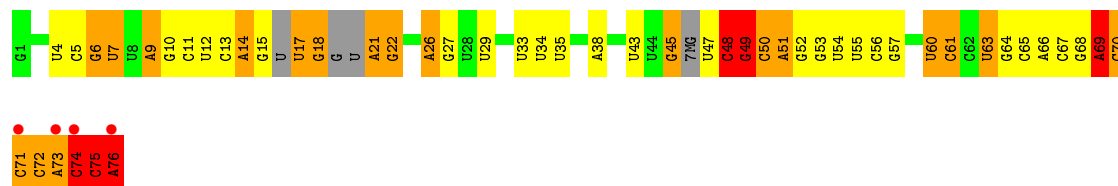
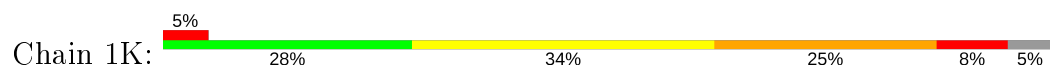
- Molecule 21: 30S ribosomal protein Thx



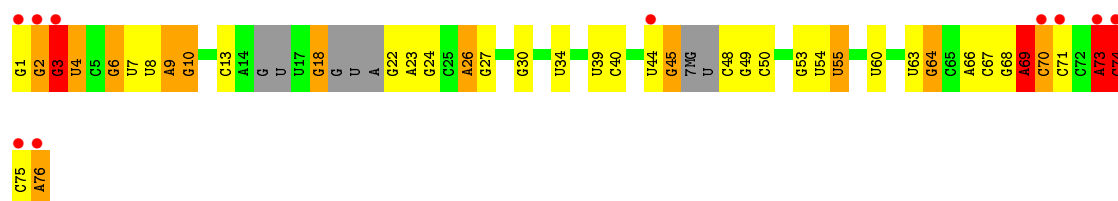
- Molecule 21: 30S ribosomal protein Thx



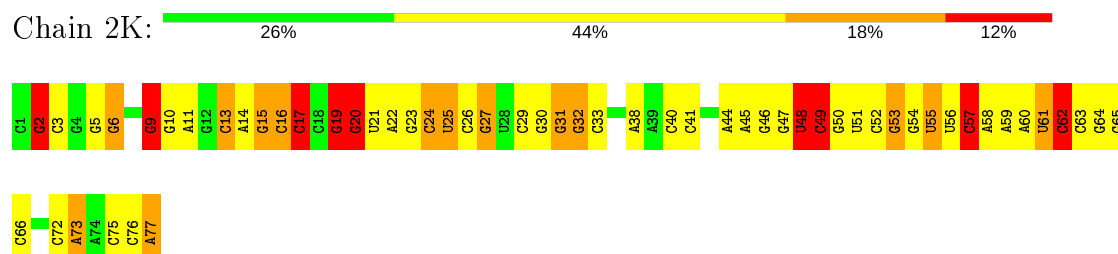
- Molecule 22: tRNA-Lys



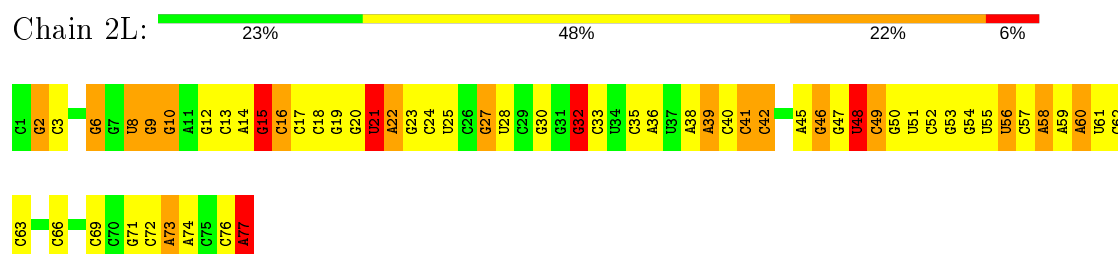
- Molecule 22: tRNA-Lys



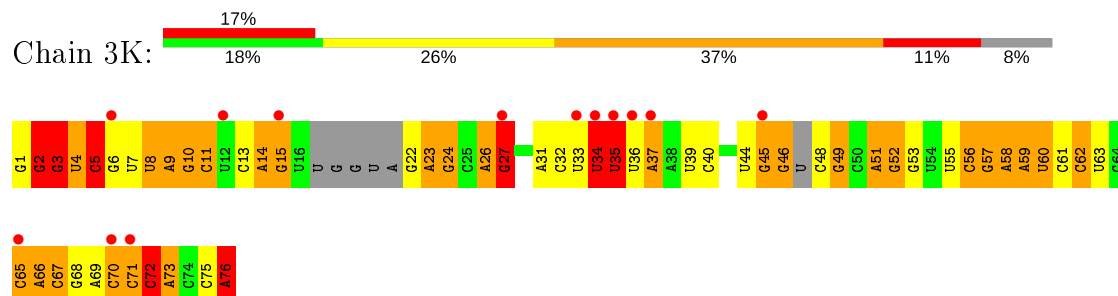
- Molecule 23: tRNA-fMet



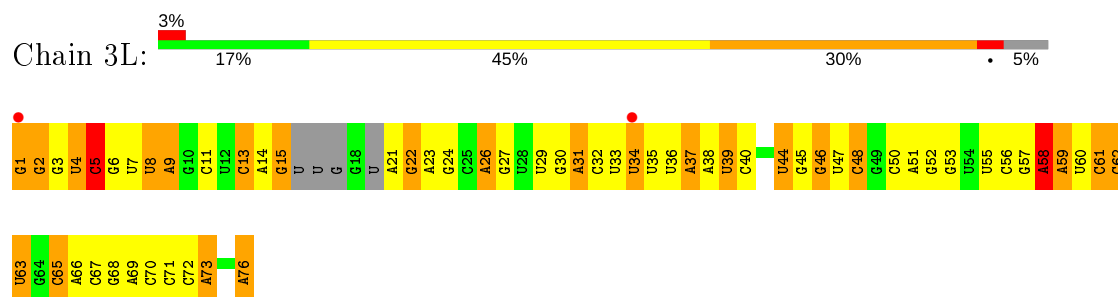
- Molecule 23: tRNA-fMet



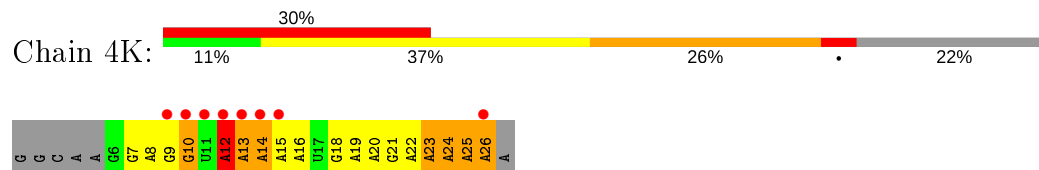
- Molecule 24: tRNA-Lys



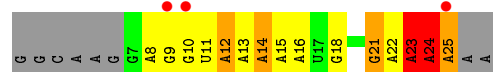
- Molecule 24: tRNA-Lys



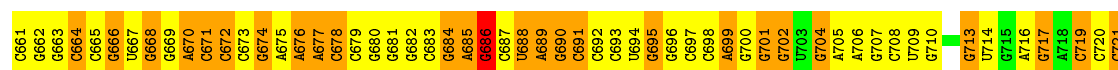
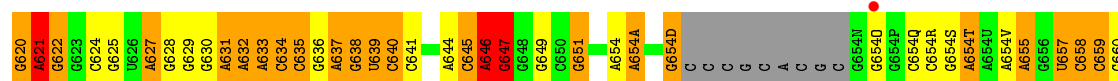
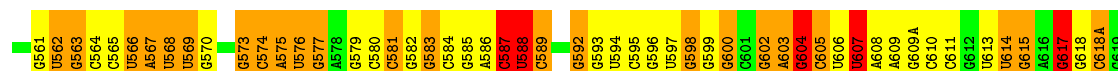
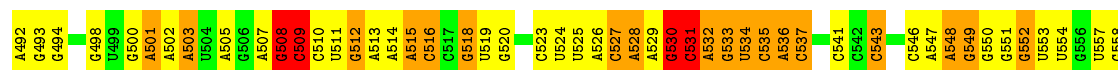
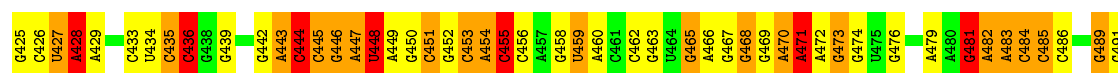
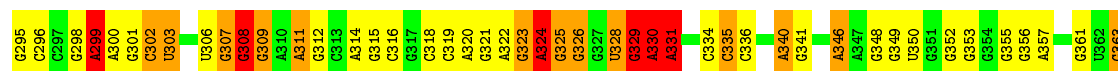
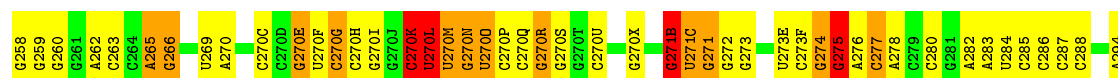
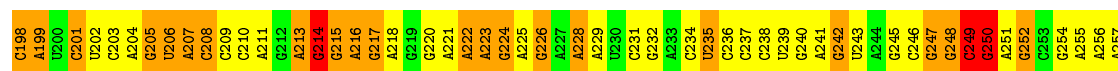
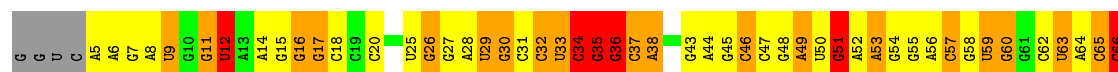
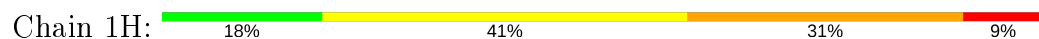
- Molecule 25: mRNA



- Molecule 25: mRNA

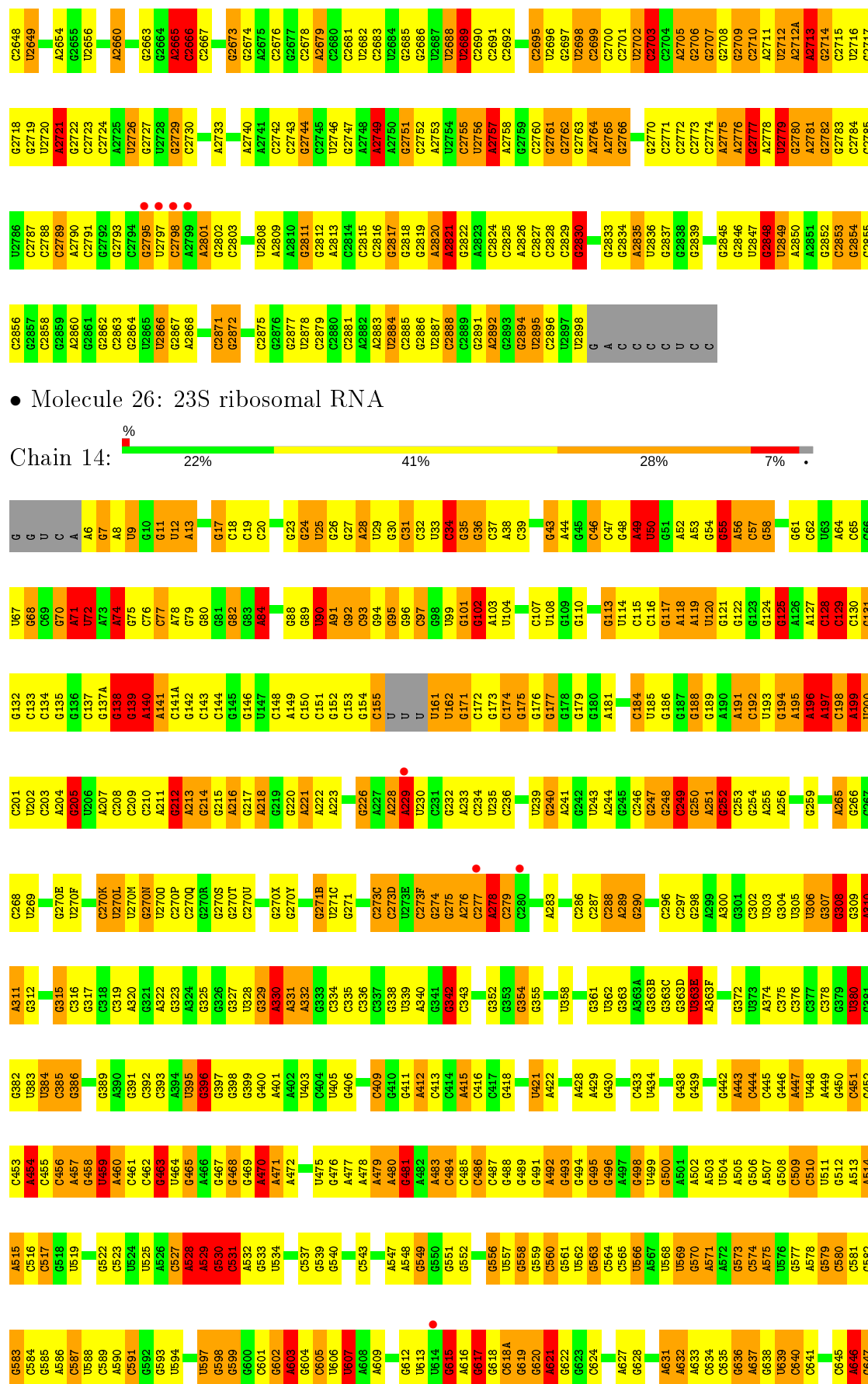


• Molecule 26: 23S ribosomal RNA



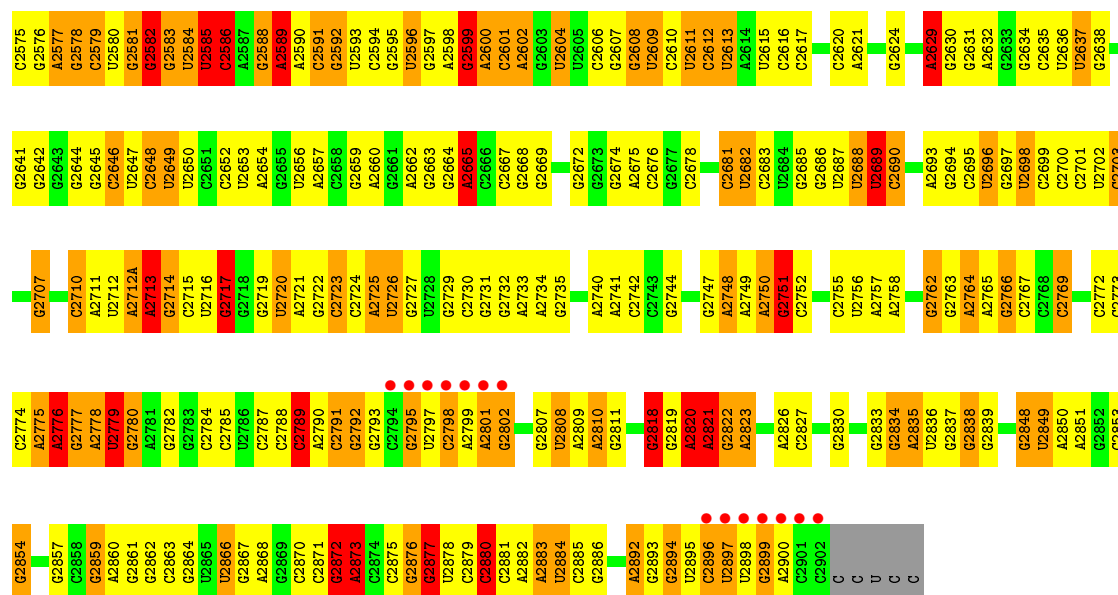




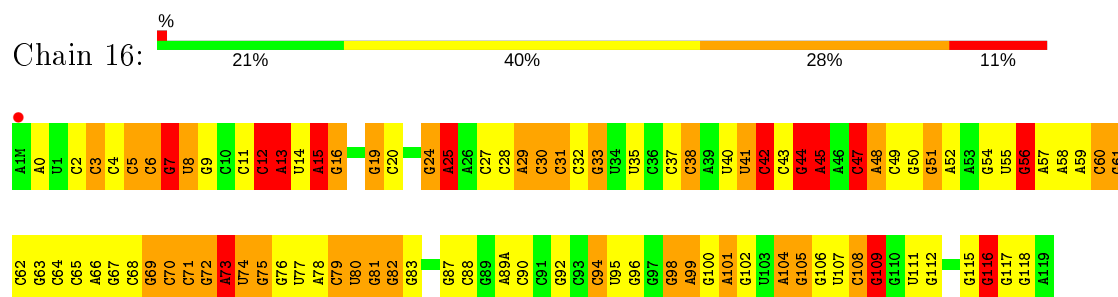


| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| A1510 | A1511 | G1443 | G1444 | A1444A | C1318 | U1255 | A1189 | A1126 | U | G874 | C814 | C754 | C690 | G648 |
| C1515 | U1516 | G1445 | G1446 | G1447 | G1386 | G1256 | G1190 | A1127 | U | G875 | C815 | C755 | C691 | G649 |
| G1517 | G1518 | G1448 | G1449 | G1450 | G1387 | G1257 | G1191 | A1128 | A | G876 | C816 | C756 | C692 | G650 |
| G1519 | G1520 | G1451 | G1452 | G1453 | G1388 | G1258 | G1192 | A1129 | G | U877 | C817 | C757 | C693 | G651 |
| G1521 | G1522 | G1454 | G1455 | G1456 | G1389 | G1259 | G1193 | U1130 | A1069 | G878 | C818 | C758 | C694 | G652 |
| G1523 | G1524 | G1457 | G1458 | G1459 | G1390 | G1260 | G1194 | G1131 | A1070 | G879 | C819 | C759 | C695 | G653 |
| G1525 | G1526 | G1460 | G1461 | G1462 | G1391 | G1261 | G1195 | A1132 | G1071 | G880 | C820 | C760 | C696 | G654 |
| G1527 | G1528 | G1463 | G1464 | G1465 | G1392 | G1262 | G1196 | U1133 | G1072 | G | C821 | C761 | C697 | G655A |
| G1529 | G1530 | G1466 | G1467 | G1468 | G1393 | G1263 | G1197 | C1135 | A1073 | G881 | C822 | C762 | C698 | G656B |
| G1531 | G1532 | G1469 | G1470 | G1471 | G1394 | G1264 | G1198 | G1136 | G1074 | G882 | C823 | C763 | C699 | G657C |
| G1533 | G1534 | G1472 | G1473 | G1474 | G1395 | G1265 | G1199 | G1137 | C1075 | G883 | C824 | C764 | C700 | G658D |
| G1535 | G1536 | G1475 | G1476 | G1477 | G1396 | G1266 | G1200 | G1138 | G1076 | C | C825 | C765 | C701 | C |
| G1537 | G1538 | G1478 | G1479 | G1480 | G1397 | G1267 | G1201 | G1139 | A | C | C826 | C766 | C702 | C |
| G1539 | G1540 | G1481 | G1482 | G1483 | G1398 | G1268 | G1202 | C1140 | U | A | C827 | C767 | C703 | C |
| G1541 | G1542 | G1484 | G1485 | G1486 | G1399 | G1269 | G1203 | U1141 | C | C | C828 | C768 | C704 | G |
| G1543 | G1544 | G1487 | G1488 | G1489 | G1400 | G1270 | G1204 | U1142 | C | C | C829 | C769 | C705 | G |
| G1545 | G1546 | G1490 | G1491 | G1492 | G1401 | G1271 | G1205 | U1143 | U | A | C830 | C770 | C706 | A |
| G1547 | G1548 | G1493 | G1494 | G1495 | G1402 | G1272 | G1206 | G1144 | U | C | C831 | C771 | C707 | A |
| G1549 | G1550 | G1496 | G1497 | G1498 | G1403 | G1273 | G1207 | G1145 | A | C | C832 | C772 | C708 | C |
| G1551 | G1552 | G1499 | G1500 | G1501 | G1404 | G1274 | G1208 | G1146 | U | C | C833 | C773 | C709 | C |
| G1553 | G1554 | G1502 | G1503 | G1504 | G1405 | G1275 | G1209 | G1147 | A | U | C834 | C774 | C710 | C |
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| G1557 | G1558 | G1508 | G1509 | G1510 | G1407 | G1277 | G1211 | G1149 | A1086 | A885 | C836 | C776 | C712 | G |
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| G1565 | G1566 | G1520 | G1521 | G1522 | G1411 | G1281 | G1215 | C1153 | U1090 | A889 | C840 | C780 | C716 | G656D |
| G1567 | G1568 | G1523 | G1524 | G1525 | G1412 | G1282 | G1216 | G1154 | G1091 | A890 | C841 | C781 | C717 | A654T |
| G1569 | G1570 | G1526 | G1527 | G1528 | G1413 | G1283 | G1217 | G1155 | C1092 | A891 | C842 | C782 | C718 | A655 |
| G1571 | G1572 | G1529 | G1530 | G1531 | G1414 | G1284 | G1218 | G1156 | G1093 | A892 | C843 | C783 | C719 | A656 |
| G1573 | G1574 | G1532 | G1533 | G1534 | G1415 | G1285 | G1219 | G1157 | U | A | C844 | C784 | C720 | A657 |
| G1575 | G1576 | G1535 | G1536 | G1537 | G1416 | G1286 | G1220 | G1158 | A | G885 | C845 | C785 | C721 | G662 |
| G1577 | G1578 | G1538 | G1539 | G1540 | G1417 | G1287 | G1221 | G1159 | U | A886 | C846 | C786 | C722 | G663 |
| G1579 | G1580 | G1541 | G1542 | G1543 | G1418 | G1288 | G1222 | G1160 | A1098 | A887 | C847 | C787 | C723 | G664 |
| G1581 | G1582 | G1544 | G1545 | G1546 | G1419 | G1289 | G1223 | G1161 | G1099 | A888 | C848 | C788 | C724 | G665 |
| G1583 | G1584 | G1547 | G1548 | G1549 | G1420 | G1290 | G1224 | G1162 | C1100 | A889 | C849 | C789 | C725 | G666 |
| G1585 | G1586 | G1550 | G1551 | G1552 | G1421 | G1291 | G1225 | G1163 | U1101 | A890 | C850 | C790 | C730 | G667 |
| G1587 | G1588 | G1553 | G1554 | G1555 | G1422 | G1292 | G1226 | G1164 | C1102 | A891 | C851 | C791 | C731 | G668 |
| G1589 | G1590 | G1556 | G1557 | G1558 | G1423 | G1293 | G1227 | G1165 | A1103 | A892 | C852 | C792 | C732 | G669 |
| G1591 | G1592 | G1559 | G1560 | G1561 | G1424 | G1294 | G1228 | G1166 | U1105 | A893 | C853 | C793 | C733 | A670 |
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| G1597 | G1598 | G1568 | G1569 | G1569 | G1427 | G1297 | G1231 | G1169 | G1108 | A896 | C856 | C796 | C736 | C673 |
| G1599 | G1600 | G1571 | G1572 | G1573 | G1428 | G1298 | G1232 | G1170 | U1109 | A897 | C857 | C797 | C737 | C674 |
| G1601 | G1602 | G1574 | G1575 | G1576 | G1429 | G1299 | G1233 | G1171 | A | A898 | C858 | C798 | C738 | A675 |
| G1603 | G1604 | G1577 | G1578 | G1579 | G1430 | G1300 | G1234 | G1172 | G1047 | A899 | C859 | C799 | C739 | A676 |
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| G1607 | G1608 | G1583 | G1584 | G1585 | G1432 | G1302 | G1236 | G1174 | C1049 | A899 | C861 | C801 | C741 | A678 |
| G1609 | G1610 | G1586 | G1587 | G1588 | G1433 | G1303 | G1237 | G1175 | A1050 | A899 | C862 | C802 | C742 | A679 |
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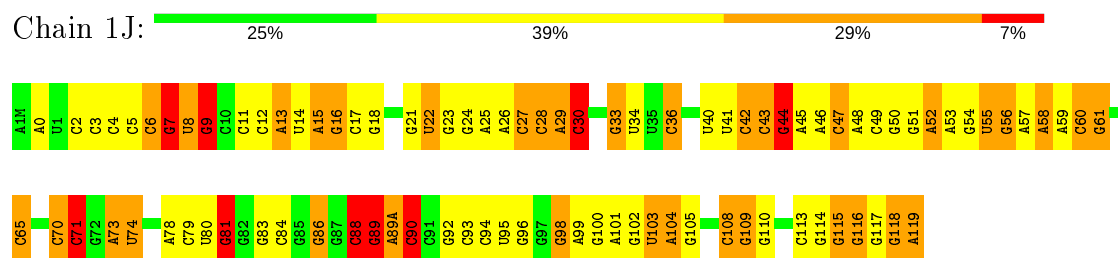
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| C2507 | C2508 | C2509 | C2510 | C2511 | C2512 | C2513 | C2514 | C2515 | C2516 | C2517 | C2518 | C2519 | C2520 | C2521 | C2522 | C2523 | C2524 | C2525 | C2526 | C2527 | C2528 | C2529 | C2530 | C2531 | C2532 | C2533 | C2534 | C2535 | C2536 | C2537 | C2538 | C2539 | C2540 | C2541 | C2542 | C2543 | C2544 | C2545 | C2546 | C2547 | C2548 | C2549 | C2550 | C2551 | C2552 | C2553 | C2554 | C2555 | C2556 | C2557 | C2558 | C2559 | C2560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A2377 | A2378 | A2379 | A2380 | A2381 | A2382 | A2383 | A2384 | A2385 | A2386 | A2387 | A2388 | A2389 | A2390 | A2391 | A2392 | A2393 | A2394 | A2395 | A2396 | A2397 | A2398 | A2399 | A2400 | A2401 | A2402 | A2403 | A2404 | A2405 | A2406 | A2407 | A2408 | A2409 | A2410 | A2411 | A2412 | A2413 | A2414 | A2415 | A2416 | A2417 | A2418 | A2419 | A2420 | A2421 | A2422 | A2423 | A2424 | A2425 | A2426 | A2427 | A2428 | A2429 | A2430 | A2431 | A2432 | A2433 | A2434 | A2435 | A2436 | A2437 | A2438 | A2439 | A2440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G2315 | G2316 | G2317 | G2318 | G2319 | G2320 | G2321 | G2322 | G2323 | G2324 | G2325 | G2326 | G2327 | G2328 | G2329 | G2330 | G2331 | G2332 | G2333 | G2334 | G2335 | G2336 | G2337 | G2338 | G2339 | G2340 | G2341 | G2342 | G2343 | G2344 | G2345 | G2346 | G2347 | G2348 | G2349 | G2350 | G2351 | G2352 | G2353 | G2354 | G2355 | G2356 | G2357 | G2358 | G2359 | G2360 | G2361 | G2362 | G2363 | G2364 | G2365 | G2366 | G2367 | G2368 | G2369 | G2370 | G2371 | G2372 | G2373 | G2374 | G2375 | G2376 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| G2114 | G2115 | G2116 | G2117 | G2118 | G2119 | G2120 | G2121 | G2122 | G2123 | G2124 | G2125 | G2126 | G2127 | G2128 | G2129 | G2130 | G2131 | G2132 | G2133 | G2134 | G2135 | G2136 | G2137 | G2138 | G2139 | G2140 | G2141 | G2142 | G2143 | G2144 | G2145 | G2146 | G2147 | G2148 | G2149 | G2150 | G2151 | G2152 | G2153 | G2154 | G2155 | G2156 | G2157 | G2158 | G2159 | G2160 | G2161 | G2162 | G2163 | G2164 | G2165 | G2166 | G2167 | G2168 | G2169 | G2170 | G2171 | G2172 | G2173 | G2174 | G2175 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U2047 | U2048 | U2049 | U2050 | U2051 | U2052 | U2053 | U2054 | U2055 | U2056 | U2057 | U2058 | U2059 | U2060 | U2061 | U2062 | U2063 | U2064 | U2065 | U2066 | U2067 | U2068 | U2069 | U2070 | U2071 | U2072 | U2073 | U2074 | U2075 | U2076 | U2077 | U2078 | U2079 | U2080 | U2081 | U2082 | U2083 | U2084 | U2085 | U2086 | U2087 | U2088 | U2089 | U2090 | U2091 | U2092 | U2093 | U2094 | U2095 | U2096 | U2097 | U2098 | U2099 | U2100 | U2101 | U2102 | U2103 | U2104 | U2105 | U2106 | U2107 | U2108 | U2109 | U2110 | U2111 | U2112 | U2113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C1925 | C1926 | C1927 | C1928 | C1929 | C1930 | C1931 | C1932 | C1933 | C1934 | C1935 | C1936 | C1937 | C1938 | C1939 | C1940 | C1941 | C1942 | C1943 | C1944 | C1945 | C1946 | C1947 | C1948 | C1949 | C1950 | C1951 | C1952 | C1953 | C1954 | C1955 | C1956 | C1957 | C1958 | C1959 | C1960 | C1961 | C1962 | C1963 | C1964 | C1965 | C1966 | C1967 | C1968 | C1969 | C1970 | C1971 | C1972 | C1973 | C1974 | C1975 | C1976 | C1977 | C1978 | C1979 | C1980 | C1981 | C1982 | C1983 | C1984 | C1985 | C1986 | C1987 | C1988 | C1989 | C1990 | C1991 | C1992 | C1993 | C1994 | C1995 | C1996 | C1997 | C1998 | C1999 | C2000 | C2001 | C2002 | C2003 | C2004 | C2005 | C2006 | C2007 | C2008 | C2009 | C2010 | C2011 | C2012 | C2013 | C2014 | C2015 | C2016 | C2017 | C2018 | C2019 | C2020 | C2021 | C2022 | C2023 | C2024 | C2025 | C2026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A1583 | A1584 | A1585 | A1586 | A1587 | A1588 | A1589 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |



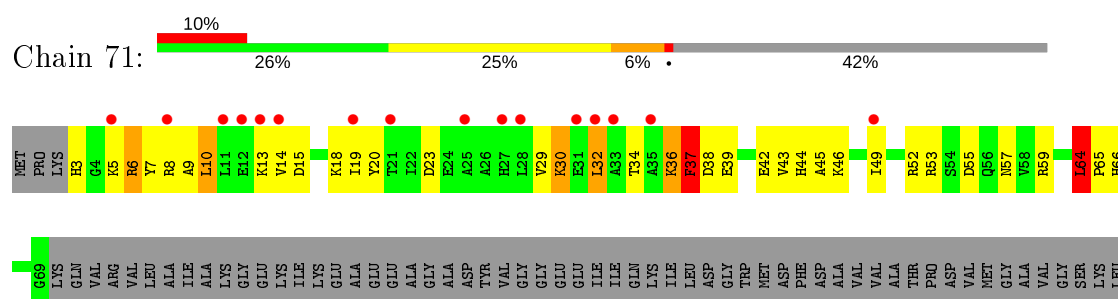
• Molecule 27: 5S ribosomal RNA



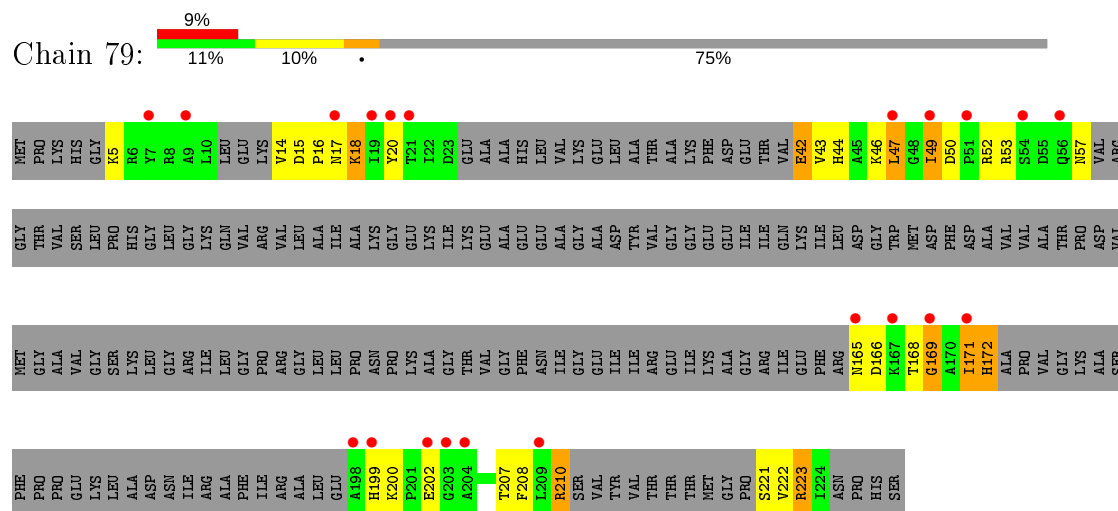
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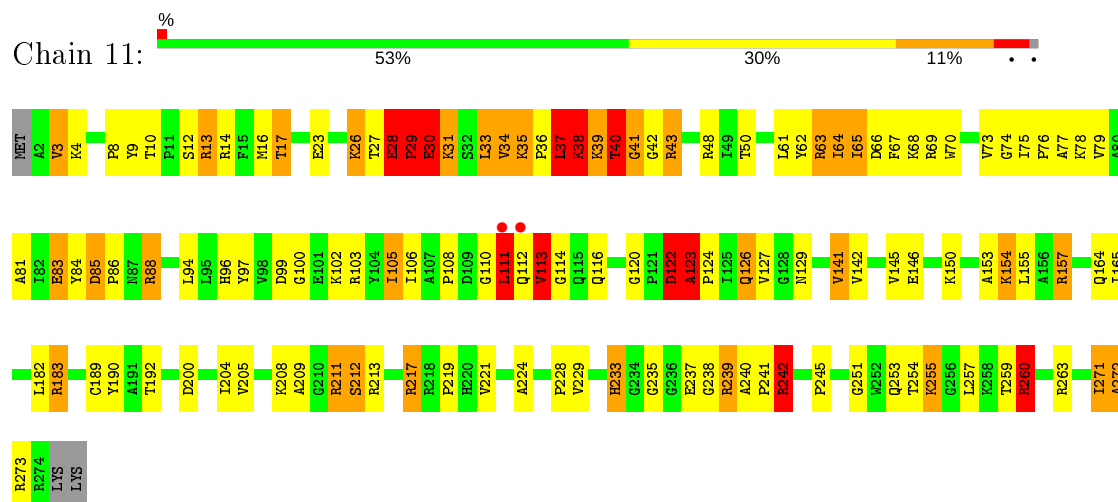
• Molecule 28: 50S ribosomal protein L1



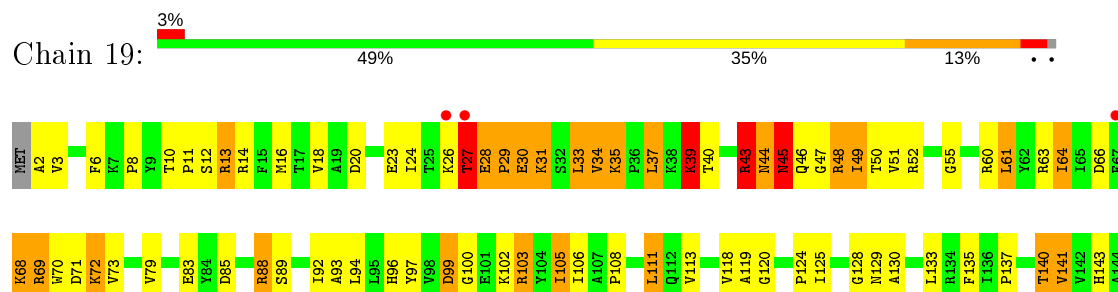
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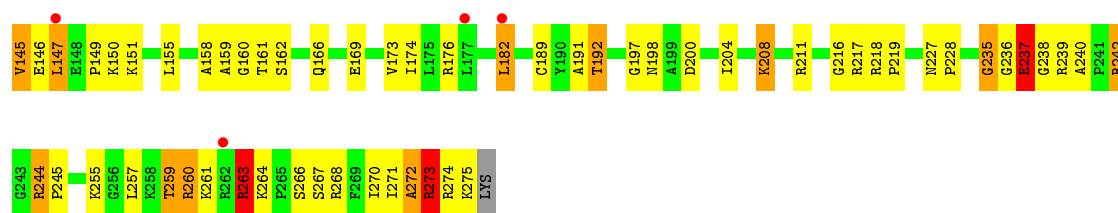


- Molecule 29: 50S ribosomal protein L2

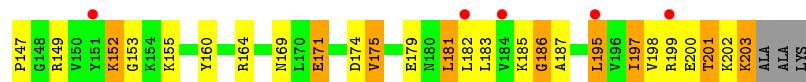
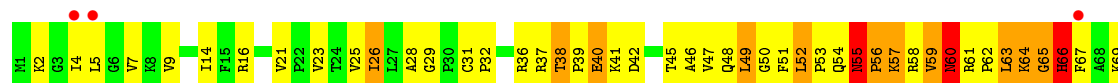


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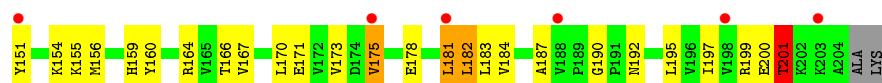
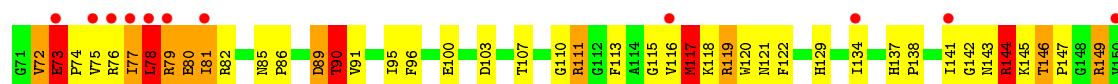
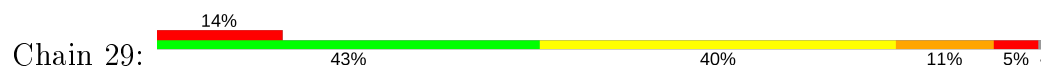




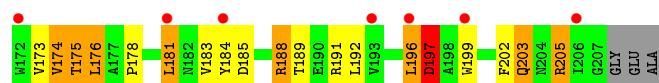
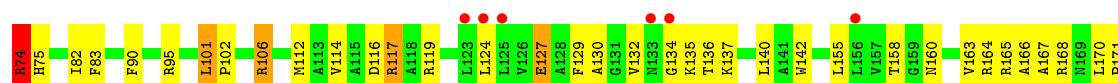
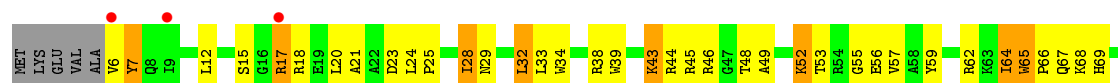
• Molecule 30: 50S ribosomal protein L3



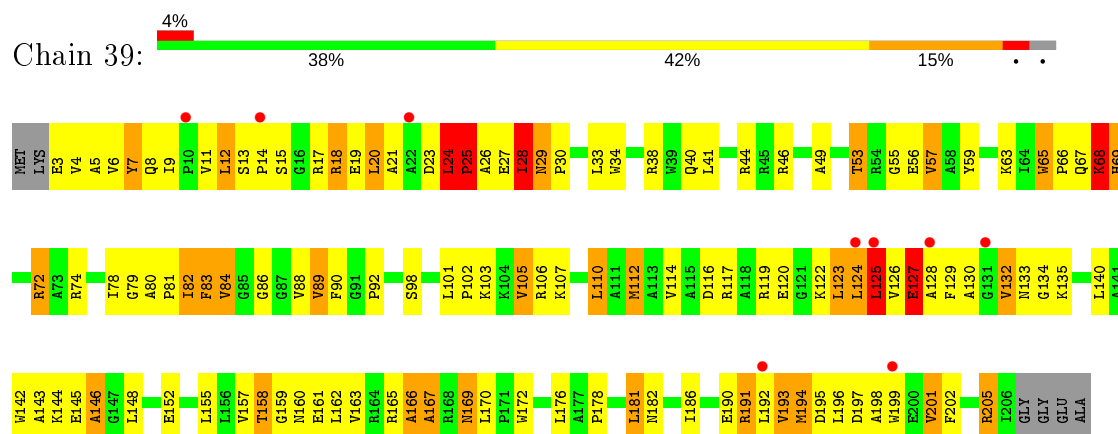
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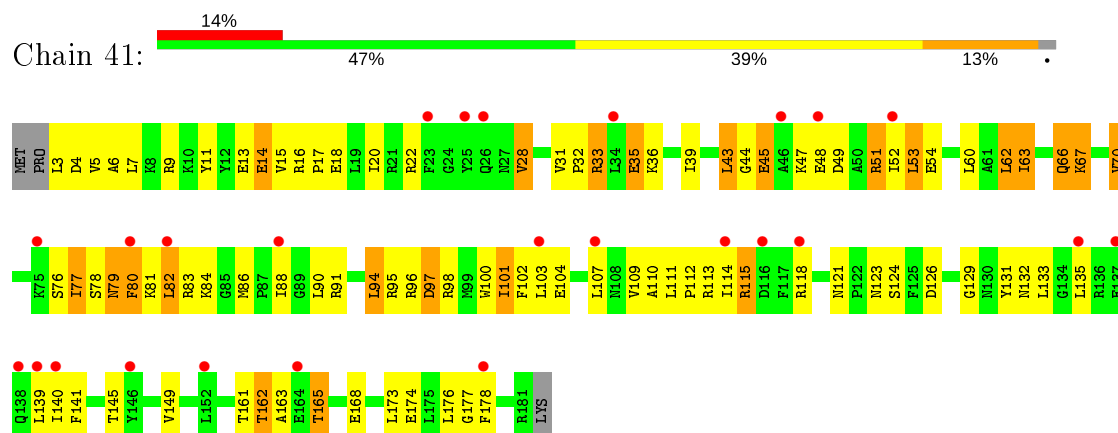
• Molecule 31: 50S ribosomal protein L4



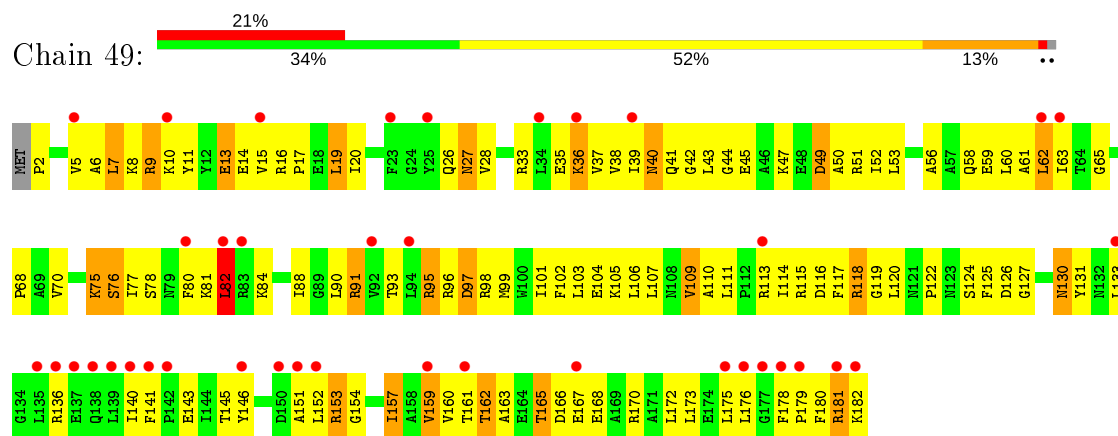
- Molecule 31: 50S ribosomal protein L4



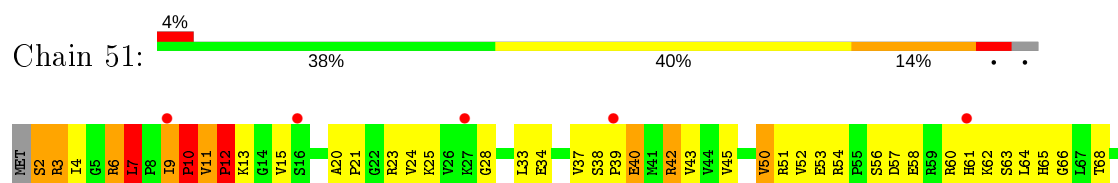
- Molecule 32: 50S ribosomal protein L5

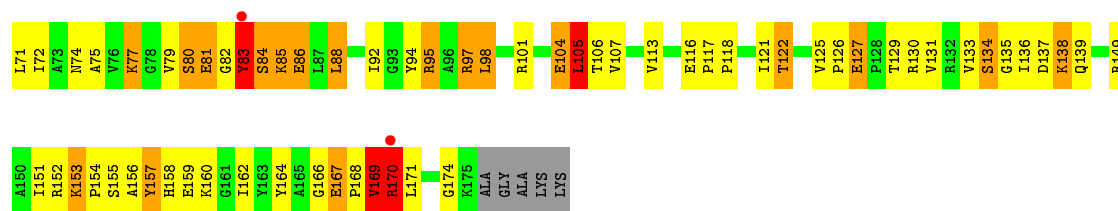


- Molecule 32: 50S ribosomal protein L5

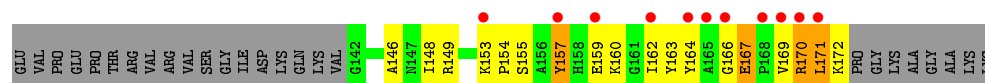
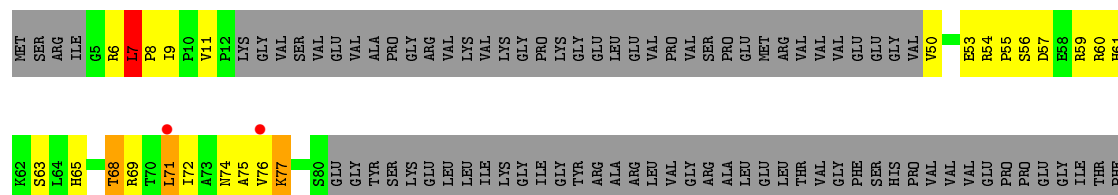


- Molecule 33: 50S ribosomal protein L6





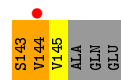
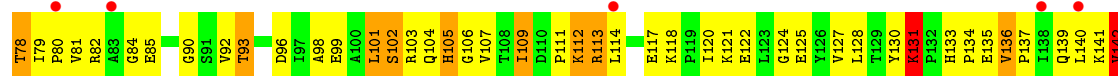
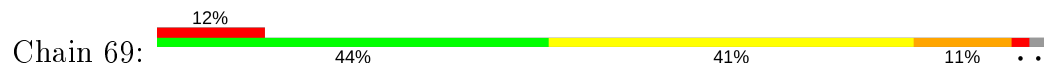
• Molecule 33: 50S ribosomal protein L6



• Molecule 34: 50S ribosomal protein L9

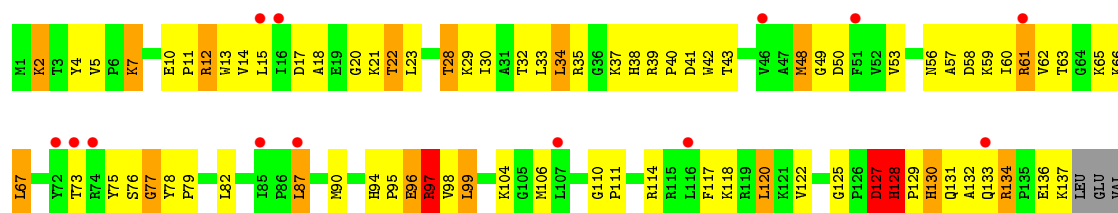


• Molecule 34: 50S ribosomal protein L9

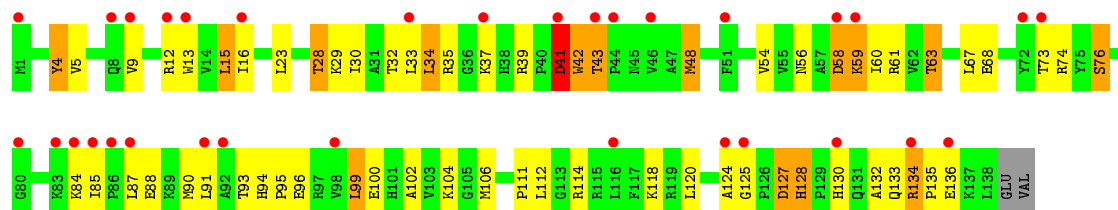


• Molecule 35: 50S ribosomal protein L13

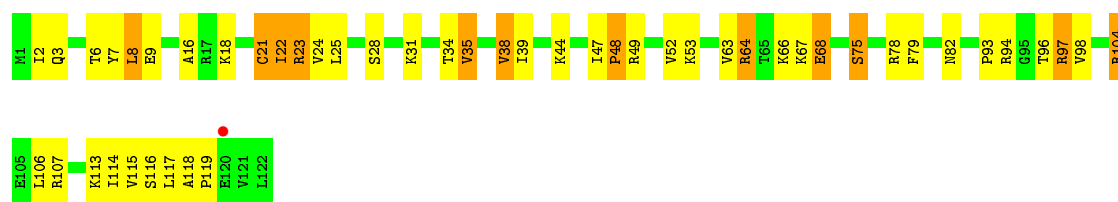




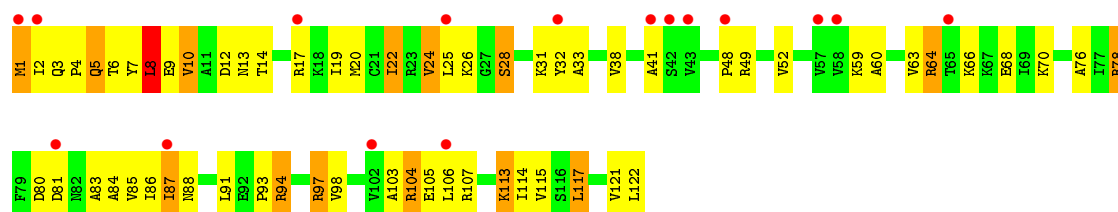
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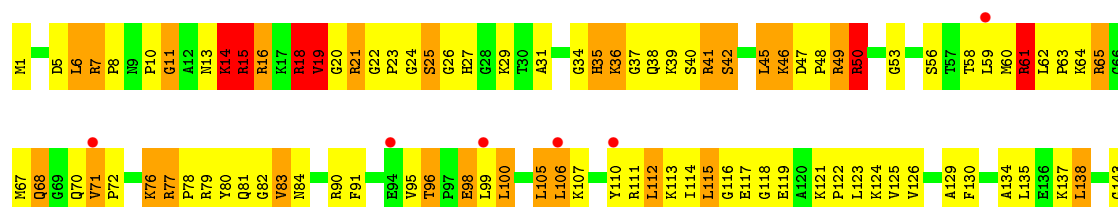
• Molecule 36: 50S ribosomal protein L14



• Molecule 36: 50S ribosomal protein L14

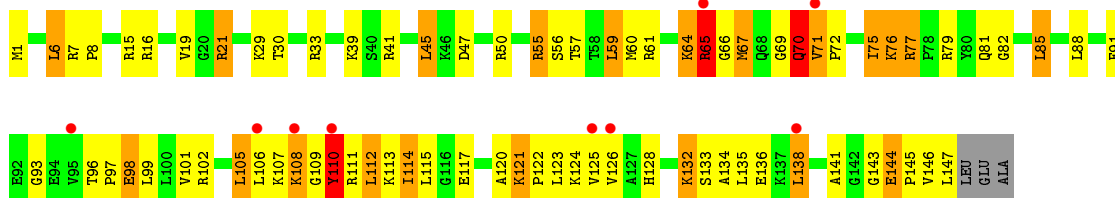


• Molecule 37: 50S ribosomal protein L15

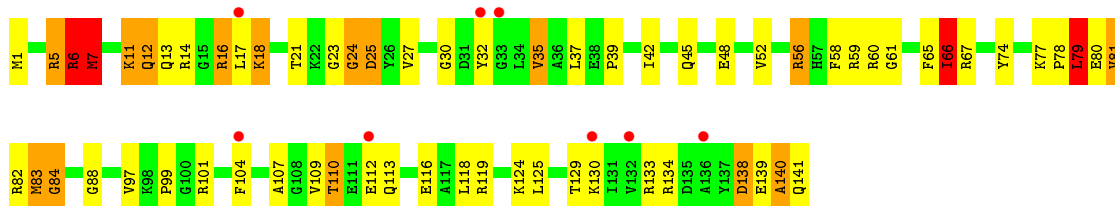




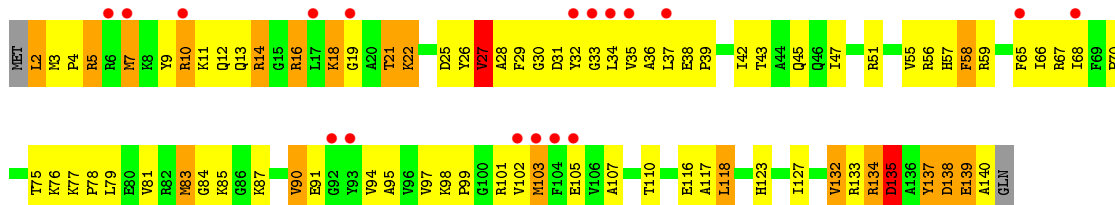
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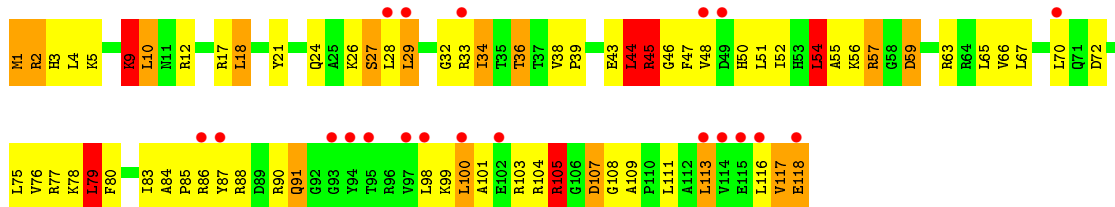
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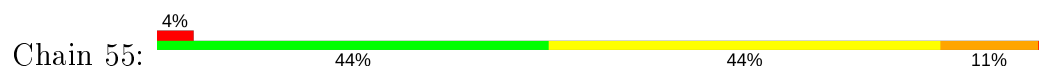
- Molecule 38: 50S ribosomal protein L16

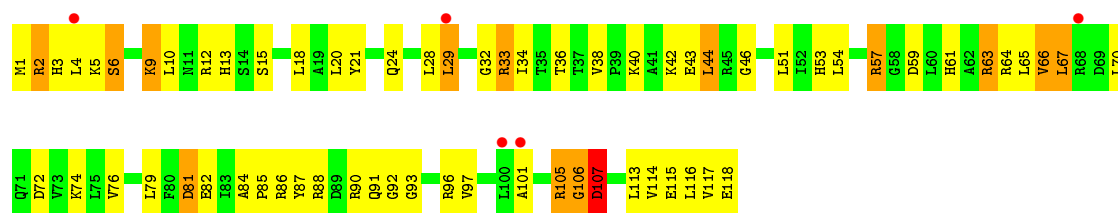


- Molecule 39: 50S ribosomal protein L17

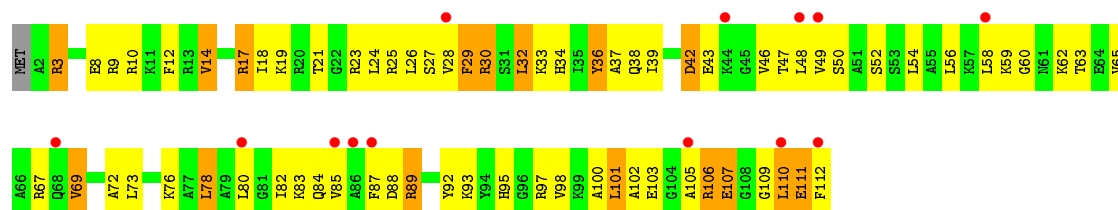


- Molecule 39: 50S ribosomal protein L17

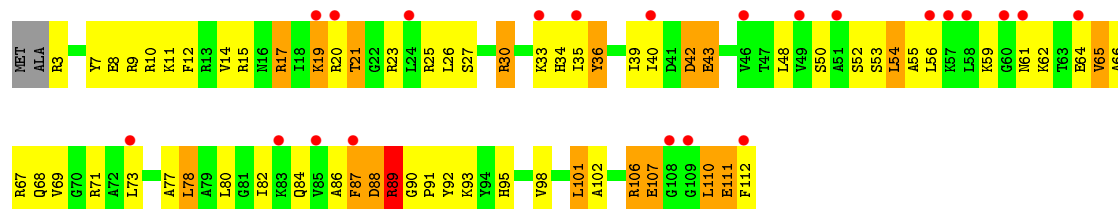
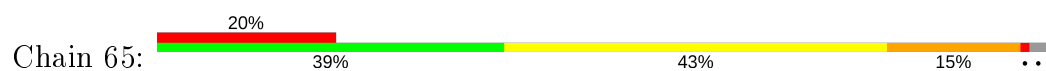




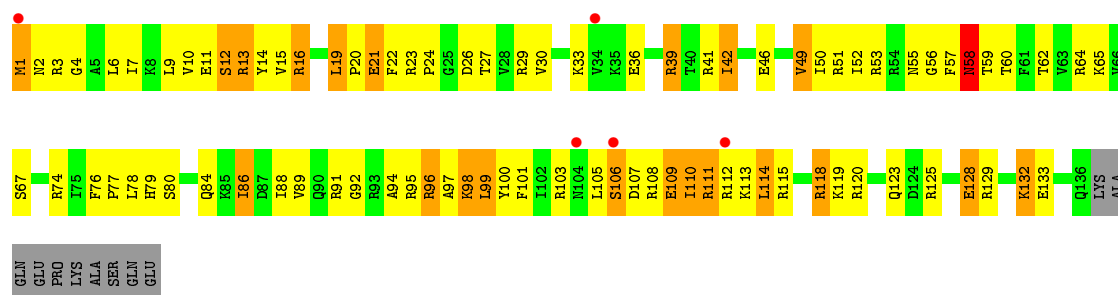
• Molecule 40: 50S ribosomal protein L18



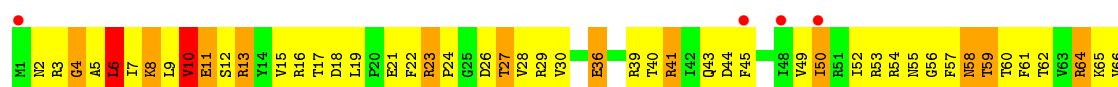
• Molecule 40: 50S ribosomal protein L18

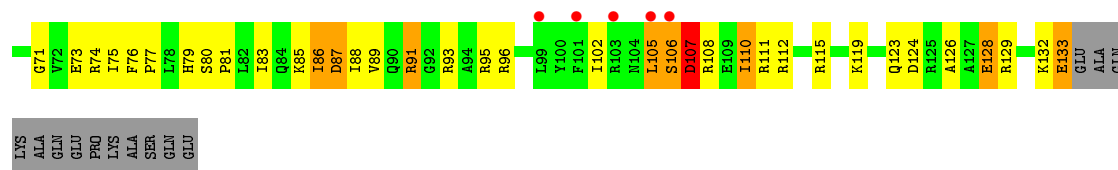


• Molecule 41: 50S ribosomal protein L19



• Molecule 41: 50S ribosomal protein L19

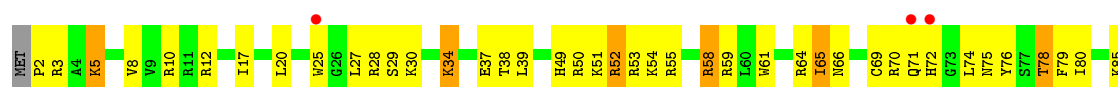




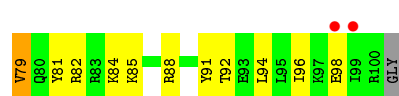
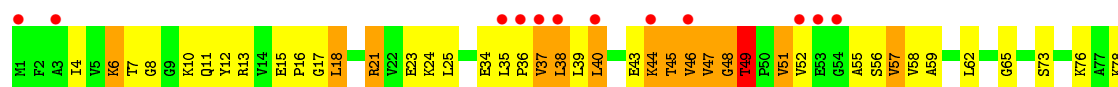
- Molecule 42: 50S ribosomal protein L20



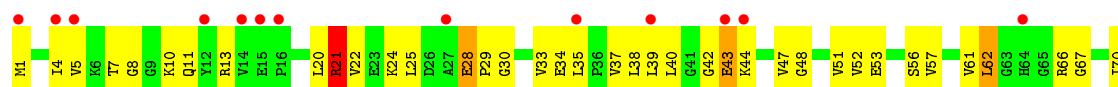
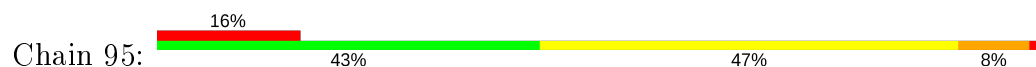
- Molecule 42: 50S ribosomal protein L20



- Molecule 43: 50S ribosomal protein L21

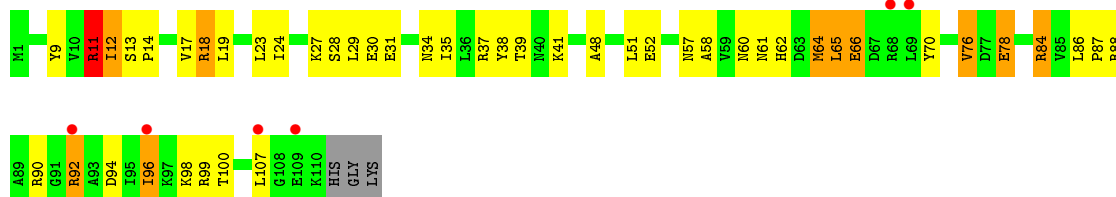


- Molecule 43: 50S ribosomal protein L21



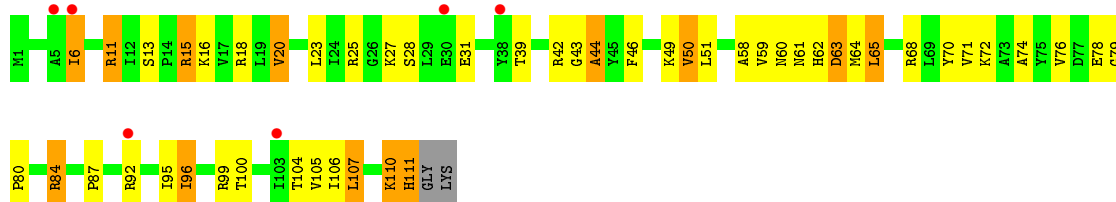
- Molecule 44: 50S ribosomal protein L22

Chain E8: 



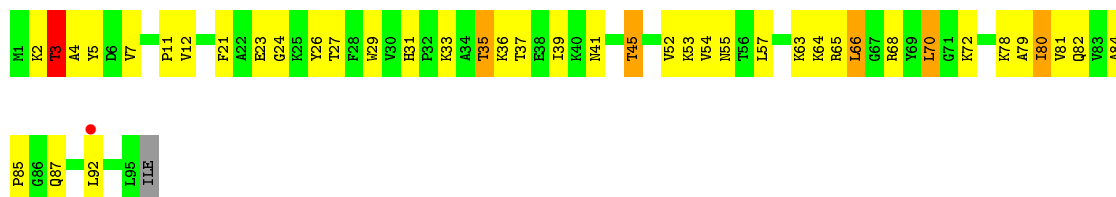
- Molecule 44: 50S ribosomal protein L22

Chain A5: 



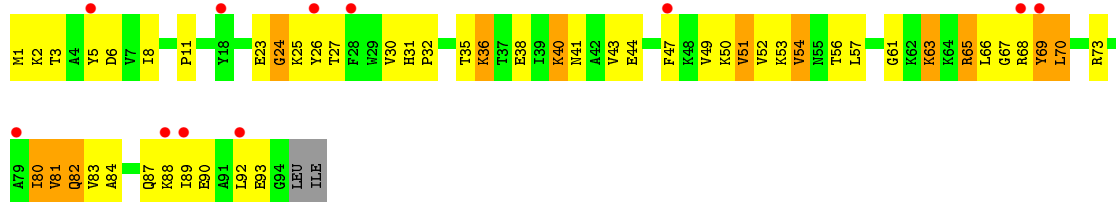
- Molecule 45: 50S ribosomal protein L23

Chain F8: 



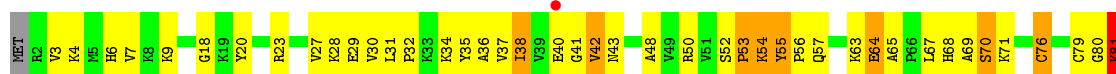
- Molecule 45: 50S ribosomal protein L23

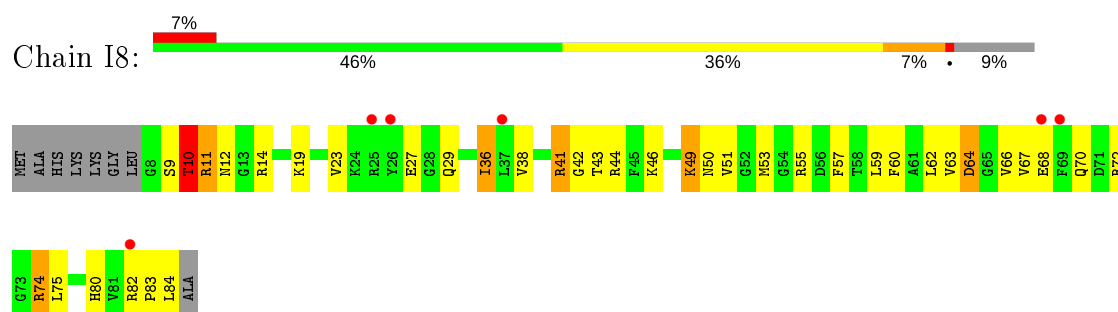
Chain B5: 



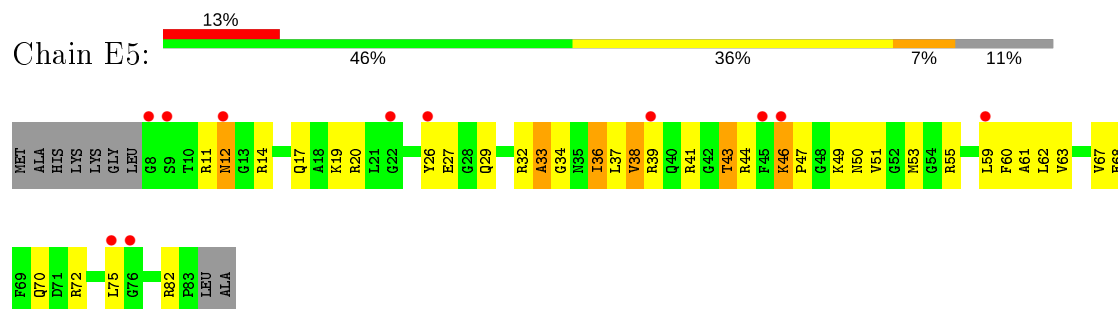
- Molecule 46: 50S ribosomal protein L24

Chain G8: 

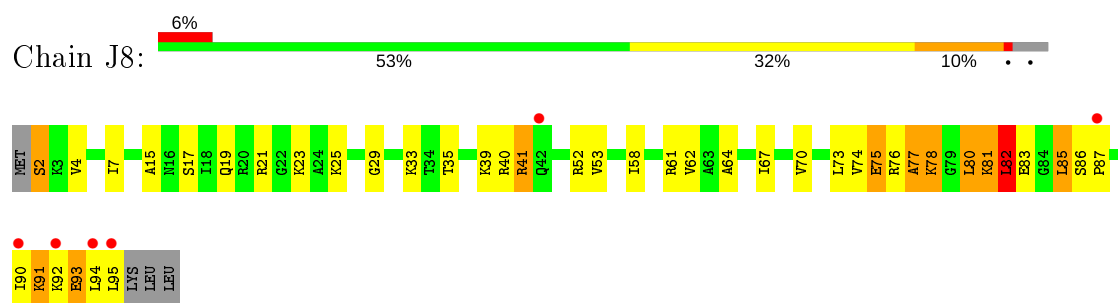




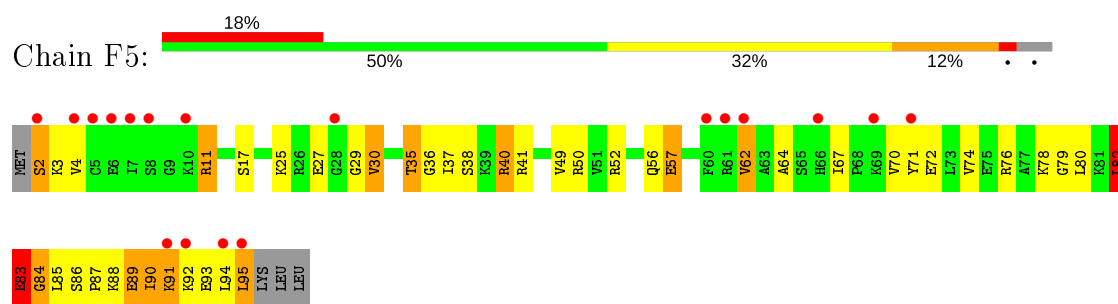
- Molecule 48: 50S ribosomal protein L27



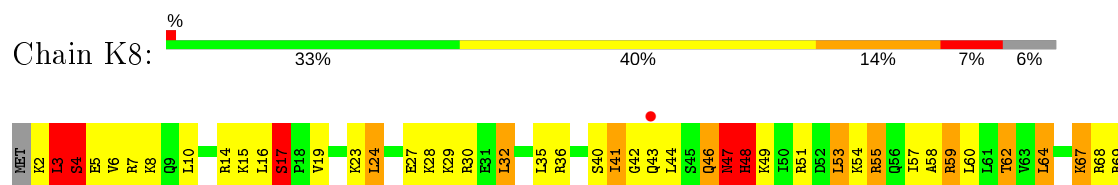
- Molecule 49: 50S ribosomal protein L28



- Molecule 49: 50S ribosomal protein L28



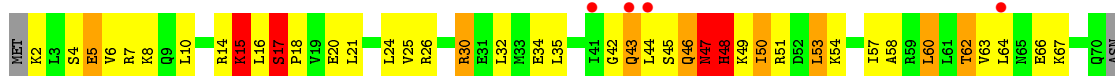
- Molecule 50: 50S ribosomal protein L29



GLN
ASN
ALA

- Molecule 50: 50S ribosomal protein L29

Chain G5: 




ALA

- Molecule 51: 50S ribosomal protein L30

Chain L8: 




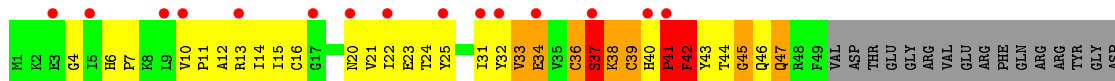
- Molecule 51: 50S ribosomal protein L30

Chain H5: 



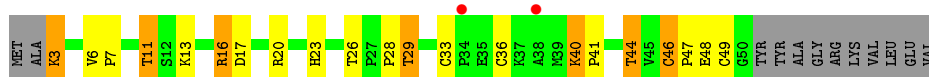
- Molecule 52: 50S ribosomal protein L31

Chain M8: 

SER
TYR
ARG
LYS
GLY
ARG

- Molecule 53: 50S ribosomal protein L32

Chain N8: 



- Molecule 53: 50S ribosomal protein L32

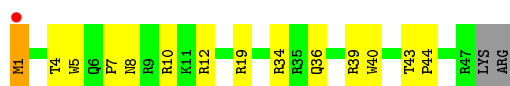
Chain J5: 



- Molecule 54: 50S ribosomal protein L34



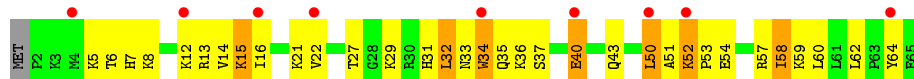
- Molecule 54: 50S ribosomal protein L34



- Molecule 55: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L35



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 209.20Å 448.50Å 619.90Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 147.01 – 2.95 147.01 – 2.95 | Depositor EDS |
| % Data completeness (in resolution range) | 100.0 (147.01-2.95) 91.6 (147.01-2.95) | Depositor EDS |
| R_{merge} | 0.32 | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 0.91 (at 2.96Å) | Xtriage |
| Refinement program | PHENIX | Depositor |
| R, R_{free} | 0.196 , 0.242 0.196 , 0.242 | Depositor DCC |
| R_{free} test set | 2000 reflections (0.17%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 77.9 | Xtriage |
| Anisotropy | 0.354 | Xtriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.28 , 72.1 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$ | Xtriage |
| Estimated twinning fraction | No twinning to report. | Xtriage |
| F_o, F_c correlation | 0.95 | EDS |
| Total number of atoms | 297904 | wwPDB-VP |
| Average B, all atoms (Å ²) | 98.0 | wwPDB-VP |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, OMC, ZN, U8U, G7M, SF4, MG, 4SU, T6A, PSU

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

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-----------------|-------------|------------------|
| | | RMSZ | $\# Z > 5$ | RMSZ | $\# Z > 5$ |
| 1 | 13 | 0.92 | 23/35994 (0.1%) | 1.67 | 897/56171 (1.6%) |
| 1 | 1G | 0.79 | 7/36236 (0.0%) | 1.48 | 499/56555 (0.9%) |
| 2 | 12 | 0.44 | 0/1727 | 0.73 | 1/2326 (0.0%) |
| 2 | 1E | 0.47 | 0/1908 | 0.76 | 4/2573 (0.2%) |
| 3 | 22 | 0.43 | 0/1560 | 0.67 | 0/2104 |
| 3 | 2E | 0.58 | 0/1629 | 0.73 | 1/2195 (0.0%) |
| 4 | 32 | 0.58 | 1/1732 (0.1%) | 0.81 | 3/2318 (0.1%) |
| 4 | 3E | 0.61 | 0/1728 | 0.84 | 3/2313 (0.1%) |
| 5 | 42 | 0.53 | 0/1155 | 0.72 | 0/1555 |
| 5 | 4E | 0.64 | 0/1158 | 0.77 | 0/1559 |
| 6 | 52 | 0.65 | 0/855 | 0.72 | 0/1154 |
| 6 | 5E | 0.66 | 0/850 | 0.76 | 0/1147 |
| 7 | 62 | 0.51 | 0/1132 | 0.70 | 0/1514 |
| 7 | 6E | 0.52 | 0/1259 | 0.65 | 0/1686 |
| 8 | 72 | 0.48 | 0/1127 | 0.66 | 0/1517 |
| 8 | 7E | 0.59 | 0/1135 | 0.81 | 1/1527 (0.1%) |
| 9 | 82 | 0.43 | 0/971 | 0.70 | 0/1304 |
| 9 | 8E | 0.51 | 0/1019 | 0.72 | 0/1367 |
| 10 | 1A | 0.46 | 0/658 | 0.70 | 0/885 |
| 10 | 1I | 0.60 | 0/767 | 0.82 | 0/1034 |
| 11 | 2A | 0.55 | 0/850 | 0.67 | 0/1150 |
| 11 | 2I | 0.62 | 0/838 | 0.79 | 0/1133 |
| 12 | 3A | 0.68 | 0/972 | 0.89 | 2/1301 (0.2%) |
| 12 | 3I | 0.87 | 0/972 | 1.04 | 3/1301 (0.2%) |
| 13 | 4A | 0.48 | 0/903 | 0.73 | 0/1211 |
| 13 | 4I | 0.67 | 0/952 | 0.87 | 2/1277 (0.2%) |
| 14 | 5A | 0.54 | 0/495 | 0.80 | 1/657 (0.2%) |
| 14 | 5I | 0.70 | 0/500 | 0.89 | 0/664 |
| 15 | 6A | 0.60 | 0/740 | 0.70 | 0/987 |
| 15 | 6I | 0.64 | 0/740 | 0.78 | 0/987 |
| 16 | 7A | 0.64 | 0/721 | 0.86 | 1/970 (0.1%) |
| 16 | 7I | 0.59 | 0/716 | 0.83 | 0/963 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|------------------|-------------|--------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 17 | 8A | 0.57 | 0/836 | 0.70 | 0/1117 |
| 17 | 8I | 0.69 | 0/847 | 0.82 | 1/1131 (0.1%) |
| 18 | 9A | 0.63 | 0/549 | 0.82 | 1/732 (0.1%) |
| 18 | 9I | 0.62 | 0/554 | 0.84 | 0/739 |
| 19 | AA | 0.44 | 0/490 | 0.69 | 0/662 |
| 19 | AI | 0.73 | 1/676 (0.1%) | 1.03 | 5/910 (0.5%) |
| 20 | BA | 0.51 | 0/764 | 0.78 | 1/1007 (0.1%) |
| 20 | BI | 0.45 | 0/748 | 0.74 | 2/986 (0.2%) |
| 21 | 1B | 0.50 | 0/192 | 0.74 | 0/252 |
| 21 | 1F | 0.57 | 0/203 | 0.82 | 0/266 |
| 22 | 1K | 0.80 | 1/1589 (0.1%) | 1.36 | 23/2464 (0.9%) |
| 22 | 1L | 0.62 | 3/1516 (0.2%) | 1.18 | 9/2350 (0.4%) |
| 23 | 2K | 1.02 | 2/1721 (0.1%) | 1.76 | 50/2682 (1.9%) |
| 23 | 2L | 0.83 | 2/1721 (0.1%) | 1.56 | 30/2682 (1.1%) |
| 24 | 3K | 0.70 | 2/1654 (0.1%) | 1.41 | 25/2570 (1.0%) |
| 24 | 3L | 0.66 | 0/1705 | 1.30 | 14/2650 (0.5%) |
| 25 | 4K | 1.03 | 1/523 (0.2%) | 1.55 | 10/813 (1.2%) |
| 25 | 4L | 0.78 | 0/473 | 1.44 | 9/737 (1.2%) |
| 26 | 14 | 1.13 | 193/68883 (0.3%) | 1.96 | 3155/107521 (2.9%) |
| 26 | 1H | 1.33 | 416/69669 (0.6%) | 2.20 | 4553/108757 (4.2%) |
| 27 | 16 | 1.07 | 7/2928 (0.2%) | 2.00 | 135/4568 (3.0%) |
| 27 | 1J | 0.92 | 2/2928 (0.1%) | 1.73 | 88/4568 (1.9%) |
| 28 | 71 | 0.39 | 0/1055 | 0.68 | 1/1425 (0.1%) |
| 28 | 79 | 0.36 | 0/459 | 0.66 | 1/608 (0.2%) |
| 29 | 11 | 1.07 | 6/2170 (0.3%) | 1.22 | 16/2926 (0.5%) |
| 29 | 19 | 0.92 | 1/2175 (0.0%) | 1.09 | 11/2933 (0.4%) |
| 30 | 21 | 0.87 | 1/1591 (0.1%) | 1.12 | 7/2146 (0.3%) |
| 30 | 29 | 0.81 | 1/1596 (0.1%) | 1.06 | 8/2153 (0.4%) |
| 31 | 31 | 0.91 | 3/1620 (0.2%) | 1.11 | 12/2194 (0.5%) |
| 31 | 39 | 0.78 | 1/1637 (0.1%) | 1.02 | 3/2218 (0.1%) |
| 32 | 41 | 0.69 | 0/1481 | 0.89 | 2/1994 (0.1%) |
| 32 | 49 | 0.53 | 0/1492 | 0.77 | 2/2008 (0.1%) |
| 33 | 51 | 0.74 | 0/1354 | 1.06 | 7/1833 (0.4%) |
| 33 | 59 | 0.47 | 0/552 | 0.87 | 2/743 (0.3%) |
| 34 | 61 | 0.59 | 0/1151 | 0.86 | 3/1558 (0.2%) |
| 34 | 69 | 0.56 | 0/1146 | 0.86 | 5/1551 (0.3%) |
| 35 | 15 | 0.57 | 0/1131 | 0.75 | 0/1525 |
| 35 | 58 | 0.71 | 0/1123 | 0.93 | 0/1514 |
| 36 | 25 | 0.73 | 0/942 | 0.86 | 1/1269 (0.1%) |
| 36 | 68 | 0.83 | 0/942 | 0.92 | 2/1269 (0.2%) |
| 37 | 35 | 0.73 | 0/1139 | 1.07 | 1/1514 (0.1%) |
| 37 | 78 | 0.91 | 0/1139 | 1.35 | 16/1514 (1.1%) |
| 38 | 45 | 0.77 | 0/1125 | 1.00 | 0/1505 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-------------------|-------------|--------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 38 | 88 | 0.98 | 0/1138 | 1.14 | 3/1523 (0.2%) |
| 39 | 55 | 0.73 | 0/981 | 0.96 | 0/1312 |
| 39 | 98 | 0.72 | 0/981 | 1.01 | 8/1312 (0.6%) |
| 40 | 65 | 0.65 | 0/886 | 1.01 | 4/1180 (0.3%) |
| 40 | A8 | 0.79 | 0/891 | 1.03 | 0/1187 |
| 41 | 75 | 0.70 | 0/1123 | 0.93 | 4/1500 (0.3%) |
| 41 | B8 | 0.81 | 0/1138 | 1.01 | 2/1521 (0.1%) |
| 42 | 85 | 0.76 | 0/977 | 0.91 | 2/1301 (0.2%) |
| 42 | C8 | 0.85 | 1/968 (0.1%) | 0.99 | 4/1289 (0.3%) |
| 43 | 95 | 0.70 | 0/781 | 0.95 | 2/1048 (0.2%) |
| 43 | D8 | 0.76 | 0/785 | 1.00 | 5/1052 (0.5%) |
| 44 | A5 | 0.82 | 0/897 | 0.94 | 0/1204 |
| 44 | E8 | 0.82 | 0/886 | 1.06 | 5/1189 (0.4%) |
| 45 | B5 | 0.81 | 0/749 | 0.88 | 0/1007 |
| 45 | F8 | 0.90 | 0/757 | 1.07 | 4/1017 (0.4%) |
| 46 | C5 | 0.75 | 0/807 | 0.97 | 2/1076 (0.2%) |
| 46 | G8 | 0.91 | 0/796 | 1.15 | 5/1062 (0.5%) |
| 47 | D5 | 0.55 | 0/1103 | 0.79 | 2/1494 (0.1%) |
| 47 | H8 | 0.61 | 0/1395 | 0.87 | 2/1890 (0.1%) |
| 48 | E5 | 0.77 | 0/611 | 0.95 | 0/814 |
| 48 | I8 | 0.95 | 1/619 (0.2%) | 1.23 | 3/825 (0.4%) |
| 49 | F5 | 0.83 | 0/744 | 1.13 | 6/989 (0.6%) |
| 49 | J8 | 0.92 | 1/744 (0.1%) | 1.09 | 4/989 (0.4%) |
| 50 | G5 | 0.69 | 0/578 | 0.88 | 1/766 (0.1%) |
| 50 | K8 | 0.95 | 0/577 | 1.26 | 6/763 (0.8%) |
| 51 | H5 | 0.66 | 0/464 | 0.86 | 0/623 |
| 51 | L8 | 0.83 | 1/464 (0.2%) | 0.93 | 0/623 |
| 52 | M8 | 0.65 | 0/385 | 1.05 | 2/521 (0.4%) |
| 53 | J5 | 0.82 | 0/448 | 1.06 | 3/606 (0.5%) |
| 53 | N8 | 0.85 | 0/381 | 1.03 | 0/516 |
| 54 | L5 | 0.85 | 0/409 | 1.08 | 3/540 (0.6%) |
| 54 | P8 | 1.04 | 0/409 | 1.21 | 1/540 (0.2%) |
| 55 | M5 | 0.93 | 2/524 (0.4%) | 1.05 | 1/691 (0.1%) |
| 55 | Q8 | 0.99 | 0/524 | 1.25 | 3/691 (0.4%) |
| All | All | 1.01 | 680/318108 (0.2%) | 1.71 | 9716/476630 (2.0%) |

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 |
|-----|-------|---------------------|---------------------|
| 2 | 12 | 0 | 5 |

Continued on next page...

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 2 | 1E | 0 | 1 |
| 4 | 32 | 0 | 1 |
| 9 | 82 | 0 | 1 |
| 9 | 8E | 0 | 1 |
| 10 | 1I | 0 | 1 |
| 11 | 2A | 0 | 1 |
| 11 | 2I | 0 | 1 |
| 12 | 3I | 0 | 3 |
| 13 | 4A | 0 | 2 |
| 13 | 4I | 0 | 3 |
| 14 | 5A | 0 | 1 |
| 20 | BA | 0 | 3 |
| 28 | 71 | 0 | 3 |
| 29 | 11 | 0 | 6 |
| 29 | 19 | 0 | 5 |
| 30 | 21 | 0 | 9 |
| 30 | 29 | 0 | 5 |
| 31 | 39 | 0 | 10 |
| 32 | 41 | 0 | 1 |
| 32 | 49 | 0 | 3 |
| 33 | 51 | 0 | 5 |
| 33 | 59 | 0 | 3 |
| 34 | 61 | 0 | 3 |
| 34 | 69 | 0 | 5 |
| 35 | 15 | 0 | 2 |
| 35 | 58 | 0 | 2 |
| 37 | 35 | 0 | 3 |
| 37 | 78 | 0 | 5 |
| 38 | 45 | 0 | 3 |
| 38 | 88 | 0 | 2 |
| 39 | 55 | 0 | 1 |
| 39 | 98 | 0 | 1 |
| 40 | 65 | 0 | 1 |
| 41 | 75 | 0 | 1 |
| 41 | B8 | 0 | 3 |
| 42 | 85 | 0 | 3 |
| 42 | C8 | 0 | 2 |
| 43 | 95 | 0 | 1 |
| 43 | D8 | 0 | 4 |
| 44 | A5 | 0 | 1 |
| 45 | B5 | 0 | 2 |
| 45 | F8 | 0 | 2 |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 46 | C5 | 0 | 2 |
| 46 | G8 | 0 | 6 |
| 47 | D5 | 0 | 5 |
| 47 | H8 | 0 | 3 |
| 49 | F5 | 0 | 2 |
| 49 | J8 | 0 | 3 |
| 50 | G5 | 0 | 3 |
| 50 | K8 | 0 | 4 |
| 52 | M8 | 0 | 4 |
| 54 | P8 | 0 | 1 |
| 55 | M5 | 0 | 2 |
| 55 | Q8 | 0 | 2 |
| All | All | 0 | 158 |

The worst 5 of 680 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|-------|--------|-------------|----------|
| 26 | 1H | 2430 | A | N9-C4 | -17.68 | 1.27 | 1.37 |
| 26 | 1H | 1698 | A | N9-C4 | -15.72 | 1.28 | 1.37 |
| 26 | 1H | 783 | A | N3-C4 | -14.91 | 1.25 | 1.34 |
| 26 | 1H | 774 | A | N9-C4 | -14.16 | 1.29 | 1.37 |
| 26 | 14 | 1786 | A | N9-C4 | -13.34 | 1.29 | 1.37 |

The worst 5 of 9716 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 26 | 1H | 1899 | G | N3-C4-N9 | -30.28 | 107.83 | 126.00 |
| 26 | 1H | 945 | A | N1-C6-N6 | 25.42 | 133.85 | 118.60 |
| 26 | 1H | 2287 | A | C2-N3-C4 | -25.22 | 97.99 | 110.60 |
| 26 | 1H | 1899 | G | N3-C4-C5 | 25.13 | 141.17 | 128.60 |
| 26 | 1H | 945 | A | C6-C5-N7 | -24.82 | 114.92 | 132.30 |

There are no chirality outliers.

5 of 158 planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 2 | 1E | 15 | VAL | Peptide |
| 10 | 1I | 88 | LEU | Peptide |
| 11 | 2I | 102 | GLY | Peptide |
| 12 | 3I | 47 | LYS | Peptide |
| 9 | 8E | 110 | GLU | Peptide |

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | 13 | 32157 | 0 | 16234 | 821 | 0 |
| 1 | 1G | 32371 | 0 | 16342 | 804 | 0 |
| 2 | 12 | 1696 | 0 | 1730 | 97 | 0 |
| 2 | 1E | 1874 | 0 | 1926 | 111 | 0 |
| 3 | 22 | 1537 | 0 | 1603 | 75 | 0 |
| 3 | 2E | 1605 | 0 | 1668 | 50 | 0 |
| 4 | 32 | 1702 | 0 | 1764 | 122 | 0 |
| 4 | 3E | 1698 | 0 | 1759 | 98 | 0 |
| 5 | 42 | 1139 | 0 | 1202 | 51 | 0 |
| 5 | 4E | 1142 | 0 | 1204 | 54 | 0 |
| 6 | 52 | 842 | 0 | 857 | 30 | 0 |
| 6 | 5E | 837 | 0 | 852 | 34 | 0 |
| 7 | 62 | 1120 | 0 | 1167 | 57 | 0 |
| 7 | 6E | 1242 | 0 | 1286 | 39 | 0 |
| 8 | 72 | 1107 | 0 | 1165 | 55 | 0 |
| 8 | 7E | 1115 | 0 | 1177 | 60 | 0 |
| 9 | 82 | 953 | 0 | 983 | 81 | 0 |
| 9 | 8E | 1000 | 0 | 1031 | 56 | 0 |
| 10 | 1A | 646 | 0 | 662 | 36 | 0 |
| 10 | 1I | 754 | 0 | 769 | 42 | 0 |
| 11 | 2A | 835 | 0 | 847 | 32 | 0 |
| 11 | 2I | 823 | 0 | 833 | 32 | 0 |
| 12 | 3A | 956 | 0 | 1046 | 42 | 0 |
| 12 | 3I | 956 | 0 | 1046 | 40 | 0 |
| 13 | 4A | 893 | 0 | 946 | 55 | 0 |
| 13 | 4I | 942 | 0 | 997 | 59 | 0 |
| 14 | 5A | 486 | 0 | 525 | 38 | 0 |
| 14 | 5I | 491 | 0 | 529 | 25 | 0 |
| 15 | 6A | 729 | 0 | 768 | 17 | 0 |
| 15 | 6I | 729 | 0 | 768 | 32 | 0 |
| 16 | 7A | 705 | 0 | 725 | 23 | 0 |
| 16 | 7I | 700 | 0 | 720 | 48 | 0 |
| 17 | 8A | 823 | 0 | 891 | 28 | 0 |
| 17 | 8I | 834 | 0 | 904 | 46 | 0 |
| 18 | 9A | 544 | 0 | 605 | 31 | 0 |
| 18 | 9I | 549 | 0 | 607 | 17 | 0 |
| 19 | AA | 481 | 0 | 468 | 30 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 19 | AI | 661 | 0 | 683 | 64 | 0 |
| 20 | BA | 762 | 0 | 861 | 35 | 0 |
| 20 | BI | 746 | 0 | 843 | 44 | 0 |
| 21 | 1B | 188 | 0 | 195 | 10 | 0 |
| 21 | 1F | 199 | 0 | 208 | 14 | 0 |
| 22 | 1K | 1542 | 0 | 790 | 46 | 0 |
| 22 | 1L | 1477 | 0 | 758 | 27 | 0 |
| 23 | 2K | 1646 | 0 | 844 | 24 | 0 |
| 23 | 2L | 1646 | 0 | 844 | 38 | 0 |
| 24 | 3K | 1483 | 0 | 756 | 64 | 0 |
| 24 | 3L | 1528 | 0 | 778 | 49 | 0 |
| 25 | 4K | 464 | 0 | 231 | 20 | 0 |
| 25 | 4L | 419 | 0 | 208 | 11 | 0 |
| 26 | 14 | 61505 | 0 | 30997 | 1435 | 0 |
| 26 | 1H | 62204 | 0 | 31336 | 1594 | 0 |
| 27 | 16 | 2617 | 0 | 1328 | 73 | 0 |
| 27 | 1J | 2617 | 0 | 1328 | 68 | 0 |
| 28 | 71 | 1033 | 0 | 1048 | 73 | 0 |
| 28 | 79 | 456 | 0 | 460 | 25 | 0 |
| 29 | 11 | 2120 | 0 | 2197 | 133 | 0 |
| 29 | 19 | 2125 | 0 | 2199 | 126 | 0 |
| 30 | 21 | 1558 | 0 | 1624 | 102 | 0 |
| 30 | 29 | 1563 | 0 | 1629 | 99 | 0 |
| 31 | 31 | 1585 | 0 | 1632 | 75 | 0 |
| 31 | 39 | 1602 | 0 | 1649 | 109 | 0 |
| 32 | 41 | 1457 | 0 | 1514 | 89 | 0 |
| 32 | 49 | 1468 | 0 | 1520 | 84 | 0 |
| 33 | 51 | 1328 | 0 | 1396 | 101 | 0 |
| 33 | 59 | 543 | 0 | 566 | 30 | 0 |
| 34 | 61 | 1136 | 0 | 1223 | 53 | 0 |
| 34 | 69 | 1131 | 0 | 1218 | 54 | 0 |
| 35 | 15 | 1104 | 0 | 1180 | 40 | 0 |
| 35 | 58 | 1096 | 0 | 1169 | 75 | 0 |
| 36 | 25 | 932 | 0 | 996 | 46 | 0 |
| 36 | 68 | 932 | 0 | 996 | 29 | 0 |
| 37 | 35 | 1122 | 0 | 1206 | 68 | 0 |
| 37 | 78 | 1122 | 0 | 1206 | 88 | 0 |
| 38 | 45 | 1104 | 0 | 1159 | 91 | 0 |
| 38 | 88 | 1117 | 0 | 1168 | 55 | 0 |
| 39 | 55 | 967 | 0 | 1033 | 56 | 0 |
| 39 | 98 | 967 | 0 | 1033 | 51 | 0 |
| 40 | 65 | 876 | 0 | 938 | 73 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 40 | A8 | 881 | 0 | 943 | 60 | 0 |
| 41 | 75 | 1109 | 0 | 1170 | 75 | 0 |
| 41 | B8 | 1124 | 0 | 1179 | 74 | 0 |
| 42 | 85 | 959 | 0 | 1019 | 56 | 0 |
| 42 | C8 | 950 | 0 | 1011 | 53 | 0 |
| 43 | 95 | 770 | 0 | 838 | 44 | 0 |
| 43 | D8 | 774 | 0 | 849 | 35 | 0 |
| 44 | A5 | 886 | 0 | 948 | 37 | 0 |
| 44 | E8 | 876 | 0 | 941 | 26 | 0 |
| 45 | B5 | 735 | 0 | 785 | 37 | 0 |
| 45 | F8 | 743 | 0 | 794 | 35 | 0 |
| 46 | C5 | 794 | 0 | 886 | 63 | 0 |
| 46 | G8 | 783 | 0 | 869 | 57 | 0 |
| 47 | D5 | 1079 | 0 | 1088 | 62 | 0 |
| 47 | H8 | 1365 | 0 | 1391 | 76 | 0 |
| 48 | E5 | 603 | 0 | 620 | 36 | 0 |
| 48 | I8 | 611 | 0 | 631 | 33 | 0 |
| 49 | F5 | 737 | 0 | 813 | 41 | 0 |
| 49 | J8 | 737 | 0 | 813 | 41 | 0 |
| 50 | G5 | 576 | 0 | 625 | 31 | 0 |
| 50 | K8 | 575 | 0 | 634 | 48 | 0 |
| 51 | H5 | 459 | 0 | 512 | 9 | 0 |
| 51 | L8 | 459 | 0 | 512 | 12 | 0 |
| 52 | M8 | 376 | 0 | 374 | 53 | 0 |
| 53 | J5 | 434 | 0 | 454 | 20 | 0 |
| 53 | N8 | 369 | 0 | 388 | 19 | 0 |
| 54 | L5 | 401 | 0 | 436 | 14 | 0 |
| 54 | P8 | 401 | 0 | 436 | 19 | 0 |
| 55 | M5 | 516 | 0 | 581 | 26 | 0 |
| 55 | Q8 | 516 | 0 | 582 | 40 | 0 |
| 56 | 11 | 3 | 0 | 0 | 0 | 0 |
| 56 | 13 | 161 | 0 | 0 | 0 | 0 |
| 56 | 14 | 471 | 0 | 0 | 0 | 0 |
| 56 | 16 | 13 | 0 | 0 | 0 | 0 |
| 56 | 1G | 126 | 0 | 0 | 0 | 0 |
| 56 | 1H | 572 | 0 | 0 | 0 | 0 |
| 56 | 1J | 11 | 0 | 0 | 0 | 0 |
| 56 | 1K | 1 | 0 | 0 | 0 | 0 |
| 56 | 21 | 3 | 0 | 0 | 0 | 0 |
| 56 | 25 | 2 | 0 | 0 | 0 | 0 |
| 56 | 29 | 1 | 0 | 0 | 0 | 0 |
| 56 | 2A | 1 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 56 | 2K | 3 | 0 | 0 | 0 | 0 |
| 56 | 2L | 3 | 0 | 0 | 0 | 0 |
| 56 | 32 | 1 | 0 | 0 | 0 | 0 |
| 56 | 35 | 3 | 0 | 0 | 0 | 0 |
| 56 | 39 | 2 | 0 | 0 | 0 | 0 |
| 56 | 41 | 2 | 0 | 0 | 0 | 0 |
| 56 | 42 | 2 | 0 | 0 | 0 | 0 |
| 56 | 45 | 2 | 0 | 0 | 0 | 0 |
| 56 | 4K | 1 | 0 | 0 | 0 | 0 |
| 56 | 52 | 1 | 0 | 0 | 0 | 0 |
| 56 | 5E | 1 | 0 | 0 | 0 | 0 |
| 56 | 5I | 1 | 0 | 0 | 0 | 0 |
| 56 | 78 | 2 | 0 | 0 | 0 | 0 |
| 56 | 88 | 3 | 0 | 0 | 0 | 0 |
| 56 | 98 | 1 | 0 | 0 | 0 | 0 |
| 56 | B5 | 1 | 0 | 0 | 0 | 0 |
| 56 | E5 | 3 | 0 | 0 | 0 | 0 |
| 56 | F8 | 1 | 0 | 0 | 0 | 0 |
| 56 | I8 | 1 | 0 | 0 | 0 | 0 |
| 56 | L8 | 1 | 0 | 0 | 0 | 0 |
| 56 | M5 | 1 | 0 | 0 | 0 | 0 |
| 56 | P8 | 1 | 0 | 0 | 0 | 0 |
| 56 | Q8 | 1 | 0 | 0 | 0 | 0 |
| 57 | 32 | 8 | 0 | 0 | 3 | 0 |
| 57 | 3E | 8 | 0 | 0 | 0 | 0 |
| 58 | 5A | 1 | 0 | 0 | 0 | 0 |
| 58 | 5I | 1 | 0 | 0 | 0 | 0 |
| 58 | C5 | 1 | 0 | 0 | 0 | 0 |
| 58 | G8 | 1 | 0 | 0 | 0 | 0 |
| 59 | 11 | 16 | 0 | 0 | 6 | 0 |
| 59 | 13 | 389 | 0 | 0 | 54 | 0 |
| 59 | 14 | 1225 | 0 | 0 | 216 | 0 |
| 59 | 16 | 35 | 0 | 0 | 7 | 0 |
| 59 | 19 | 11 | 0 | 0 | 3 | 0 |
| 59 | 1E | 1 | 0 | 0 | 0 | 0 |
| 59 | 1F | 2 | 0 | 0 | 0 | 0 |
| 59 | 1G | 297 | 0 | 0 | 46 | 0 |
| 59 | 1H | 1539 | 0 | 0 | 287 | 0 |
| 59 | 1I | 2 | 0 | 0 | 0 | 0 |
| 59 | 1J | 12 | 0 | 0 | 2 | 0 |
| 59 | 1K | 8 | 0 | 0 | 1 | 0 |
| 59 | 1L | 1 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 59 | 21 | 7 | 0 | 0 | 1 | 0 |
| 59 | 25 | 6 | 0 | 0 | 0 | 0 |
| 59 | 29 | 5 | 0 | 0 | 0 | 0 |
| 59 | 2A | 3 | 0 | 0 | 0 | 0 |
| 59 | 2K | 6 | 0 | 0 | 0 | 0 |
| 59 | 2L | 6 | 0 | 0 | 0 | 0 |
| 59 | 31 | 6 | 0 | 0 | 0 | 0 |
| 59 | 32 | 2 | 0 | 0 | 1 | 0 |
| 59 | 35 | 8 | 0 | 0 | 1 | 0 |
| 59 | 39 | 7 | 0 | 0 | 0 | 0 |
| 59 | 3A | 1 | 0 | 0 | 0 | 0 |
| 59 | 3E | 2 | 0 | 0 | 0 | 0 |
| 59 | 3I | 2 | 0 | 0 | 0 | 0 |
| 59 | 3K | 1 | 0 | 0 | 0 | 0 |
| 59 | 41 | 1 | 0 | 0 | 0 | 0 |
| 59 | 42 | 1 | 0 | 0 | 0 | 0 |
| 59 | 45 | 4 | 0 | 0 | 0 | 0 |
| 59 | 4E | 1 | 0 | 0 | 0 | 0 |
| 59 | 4I | 2 | 0 | 0 | 0 | 0 |
| 59 | 4K | 5 | 0 | 0 | 0 | 0 |
| 59 | 4L | 5 | 0 | 0 | 0 | 0 |
| 59 | 52 | 4 | 0 | 0 | 0 | 0 |
| 59 | 55 | 3 | 0 | 0 | 4 | 0 |
| 59 | 58 | 2 | 0 | 0 | 0 | 0 |
| 59 | 5I | 2 | 0 | 0 | 0 | 0 |
| 59 | 62 | 3 | 0 | 0 | 0 | 0 |
| 59 | 68 | 2 | 0 | 0 | 0 | 0 |
| 59 | 6A | 1 | 0 | 0 | 0 | 0 |
| 59 | 6I | 3 | 0 | 0 | 0 | 0 |
| 59 | 78 | 8 | 0 | 0 | 1 | 0 |
| 59 | 7A | 6 | 0 | 0 | 0 | 0 |
| 59 | 7I | 1 | 0 | 0 | 0 | 0 |
| 59 | 85 | 1 | 0 | 0 | 0 | 0 |
| 59 | 88 | 8 | 0 | 0 | 0 | 0 |
| 59 | 8E | 3 | 0 | 0 | 0 | 0 |
| 59 | 95 | 1 | 0 | 0 | 0 | 0 |
| 59 | 9A | 2 | 0 | 0 | 1 | 0 |
| 59 | A5 | 1 | 0 | 0 | 0 | 0 |
| 59 | B5 | 1 | 0 | 0 | 0 | 0 |
| 59 | BA | 5 | 0 | 0 | 0 | 0 |
| 59 | C5 | 3 | 0 | 0 | 0 | 0 |
| 59 | C8 | 4 | 0 | 0 | 1 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 59 | D8 | 2 | 0 | 0 | 0 | 0 |
| 59 | F5 | 1 | 0 | 0 | 0 | 0 |
| 59 | F8 | 2 | 0 | 0 | 0 | 0 |
| 59 | G8 | 1 | 0 | 0 | 0 | 0 |
| 59 | H5 | 2 | 0 | 0 | 0 | 0 |
| 59 | I8 | 7 | 0 | 0 | 1 | 0 |
| 59 | J8 | 2 | 0 | 0 | 1 | 0 |
| 59 | K8 | 1 | 0 | 0 | 0 | 0 |
| 59 | L5 | 3 | 0 | 0 | 0 | 0 |
| 59 | L8 | 3 | 0 | 0 | 0 | 0 |
| 59 | M5 | 6 | 0 | 0 | 1 | 0 |
| 59 | P8 | 1 | 0 | 0 | 0 | 0 |
| 59 | Q8 | 8 | 0 | 0 | 1 | 0 |
| All | All | 297904 | 0 | 196675 | 8933 | 0 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 19.

The worst 5 of 8933 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 39:55:3:HIS:NE2 | 59:55:201:HOH:O | 1.77 | 1.14 |
| 49:J8:93:GLU:HG3 | 49:J8:94:LEU:H | 1.01 | 1.12 |
| 26:14:730:C:OP2 | 59:14:3501:HOH:O | 1.68 | 1.11 |
| 19:AI:3:ARG:HE | 19:AI:9:VAL:HG11 | 1.10 | 1.10 |
| 26:14:2822:G:N7 | 59:14:3506:HOH:O | 1.84 | 1.10 |

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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 | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 2 | 12 | 203/256 (79%) | 165 (81%) | 33 (16%) | 5 (2%) | 5 | 25 |
| 2 | 1E | 227/256 (89%) | 187 (82%) | 39 (17%) | 1 (0%) | 34 | 69 |
| 3 | 22 | 191/239 (80%) | 165 (86%) | 25 (13%) | 1 (0%) | 29 | 64 |
| 3 | 2E | 203/239 (85%) | 183 (90%) | 20 (10%) | 0 | 100 | 100 |
| 4 | 32 | 206/209 (99%) | 181 (88%) | 23 (11%) | 2 (1%) | 15 | 48 |
| 4 | 3E | 205/209 (98%) | 191 (93%) | 13 (6%) | 1 (0%) | 29 | 64 |
| 5 | 42 | 147/162 (91%) | 138 (94%) | 9 (6%) | 0 | 100 | 100 |
| 5 | 4E | 147/162 (91%) | 138 (94%) | 8 (5%) | 1 (1%) | 22 | 56 |
| 6 | 52 | 99/101 (98%) | 97 (98%) | 2 (2%) | 0 | 100 | 100 |
| 6 | 5E | 98/101 (97%) | 92 (94%) | 6 (6%) | 0 | 100 | 100 |
| 7 | 62 | 136/156 (87%) | 123 (90%) | 13 (10%) | 0 | 100 | 100 |
| 7 | 6E | 152/156 (97%) | 144 (95%) | 8 (5%) | 0 | 100 | 100 |
| 8 | 72 | 135/138 (98%) | 123 (91%) | 9 (7%) | 3 (2%) | 6 | 28 |
| 8 | 7E | 136/138 (99%) | 124 (91%) | 10 (7%) | 2 (2%) | 10 | 38 |
| 9 | 82 | 119/128 (93%) | 110 (92%) | 8 (7%) | 1 (1%) | 19 | 53 |
| 9 | 8E | 124/128 (97%) | 106 (86%) | 18 (14%) | 0 | 100 | 100 |
| 10 | 1A | 76/105 (72%) | 72 (95%) | 4 (5%) | 0 | 100 | 100 |
| 10 | 1I | 93/105 (89%) | 84 (90%) | 9 (10%) | 0 | 100 | 100 |
| 11 | 2A | 111/129 (86%) | 101 (91%) | 8 (7%) | 2 (2%) | 8 | 33 |
| 11 | 2I | 109/129 (84%) | 98 (90%) | 9 (8%) | 2 (2%) | 8 | 33 |
| 12 | 3A | 120/132 (91%) | 102 (85%) | 14 (12%) | 4 (3%) | 4 | 18 |
| 12 | 3I | 120/132 (91%) | 106 (88%) | 13 (11%) | 1 (1%) | 19 | 53 |
| 13 | 4A | 109/126 (86%) | 91 (84%) | 15 (14%) | 3 (3%) | 5 | 22 |
| 13 | 4I | 117/126 (93%) | 97 (83%) | 20 (17%) | 0 | 100 | 100 |
| 14 | 5A | 57/61 (93%) | 47 (82%) | 9 (16%) | 1 (2%) | 8 | 33 |
| 14 | 5I | 58/61 (95%) | 48 (83%) | 8 (14%) | 2 (3%) | 3 | 17 |
| 15 | 6A | 85/89 (96%) | 81 (95%) | 4 (5%) | 0 | 100 | 100 |
| 15 | 6I | 85/89 (96%) | 77 (91%) | 8 (9%) | 0 | 100 | 100 |
| 16 | 7A | 82/88 (93%) | 74 (90%) | 8 (10%) | 0 | 100 | 100 |
| 16 | 7I | 81/88 (92%) | 77 (95%) | 4 (5%) | 0 | 100 | 100 |
| 17 | 8A | 97/105 (92%) | 90 (93%) | 7 (7%) | 0 | 100 | 100 |
| 17 | 8I | 98/105 (93%) | 92 (94%) | 5 (5%) | 1 (1%) | 15 | 48 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 18 | 9A | 65/88 (74%) | 64 (98%) | 1 (2%) | 0 | 100 | 100 |
| 18 | 9I | 66/88 (75%) | 61 (92%) | 4 (6%) | 1 (2%) | 10 | 38 |
| 19 | AA | 56/93 (60%) | 48 (86%) | 6 (11%) | 2 (4%) | 3 | 16 |
| 19 | AI | 80/93 (86%) | 68 (85%) | 8 (10%) | 4 (5%) | 2 | 10 |
| 20 | BA | 97/106 (92%) | 79 (81%) | 15 (16%) | 3 (3%) | 4 | 19 |
| 20 | BI | 95/106 (90%) | 84 (88%) | 11 (12%) | 0 | 100 | 100 |
| 21 | 1B | 20/27 (74%) | 19 (95%) | 1 (5%) | 0 | 100 | 100 |
| 21 | 1F | 21/27 (78%) | 20 (95%) | 1 (5%) | 0 | 100 | 100 |
| 28 | 71 | 129/229 (56%) | 122 (95%) | 7 (5%) | 0 | 100 | 100 |
| 28 | 79 | 45/229 (20%) | 43 (96%) | 2 (4%) | 0 | 100 | 100 |
| 29 | 11 | 271/276 (98%) | 237 (88%) | 25 (9%) | 9 (3%) | 4 | 18 |
| 29 | 19 | 272/276 (99%) | 240 (88%) | 25 (9%) | 7 (3%) | 5 | 24 |
| 30 | 21 | 201/206 (98%) | 155 (77%) | 37 (18%) | 9 (4%) | 2 | 12 |
| 30 | 29 | 202/206 (98%) | 152 (75%) | 37 (18%) | 13 (6%) | 1 | 5 |
| 31 | 31 | 200/210 (95%) | 181 (90%) | 19 (10%) | 0 | 100 | 100 |
| 31 | 39 | 202/210 (96%) | 155 (77%) | 40 (20%) | 7 (4%) | 3 | 17 |
| 32 | 41 | 177/182 (97%) | 156 (88%) | 19 (11%) | 2 (1%) | 14 | 46 |
| 32 | 49 | 179/182 (98%) | 155 (87%) | 22 (12%) | 2 (1%) | 14 | 46 |
| 33 | 51 | 172/180 (96%) | 142 (83%) | 20 (12%) | 10 (6%) | 1 | 7 |
| 33 | 59 | 64/180 (36%) | 48 (75%) | 13 (20%) | 3 (5%) | 2 | 11 |
| 34 | 61 | 144/148 (97%) | 116 (81%) | 25 (17%) | 3 (2%) | 7 | 29 |
| 34 | 69 | 143/148 (97%) | 115 (80%) | 24 (17%) | 4 (3%) | 5 | 22 |
| 35 | 15 | 136/140 (97%) | 121 (89%) | 14 (10%) | 1 (1%) | 22 | 56 |
| 35 | 58 | 135/140 (96%) | 115 (85%) | 15 (11%) | 5 (4%) | 3 | 15 |
| 36 | 25 | 120/122 (98%) | 110 (92%) | 9 (8%) | 1 (1%) | 19 | 53 |
| 36 | 68 | 120/122 (98%) | 111 (92%) | 9 (8%) | 0 | 100 | 100 |
| 37 | 35 | 145/150 (97%) | 118 (81%) | 26 (18%) | 1 (1%) | 22 | 56 |
| 37 | 78 | 145/150 (97%) | 114 (79%) | 21 (14%) | 10 (7%) | 1 | 4 |
| 38 | 45 | 137/141 (97%) | 111 (81%) | 23 (17%) | 3 (2%) | 6 | 28 |
| 38 | 88 | 139/141 (99%) | 116 (84%) | 16 (12%) | 7 (5%) | 2 | 10 |
| 39 | 55 | 116/118 (98%) | 110 (95%) | 5 (4%) | 1 (1%) | 17 | 51 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 39 | 98 | 116/118 (98%) | 99 (85%) | 15 (13%) | 2 (2%) | 9 | 34 |
| 40 | 65 | 108/112 (96%) | 89 (82%) | 16 (15%) | 3 (3%) | 5 | 22 |
| 40 | A8 | 109/112 (97%) | 89 (82%) | 20 (18%) | 0 | 100 | 100 |
| 41 | 75 | 131/146 (90%) | 118 (90%) | 11 (8%) | 2 (2%) | 10 | 38 |
| 41 | B8 | 134/146 (92%) | 119 (89%) | 14 (10%) | 1 (1%) | 22 | 56 |
| 42 | 85 | 114/118 (97%) | 102 (90%) | 9 (8%) | 3 (3%) | 5 | 24 |
| 42 | C8 | 113/118 (96%) | 102 (90%) | 8 (7%) | 3 (3%) | 5 | 23 |
| 43 | 95 | 98/101 (97%) | 80 (82%) | 15 (15%) | 3 (3%) | 4 | 19 |
| 43 | D8 | 98/101 (97%) | 87 (89%) | 8 (8%) | 3 (3%) | 4 | 19 |
| 44 | A5 | 109/113 (96%) | 101 (93%) | 7 (6%) | 1 (1%) | 17 | 51 |
| 44 | E8 | 108/113 (96%) | 100 (93%) | 7 (6%) | 1 (1%) | 17 | 51 |
| 45 | B5 | 92/96 (96%) | 83 (90%) | 6 (6%) | 3 (3%) | 4 | 18 |
| 45 | F8 | 93/96 (97%) | 85 (91%) | 8 (9%) | 0 | 100 | 100 |
| 46 | C5 | 102/110 (93%) | 75 (74%) | 20 (20%) | 7 (7%) | 1 | 4 |
| 46 | G8 | 101/110 (92%) | 82 (81%) | 13 (13%) | 6 (6%) | 1 | 7 |
| 47 | D5 | 127/206 (62%) | 98 (77%) | 26 (20%) | 3 (2%) | 6 | 26 |
| 47 | H8 | 168/206 (82%) | 136 (81%) | 26 (16%) | 6 (4%) | 3 | 16 |
| 48 | E5 | 74/85 (87%) | 65 (88%) | 7 (10%) | 2 (3%) | 5 | 23 |
| 48 | I8 | 75/85 (88%) | 67 (89%) | 7 (9%) | 1 (1%) | 12 | 41 |
| 49 | F5 | 92/98 (94%) | 78 (85%) | 12 (13%) | 2 (2%) | 6 | 28 |
| 49 | J8 | 92/98 (94%) | 86 (94%) | 5 (5%) | 1 (1%) | 14 | 46 |
| 50 | G5 | 67/72 (93%) | 61 (91%) | 4 (6%) | 2 (3%) | 4 | 20 |
| 50 | K8 | 66/72 (92%) | 60 (91%) | 3 (4%) | 3 (4%) | 2 | 12 |
| 51 | H5 | 56/60 (93%) | 52 (93%) | 4 (7%) | 0 | 100 | 100 |
| 51 | L8 | 56/60 (93%) | 53 (95%) | 3 (5%) | 0 | 100 | 100 |
| 52 | M8 | 47/71 (66%) | 28 (60%) | 17 (36%) | 2 (4%) | 2 | 12 |
| 53 | J5 | 54/60 (90%) | 49 (91%) | 5 (9%) | 0 | 100 | 100 |
| 53 | N8 | 46/60 (77%) | 44 (96%) | 2 (4%) | 0 | 100 | 100 |
| 54 | L5 | 45/49 (92%) | 42 (93%) | 3 (7%) | 0 | 100 | 100 |
| 54 | P8 | 45/49 (92%) | 40 (89%) | 4 (9%) | 1 (2%) | 6 | 28 |
| 55 | M5 | 62/65 (95%) | 51 (82%) | 10 (16%) | 1 (2%) | 9 | 36 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-------------------|------------|------------|----------|-------------|----|
| 55 | Q8 | 62/65 (95%) | 53 (86%) | 6 (10%) | 3 (5%) | 2 | 11 |
| All | All | 10980/12333 (89%) | 9564 (87%) | 1210 (11%) | 206 (2%) | 8 | 32 |

5 of 206 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 12 | 3I | 48 | PRO |
| 14 | 5I | 13 | THR |
| 19 | AI | 9 | VAL |
| 19 | AI | 41 | VAL |
| 29 | 11 | 28 | GLU |

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 | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 2 | 12 | 179/220 (81%) | 148 (83%) | 31 (17%) | 2 | 8 |
| 2 | 1E | 200/220 (91%) | 152 (76%) | 48 (24%) | 0 | 2 |
| 3 | 22 | 154/188 (82%) | 122 (79%) | 32 (21%) | 1 | 4 |
| 3 | 2E | 159/188 (85%) | 123 (77%) | 36 (23%) | 1 | 3 |
| 4 | 32 | 180/181 (99%) | 142 (79%) | 38 (21%) | 1 | 4 |
| 4 | 3E | 180/181 (99%) | 140 (78%) | 40 (22%) | 1 | 3 |
| 5 | 42 | 114/123 (93%) | 91 (80%) | 23 (20%) | 1 | 5 |
| 5 | 4E | 115/123 (94%) | 94 (82%) | 21 (18%) | 1 | 7 |
| 6 | 52 | 90/90 (100%) | 69 (77%) | 21 (23%) | 1 | 3 |
| 6 | 5E | 90/90 (100%) | 70 (78%) | 20 (22%) | 1 | 3 |
| 7 | 62 | 114/127 (90%) | 91 (80%) | 23 (20%) | 1 | 5 |
| 7 | 6E | 125/127 (98%) | 107 (86%) | 18 (14%) | 3 | 13 |
| 8 | 72 | 118/119 (99%) | 96 (81%) | 22 (19%) | 1 | 7 |
| 8 | 7E | 119/119 (100%) | 90 (76%) | 29 (24%) | 0 | 2 |
| 9 | 82 | 92/99 (93%) | 74 (80%) | 18 (20%) | 1 | 6 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|-------------|----|
| 9 | 8E | 97/99 (98%) | 76 (78%) | 21 (22%) | 1 | 4 |
| 10 | 1A | 71/92 (77%) | 59 (83%) | 12 (17%) | 2 | 9 |
| 10 | 1I | 81/92 (88%) | 69 (85%) | 12 (15%) | 3 | 12 |
| 11 | 2A | 85/99 (86%) | 70 (82%) | 15 (18%) | 2 | 8 |
| 11 | 2I | 84/99 (85%) | 65 (77%) | 19 (23%) | 1 | 3 |
| 12 | 3A | 103/109 (94%) | 77 (75%) | 26 (25%) | 0 | 2 |
| 12 | 3I | 103/109 (94%) | 83 (81%) | 20 (19%) | 1 | 6 |
| 13 | 4A | 91/101 (90%) | 66 (72%) | 25 (28%) | 0 | 1 |
| 13 | 4I | 94/101 (93%) | 74 (79%) | 20 (21%) | 1 | 4 |
| 14 | 5A | 49/50 (98%) | 38 (78%) | 11 (22%) | 1 | 3 |
| 14 | 5I | 49/50 (98%) | 39 (80%) | 10 (20%) | 1 | 5 |
| 15 | 6A | 79/80 (99%) | 67 (85%) | 12 (15%) | 3 | 12 |
| 15 | 6I | 79/80 (99%) | 65 (82%) | 14 (18%) | 2 | 8 |
| 16 | 7A | 72/74 (97%) | 56 (78%) | 16 (22%) | 1 | 3 |
| 16 | 7I | 72/74 (97%) | 57 (79%) | 15 (21%) | 1 | 4 |
| 17 | 8A | 94/97 (97%) | 82 (87%) | 12 (13%) | 4 | 17 |
| 17 | 8I | 95/97 (98%) | 78 (82%) | 17 (18%) | 2 | 7 |
| 18 | 9A | 58/77 (75%) | 44 (76%) | 14 (24%) | 0 | 2 |
| 18 | 9I | 58/77 (75%) | 47 (81%) | 11 (19%) | 1 | 6 |
| 19 | AA | 52/80 (65%) | 41 (79%) | 11 (21%) | 1 | 4 |
| 19 | AI | 72/80 (90%) | 59 (82%) | 13 (18%) | 1 | 7 |
| 20 | BA | 76/82 (93%) | 63 (83%) | 13 (17%) | 2 | 8 |
| 20 | BI | 75/82 (92%) | 61 (81%) | 14 (19%) | 1 | 7 |
| 21 | 1B | 17/22 (77%) | 16 (94%) | 1 (6%) | 19 | 50 |
| 21 | 1F | 18/22 (82%) | 14 (78%) | 4 (22%) | 1 | 3 |
| 28 | 71 | 109/181 (60%) | 87 (80%) | 22 (20%) | 1 | 5 |
| 28 | 79 | 48/181 (26%) | 34 (71%) | 14 (29%) | 0 | 1 |
| 29 | 11 | 214/218 (98%) | 165 (77%) | 49 (23%) | 1 | 3 |
| 29 | 19 | 214/218 (98%) | 167 (78%) | 47 (22%) | 1 | 4 |
| 30 | 21 | 165/166 (99%) | 131 (79%) | 34 (21%) | 1 | 4 |
| 30 | 29 | 165/166 (99%) | 127 (77%) | 38 (23%) | 1 | 3 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|---|
| 31 | 31 | 161/166 (97%) | 127 (79%) | 34 (21%) | 1 | 4 |
| 31 | 39 | 163/166 (98%) | 122 (75%) | 41 (25%) | 0 | 2 |
| 32 | 41 | 153/156 (98%) | 118 (77%) | 35 (23%) | 1 | 3 |
| 32 | 49 | 153/156 (98%) | 120 (78%) | 33 (22%) | 1 | 4 |
| 33 | 51 | 143/148 (97%) | 107 (75%) | 36 (25%) | 0 | 2 |
| 33 | 59 | 56/148 (38%) | 46 (82%) | 10 (18%) | 2 | 7 |
| 34 | 61 | 122/124 (98%) | 87 (71%) | 35 (29%) | 0 | 1 |
| 34 | 69 | 122/124 (98%) | 95 (78%) | 27 (22%) | 1 | 3 |
| 35 | 15 | 117/119 (98%) | 87 (74%) | 30 (26%) | 0 | 2 |
| 35 | 58 | 116/119 (98%) | 87 (75%) | 29 (25%) | 0 | 2 |
| 36 | 25 | 100/100 (100%) | 78 (78%) | 22 (22%) | 1 | 4 |
| 36 | 68 | 100/100 (100%) | 79 (79%) | 21 (21%) | 1 | 4 |
| 37 | 35 | 114/116 (98%) | 83 (73%) | 31 (27%) | 0 | 1 |
| 37 | 78 | 114/116 (98%) | 77 (68%) | 37 (32%) | 0 | 1 |
| 38 | 45 | 109/111 (98%) | 84 (77%) | 25 (23%) | 1 | 3 |
| 38 | 88 | 110/111 (99%) | 91 (83%) | 19 (17%) | 2 | 8 |
| 39 | 55 | 101/101 (100%) | 79 (78%) | 22 (22%) | 1 | 4 |
| 39 | 98 | 101/101 (100%) | 73 (72%) | 28 (28%) | 0 | 1 |
| 40 | 65 | 87/88 (99%) | 61 (70%) | 26 (30%) | 0 | 1 |
| 40 | A8 | 87/88 (99%) | 58 (67%) | 29 (33%) | 0 | 1 |
| 41 | 75 | 117/127 (92%) | 83 (71%) | 34 (29%) | 0 | 1 |
| 41 | B8 | 117/127 (92%) | 86 (74%) | 31 (26%) | 0 | 2 |
| 42 | 85 | 93/94 (99%) | 73 (78%) | 20 (22%) | 1 | 4 |
| 42 | C8 | 92/94 (98%) | 73 (79%) | 19 (21%) | 1 | 4 |
| 43 | 95 | 81/82 (99%) | 62 (76%) | 19 (24%) | 1 | 3 |
| 43 | D8 | 82/82 (100%) | 61 (74%) | 21 (26%) | 0 | 2 |
| 44 | A5 | 91/92 (99%) | 70 (77%) | 21 (23%) | 1 | 3 |
| 44 | E8 | 90/92 (98%) | 73 (81%) | 17 (19%) | 1 | 7 |
| 45 | B5 | 74/78 (95%) | 58 (78%) | 16 (22%) | 1 | 4 |
| 45 | F8 | 75/78 (96%) | 62 (83%) | 13 (17%) | 2 | 8 |
| 46 | C5 | 85/91 (93%) | 57 (67%) | 28 (33%) | 0 | 1 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|------------------|------------|------------|-------------|----|
| 46 | G8 | 84/91 (92%) | 63 (75%) | 21 (25%) | 0 | 2 |
| 47 | D5 | 118/179 (66%) | 92 (78%) | 26 (22%) | 1 | 4 |
| 47 | H8 | 151/179 (84%) | 122 (81%) | 29 (19%) | 1 | 6 |
| 48 | E5 | 61/67 (91%) | 55 (90%) | 6 (10%) | 8 | 27 |
| 48 | I8 | 62/67 (92%) | 49 (79%) | 13 (21%) | 1 | 4 |
| 49 | F5 | 79/83 (95%) | 59 (75%) | 20 (25%) | 0 | 2 |
| 49 | J8 | 79/83 (95%) | 65 (82%) | 14 (18%) | 2 | 8 |
| 50 | G5 | 63/67 (94%) | 45 (71%) | 18 (29%) | 0 | 1 |
| 50 | K8 | 64/67 (96%) | 45 (70%) | 19 (30%) | 0 | 1 |
| 51 | H5 | 50/52 (96%) | 38 (76%) | 12 (24%) | 0 | 2 |
| 51 | L8 | 50/52 (96%) | 36 (72%) | 14 (28%) | 0 | 1 |
| 52 | M8 | 42/63 (67%) | 33 (79%) | 9 (21%) | 1 | 4 |
| 53 | J5 | 48/52 (92%) | 36 (75%) | 12 (25%) | 0 | 2 |
| 53 | N8 | 43/52 (83%) | 34 (79%) | 9 (21%) | 1 | 4 |
| 54 | L5 | 38/42 (90%) | 33 (87%) | 5 (13%) | 4 | 16 |
| 54 | P8 | 38/42 (90%) | 31 (82%) | 7 (18%) | 1 | 7 |
| 55 | M5 | 54/55 (98%) | 41 (76%) | 13 (24%) | 0 | 2 |
| 55 | Q8 | 54/55 (98%) | 43 (80%) | 11 (20%) | 1 | 5 |
| All | All | 9272/10193 (91%) | 7223 (78%) | 2049 (22%) | 1 | 3 |

5 of 2049 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 46 | G8 | 84 | ARG |
| 4 | 32 | 155 | LEU |
| 45 | B5 | 23 | GLU |
| 47 | H8 | 129 | SER |
| 54 | P8 | 8 | ASN |

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 30 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 44 | E8 | 60 | ASN |
| 52 | M8 | 47 | GLN |
| 38 | 45 | 123 | HIS |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 47 | H8 | 132 | ASN |
| 2 | 12 | 19 | HIS |

5.3.3 RNA ⓘ

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | 13 | 1493/1519 (98%) | 369 (24%) | 38 (2%) |
| 1 | 1G | 1505/1519 (99%) | 349 (23%) | 37 (2%) |
| 22 | 1K | 68/76 (89%) | 30 (44%) | 5 (7%) |
| 22 | 1L | 64/76 (84%) | 21 (32%) | 4 (6%) |
| 23 | 2K | 76/77 (98%) | 29 (38%) | 1 (1%) |
| 23 | 2L | 76/77 (98%) | 18 (23%) | 2 (2%) |
| 24 | 3K | 67/76 (88%) | 39 (58%) | 4 (5%) |
| 24 | 3L | 69/76 (90%) | 31 (44%) | 2 (2%) |
| 25 | 4K | 19/27 (70%) | 11 (57%) | 2 (10%) |
| 25 | 4L | 18/27 (66%) | 8 (44%) | 2 (11%) |
| 26 | 14 | 2847/2917 (97%) | 762 (26%) | 53 (1%) |
| 26 | 1H | 2878/2917 (98%) | 709 (24%) | 57 (1%) |
| 27 | 16 | 121/122 (99%) | 28 (23%) | 2 (1%) |
| 27 | 1J | 121/122 (99%) | 34 (28%) | 2 (1%) |
| All | All | 9422/9628 (97%) | 2438 (25%) | 211 (2%) |

5 of 2438 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | 13 | 2 | U |
| 1 | 13 | 5 | U |
| 1 | 13 | 6 | G |
| 1 | 13 | 9 | G |
| 1 | 13 | 15 | G |

5 of 211 RNA pucker outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|------|------|
| 26 | 1H | 1992 | G |
| 1 | 1G | 345 | C |
| 26 | 14 | 2319 | G |
| 26 | 1H | 2172 | U |
| 27 | 16 | 44 | G |

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

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|-------|--------------|------|-------------|-------------|------|-------------|
| | | | | | Counts | RMSZ | # $ Z > 2$ | Counts | RMSZ | # $ Z > 2$ |
| 22 | 5MU | 1K | 54 | 22 | 15,22,23 | 2.17 | 3 (20%) | 16,32,35 | 2.10 | 2 (12%) |
| 22 | PSU | 1K | 55 | 22 | 17,21,22 | 1.13 | 1 (5%) | 20,30,33 | 3.40 | 5 (25%) |
| 23 | PSU | 2L | 56 | 23 | 17,21,22 | 1.08 | 1 (5%) | 20,30,33 | 3.52 | 6 (30%) |
| 22 | PSU | 1L | 55 | 22 | 17,21,22 | 1.08 | 1 (5%) | 20,30,33 | 3.76 | 9 (45%) |
| 22 | U8U | 1L | 34 | 25,22 | 17,24,25 | 2.59 | 5 (29%) | 19,34,37 | 1.92 | 3 (15%) |
| 23 | 5MU | 2K | 55 | 23 | 15,22,23 | 2.20 | 3 (20%) | 16,32,35 | 1.80 | 2 (12%) |
| 23 | G7M | 2L | 47 | 23 | 20,26,27 | 5.52 | 7 (35%) | 20,39,42 | 1.98 | 6 (30%) |
| 23 | G7M | 2K | 47 | 23 | 20,26,27 | 5.46 | 7 (35%) | 20,39,42 | 1.98 | 5 (25%) |
| 23 | OMC | 2K | 33 | 23 | 15,22,23 | 1.95 | 5 (33%) | 17,31,34 | 1.38 | 3 (17%) |
| 22 | T6A | 1L | 37 | 22 | 24,34,35 | 2.54 | 4 (16%) | 24,49,52 | 2.75 | 5 (20%) |
| 22 | U8U | 1K | 34 | 25,22 | 17,24,25 | 2.45 | 4 (23%) | 19,34,37 | 1.79 | 3 (15%) |
| 22 | PSU | 1K | 39 | 22 | 17,21,22 | 1.07 | 1 (5%) | 20,30,33 | 3.46 | 6 (30%) |
| 23 | 4SU | 2K | 8 | 23 | 14,21,22 | 3.34 | 2 (14%) | 15,30,33 | 1.01 | 1 (6%) |
| 22 | 5MU | 1L | 54 | 22 | 15,22,23 | 2.14 | 3 (20%) | 16,32,35 | 1.83 | 2 (12%) |
| 22 | PSU | 1L | 39 | 22 | 17,21,22 | 1.10 | 2 (11%) | 20,30,33 | 3.49 | 4 (20%) |
| 23 | OMC | 2L | 33 | 23 | 15,22,23 | 2.01 | 6 (40%) | 17,31,34 | 1.31 | 3 (17%) |
| 23 | PSU | 2K | 56 | 23 | 17,21,22 | 1.31 | 3 (17%) | 20,30,33 | 2.69 | 5 (25%) |
| 22 | T6A | 1K | 37 | 22 | 24,34,35 | 2.52 | 5 (20%) | 24,49,52 | 2.06 | 6 (25%) |
| 23 | 5MU | 2L | 55 | 23 | 15,22,23 | 2.17 | 3 (20%) | 16,32,35 | 1.92 | 2 (12%) |
| 23 | 4SU | 2L | 8 | 23 | 14,21,22 | 3.46 | 2 (14%) | 15,30,33 | 0.88 | 1 (6%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|-------|---------|------------|---------|
| 22 | 5MU | 1K | 54 | 22 | - | 0/5/25/26 | 0/2/2/2 |
| 22 | PSU | 1K | 55 | 22 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | PSU | 2L | 56 | 23 | - | 1/7/25/26 | 0/2/2/2 |
| 22 | PSU | 1L | 55 | 22 | - | 1/7/25/26 | 0/2/2/2 |
| 22 | U8U | 1L | 34 | 25,22 | - | 2/7/28/29 | 0/2/2/2 |
| 23 | 5MU | 2K | 55 | 23 | - | 0/5/25/26 | 0/2/2/2 |
| 23 | G7M | 2L | 47 | 23 | - | 2/3/25/26 | 0/3/3/3 |
| 23 | G7M | 2K | 47 | 23 | - | 0/3/25/26 | 0/3/3/3 |
| 23 | OMC | 2K | 33 | 23 | - | 1/7/27/28 | 0/2/2/2 |
| 22 | T6A | 1L | 37 | 22 | - | 2/15/41/42 | 0/3/3/3 |
| 22 | U8U | 1K | 34 | 25,22 | - | 0/7/28/29 | 0/2/2/2 |
| 22 | PSU | 1K | 39 | 22 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | 4SU | 2K | 8 | 23 | - | 0/5/25/26 | 0/2/2/2 |
| 22 | 5MU | 1L | 54 | 22 | - | 0/5/25/26 | 0/2/2/2 |
| 22 | PSU | 1L | 39 | 22 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | OMC | 2L | 33 | 23 | - | 1/7/27/28 | 0/2/2/2 |
| 23 | PSU | 2K | 56 | 23 | - | 1/7/25/26 | 0/2/2/2 |
| 22 | T6A | 1K | 37 | 22 | - | 2/15/41/42 | 0/3/3/3 |
| 23 | 5MU | 2L | 55 | 23 | - | 0/5/25/26 | 0/2/2/2 |
| 23 | 4SU | 2L | 8 | 23 | - | 0/5/25/26 | 0/2/2/2 |

The worst 5 of 68 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|--------|-------------|----------|
| 23 | 2L | 47 | G7M | C8-N7 | 17.55 | 1.65 | 1.33 |
| 23 | 2K | 47 | G7M | C8-N7 | 17.13 | 1.64 | 1.33 |
| 23 | 2K | 47 | G7M | C5-C4 | -11.84 | 1.23 | 1.39 |
| 23 | 2L | 47 | G7M | C5-C4 | -11.51 | 1.23 | 1.39 |
| 23 | 2K | 8 | 4SU | C5-C4 | 10.43 | 1.50 | 1.38 |

The worst 5 of 79 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|----------|--------|-------------|----------|
| 22 | 1L | 55 | PSU | N1-C2-N3 | -12.56 | 118.44 | 128.43 |
| 22 | 1K | 39 | PSU | N1-C2-N3 | -12.46 | 118.53 | 128.43 |
| 22 | 1L | 39 | PSU | N1-C2-N3 | -12.44 | 118.54 | 128.43 |
| 23 | 2L | 56 | PSU | N1-C2-N3 | -11.82 | 119.03 | 128.43 |
| 22 | 1K | 55 | PSU | N1-C2-N3 | -11.07 | 119.63 | 128.43 |

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 22 | 1L | 34 | U8U | O4'-C4'-C5'-O5' |
| 23 | 2K | 33 | OMC | C1'-C2'-O2'-CM2 |
| 23 | 2L | 33 | OMC | C2'-C1'-N1-C6 |
| 22 | 1L | 34 | U8U | C3'-C4'-C5'-O5' |
| 23 | 2L | 47 | G7M | O4'-C4'-C5'-O5' |

There are no ring outliers.

16 monomers are involved in 22 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 22 | 1K | 54 | 5MU | 1 | 0 |
| 22 | 1K | 55 | PSU | 2 | 0 |
| 23 | 2L | 56 | PSU | 2 | 0 |
| 22 | 1L | 55 | PSU | 1 | 0 |
| 22 | 1L | 34 | U8U | 1 | 0 |
| 23 | 2K | 55 | 5MU | 2 | 0 |
| 23 | 2L | 47 | G7M | 2 | 0 |
| 23 | 2K | 47 | G7M | 1 | 0 |
| 23 | 2K | 33 | OMC | 1 | 0 |
| 22 | 1K | 34 | U8U | 3 | 0 |
| 22 | 1L | 54 | 5MU | 1 | 0 |
| 22 | 1L | 39 | PSU | 1 | 0 |
| 23 | 2L | 33 | OMC | 1 | 0 |
| 23 | 2K | 56 | PSU | 1 | 0 |
| 23 | 2L | 55 | 5MU | 2 | 0 |
| 23 | 2L | 8 | 4SU | 1 | 0 |

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1409 ligands modelled in this entry, 1407 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 57 | SF4 | 3E | 301 | 4 | 0,12,12 | 0.00 | - | - | | |
| 57 | SF4 | 32 | 302 | 4 | 0,12,12 | 0.00 | - | - | | |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|---------|----------|---------|
| 57 | SF4 | 3E | 301 | 4 | - | - | 0/6/5/5 |
| 57 | SF4 | 32 | 302 | 4 | - | - | 0/6/5/5 |

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.

1 monomer is involved in 3 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 57 | 32 | 302 | SF4 | 3 | 0 |

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

| Mol | Chain | Number of breaks |
|-----|-------|------------------|
| 25 | 4K | 1 |

All chain breaks are listed below:

| Model | Chain | Residue-1 | Atom-1 | Residue-2 | Atom-2 | Distance (Å) |
|-------|-------|-----------|--------|-----------|--------|--------------|
| 1 | 4K | 25:A | O3' | 26:A | P | 3.07 |

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(Å²) | Q<0.9 |
|-----|-------|-----------------|--------|----------|-----|-----|--------------------|-------|
| 1 | 13 | 1496/1519 (98%) | -0.23 | 4 (0%) | 94 | 87 | 52, 95, 168, 235 | 0 |
| 1 | 1G | 1506/1519 (99%) | -0.26 | 8 (0%) | 91 | 81 | 67, 112, 176, 243 | 0 |
| 2 | 12 | 207/256 (80%) | 0.54 | 20 (9%) | 7 | 4 | 128, 159, 178, 183 | 0 |
| 2 | 1E | 231/256 (90%) | 0.19 | 13 (5%) | 24 | 15 | 108, 138, 168, 172 | 0 |
| 3 | 22 | 195/239 (81%) | 0.92 | 39 (20%) | 1 | 0 | 119, 140, 163, 172 | 0 |
| 3 | 2E | 205/239 (85%) | 0.51 | 13 (6%) | 20 | 11 | 82, 105, 135, 142 | 0 |
| 4 | 32 | 208/209 (99%) | 0.65 | 24 (11%) | 4 | 3 | 92, 113, 135, 140 | 0 |
| 4 | 3E | 207/209 (99%) | 0.22 | 12 (5%) | 23 | 14 | 77, 104, 125, 136 | 0 |
| 5 | 42 | 149/162 (91%) | 0.33 | 6 (4%) | 38 | 25 | 97, 118, 134, 142 | 0 |
| 5 | 4E | 149/162 (91%) | 0.15 | 3 (2%) | 65 | 48 | 76, 96, 115, 122 | 0 |
| 6 | 52 | 101/101 (100%) | -0.06 | 0 | 100 | 100 | 81, 99, 115, 130 | 0 |
| 6 | 5E | 100/101 (99%) | 0.33 | 2 (2%) | 65 | 48 | 76, 97, 116, 122 | 0 |
| 7 | 62 | 140/156 (89%) | 0.94 | 24 (17%) | 1 | 1 | 108, 126, 138, 140 | 0 |
| 7 | 6E | 154/156 (98%) | 1.33 | 38 (24%) | 0 | 0 | 96, 114, 144, 165 | 0 |
| 8 | 72 | 137/138 (99%) | 0.55 | 14 (10%) | 6 | 4 | 95, 123, 136, 143 | 0 |
| 8 | 7E | 138/138 (100%) | 0.93 | 24 (17%) | 1 | 1 | 84, 104, 116, 127 | 0 |
| 9 | 82 | 121/128 (94%) | 1.98 | 51 (42%) | 0 | 0 | 109, 156, 170, 181 | 0 |
| 9 | 8E | 126/128 (98%) | 0.36 | 10 (7%) | 12 | 7 | 80, 133, 153, 158 | 0 |
| 10 | 1A | 80/105 (76%) | 0.97 | 21 (26%) | 0 | 0 | 114, 151, 163, 163 | 0 |
| 10 | 1I | 95/105 (90%) | 1.18 | 25 (26%) | 0 | 0 | 76, 120, 160, 164 | 0 |
| 11 | 2A | 113/129 (87%) | 1.32 | 30 (26%) | 0 | 0 | 78, 106, 120, 129 | 0 |
| 11 | 2I | 111/129 (86%) | 1.39 | 31 (27%) | 0 | 0 | 69, 102, 117, 129 | 0 |
| 12 | 3A | 122/132 (92%) | 1.40 | 36 (29%) | 0 | 0 | 80, 96, 120, 140 | 0 |
| 12 | 3I | 122/132 (92%) | 0.40 | 9 (7%) | 14 | 8 | 61, 72, 100, 126 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 13 | 4A | 111/126 (88%) | 0.71 | 25 (22%) 0 0 | 112, 142, 159, 167 | 0 |
| 13 | 4I | 119/126 (94%) | 0.50 | 9 (7%) 13 7 | 81, 108, 129, 137 | 0 |
| 14 | 5A | 59/61 (96%) | 3.29 | 40 (67%) 0 0 | 124, 137, 150, 154 | 0 |
| 14 | 5I | 60/61 (98%) | 0.88 | 7 (11%) 4 2 | 77, 93, 107, 120 | 0 |
| 15 | 6A | 87/89 (97%) | 0.07 | 1 (1%) 80 65 | 78, 106, 118, 120 | 0 |
| 15 | 6I | 87/89 (97%) | 0.28 | 4 (4%) 32 20 | 73, 92, 109, 116 | 0 |
| 16 | 7A | 84/88 (95%) | 0.14 | 1 (1%) 79 63 | 88, 101, 121, 145 | 0 |
| 16 | 7I | 83/88 (94%) | 1.26 | 17 (20%) 1 0 | 93, 106, 134, 154 | 0 |
| 17 | 8A | 99/105 (94%) | 0.96 | 17 (17%) 1 1 | 90, 105, 120, 124 | 0 |
| 17 | 8I | 100/105 (95%) | 0.73 | 11 (11%) 5 3 | 85, 101, 110, 115 | 0 |
| 18 | 9A | 67/88 (76%) | 0.08 | 1 (1%) 73 57 | 89, 107, 126, 130 | 0 |
| 18 | 9I | 68/88 (77%) | 0.11 | 2 (2%) 51 35 | 83, 102, 124, 127 | 0 |
| 19 | AA | 62/93 (66%) | 0.45 | 5 (8%) 12 6 | 132, 153, 166, 171 | 0 |
| 19 | AI | 82/93 (88%) | 0.25 | 8 (9%) 7 4 | 83, 106, 127, 139 | 0 |
| 20 | BA | 99/106 (93%) | 1.05 | 20 (20%) 1 0 | 84, 104, 131, 142 | 0 |
| 20 | BI | 97/106 (91%) | 1.45 | 27 (27%) 0 0 | 98, 116, 141, 150 | 0 |
| 21 | 1B | 22/27 (81%) | 1.57 | 8 (36%) 0 0 | 118, 127, 133, 141 | 0 |
| 21 | 1F | 23/27 (85%) | 0.65 | 1 (4%) 35 22 | 84, 95, 101, 111 | 0 |
| 22 | 1K | 67/76 (88%) | 0.15 | 4 (5%) 21 13 | 76, 147, 198, 203 | 0 |
| 22 | 1L | 64/76 (84%) | 1.01 | 10 (15%) 2 1 | 108, 196, 215, 219 | 0 |
| 23 | 2K | 72/77 (93%) | -0.13 | 0 100 100 | 64, 86, 118, 128 | 0 |
| 23 | 2L | 72/77 (93%) | -0.01 | 0 100 100 | 73, 105, 137, 148 | 0 |
| 24 | 3K | 70/76 (92%) | 0.90 | 13 (18%) 1 0 | 71, 198, 240, 244 | 0 |
| 24 | 3L | 72/76 (94%) | 0.08 | 2 (2%) 53 36 | 77, 194, 224, 230 | 0 |
| 25 | 4K | 21/27 (77%) | 1.35 | 8 (38%) 0 0 | 67, 124, 208, 209 | 0 |
| 25 | 4L | 19/27 (70%) | 0.91 | 3 (15%) 2 1 | 86, 143, 217, 218 | 0 |
| 26 | 14 | 2855/2917 (97%) | -0.08 | 22 (0%) 86 73 | 45, 78, 200, 265 | 0 |
| 26 | 1H | 2885/2917 (98%) | -0.09 | 9 (0%) 94 87 | 36, 66, 193, 330 | 0 |
| 27 | 16 | 122/122 (100%) | -0.53 | 1 (0%) 86 73 | 57, 82, 103, 188 | 0 |
| 27 | 1J | 122/122 (100%) | -0.55 | 0 100 100 | 78, 110, 130, 191 | 0 |
| 28 | 7I | 133/229 (58%) | 1.05 | 24 (18%) 1 1 | 146, 216, 237, 244 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|---------------|-----------------------|-------|
| 28 | 79 | 57/229 (24%) | 1.79 | 21 (36%) 0 0 | 146, 199, 221, 227 | 0 |
| 29 | 11 | 273/276 (98%) | 0.36 | 2 (0%) 87 76 | 37, 59, 76, 92 | 0 |
| 29 | 19 | 274/276 (99%) | 0.45 | 7 (2%) 56 39 | 46, 69, 87, 106 | 0 |
| 30 | 21 | 203/206 (98%) | 0.60 | 14 (6%) 16 10 | 46, 80, 123, 134 | 0 |
| 30 | 29 | 204/206 (99%) | 0.77 | 29 (14%) 2 1 | 53, 88, 124, 134 | 0 |
| 31 | 31 | 202/210 (96%) | 0.68 | 16 (7%) 12 7 | 43, 72, 107, 128 | 0 |
| 31 | 39 | 204/210 (97%) | 0.40 | 9 (4%) 34 21 | 51, 98, 144, 167 | 0 |
| 32 | 41 | 179/182 (98%) | 0.81 | 25 (13%) 2 1 | 72, 93, 130, 142 | 0 |
| 32 | 49 | 181/182 (99%) | 1.07 | 39 (21%) 0 0 | 106, 125, 148, 166 | 0 |
| 33 | 51 | 174/180 (96%) | 0.09 | 7 (4%) 38 25 | 75, 98, 112, 124 | 0 |
| 33 | 59 | 70/180 (38%) | 0.85 | 13 (18%) 1 0 | 136, 156, 178, 182 | 0 |
| 34 | 61 | 146/148 (98%) | 0.45 | 12 (8%) 11 6 | 73, 123, 144, 151 | 0 |
| 34 | 69 | 145/148 (97%) | 0.52 | 18 (12%) 4 2 | 83, 118, 146, 155 | 0 |
| 35 | 15 | 138/140 (98%) | 1.23 | 32 (23%) 0 0 | 73, 99, 128, 143 | 0 |
| 35 | 58 | 137/140 (97%) | 0.79 | 13 (9%) 8 5 | 61, 83, 118, 132 | 0 |
| 36 | 25 | 122/122 (100%) | 0.97 | 16 (13%) 3 2 | 64, 81, 99, 111 | 0 |
| 36 | 68 | 122/122 (100%) | 0.43 | 1 (0%) 86 73 | 53, 68, 85, 93 | 0 |
| 37 | 35 | 147/150 (98%) | 0.56 | 9 (6%) 21 12 | 52, 95, 126, 140 | 0 |
| 37 | 78 | 147/150 (98%) | 0.37 | 6 (4%) 37 24 | 42, 74, 98, 107 | 0 |
| 38 | 45 | 139/141 (98%) | 0.72 | 18 (12%) 3 2 | 64, 95, 114, 130 | 0 |
| 38 | 88 | 141/141 (100%) | 0.32 | 8 (5%) 23 14 | 49, 70, 92, 112 | 0 |
| 39 | 55 | 118/118 (100%) | 0.55 | 5 (4%) 36 23 | 59, 74, 88, 106 | 0 |
| 39 | 98 | 118/118 (100%) | 1.04 | 20 (16%) 1 1 | 58, 76, 93, 107 | 0 |
| 40 | 65 | 110/112 (98%) | 1.02 | 22 (20%) 1 0 | 82, 104, 124, 131 | 0 |
| 40 | A8 | 111/112 (99%) | 1.00 | 13 (11%) 4 2 | 66, 82, 103, 110 | 0 |
| 41 | 75 | 133/146 (91%) | 0.59 | 9 (6%) 17 10 | 77, 91, 124, 144 | 0 |
| 41 | B8 | 136/146 (93%) | 0.21 | 5 (3%) 41 27 | 64, 83, 122, 132 | 0 |
| 42 | 85 | 116/118 (98%) | 0.51 | 5 (4%) 35 22 | 60, 87, 118, 120 | 0 |
| 42 | C8 | 115/118 (97%) | 0.40 | 3 (2%) 56 39 | 50, 73, 102, 109 | 0 |
| 43 | 95 | 100/101 (99%) | 0.84 | 16 (16%) 1 1 | 58, 109, 127, 135 | 0 |
| 43 | D8 | 100/101 (99%) | 0.92 | 14 (14%) 2 1 | 52, 96, 116, 127 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-------------------|--------|-----------------|-----------------------|-------|
| 44 | A5 | 111/113 (98%) | 0.67 | 6 (5%) 25 16 | 55, 70, 94, 135 | 0 |
| 44 | E8 | 110/113 (97%) | 0.50 | 6 (5%) 25 15 | 51, 67, 91, 104 | 0 |
| 45 | B5 | 94/96 (97%) | 0.81 | 11 (11%) 4 2 | 62, 78, 98, 110 | 0 |
| 45 | F8 | 95/96 (98%) | 0.09 | 1 (1%) 80 65 | 47, 63, 90, 97 | 0 |
| 46 | C5 | 104/110 (94%) | 1.83 | 32 (30%) 0 0 | 85, 113, 147, 155 | 0 |
| 46 | G8 | 103/110 (93%) | 0.34 | 5 (4%) 29 18 | 66, 88, 118, 129 | 0 |
| 47 | D5 | 133/206 (64%) | 0.96 | 22 (16%) 1 1 | 102, 130, 153, 163 | 0 |
| 47 | H8 | 170/206 (82%) | 1.10 | 31 (18%) 1 1 | 76, 111, 188, 193 | 0 |
| 48 | E5 | 76/85 (89%) | 0.95 | 11 (14%) 2 1 | 56, 83, 96, 104 | 0 |
| 48 | I8 | 77/85 (90%) | 0.59 | 6 (7%) 13 7 | 45, 65, 78, 93 | 0 |
| 49 | F5 | 94/98 (95%) | 1.05 | 18 (19%) 1 0 | 59, 76, 106, 129 | 0 |
| 49 | J8 | 94/98 (95%) | 0.66 | 6 (6%) 19 11 | 46, 67, 110, 116 | 0 |
| 50 | G5 | 69/72 (95%) | 0.36 | 4 (5%) 23 14 | 77, 96, 116, 124 | 0 |
| 50 | K8 | 68/72 (94%) | -0.02 | 1 (1%) 73 57 | 54, 72, 92, 114 | 0 |
| 51 | H5 | 58/60 (96%) | 1.84 | 24 (41%) 0 0 | 70, 90, 116, 124 | 0 |
| 51 | L8 | 58/60 (96%) | 0.49 | 3 (5%) 27 17 | 55, 74, 99, 111 | 0 |
| 52 | M8 | 49/71 (69%) | 1.67 | 15 (30%) 0 0 | 94, 136, 150, 166 | 0 |
| 53 | J5 | 56/60 (93%) | 0.63 | 5 (8%) 9 5 | 52, 77, 126, 137 | 0 |
| 53 | N8 | 48/60 (80%) | 0.48 | 2 (4%) 36 23 | 44, 77, 124, 127 | 0 |
| 54 | L5 | 47/49 (95%) | 0.16 | 1 (2%) 63 46 | 44, 55, 77, 97 | 0 |
| 54 | P8 | 47/49 (95%) | -0.00 | 0 100 100 | 40, 46, 68, 76 | 0 |
| 55 | M5 | 64/65 (98%) | 1.05 | 9 (14%) 2 1 | 62, 73, 88, 112 | 0 |
| 55 | Q8 | 64/65 (98%) | 0.42 | 3 (4%) 31 20 | 47, 60, 76, 88 | 0 |
| All | All | 20647/21961 (94%) | 0.32 | 1406 (6%) 17 10 | 36, 93, 171, 330 | 0 |

The worst 5 of 1406 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|------|------|------|
| 46 | C5 | 58 | GLY | 12.3 |
| 26 | 14 | 2902 | C | 12.1 |
| 26 | 14 | 2901 | C | 11.2 |
| 43 | D8 | 37 | VAL | 10.9 |
| 40 | A8 | 110 | LEU | 10.1 |

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|-----|-------|------|------|----------------------------|-------|
| 22 | PSU | 1L | 55 | 20/21 | 0.84 | 0.13 | 113,126,140,141 | 0 |
| 22 | PSU | 1K | 55 | 20/21 | 0.89 | 0.12 | 95,109,120,124 | 0 |
| 22 | PSU | 1L | 39 | 20/21 | 0.89 | 0.23 | 88,116,127,129 | 0 |
| 22 | 5MU | 1L | 54 | 21/22 | 0.90 | 0.12 | 113,125,134,142 | 0 |
| 22 | 5MU | 1K | 54 | 21/22 | 0.91 | 0.14 | 93,106,119,128 | 0 |
| 22 | T6A | 1L | 37 | 32/33 | 0.93 | 0.21 | 91,110,116,118 | 0 |
| 23 | PSU | 2L | 56 | 20/21 | 0.93 | 0.10 | 98,105,111,115 | 0 |
| 22 | U8U | 1L | 34 | 23/24 | 0.93 | 0.18 | 102,117,122,124 | 0 |
| 23 | PSU | 2K | 56 | 20/21 | 0.93 | 0.10 | 86,90,100,104 | 0 |
| 22 | PSU | 1K | 39 | 20/21 | 0.94 | 0.15 | 74,91,100,100 | 0 |
| 23 | G7M | 2L | 47 | 24/25 | 0.94 | 0.13 | 110,117,123,127 | 0 |
| 23 | 5MU | 2L | 55 | 21/22 | 0.94 | 0.12 | 99,108,115,124 | 0 |
| 23 | 4SU | 2L | 8 | 20/21 | 0.95 | 0.15 | 94,104,108,112 | 0 |
| 23 | OMC | 2L | 33 | 21/22 | 0.96 | 0.13 | 88,93,99,103 | 0 |
| 23 | G7M | 2K | 47 | 24/25 | 0.96 | 0.13 | 86,95,107,113 | 0 |
| 22 | T6A | 1K | 37 | 32/33 | 0.96 | 0.16 | 58,79,98,99 | 0 |
| 23 | 5MU | 2K | 55 | 21/22 | 0.96 | 0.12 | 89,95,100,103 | 0 |
| 22 | U8U | 1K | 34 | 23/24 | 0.96 | 0.15 | 76,81,86,100 | 0 |
| 23 | 4SU | 2K | 8 | 20/21 | 0.97 | 0.14 | 75,83,88,90 | 0 |
| 23 | OMC | 2K | 33 | 21/22 | 0.97 | 0.21 | 67,74,78,82 | 0 |

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1H | 3345 | 1/1 | 0.19 | 0.12 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3156 | 1/1 | 0.39 | 0.34 | 55,55,55,55 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1G | 1661 | 1/1 | 0.42 | 0.68 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3445 | 1/1 | 0.46 | 0.11 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3447 | 1/1 | 0.46 | 0.18 | 116,116,116,116 | 0 |
| 56 | MG | 14 | 3118 | 1/1 | 0.47 | 0.31 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3557 | 1/1 | 0.47 | 0.12 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3431 | 1/1 | 0.48 | 0.21 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1730 | 1/1 | 0.50 | 0.22 | 102,102,102,102 | 0 |
| 56 | MG | 13 | 1679 | 1/1 | 0.51 | 0.32 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1760 | 1/1 | 0.51 | 0.05 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3219 | 1/1 | 0.51 | 0.18 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3465 | 1/1 | 0.52 | 0.13 | 85,85,85,85 | 0 |
| 56 | MG | 13 | 1744 | 1/1 | 0.52 | 0.10 | 111,111,111,111 | 0 |
| 56 | MG | 1G | 1656 | 1/1 | 0.52 | 0.83 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3479 | 1/1 | 0.53 | 0.16 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3549 | 1/1 | 0.53 | 0.15 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3192 | 1/1 | 0.53 | 0.36 | 81,81,81,81 | 0 |
| 56 | MG | 35 | 203 | 1/1 | 0.54 | 0.16 | 83,83,83,83 | 0 |
| 56 | MG | 4K | 101 | 1/1 | 0.54 | 0.68 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3251 | 1/1 | 0.55 | 0.25 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1756 | 1/1 | 0.55 | 0.07 | 120,120,120,120 | 0 |
| 56 | MG | 13 | 1655 | 1/1 | 0.56 | 0.27 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1759 | 1/1 | 0.56 | 0.06 | 118,118,118,118 | 0 |
| 56 | MG | 1H | 3524 | 1/1 | 0.58 | 0.12 | 96,96,96,96 | 0 |
| 56 | MG | 13 | 1752 | 1/1 | 0.59 | 0.14 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3533 | 1/1 | 0.59 | 0.17 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3012 | 1/1 | 0.59 | 0.20 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3211 | 1/1 | 0.59 | 0.17 | 90,90,90,90 | 0 |
| 56 | MG | 1J | 206 | 1/1 | 0.61 | 0.14 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1617 | 1/1 | 0.61 | 0.88 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3141 | 1/1 | 0.61 | 0.66 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3301 | 1/1 | 0.61 | 0.08 | 111,111,111,111 | 0 |
| 56 | MG | 13 | 1627 | 1/1 | 0.61 | 0.37 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3257 | 1/1 | 0.61 | 0.27 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3157 | 1/1 | 0.61 | 0.18 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3298 | 1/1 | 0.62 | 0.21 | 105,105,105,105 | 0 |
| 56 | MG | L8 | 101 | 1/1 | 0.62 | 0.39 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1758 | 1/1 | 0.62 | 0.06 | 137,137,137,137 | 0 |
| 56 | MG | 14 | 3200 | 1/1 | 0.62 | 0.47 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3210 | 1/1 | 0.62 | 0.34 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3473 | 1/1 | 0.62 | 0.15 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3169 | 1/1 | 0.63 | 0.21 | 111,111,111,111 | 0 |
| 56 | MG | 1G | 1645 | 1/1 | 0.63 | 0.13 | 113,113,113,113 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3190 | 1/1 | 0.63 | 0.27 | 81,81,81,81 | 0 |
| 56 | MG | 2K | 101 | 1/1 | 0.64 | 0.22 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3085 | 1/1 | 0.64 | 0.11 | 85,85,85,85 | 0 |
| 56 | MG | 13 | 1747 | 1/1 | 0.64 | 0.10 | 107,107,107,107 | 0 |
| 56 | MG | 1J | 207 | 1/1 | 0.64 | 0.07 | 88,88,88,88 | 0 |
| 56 | MG | 16 | 203 | 1/1 | 0.64 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3454 | 1/1 | 0.65 | 0.22 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3177 | 1/1 | 0.65 | 0.21 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3111 | 1/1 | 0.66 | 0.33 | 73,73,73,73 | 0 |
| 56 | MG | 1G | 1614 | 1/1 | 0.66 | 0.32 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3239 | 1/1 | 0.66 | 0.39 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3194 | 1/1 | 0.66 | 0.48 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3417 | 1/1 | 0.66 | 0.09 | 116,116,116,116 | 0 |
| 56 | MG | 14 | 3393 | 1/1 | 0.66 | 0.07 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3411 | 1/1 | 0.66 | 0.12 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3440 | 1/1 | 0.66 | 0.10 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3214 | 1/1 | 0.66 | 0.32 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3142 | 1/1 | 0.66 | 0.16 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3464 | 1/1 | 0.67 | 0.13 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3547 | 1/1 | 0.67 | 0.11 | 91,91,91,91 | 0 |
| 56 | MG | P8 | 101 | 1/1 | 0.67 | 0.51 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3176 | 1/1 | 0.67 | 0.38 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3299 | 1/1 | 0.67 | 0.06 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3562 | 1/1 | 0.67 | 0.12 | 69,69,69,69 | 0 |
| 56 | MG | 1G | 1698 | 1/1 | 0.68 | 0.06 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3158 | 1/1 | 0.68 | 0.32 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3179 | 1/1 | 0.68 | 0.26 | 92,92,92,92 | 0 |
| 56 | MG | 42 | 202 | 1/1 | 0.68 | 0.24 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3270 | 1/1 | 0.68 | 0.46 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3128 | 1/1 | 0.68 | 0.27 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3501 | 1/1 | 0.69 | 0.10 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3099 | 1/1 | 0.69 | 0.39 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3199 | 1/1 | 0.69 | 0.31 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1713 | 1/1 | 0.69 | 0.12 | 112,112,112,112 | 0 |
| 56 | MG | 1H | 3076 | 1/1 | 0.69 | 0.81 | 60,60,60,60 | 0 |
| 56 | MG | 1G | 1719 | 1/1 | 0.70 | 0.10 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3432 | 1/1 | 0.70 | 0.20 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3137 | 1/1 | 0.70 | 0.35 | 70,70,70,70 | 0 |
| 56 | MG | 1G | 1722 | 1/1 | 0.70 | 0.07 | 102,102,102,102 | 0 |
| 56 | MG | 1G | 1641 | 1/1 | 0.70 | 0.72 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3421 | 1/1 | 0.70 | 0.12 | 98,98,98,98 | 0 |
| 56 | MG | 1G | 1631 | 1/1 | 0.70 | 0.12 | 99,99,99,99 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3400 | 1/1 | 0.70 | 0.11 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1684 | 1/1 | 0.70 | 0.36 | 71,71,71,71 | 0 |
| 56 | MG | 21 | 302 | 1/1 | 0.70 | 0.42 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3262 | 1/1 | 0.71 | 0.31 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3220 | 1/1 | 0.71 | 0.52 | 71,71,71,71 | 0 |
| 56 | MG | 1G | 1708 | 1/1 | 0.71 | 0.07 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3171 | 1/1 | 0.71 | 0.22 | 84,84,84,84 | 0 |
| 56 | MG | 1G | 1637 | 1/1 | 0.71 | 0.41 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3191 | 1/1 | 0.71 | 0.20 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3254 | 1/1 | 0.71 | 0.33 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3028 | 1/1 | 0.72 | 0.72 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3027 | 1/1 | 0.72 | 0.17 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3096 | 1/1 | 0.72 | 0.42 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3015 | 1/1 | 0.72 | 0.95 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1672 | 1/1 | 0.72 | 0.35 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3231 | 1/1 | 0.72 | 0.14 | 106,106,106,106 | 0 |
| 56 | MG | 14 | 3161 | 1/1 | 0.72 | 1.21 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3143 | 1/1 | 0.72 | 0.36 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3193 | 1/1 | 0.72 | 0.15 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3468 | 1/1 | 0.72 | 0.11 | 68,68,68,68 | 0 |
| 56 | MG | 16 | 201 | 1/1 | 0.73 | 0.17 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3216 | 1/1 | 0.73 | 0.42 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3189 | 1/1 | 0.73 | 0.62 | 60,60,60,60 | 0 |
| 56 | MG | 1G | 1668 | 1/1 | 0.73 | 0.69 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3181 | 1/1 | 0.73 | 0.42 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3270 | 1/1 | 0.73 | 0.12 | 80,80,80,80 | 0 |
| 56 | MG | 1G | 1695 | 1/1 | 0.73 | 0.14 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3188 | 1/1 | 0.73 | 0.23 | 69,69,69,69 | 0 |
| 56 | MG | 13 | 1734 | 1/1 | 0.74 | 0.13 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3159 | 1/1 | 0.74 | 0.28 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3279 | 1/1 | 0.74 | 0.28 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3244 | 1/1 | 0.74 | 0.31 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3140 | 1/1 | 0.74 | 0.30 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3455 | 1/1 | 0.74 | 0.19 | 76,76,76,76 | 0 |
| 56 | MG | 13 | 1628 | 1/1 | 0.74 | 0.22 | 89,89,89,89 | 0 |
| 56 | MG | 13 | 1616 | 1/1 | 0.75 | 0.49 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3168 | 1/1 | 0.75 | 0.54 | 75,75,75,75 | 0 |
| 56 | MG | 13 | 1663 | 1/1 | 0.75 | 0.22 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1644 | 1/1 | 0.75 | 0.15 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3222 | 1/1 | 0.75 | 0.35 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1652 | 1/1 | 0.75 | 0.31 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3293 | 1/1 | 0.75 | 0.12 | 94,94,94,94 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1645 | 1/1 | 0.75 | 0.15 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3568 | 1/1 | 0.75 | 0.17 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3169 | 1/1 | 0.75 | 0.65 | 81,81,81,81 | 0 |
| 56 | MG | 1G | 1655 | 1/1 | 0.75 | 0.27 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3234 | 1/1 | 0.75 | 0.57 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3375 | 1/1 | 0.76 | 0.16 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3191 | 1/1 | 0.76 | 0.24 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3131 | 1/1 | 0.76 | 0.53 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3068 | 1/1 | 0.76 | 0.31 | 50,50,50,50 | 0 |
| 56 | MG | 1G | 1667 | 1/1 | 0.76 | 0.24 | 97,97,97,97 | 0 |
| 56 | MG | 14 | 3149 | 1/1 | 0.76 | 0.78 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3418 | 1/1 | 0.76 | 0.15 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3462 | 1/1 | 0.76 | 0.17 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3546 | 1/1 | 0.76 | 0.12 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3440 | 1/1 | 0.76 | 0.13 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1725 | 1/1 | 0.76 | 0.07 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3451 | 1/1 | 0.76 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3110 | 1/1 | 0.76 | 0.35 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3201 | 1/1 | 0.76 | 0.61 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3448 | 1/1 | 0.76 | 0.11 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3016 | 1/1 | 0.76 | 0.28 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3109 | 1/1 | 0.77 | 0.25 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1673 | 1/1 | 0.77 | 0.17 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3240 | 1/1 | 0.77 | 0.18 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3217 | 1/1 | 0.77 | 0.15 | 61,61,61,61 | 0 |
| 56 | MG | 1G | 1694 | 1/1 | 0.77 | 0.12 | 103,103,103,103 | 0 |
| 56 | MG | 1H | 3214 | 1/1 | 0.77 | 0.57 | 83,83,83,83 | 0 |
| 56 | MG | 13 | 1667 | 1/1 | 0.77 | 0.15 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3112 | 1/1 | 0.77 | 0.28 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3234 | 1/1 | 0.77 | 0.57 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3209 | 1/1 | 0.77 | 0.97 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1719 | 1/1 | 0.77 | 0.12 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3409 | 1/1 | 0.77 | 0.19 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3245 | 1/1 | 0.77 | 0.28 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3164 | 1/1 | 0.77 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3225 | 1/1 | 0.77 | 0.24 | 60,60,60,60 | 0 |
| 56 | MG | 13 | 1643 | 1/1 | 0.77 | 0.57 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3555 | 1/1 | 0.77 | 0.22 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3488 | 1/1 | 0.78 | 0.09 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3405 | 1/1 | 0.78 | 0.12 | 91,91,91,91 | 0 |
| 56 | MG | 1J | 210 | 1/1 | 0.78 | 0.12 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3115 | 1/1 | 0.78 | 0.35 | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3405 | 1/1 | 0.78 | 0.07 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3556 | 1/1 | 0.78 | 0.13 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3173 | 1/1 | 0.78 | 0.25 | 93,93,93,93 | 0 |
| 56 | MG | 13 | 1653 | 1/1 | 0.78 | 0.21 | 80,80,80,80 | 0 |
| 56 | MG | 1J | 202 | 1/1 | 0.78 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 13 | 1743 | 1/1 | 0.78 | 0.07 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3457 | 1/1 | 0.78 | 0.10 | 92,92,92,92 | 0 |
| 56 | MG | 13 | 1638 | 1/1 | 0.78 | 0.26 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3209 | 1/1 | 0.78 | 0.21 | 65,65,65,65 | 0 |
| 56 | MG | 13 | 1661 | 1/1 | 0.78 | 0.51 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3566 | 1/1 | 0.78 | 0.05 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3305 | 1/1 | 0.78 | 0.16 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3134 | 1/1 | 0.79 | 0.14 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3221 | 1/1 | 0.79 | 0.35 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3467 | 1/1 | 0.79 | 0.05 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3133 | 1/1 | 0.79 | 0.35 | 64,64,64,64 | 0 |
| 56 | MG | 13 | 1677 | 1/1 | 0.79 | 0.30 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3081 | 1/1 | 0.79 | 0.44 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3122 | 1/1 | 0.79 | 0.31 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3198 | 1/1 | 0.79 | 0.24 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3487 | 1/1 | 0.79 | 0.08 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3205 | 1/1 | 0.79 | 0.33 | 73,73,73,73 | 0 |
| 56 | MG | 35 | 201 | 1/1 | 0.79 | 0.13 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1687 | 1/1 | 0.79 | 0.19 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3456 | 1/1 | 0.79 | 0.21 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3437 | 1/1 | 0.79 | 0.06 | 115,115,115,115 | 0 |
| 56 | MG | 1H | 3158 | 1/1 | 0.79 | 0.37 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3170 | 1/1 | 0.79 | 0.37 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3153 | 1/1 | 0.79 | 0.28 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3145 | 1/1 | 0.79 | 0.29 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1696 | 1/1 | 0.79 | 0.10 | 107,107,107,107 | 0 |
| 56 | MG | 35 | 202 | 1/1 | 0.79 | 0.30 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3208 | 1/1 | 0.79 | 0.17 | 141,141,141,141 | 0 |
| 56 | MG | 1H | 3230 | 1/1 | 0.79 | 0.42 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3190 | 1/1 | 0.80 | 0.11 | 60,60,60,60 | 0 |
| 56 | MG | 13 | 1631 | 1/1 | 0.80 | 0.26 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1632 | 1/1 | 0.80 | 0.41 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3411 | 1/1 | 0.80 | 0.11 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3471 | 1/1 | 0.80 | 0.15 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3379 | 1/1 | 0.80 | 0.08 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3136 | 1/1 | 0.80 | 1.10 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3047 | 1/1 | 0.80 | 0.44 | 76,76,76,76 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3194 | 1/1 | 0.80 | 0.47 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3148 | 1/1 | 0.80 | 0.34 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3321 | 1/1 | 0.80 | 0.04 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3267 | 1/1 | 0.80 | 0.88 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1675 | 1/1 | 0.80 | 0.14 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3071 | 1/1 | 0.80 | 0.17 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3519 | 1/1 | 0.80 | 0.17 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3253 | 1/1 | 0.80 | 0.38 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3378 | 1/1 | 0.80 | 0.05 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3183 | 1/1 | 0.80 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3152 | 1/1 | 0.80 | 0.28 | 85,85,85,85 | 0 |
| 56 | MG | 16 | 202 | 1/1 | 0.80 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | 1G | 1608 | 1/1 | 0.80 | 0.35 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3238 | 1/1 | 0.80 | 0.51 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3151 | 1/1 | 0.80 | 0.40 | 107,107,107,107 | 0 |
| 56 | MG | 13 | 1686 | 1/1 | 0.80 | 0.08 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3138 | 1/1 | 0.80 | 0.21 | 71,71,71,71 | 0 |
| 56 | MG | 1J | 209 | 1/1 | 0.81 | 0.18 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3150 | 1/1 | 0.81 | 0.44 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3090 | 1/1 | 0.81 | 0.28 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3203 | 1/1 | 0.81 | 0.10 | 69,69,69,69 | 0 |
| 56 | MG | 1G | 1684 | 1/1 | 0.81 | 0.06 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3100 | 1/1 | 0.81 | 0.60 | 59,59,59,59 | 0 |
| 56 | MG | 13 | 1748 | 1/1 | 0.81 | 0.21 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3551 | 1/1 | 0.81 | 0.15 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3153 | 1/1 | 0.81 | 1.04 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1659 | 1/1 | 0.81 | 0.31 | 57,57,57,57 | 0 |
| 56 | MG | 13 | 1637 | 1/1 | 0.81 | 0.10 | 73,73,73,73 | 0 |
| 56 | MG | 13 | 1735 | 1/1 | 0.81 | 0.05 | 109,109,109,109 | 0 |
| 56 | MG | 1H | 3539 | 1/1 | 0.81 | 0.05 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3459 | 1/1 | 0.81 | 0.07 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3252 | 1/1 | 0.81 | 1.37 | 75,75,75,75 | 0 |
| 56 | MG | 1G | 1626 | 1/1 | 0.81 | 0.23 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3563 | 1/1 | 0.81 | 0.21 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3503 | 1/1 | 0.81 | 0.08 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3094 | 1/1 | 0.81 | 0.31 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3249 | 1/1 | 0.81 | 0.44 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3536 | 1/1 | 0.81 | 0.13 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3263 | 1/1 | 0.81 | 0.18 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3396 | 1/1 | 0.81 | 0.09 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3156 | 1/1 | 0.81 | 0.74 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3495 | 1/1 | 0.81 | 0.15 | 100,100,100,100 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3444 | 1/1 | 0.82 | 0.27 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3428 | 1/1 | 0.82 | 0.09 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3144 | 1/1 | 0.82 | 0.37 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3306 | 1/1 | 0.82 | 0.15 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1687 | 1/1 | 0.82 | 0.13 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3502 | 1/1 | 0.82 | 0.05 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1712 | 1/1 | 0.82 | 0.17 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3157 | 1/1 | 0.82 | 0.19 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3082 | 1/1 | 0.82 | 0.11 | 55,55,55,55 | 0 |
| 56 | MG | 21 | 301 | 1/1 | 0.82 | 0.28 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3195 | 1/1 | 0.82 | 0.36 | 71,71,71,71 | 0 |
| 56 | MG | 13 | 1602 | 1/1 | 0.82 | 0.50 | 61,61,61,61 | 0 |
| 56 | MG | 13 | 1682 | 1/1 | 0.82 | 0.13 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3216 | 1/1 | 0.82 | 0.41 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3384 | 1/1 | 0.82 | 0.10 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3311 | 1/1 | 0.82 | 0.19 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3198 | 1/1 | 0.82 | 0.37 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3001 | 1/1 | 0.82 | 0.22 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3282 | 1/1 | 0.82 | 0.07 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3013 | 1/1 | 0.82 | 0.36 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3452 | 1/1 | 0.82 | 0.12 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3569 | 1/1 | 0.82 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3467 | 1/1 | 0.82 | 0.15 | 71,71,71,71 | 0 |
| 56 | MG | 16 | 210 | 1/1 | 0.82 | 0.10 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3087 | 1/1 | 0.82 | 0.35 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3341 | 1/1 | 0.82 | 0.12 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3186 | 1/1 | 0.82 | 0.36 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1732 | 1/1 | 0.82 | 0.06 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3241 | 1/1 | 0.82 | 0.58 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3399 | 1/1 | 0.82 | 0.05 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3227 | 1/1 | 0.83 | 0.27 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1658 | 1/1 | 0.83 | 0.06 | 116,116,116,116 | 0 |
| 56 | MG | E5 | 103 | 1/1 | 0.83 | 0.20 | 80,80,80,80 | 0 |
| 56 | MG | 1G | 1619 | 1/1 | 0.83 | 0.21 | 103,103,103,103 | 0 |
| 56 | MG | 14 | 3034 | 1/1 | 0.83 | 0.56 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3461 | 1/1 | 0.83 | 0.10 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1640 | 1/1 | 0.83 | 0.34 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3053 | 1/1 | 0.83 | 0.40 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3236 | 1/1 | 0.83 | 0.25 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3242 | 1/1 | 0.83 | 0.16 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3221 | 1/1 | 0.83 | 0.18 | 65,65,65,65 | 0 |
| 56 | MG | 16 | 205 | 1/1 | 0.83 | 0.18 | 83,83,83,83 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1629 | 1/1 | 0.83 | 0.09 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3360 | 1/1 | 0.83 | 0.10 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3247 | 1/1 | 0.83 | 0.48 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3432 | 1/1 | 0.83 | 0.18 | 44,44,44,44 | 0 |
| 56 | MG | 16 | 204 | 1/1 | 0.83 | 0.08 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3446 | 1/1 | 0.83 | 0.10 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3217 | 1/1 | 0.83 | 0.65 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3132 | 1/1 | 0.83 | 0.26 | 58,58,58,58 | 0 |
| 56 | MG | 13 | 1742 | 1/1 | 0.83 | 0.09 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3363 | 1/1 | 0.83 | 0.29 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3560 | 1/1 | 0.83 | 0.13 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3176 | 1/1 | 0.84 | 0.65 | 51,51,51,51 | 0 |
| 56 | MG | 1K | 101 | 1/1 | 0.84 | 0.06 | 119,119,119,119 | 0 |
| 56 | MG | 14 | 3302 | 1/1 | 0.84 | 0.12 | 96,96,96,96 | 0 |
| 56 | MG | 16 | 213 | 1/1 | 0.84 | 0.07 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3313 | 1/1 | 0.84 | 0.11 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3044 | 1/1 | 0.84 | 0.54 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3497 | 1/1 | 0.84 | 0.10 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3124 | 1/1 | 0.84 | 0.18 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3241 | 1/1 | 0.84 | 0.53 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3064 | 1/1 | 0.84 | 0.28 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3273 | 1/1 | 0.84 | 0.63 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3102 | 1/1 | 0.84 | 0.33 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3205 | 1/1 | 0.84 | 0.36 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3244 | 1/1 | 0.84 | 0.14 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3175 | 1/1 | 0.84 | 0.11 | 74,74,74,74 | 0 |
| 56 | MG | 1G | 1677 | 1/1 | 0.84 | 0.11 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3130 | 1/1 | 0.84 | 0.12 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3033 | 1/1 | 0.84 | 0.47 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3098 | 1/1 | 0.84 | 0.17 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3172 | 1/1 | 0.84 | 0.76 | 70,70,70,70 | 0 |
| 56 | MG | 88 | 201 | 1/1 | 0.84 | 0.23 | 73,73,73,73 | 0 |
| 56 | MG | 1G | 1657 | 1/1 | 0.84 | 0.51 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3203 | 1/1 | 0.84 | 0.27 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3550 | 1/1 | 0.84 | 0.12 | 125,125,125,125 | 0 |
| 56 | MG | 1H | 3441 | 1/1 | 0.84 | 0.11 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3196 | 1/1 | 0.84 | 0.43 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3410 | 1/1 | 0.84 | 0.07 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3231 | 1/1 | 0.84 | 0.28 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3456 | 1/1 | 0.84 | 0.08 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3458 | 1/1 | 0.84 | 0.11 | 91,91,91,91 | 0 |
| 56 | MG | 16 | 206 | 1/1 | 0.84 | 0.10 | 81,81,81,81 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3146 | 1/1 | 0.84 | 0.85 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3164 | 1/1 | 0.85 | 0.72 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3349 | 1/1 | 0.85 | 0.09 | 65,65,65,65 | 0 |
| 56 | MG | 1G | 1654 | 1/1 | 0.85 | 0.37 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3348 | 1/1 | 0.85 | 0.15 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1693 | 1/1 | 0.85 | 0.05 | 114,114,114,114 | 0 |
| 56 | MG | 1H | 3227 | 1/1 | 0.85 | 0.23 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3143 | 1/1 | 0.85 | 0.27 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3540 | 1/1 | 0.85 | 0.15 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3509 | 1/1 | 0.85 | 0.20 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3335 | 1/1 | 0.85 | 0.15 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3054 | 1/1 | 0.85 | 0.83 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3260 | 1/1 | 0.85 | 0.41 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3141 | 1/1 | 0.85 | 0.25 | 53,53,53,53 | 0 |
| 56 | MG | 1G | 1602 | 1/1 | 0.85 | 0.13 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3192 | 1/1 | 0.85 | 0.50 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3523 | 1/1 | 0.85 | 0.10 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3357 | 1/1 | 0.85 | 0.13 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3008 | 1/1 | 0.85 | 0.40 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3067 | 1/1 | 0.85 | 0.57 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3483 | 1/1 | 0.85 | 0.10 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3463 | 1/1 | 0.85 | 0.42 | 97,97,97,97 | 0 |
| 56 | MG | 13 | 1718 | 1/1 | 0.85 | 0.11 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3151 | 1/1 | 0.85 | 0.20 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3295 | 1/1 | 0.85 | 0.12 | 73,73,73,73 | 0 |
| 56 | MG | 41 | 202 | 1/1 | 0.85 | 0.19 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3088 | 1/1 | 0.85 | 0.41 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3162 | 1/1 | 0.85 | 0.18 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3470 | 1/1 | 0.85 | 0.15 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3195 | 1/1 | 0.85 | 0.29 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3084 | 1/1 | 0.85 | 0.39 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3258 | 1/1 | 0.85 | 0.57 | 97,97,97,97 | 0 |
| 56 | MG | 5I | 101 | 1/1 | 0.85 | 0.11 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3116 | 1/1 | 0.85 | 0.38 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3460 | 1/1 | 0.85 | 0.11 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3395 | 1/1 | 0.85 | 0.09 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3353 | 1/1 | 0.86 | 0.11 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1642 | 1/1 | 0.86 | 0.29 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3146 | 1/1 | 0.86 | 0.36 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3079 | 1/1 | 0.86 | 0.18 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3332 | 1/1 | 0.86 | 0.18 | 50,50,50,50 | 0 |
| 56 | MG | 1G | 1623 | 1/1 | 0.86 | 0.16 | 77,77,77,77 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3449 | 1/1 | 0.86 | 0.07 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3130 | 1/1 | 0.86 | 0.13 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3511 | 1/1 | 0.86 | 0.08 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3256 | 1/1 | 0.86 | 0.21 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3291 | 1/1 | 0.86 | 0.16 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1672 | 1/1 | 0.86 | 0.11 | 109,109,109,109 | 0 |
| 56 | MG | 1H | 3286 | 1/1 | 0.86 | 0.11 | 119,119,119,119 | 0 |
| 56 | MG | 1H | 3167 | 1/1 | 0.86 | 0.19 | 45,45,45,45 | 0 |
| 56 | MG | 1G | 1688 | 1/1 | 0.86 | 0.12 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3430 | 1/1 | 0.86 | 0.09 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3559 | 1/1 | 0.86 | 0.07 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3325 | 1/1 | 0.86 | 0.08 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3019 | 1/1 | 0.86 | 0.24 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3455 | 1/1 | 0.86 | 0.39 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3104 | 1/1 | 0.86 | 0.16 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3068 | 1/1 | 0.86 | 0.53 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3310 | 1/1 | 0.86 | 0.11 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3024 | 1/1 | 0.86 | 0.16 | 65,65,65,65 | 0 |
| 56 | MG | 1G | 1622 | 1/1 | 0.86 | 0.46 | 73,73,73,73 | 0 |
| 56 | MG | 13 | 1699 | 1/1 | 0.86 | 0.06 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3139 | 1/1 | 0.86 | 0.27 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3009 | 1/1 | 0.86 | 0.23 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1614 | 1/1 | 0.86 | 0.57 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3274 | 1/1 | 0.86 | 0.45 | 48,48,48,48 | 0 |
| 56 | MG | 1G | 1629 | 1/1 | 0.86 | 0.59 | 69,69,69,69 | 0 |
| 56 | MG | 1G | 1711 | 1/1 | 0.86 | 0.06 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3240 | 1/1 | 0.86 | 0.33 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3077 | 1/1 | 0.86 | 0.21 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1630 | 1/1 | 0.86 | 0.40 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3084 | 1/1 | 0.86 | 0.27 | 58,58,58,58 | 0 |
| 56 | MG | 98 | 201 | 1/1 | 0.86 | 0.49 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3106 | 1/1 | 0.86 | 0.25 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3235 | 1/1 | 0.86 | 0.57 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3212 | 1/1 | 0.86 | 1.03 | 82,82,82,82 | 0 |
| 56 | MG | 16 | 211 | 1/1 | 0.86 | 0.25 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3166 | 1/1 | 0.86 | 0.30 | 85,85,85,85 | 0 |
| 56 | MG | 1G | 1691 | 1/1 | 0.86 | 0.11 | 110,110,110,110 | 0 |
| 56 | MG | 14 | 3104 | 1/1 | 0.86 | 0.50 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3218 | 1/1 | 0.86 | 0.20 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3093 | 1/1 | 0.86 | 0.15 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3421 | 1/1 | 0.86 | 0.08 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3288 | 1/1 | 0.86 | 0.06 | 76,76,76,76 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3311 | 1/1 | 0.86 | 0.14 | 56,56,56,56 | 0 |
| 56 | MG | E5 | 102 | 1/1 | 0.87 | 0.59 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3239 | 1/1 | 0.87 | 0.97 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1657 | 1/1 | 0.87 | 0.46 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3290 | 1/1 | 0.87 | 0.13 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3364 | 1/1 | 0.87 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3129 | 1/1 | 0.87 | 0.13 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3091 | 1/1 | 0.87 | 0.16 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3078 | 1/1 | 0.87 | 0.23 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3375 | 1/1 | 0.87 | 0.09 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3469 | 1/1 | 0.87 | 0.08 | 79,79,79,79 | 0 |
| 56 | MG | 1J | 208 | 1/1 | 0.87 | 0.22 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3161 | 1/1 | 0.87 | 0.17 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1674 | 1/1 | 0.87 | 0.67 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1706 | 1/1 | 0.87 | 0.09 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3383 | 1/1 | 0.87 | 0.06 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3182 | 1/1 | 0.87 | 0.21 | 56,56,56,56 | 0 |
| 56 | MG | 88 | 202 | 1/1 | 0.87 | 0.29 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3296 | 1/1 | 0.87 | 0.11 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1724 | 1/1 | 0.87 | 0.10 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3442 | 1/1 | 0.87 | 0.08 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3159 | 1/1 | 0.87 | 0.24 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3368 | 1/1 | 0.87 | 0.08 | 75,75,75,75 | 0 |
| 56 | MG | 39 | 302 | 1/1 | 0.87 | 0.25 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3125 | 1/1 | 0.87 | 0.29 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3438 | 1/1 | 0.87 | 0.04 | 115,115,115,115 | 0 |
| 56 | MG | 1H | 3165 | 1/1 | 0.87 | 0.17 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3046 | 1/1 | 0.87 | 0.20 | 59,59,59,59 | 0 |
| 56 | MG | 13 | 1666 | 1/1 | 0.87 | 0.49 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3224 | 1/1 | 0.87 | 0.23 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3076 | 1/1 | 0.87 | 0.82 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1665 | 1/1 | 0.87 | 0.09 | 104,104,104,104 | 0 |
| 56 | MG | 1H | 3377 | 1/1 | 0.87 | 0.14 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3543 | 1/1 | 0.87 | 0.10 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3541 | 1/1 | 0.87 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3466 | 1/1 | 0.87 | 0.16 | 92,92,92,92 | 0 |
| 56 | MG | 13 | 1668 | 1/1 | 0.87 | 0.43 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3199 | 1/1 | 0.87 | 0.23 | 74,74,74,74 | 0 |
| 56 | MG | 1G | 1611 | 1/1 | 0.87 | 0.16 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3178 | 1/1 | 0.87 | 0.12 | 114,114,114,114 | 0 |
| 56 | MG | 13 | 1716 | 1/1 | 0.87 | 0.04 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3522 | 1/1 | 0.87 | 0.07 | 98,98,98,98 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1618 | 1/1 | 0.87 | 0.23 | 45,45,45,45 | 0 |
| 56 | MG | 13 | 1711 | 1/1 | 0.88 | 0.12 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3342 | 1/1 | 0.88 | 0.11 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3439 | 1/1 | 0.88 | 0.10 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3219 | 1/1 | 0.88 | 0.36 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1697 | 1/1 | 0.88 | 0.09 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3288 | 1/1 | 0.88 | 0.14 | 38,38,38,38 | 0 |
| 56 | MG | 14 | 3006 | 1/1 | 0.88 | 0.25 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1737 | 1/1 | 0.88 | 0.06 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3353 | 1/1 | 0.88 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3254 | 1/1 | 0.88 | 0.10 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3461 | 1/1 | 0.88 | 0.10 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3123 | 1/1 | 0.88 | 0.29 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3059 | 1/1 | 0.88 | 0.71 | 73,73,73,73 | 0 |
| 56 | MG | 2L | 103 | 1/1 | 0.88 | 0.51 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3145 | 1/1 | 0.88 | 0.18 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3133 | 1/1 | 0.88 | 0.16 | 72,72,72,72 | 0 |
| 56 | MG | 13 | 1623 | 1/1 | 0.88 | 0.31 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3373 | 1/1 | 0.88 | 0.17 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3075 | 1/1 | 0.88 | 0.16 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1647 | 1/1 | 0.88 | 0.10 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3093 | 1/1 | 0.88 | 0.21 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3037 | 1/1 | 0.88 | 0.59 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3105 | 1/1 | 0.88 | 0.08 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3518 | 1/1 | 0.88 | 0.11 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3504 | 1/1 | 0.88 | 0.09 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3154 | 1/1 | 0.88 | 0.30 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3201 | 1/1 | 0.88 | 0.11 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3426 | 1/1 | 0.88 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3567 | 1/1 | 0.88 | 0.15 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3443 | 1/1 | 0.88 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3498 | 1/1 | 0.88 | 0.17 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3500 | 1/1 | 0.88 | 0.09 | 103,103,103,103 | 0 |
| 56 | MG | 1H | 3454 | 1/1 | 0.88 | 0.23 | 67,67,67,67 | 0 |
| 56 | MG | 1G | 1634 | 1/1 | 0.88 | 0.25 | 91,91,91,91 | 0 |
| 56 | MG | 13 | 1617 | 1/1 | 0.88 | 0.23 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3018 | 1/1 | 0.88 | 0.42 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3179 | 1/1 | 0.88 | 0.47 | 47,47,47,47 | 0 |
| 56 | MG | 13 | 1720 | 1/1 | 0.88 | 0.07 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3272 | 1/1 | 0.88 | 0.74 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3548 | 1/1 | 0.88 | 0.11 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3300 | 1/1 | 0.88 | 0.09 | 76,76,76,76 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 16 | 208 | 1/1 | 0.88 | 0.22 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3554 | 1/1 | 0.88 | 0.25 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1665 | 1/1 | 0.88 | 0.53 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3050 | 1/1 | 0.88 | 0.31 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3079 | 1/1 | 0.89 | 0.32 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3083 | 1/1 | 0.89 | 0.15 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3105 | 1/1 | 0.89 | 0.50 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3139 | 1/1 | 0.89 | 0.14 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3401 | 1/1 | 0.89 | 0.07 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3193 | 1/1 | 0.89 | 0.16 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1630 | 1/1 | 0.89 | 0.16 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3134 | 1/1 | 0.89 | 0.28 | 74,74,74,74 | 0 |
| 56 | MG | 1G | 1682 | 1/1 | 0.89 | 0.16 | 117,117,117,117 | 0 |
| 56 | MG | 14 | 3337 | 1/1 | 0.89 | 0.17 | 70,70,70,70 | 0 |
| 56 | MG | 1G | 1627 | 1/1 | 0.89 | 0.05 | 139,139,139,139 | 0 |
| 56 | MG | 13 | 1633 | 1/1 | 0.89 | 0.12 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3011 | 1/1 | 0.89 | 0.20 | 119,119,119,119 | 0 |
| 56 | MG | 13 | 1681 | 1/1 | 0.89 | 0.20 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3187 | 1/1 | 0.89 | 0.82 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3224 | 1/1 | 0.89 | 0.21 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1701 | 1/1 | 0.89 | 0.10 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3166 | 1/1 | 0.89 | 0.18 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3407 | 1/1 | 0.89 | 0.21 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1710 | 1/1 | 0.89 | 0.05 | 95,95,95,95 | 0 |
| 56 | MG | 13 | 1678 | 1/1 | 0.89 | 0.40 | 83,83,83,83 | 0 |
| 56 | MG | 1G | 1618 | 1/1 | 0.89 | 0.19 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3459 | 1/1 | 0.89 | 0.07 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3366 | 1/1 | 0.89 | 0.10 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3136 | 1/1 | 0.89 | 0.35 | 83,83,83,83 | 0 |
| 56 | MG | 1G | 1650 | 1/1 | 0.89 | 0.13 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3363 | 1/1 | 0.89 | 0.13 | 54,54,54,54 | 0 |
| 56 | MG | 13 | 1625 | 1/1 | 0.89 | 0.21 | 78,78,78,78 | 0 |
| 56 | MG | 13 | 1691 | 1/1 | 0.89 | 0.13 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3419 | 1/1 | 0.89 | 0.14 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3089 | 1/1 | 0.89 | 0.20 | 53,53,53,53 | 0 |
| 56 | MG | 13 | 1605 | 1/1 | 0.89 | 0.24 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3052 | 1/1 | 0.89 | 1.03 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3284 | 1/1 | 0.89 | 0.28 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3160 | 1/1 | 0.89 | 0.51 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3263 | 1/1 | 0.89 | 0.63 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3229 | 1/1 | 0.89 | 0.26 | 66,66,66,66 | 0 |
| 56 | MG | 1G | 1703 | 1/1 | 0.89 | 0.10 | 85,85,85,85 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3281 | 1/1 | 0.89 | 0.16 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3441 | 1/1 | 0.89 | 0.05 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3565 | 1/1 | 0.89 | 0.07 | 60,60,60,60 | 0 |
| 56 | MG | 13 | 1722 | 1/1 | 0.89 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3319 | 1/1 | 0.89 | 0.23 | 84,84,84,84 | 0 |
| 56 | MG | 13 | 1754 | 1/1 | 0.89 | 0.12 | 80,80,80,80 | 0 |
| 56 | MG | 1G | 1715 | 1/1 | 0.89 | 0.05 | 116,116,116,116 | 0 |
| 56 | MG | 1H | 3534 | 1/1 | 0.89 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3310 | 1/1 | 0.89 | 0.21 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3446 | 1/1 | 0.89 | 0.13 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3350 | 1/1 | 0.89 | 0.14 | 44,44,44,44 | 0 |
| 56 | MG | 13 | 1613 | 1/1 | 0.89 | 0.24 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3437 | 1/1 | 0.89 | 0.15 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3472 | 1/1 | 0.89 | 0.06 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3048 | 1/1 | 0.89 | 0.22 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3078 | 1/1 | 0.89 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | 42 | 201 | 1/1 | 0.89 | 0.27 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3356 | 1/1 | 0.89 | 0.11 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3491 | 1/1 | 0.89 | 0.18 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3065 | 1/1 | 0.89 | 0.10 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3386 | 1/1 | 0.89 | 0.08 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3425 | 1/1 | 0.89 | 0.15 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3098 | 1/1 | 0.89 | 0.23 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1681 | 1/1 | 0.89 | 0.07 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3171 | 1/1 | 0.89 | 0.58 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3223 | 1/1 | 0.89 | 0.48 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3319 | 1/1 | 0.89 | 0.13 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3317 | 1/1 | 0.89 | 0.15 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3496 | 1/1 | 0.89 | 0.08 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1707 | 1/1 | 0.90 | 0.06 | 114,114,114,114 | 0 |
| 56 | MG | 13 | 1650 | 1/1 | 0.90 | 0.10 | 121,121,121,121 | 0 |
| 56 | MG | 14 | 3185 | 1/1 | 0.90 | 0.41 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3160 | 1/1 | 0.90 | 0.40 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3261 | 1/1 | 0.90 | 0.46 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3388 | 1/1 | 0.90 | 0.05 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1745 | 1/1 | 0.90 | 0.07 | 99,99,99,99 | 0 |
| 56 | MG | 1G | 1701 | 1/1 | 0.90 | 0.10 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3177 | 1/1 | 0.90 | 0.46 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3197 | 1/1 | 0.90 | 0.45 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3112 | 1/1 | 0.90 | 0.11 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3346 | 1/1 | 0.90 | 0.11 | 74,74,74,74 | 0 |
| 56 | MG | 1J | 205 | 1/1 | 0.90 | 0.18 | 90,90,90,90 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3102 | 1/1 | 0.90 | 0.25 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3413 | 1/1 | 0.90 | 0.14 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1642 | 1/1 | 0.90 | 0.10 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3025 | 1/1 | 0.90 | 0.32 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3435 | 1/1 | 0.90 | 0.36 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3385 | 1/1 | 0.90 | 0.15 | 80,80,80,80 | 0 |
| 56 | MG | 1G | 1621 | 1/1 | 0.90 | 0.19 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3275 | 1/1 | 0.90 | 0.28 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3316 | 1/1 | 0.90 | 0.12 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3289 | 1/1 | 0.90 | 0.16 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3505 | 1/1 | 0.90 | 0.21 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3513 | 1/1 | 0.90 | 0.14 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3527 | 1/1 | 0.90 | 0.04 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3062 | 1/1 | 0.90 | 0.14 | 29,29,29,29 | 0 |
| 56 | MG | 1G | 1620 | 1/1 | 0.90 | 0.34 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3358 | 1/1 | 0.90 | 0.05 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3280 | 1/1 | 0.90 | 0.20 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3321 | 1/1 | 0.90 | 0.11 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3163 | 1/1 | 0.90 | 0.64 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3252 | 1/1 | 0.90 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | 13 | 1634 | 1/1 | 0.90 | 0.15 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3438 | 1/1 | 0.90 | 0.10 | 71,71,71,71 | 0 |
| 56 | MG | 88 | 203 | 1/1 | 0.90 | 0.32 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1733 | 1/1 | 0.90 | 0.19 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3431 | 1/1 | 0.90 | 0.10 | 84,84,84,84 | 0 |
| 56 | MG | 13 | 1676 | 1/1 | 0.90 | 0.11 | 92,92,92,92 | 0 |
| 56 | MG | 1G | 1625 | 1/1 | 0.90 | 0.17 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3291 | 1/1 | 0.90 | 0.15 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3064 | 1/1 | 0.90 | 0.61 | 76,76,76,76 | 0 |
| 56 | MG | 13 | 1622 | 1/1 | 0.90 | 0.16 | 104,104,104,104 | 0 |
| 56 | MG | 1H | 3066 | 1/1 | 0.90 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3538 | 1/1 | 0.90 | 0.18 | 78,78,78,78 | 0 |
| 56 | MG | 52 | 201 | 1/1 | 0.90 | 0.17 | 109,109,109,109 | 0 |
| 56 | MG | 1G | 1714 | 1/1 | 0.90 | 0.06 | 101,101,101,101 | 0 |
| 56 | MG | 13 | 1746 | 1/1 | 0.90 | 0.08 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3369 | 1/1 | 0.90 | 0.06 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3107 | 1/1 | 0.90 | 0.31 | 61,61,61,61 | 0 |
| 56 | MG | 13 | 1727 | 1/1 | 0.90 | 0.08 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3336 | 1/1 | 0.90 | 0.10 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3525 | 1/1 | 0.90 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3085 | 1/1 | 0.90 | 0.25 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3354 | 1/1 | 0.90 | 0.11 | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3066 | 1/1 | 0.90 | 0.34 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3526 | 1/1 | 0.90 | 0.12 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3450 | 1/1 | 0.90 | 0.05 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3021 | 1/1 | 0.91 | 0.38 | 36,36,36,36 | 0 |
| 56 | MG | 1H | 3174 | 1/1 | 0.91 | 0.22 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3529 | 1/1 | 0.91 | 0.07 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3113 | 1/1 | 0.91 | 0.21 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1620 | 1/1 | 0.91 | 0.33 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3092 | 1/1 | 0.91 | 0.58 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3107 | 1/1 | 0.91 | 0.41 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3183 | 1/1 | 0.91 | 0.18 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3212 | 1/1 | 0.91 | 0.07 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3330 | 1/1 | 0.91 | 0.14 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3443 | 1/1 | 0.91 | 0.06 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3103 | 1/1 | 0.91 | 0.41 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3059 | 1/1 | 0.91 | 0.22 | 53,53,53,53 | 0 |
| 56 | MG | 1G | 1712 | 1/1 | 0.91 | 0.11 | 122,122,122,122 | 0 |
| 56 | MG | 1H | 3362 | 1/1 | 0.91 | 0.17 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3322 | 1/1 | 0.91 | 0.18 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3005 | 1/1 | 0.91 | 0.40 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3558 | 1/1 | 0.91 | 0.06 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1757 | 1/1 | 0.91 | 0.15 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3430 | 1/1 | 0.91 | 0.21 | 46,46,46,46 | 0 |
| 56 | MG | 2L | 102 | 1/1 | 0.91 | 0.05 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3269 | 1/1 | 0.91 | 0.27 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3530 | 1/1 | 0.91 | 0.34 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1652 | 1/1 | 0.91 | 0.23 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3378 | 1/1 | 0.91 | 0.10 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3010 | 1/1 | 0.91 | 0.21 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3086 | 1/1 | 0.91 | 0.27 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3007 | 1/1 | 0.91 | 0.18 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3081 | 1/1 | 0.91 | 0.23 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1705 | 1/1 | 0.91 | 0.09 | 116,116,116,116 | 0 |
| 56 | MG | 14 | 3215 | 1/1 | 0.91 | 0.12 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3381 | 1/1 | 0.91 | 0.11 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3333 | 1/1 | 0.91 | 0.14 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3400 | 1/1 | 0.91 | 0.11 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3087 | 1/1 | 0.91 | 0.31 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3382 | 1/1 | 0.91 | 0.06 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3253 | 1/1 | 0.91 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3370 | 1/1 | 0.91 | 0.15 | 83,83,83,83 | 0 |
| 56 | MG | 1G | 1664 | 1/1 | 0.91 | 0.07 | 126,126,126,126 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3035 | 1/1 | 0.91 | 0.29 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3022 | 1/1 | 0.91 | 0.11 | 73,73,73,73 | 0 |
| 56 | MG | 25 | 201 | 1/1 | 0.91 | 0.25 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3374 | 1/1 | 0.91 | 0.08 | 68,68,68,68 | 0 |
| 56 | MG | 39 | 301 | 1/1 | 0.91 | 0.14 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3264 | 1/1 | 0.91 | 0.57 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3390 | 1/1 | 0.91 | 0.10 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3008 | 1/1 | 0.91 | 0.36 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3027 | 1/1 | 0.91 | 0.33 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3132 | 1/1 | 0.91 | 0.61 | 56,56,56,56 | 0 |
| 56 | MG | 13 | 1624 | 1/1 | 0.91 | 0.25 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3279 | 1/1 | 0.91 | 0.28 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3286 | 1/1 | 0.91 | 0.12 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3180 | 1/1 | 0.91 | 0.60 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3379 | 1/1 | 0.91 | 0.07 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3316 | 1/1 | 0.91 | 0.18 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3328 | 1/1 | 0.91 | 0.30 | 83,83,83,83 | 0 |
| 56 | MG | 1G | 1649 | 1/1 | 0.91 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3106 | 1/1 | 0.91 | 0.34 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3451 | 1/1 | 0.91 | 0.07 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1651 | 1/1 | 0.91 | 0.16 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3162 | 1/1 | 0.91 | 0.26 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3247 | 1/1 | 0.91 | 0.14 | 58,58,58,58 | 0 |
| 56 | MG | 13 | 1741 | 1/1 | 0.91 | 0.09 | 110,110,110,110 | 0 |
| 56 | MG | 14 | 3004 | 1/1 | 0.91 | 0.45 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3414 | 1/1 | 0.91 | 0.07 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1643 | 1/1 | 0.92 | 0.19 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3069 | 1/1 | 0.92 | 0.27 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3278 | 1/1 | 0.92 | 0.29 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3189 | 1/1 | 0.92 | 0.45 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3124 | 1/1 | 0.92 | 0.28 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1695 | 1/1 | 0.92 | 0.15 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1692 | 1/1 | 0.92 | 0.06 | 106,106,106,106 | 0 |
| 56 | MG | 14 | 3070 | 1/1 | 0.92 | 0.13 | 49,49,49,49 | 0 |
| 56 | MG | 11 | 302 | 1/1 | 0.92 | 0.25 | 55,55,55,55 | 0 |
| 56 | MG | 32 | 301 | 1/1 | 0.92 | 0.08 | 112,112,112,112 | 0 |
| 56 | MG | 13 | 1685 | 1/1 | 0.92 | 0.18 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3023 | 1/1 | 0.92 | 0.09 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3228 | 1/1 | 0.92 | 0.41 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3172 | 1/1 | 0.92 | 0.30 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1755 | 1/1 | 0.92 | 0.06 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3404 | 1/1 | 0.92 | 0.10 | 77,77,77,77 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3186 | 1/1 | 0.92 | 0.28 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3360 | 1/1 | 0.92 | 0.13 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3074 | 1/1 | 0.92 | 0.45 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3435 | 1/1 | 0.92 | 0.05 | 55,55,55,55 | 0 |
| 56 | MG | 1G | 1700 | 1/1 | 0.92 | 0.18 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3318 | 1/1 | 0.92 | 0.17 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3113 | 1/1 | 0.92 | 0.19 | 37,37,37,37 | 0 |
| 56 | MG | 1H | 3155 | 1/1 | 0.92 | 0.31 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3412 | 1/1 | 0.92 | 0.11 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3030 | 1/1 | 0.92 | 0.26 | 49,49,49,49 | 0 |
| 56 | MG | 13 | 1749 | 1/1 | 0.92 | 0.09 | 106,106,106,106 | 0 |
| 56 | MG | 14 | 3366 | 1/1 | 0.92 | 0.08 | 65,65,65,65 | 0 |
| 56 | MG | 1G | 1685 | 1/1 | 0.92 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3250 | 1/1 | 0.92 | 0.16 | 64,64,64,64 | 0 |
| 56 | MG | 41 | 201 | 1/1 | 0.92 | 0.08 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3125 | 1/1 | 0.92 | 0.19 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3297 | 1/1 | 0.92 | 0.07 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3236 | 1/1 | 0.92 | 0.10 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3225 | 1/1 | 0.92 | 0.84 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3120 | 1/1 | 0.92 | 0.17 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1624 | 1/1 | 0.92 | 0.19 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3468 | 1/1 | 0.92 | 0.39 | 58,58,58,58 | 0 |
| 56 | MG | 1G | 1720 | 1/1 | 0.92 | 0.03 | 129,129,129,129 | 0 |
| 56 | MG | 1H | 3232 | 1/1 | 0.92 | 0.82 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3401 | 1/1 | 0.92 | 0.17 | 46,46,46,46 | 0 |
| 56 | MG | 13 | 1612 | 1/1 | 0.92 | 0.20 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3180 | 1/1 | 0.92 | 0.29 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3075 | 1/1 | 0.92 | 0.36 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3326 | 1/1 | 0.92 | 0.18 | 56,56,56,56 | 0 |
| 56 | MG | 13 | 1607 | 1/1 | 0.92 | 0.06 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3268 | 1/1 | 0.92 | 0.19 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3127 | 1/1 | 0.92 | 0.24 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3320 | 1/1 | 0.92 | 0.23 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3283 | 1/1 | 0.92 | 0.16 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3140 | 1/1 | 0.92 | 0.16 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3331 | 1/1 | 0.92 | 0.20 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3049 | 1/1 | 0.92 | 0.15 | 50,50,50,50 | 0 |
| 56 | MG | 13 | 1647 | 1/1 | 0.92 | 0.13 | 73,73,73,73 | 0 |
| 56 | MG | 1G | 1604 | 1/1 | 0.92 | 0.31 | 102,102,102,102 | 0 |
| 56 | MG | 13 | 1670 | 1/1 | 0.92 | 0.23 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1725 | 1/1 | 0.92 | 0.08 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3003 | 1/1 | 0.92 | 0.30 | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3073 | 1/1 | 0.93 | 0.23 | 39,39,39,39 | 0 |
| 56 | MG | 1G | 1702 | 1/1 | 0.93 | 0.22 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3029 | 1/1 | 0.93 | 0.29 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1721 | 1/1 | 0.93 | 0.09 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3482 | 1/1 | 0.93 | 0.11 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3317 | 1/1 | 0.93 | 0.12 | 119,119,119,119 | 0 |
| 56 | MG | 14 | 3020 | 1/1 | 0.93 | 0.13 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3148 | 1/1 | 0.93 | 0.19 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3370 | 1/1 | 0.93 | 0.10 | 37,37,37,37 | 0 |
| 56 | MG | 14 | 3376 | 1/1 | 0.93 | 0.12 | 91,91,91,91 | 0 |
| 56 | MG | 1G | 1675 | 1/1 | 0.93 | 0.15 | 101,101,101,101 | 0 |
| 56 | MG | 1G | 1686 | 1/1 | 0.93 | 0.06 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3397 | 1/1 | 0.93 | 0.08 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3088 | 1/1 | 0.93 | 0.23 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3152 | 1/1 | 0.93 | 0.14 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3345 | 1/1 | 0.93 | 0.13 | 66,66,66,66 | 0 |
| 56 | MG | 13 | 1694 | 1/1 | 0.93 | 0.17 | 79,79,79,79 | 0 |
| 56 | MG | 13 | 1750 | 1/1 | 0.93 | 0.21 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3128 | 1/1 | 0.93 | 0.44 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3089 | 1/1 | 0.93 | 0.40 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3083 | 1/1 | 0.93 | 0.15 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3544 | 1/1 | 0.93 | 0.08 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1649 | 1/1 | 0.93 | 0.17 | 87,87,87,87 | 0 |
| 56 | MG | 5E | 201 | 1/1 | 0.93 | 0.17 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3163 | 1/1 | 0.93 | 1.04 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3276 | 1/1 | 0.93 | 0.25 | 78,78,78,78 | 0 |
| 56 | MG | 13 | 1639 | 1/1 | 0.93 | 0.29 | 91,91,91,91 | 0 |
| 56 | MG | 1J | 203 | 1/1 | 0.93 | 0.21 | 70,70,70,70 | 0 |
| 56 | MG | 1G | 1663 | 1/1 | 0.93 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3150 | 1/1 | 0.93 | 0.30 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3034 | 1/1 | 0.93 | 0.34 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3460 | 1/1 | 0.93 | 0.08 | 75,75,75,75 | 0 |
| 58 | ZN | G8 | 201 | 1/1 | 0.93 | 0.18 | 143,143,143,143 | 0 |
| 56 | MG | 1H | 3561 | 1/1 | 0.93 | 0.05 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1632 | 1/1 | 0.93 | 0.19 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3235 | 1/1 | 0.93 | 0.38 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3312 | 1/1 | 0.93 | 0.10 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3452 | 1/1 | 0.93 | 0.06 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3463 | 1/1 | 0.93 | 0.09 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3178 | 1/1 | 0.93 | 0.47 | 69,69,69,69 | 0 |
| 56 | MG | 13 | 1689 | 1/1 | 0.93 | 0.17 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3129 | 1/1 | 0.93 | 0.15 | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 25 | 202 | 1/1 | 0.93 | 0.08 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3173 | 1/1 | 0.93 | 0.53 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3528 | 1/1 | 0.93 | 0.05 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3118 | 1/1 | 0.93 | 0.57 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1646 | 1/1 | 0.93 | 0.11 | 119,119,119,119 | 0 |
| 56 | MG | 13 | 1717 | 1/1 | 0.93 | 0.10 | 51,51,51,51 | 0 |
| 56 | MG | 1G | 1717 | 1/1 | 0.93 | 0.06 | 118,118,118,118 | 0 |
| 56 | MG | 14 | 3402 | 1/1 | 0.93 | 0.06 | 94,94,94,94 | 0 |
| 56 | MG | E5 | 101 | 1/1 | 0.93 | 0.46 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3050 | 1/1 | 0.93 | 0.44 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3165 | 1/1 | 0.93 | 0.21 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3391 | 1/1 | 0.93 | 0.12 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3442 | 1/1 | 0.93 | 0.22 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3364 | 1/1 | 0.93 | 0.11 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3052 | 1/1 | 0.93 | 0.26 | 59,59,59,59 | 0 |
| 56 | MG | 2A | 201 | 1/1 | 0.93 | 0.17 | 103,103,103,103 | 0 |
| 56 | MG | 13 | 1708 | 1/1 | 0.93 | 0.06 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3131 | 1/1 | 0.93 | 0.21 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3545 | 1/1 | 0.93 | 0.07 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3138 | 1/1 | 0.93 | 0.14 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3111 | 1/1 | 0.93 | 0.19 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3333 | 1/1 | 0.93 | 0.12 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3019 | 1/1 | 0.93 | 0.38 | 39,39,39,39 | 0 |
| 58 | ZN | C5 | 201 | 1/1 | 0.93 | 0.05 | 156,156,156,156 | 0 |
| 56 | MG | 1G | 1709 | 1/1 | 0.93 | 0.22 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3046 | 1/1 | 0.93 | 0.23 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1638 | 1/1 | 0.93 | 0.39 | 92,92,92,92 | 0 |
| 56 | MG | 13 | 1707 | 1/1 | 0.93 | 0.10 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3137 | 1/1 | 0.93 | 0.77 | 61,61,61,61 | 0 |
| 56 | MG | 1G | 1612 | 1/1 | 0.93 | 0.30 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3476 | 1/1 | 0.93 | 0.04 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3041 | 1/1 | 0.93 | 0.24 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3553 | 1/1 | 0.93 | 0.05 | 78,78,78,78 | 0 |
| 56 | MG | 1J | 201 | 1/1 | 0.93 | 0.13 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3318 | 1/1 | 0.93 | 0.07 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1669 | 1/1 | 0.93 | 0.18 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3434 | 1/1 | 0.93 | 0.07 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3120 | 1/1 | 0.93 | 0.31 | 39,39,39,39 | 0 |
| 56 | MG | 1H | 3300 | 1/1 | 0.93 | 0.20 | 41,41,41,41 | 0 |
| 56 | MG | 11 | 301 | 1/1 | 0.93 | 0.15 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3182 | 1/1 | 0.93 | 0.17 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3170 | 1/1 | 0.93 | 0.19 | 115,115,115,115 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3383 | 1/1 | 0.93 | 0.08 | 61,61,61,61 | 0 |
| 56 | MG | 1G | 1639 | 1/1 | 0.93 | 0.35 | 87,87,87,87 | 0 |
| 56 | MG | 16 | 207 | 1/1 | 0.93 | 0.09 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3185 | 1/1 | 0.93 | 0.30 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3485 | 1/1 | 0.93 | 0.06 | 97,97,97,97 | 0 |
| 56 | MG | 14 | 3056 | 1/1 | 0.93 | 0.65 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3537 | 1/1 | 0.93 | 0.07 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3412 | 1/1 | 0.93 | 0.08 | 39,39,39,39 | 0 |
| 56 | MG | 14 | 3211 | 1/1 | 0.93 | 0.36 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3053 | 1/1 | 0.93 | 0.40 | 40,40,40,40 | 0 |
| 56 | MG | 14 | 3204 | 1/1 | 0.93 | 0.24 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3207 | 1/1 | 0.94 | 0.29 | 119,119,119,119 | 0 |
| 56 | MG | 1H | 3514 | 1/1 | 0.94 | 0.07 | 69,69,69,69 | 0 |
| 56 | MG | 1G | 1724 | 1/1 | 0.94 | 0.15 | 102,102,102,102 | 0 |
| 56 | MG | 13 | 1697 | 1/1 | 0.94 | 0.03 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3427 | 1/1 | 0.94 | 0.16 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3108 | 1/1 | 0.94 | 0.22 | 34,34,34,34 | 0 |
| 56 | MG | 1H | 3117 | 1/1 | 0.94 | 0.20 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3327 | 1/1 | 0.94 | 0.06 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3552 | 1/1 | 0.94 | 0.15 | 73,73,73,73 | 0 |
| 56 | MG | 13 | 1710 | 1/1 | 0.94 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3315 | 1/1 | 0.94 | 0.12 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3420 | 1/1 | 0.94 | 0.07 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3117 | 1/1 | 0.94 | 0.36 | 79,79,79,79 | 0 |
| 56 | MG | 13 | 1615 | 1/1 | 0.94 | 0.17 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3222 | 1/1 | 0.94 | 0.29 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1718 | 1/1 | 0.94 | 0.06 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1635 | 1/1 | 0.94 | 0.07 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3507 | 1/1 | 0.94 | 0.07 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3029 | 1/1 | 0.94 | 0.17 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3248 | 1/1 | 0.94 | 0.12 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3326 | 1/1 | 0.94 | 0.06 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3032 | 1/1 | 0.94 | 0.32 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3410 | 1/1 | 0.94 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3119 | 1/1 | 0.94 | 0.29 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3347 | 1/1 | 0.94 | 0.15 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1692 | 1/1 | 0.94 | 0.04 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3517 | 1/1 | 0.94 | 0.07 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3329 | 1/1 | 0.94 | 0.15 | 41,41,41,41 | 0 |
| 56 | MG | 14 | 3436 | 1/1 | 0.94 | 0.11 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3228 | 1/1 | 0.94 | 0.40 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3433 | 1/1 | 0.94 | 0.05 | 143,143,143,143 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1740 | 1/1 | 0.94 | 0.11 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3294 | 1/1 | 0.94 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3196 | 1/1 | 0.94 | 0.06 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3229 | 1/1 | 0.94 | 0.22 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3407 | 1/1 | 0.94 | 0.13 | 79,79,79,79 | 0 |
| 56 | MG | 45 | 201 | 1/1 | 0.94 | 0.12 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3147 | 1/1 | 0.94 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3072 | 1/1 | 0.94 | 0.52 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1651 | 1/1 | 0.94 | 0.40 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3215 | 1/1 | 0.94 | 0.61 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3392 | 1/1 | 0.94 | 0.06 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3200 | 1/1 | 0.94 | 0.28 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3413 | 1/1 | 0.94 | 0.11 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3324 | 1/1 | 0.94 | 0.06 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1662 | 1/1 | 0.94 | 0.16 | 114,114,114,114 | 0 |
| 56 | MG | 13 | 1611 | 1/1 | 0.94 | 0.28 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3213 | 1/1 | 0.94 | 0.27 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3535 | 1/1 | 0.94 | 0.07 | 70,70,70,70 | 0 |
| 56 | MG | 1G | 1615 | 1/1 | 0.94 | 0.20 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3099 | 1/1 | 0.94 | 0.33 | 51,51,51,51 | 0 |
| 56 | MG | 1G | 1671 | 1/1 | 0.94 | 0.14 | 82,82,82,82 | 0 |
| 56 | MG | M5 | 101 | 1/1 | 0.94 | 0.14 | 81,81,81,81 | 0 |
| 56 | MG | 1G | 1659 | 1/1 | 0.94 | 0.23 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3389 | 1/1 | 0.94 | 0.10 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3315 | 1/1 | 0.94 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3095 | 1/1 | 0.94 | 0.31 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3429 | 1/1 | 0.94 | 0.19 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3331 | 1/1 | 0.94 | 0.14 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3018 | 1/1 | 0.94 | 0.28 | 75,75,75,75 | 0 |
| 56 | MG | 13 | 1761 | 1/1 | 0.94 | 0.15 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3057 | 1/1 | 0.94 | 0.32 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3434 | 1/1 | 0.94 | 0.08 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3086 | 1/1 | 0.94 | 0.54 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3243 | 1/1 | 0.94 | 0.41 | 60,60,60,60 | 0 |
| 56 | MG | 16 | 212 | 1/1 | 0.94 | 0.09 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3420 | 1/1 | 0.94 | 0.22 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3144 | 1/1 | 0.94 | 0.40 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3478 | 1/1 | 0.94 | 0.04 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1653 | 1/1 | 0.94 | 0.25 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3362 | 1/1 | 0.94 | 0.08 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3045 | 1/1 | 0.94 | 0.22 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3390 | 1/1 | 0.94 | 0.16 | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1709 | 1/1 | 0.94 | 0.06 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3097 | 1/1 | 0.94 | 0.27 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3564 | 1/1 | 0.94 | 0.05 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3122 | 1/1 | 0.94 | 0.41 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3308 | 1/1 | 0.94 | 0.26 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3115 | 1/1 | 0.94 | 0.27 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3340 | 1/1 | 0.94 | 0.13 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3001 | 1/1 | 0.94 | 0.19 | 51,51,51,51 | 0 |
| 56 | MG | 1G | 1673 | 1/1 | 0.94 | 0.08 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1616 | 1/1 | 0.94 | 0.28 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3035 | 1/1 | 0.94 | 0.27 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3155 | 1/1 | 0.94 | 0.27 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3257 | 1/1 | 0.94 | 0.13 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3408 | 1/1 | 0.94 | 0.06 | 94,94,94,94 | 0 |
| 56 | MG | 1J | 204 | 1/1 | 0.94 | 0.20 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3444 | 1/1 | 0.94 | 0.12 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3352 | 1/1 | 0.94 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3063 | 1/1 | 0.94 | 0.23 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3005 | 1/1 | 0.94 | 0.29 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3516 | 1/1 | 0.94 | 0.11 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3233 | 1/1 | 0.94 | 0.09 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3324 | 1/1 | 0.94 | 0.12 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3101 | 1/1 | 0.94 | 0.14 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3014 | 1/1 | 0.94 | 0.21 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3041 | 1/1 | 0.94 | 0.22 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3080 | 1/1 | 0.94 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3474 | 1/1 | 0.94 | 0.05 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3486 | 1/1 | 0.94 | 0.14 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3415 | 1/1 | 0.94 | 0.16 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3382 | 1/1 | 0.94 | 0.12 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3372 | 1/1 | 0.94 | 0.11 | 54,54,54,54 | 0 |
| 56 | MG | 1G | 1660 | 1/1 | 0.94 | 0.04 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3356 | 1/1 | 0.94 | 0.04 | 64,64,64,64 | 0 |
| 56 | MG | 13 | 1671 | 1/1 | 0.94 | 0.22 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3271 | 1/1 | 0.94 | 0.33 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3520 | 1/1 | 0.94 | 0.22 | 98,98,98,98 | 0 |
| 56 | MG | 13 | 1688 | 1/1 | 0.94 | 0.18 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3388 | 1/1 | 0.94 | 0.09 | 97,97,97,97 | 0 |
| 56 | MG | 14 | 3251 | 1/1 | 0.94 | 0.12 | 48,48,48,48 | 0 |
| 56 | MG | 13 | 1648 | 1/1 | 0.94 | 0.10 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3392 | 1/1 | 0.94 | 0.08 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3477 | 1/1 | 0.94 | 0.05 | 91,91,91,91 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1696 | 1/1 | 0.94 | 0.17 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3207 | 1/1 | 0.94 | 0.84 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3380 | 1/1 | 0.94 | 0.08 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3323 | 1/1 | 0.94 | 0.10 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3466 | 1/1 | 0.94 | 0.05 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3048 | 1/1 | 0.94 | 0.29 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3119 | 1/1 | 0.94 | 0.18 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3096 | 1/1 | 0.94 | 0.29 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3373 | 1/1 | 0.95 | 0.15 | 100,100,100,100 | 0 |
| 56 | MG | 78 | 201 | 1/1 | 0.95 | 0.29 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3419 | 1/1 | 0.95 | 0.11 | 97,97,97,97 | 0 |
| 56 | MG | 13 | 1683 | 1/1 | 0.95 | 0.17 | 92,92,92,92 | 0 |
| 56 | MG | 1G | 1680 | 1/1 | 0.95 | 0.14 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3351 | 1/1 | 0.95 | 0.17 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3397 | 1/1 | 0.95 | 0.20 | 46,46,46,46 | 0 |
| 56 | MG | 1H | 3492 | 1/1 | 0.95 | 0.05 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3174 | 1/1 | 0.95 | 0.30 | 64,64,64,64 | 0 |
| 56 | MG | 13 | 1751 | 1/1 | 0.95 | 0.09 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1726 | 1/1 | 0.95 | 0.19 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3453 | 1/1 | 0.95 | 0.09 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3127 | 1/1 | 0.95 | 0.16 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3510 | 1/1 | 0.95 | 0.09 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3391 | 1/1 | 0.95 | 0.13 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3260 | 1/1 | 0.95 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1605 | 1/1 | 0.95 | 0.29 | 76,76,76,76 | 0 |
| 56 | MG | 16 | 209 | 1/1 | 0.95 | 0.08 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1608 | 1/1 | 0.95 | 0.20 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3103 | 1/1 | 0.95 | 0.24 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3287 | 1/1 | 0.95 | 0.19 | 121,121,121,121 | 0 |
| 56 | MG | 1H | 3238 | 1/1 | 0.95 | 0.08 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3293 | 1/1 | 0.95 | 0.15 | 41,41,41,41 | 0 |
| 56 | MG | 14 | 3037 | 1/1 | 0.95 | 0.30 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3338 | 1/1 | 0.95 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3570 | 1/1 | 0.95 | 0.21 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3429 | 1/1 | 0.95 | 0.17 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3314 | 1/1 | 0.95 | 0.10 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1646 | 1/1 | 0.95 | 0.17 | 89,89,89,89 | 0 |
| 56 | MG | 13 | 1690 | 1/1 | 0.95 | 0.17 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3218 | 1/1 | 0.95 | 0.23 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3395 | 1/1 | 0.95 | 0.13 | 47,47,47,47 | 0 |
| 56 | MG | 1G | 1609 | 1/1 | 0.95 | 0.24 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3542 | 1/1 | 0.95 | 0.04 | 81,81,81,81 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3184 | 1/1 | 0.95 | 0.27 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3213 | 1/1 | 0.95 | 0.36 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1674 | 1/1 | 0.95 | 0.05 | 97,97,97,97 | 0 |
| 56 | MG | 13 | 1644 | 1/1 | 0.95 | 0.16 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3521 | 1/1 | 0.95 | 0.07 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3002 | 1/1 | 0.95 | 0.36 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3184 | 1/1 | 0.95 | 0.40 | 57,57,57,57 | 0 |
| 56 | MG | 13 | 1704 | 1/1 | 0.95 | 0.17 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3287 | 1/1 | 0.95 | 0.05 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3090 | 1/1 | 0.95 | 0.35 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3070 | 1/1 | 0.95 | 0.30 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3428 | 1/1 | 0.95 | 0.10 | 59,59,59,59 | 0 |
| 56 | MG | 13 | 1713 | 1/1 | 0.95 | 0.22 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3006 | 1/1 | 0.95 | 0.27 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3060 | 1/1 | 0.95 | 0.21 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3204 | 1/1 | 0.95 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3210 | 1/1 | 0.95 | 0.35 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3406 | 1/1 | 0.95 | 0.06 | 52,52,52,52 | 0 |
| 56 | MG | 13 | 1729 | 1/1 | 0.95 | 0.15 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3314 | 1/1 | 0.95 | 0.16 | 46,46,46,46 | 0 |
| 56 | MG | 13 | 1705 | 1/1 | 0.95 | 0.10 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3304 | 1/1 | 0.95 | 0.13 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3168 | 1/1 | 0.95 | 0.43 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3269 | 1/1 | 0.95 | 0.10 | 60,60,60,60 | 0 |
| 56 | MG | F8 | 101 | 1/1 | 0.95 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3237 | 1/1 | 0.95 | 0.14 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3458 | 1/1 | 0.95 | 0.08 | 56,56,56,56 | 0 |
| 56 | MG | 13 | 1680 | 1/1 | 0.95 | 0.19 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3259 | 1/1 | 0.95 | 0.19 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3305 | 1/1 | 0.95 | 0.14 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3091 | 1/1 | 0.95 | 0.34 | 44,44,44,44 | 0 |
| 56 | MG | 14 | 3406 | 1/1 | 0.95 | 0.25 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1654 | 1/1 | 0.95 | 0.16 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3484 | 1/1 | 0.95 | 0.11 | 88,88,88,88 | 0 |
| 56 | MG | 13 | 1693 | 1/1 | 0.95 | 0.07 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3439 | 1/1 | 0.95 | 0.14 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3385 | 1/1 | 0.95 | 0.07 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3376 | 1/1 | 0.95 | 0.11 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3062 | 1/1 | 0.95 | 0.30 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3372 | 1/1 | 0.95 | 0.14 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3277 | 1/1 | 0.95 | 0.50 | 81,81,81,81 | 0 |
| 56 | MG | 1G | 1678 | 1/1 | 0.95 | 0.14 | 93,93,93,93 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3480 | 1/1 | 0.95 | 0.05 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3571 | 1/1 | 0.95 | 0.17 | 39,39,39,39 | 0 |
| 56 | MG | 1G | 1606 | 1/1 | 0.95 | 0.10 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3377 | 1/1 | 0.95 | 0.07 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3123 | 1/1 | 0.95 | 0.20 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3135 | 1/1 | 0.95 | 0.23 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3422 | 1/1 | 0.95 | 0.10 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1601 | 1/1 | 0.95 | 0.23 | 102,102,102,102 | 0 |
| 56 | MG | 14 | 3030 | 1/1 | 0.95 | 0.32 | 38,38,38,38 | 0 |
| 56 | MG | 1H | 3398 | 1/1 | 0.95 | 0.17 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3417 | 1/1 | 0.96 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3206 | 1/1 | 0.96 | 0.58 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3490 | 1/1 | 0.96 | 0.06 | 95,95,95,95 | 0 |
| 56 | MG | 13 | 1723 | 1/1 | 0.96 | 0.20 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3424 | 1/1 | 0.96 | 0.14 | 44,44,44,44 | 0 |
| 56 | MG | 1G | 1633 | 1/1 | 0.96 | 0.07 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3469 | 1/1 | 0.96 | 0.13 | 55,55,55,55 | 0 |
| 56 | MG | 13 | 1626 | 1/1 | 0.96 | 0.31 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3267 | 1/1 | 0.96 | 0.13 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3063 | 1/1 | 0.96 | 0.16 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3044 | 1/1 | 0.96 | 0.29 | 39,39,39,39 | 0 |
| 56 | MG | 14 | 3445 | 1/1 | 0.96 | 0.09 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3354 | 1/1 | 0.96 | 0.19 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3142 | 1/1 | 0.96 | 0.11 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3344 | 1/1 | 0.96 | 0.16 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3422 | 1/1 | 0.96 | 0.09 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3031 | 1/1 | 0.96 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3297 | 1/1 | 0.96 | 0.06 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3403 | 1/1 | 0.96 | 0.07 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3464 | 1/1 | 0.96 | 0.09 | 40,40,40,40 | 0 |
| 56 | MG | 1H | 3347 | 1/1 | 0.96 | 0.12 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3424 | 1/1 | 0.96 | 0.08 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3023 | 1/1 | 0.96 | 0.47 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3308 | 1/1 | 0.96 | 0.10 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3220 | 1/1 | 0.96 | 0.39 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3423 | 1/1 | 0.96 | 0.07 | 52,52,52,52 | 0 |
| 56 | MG | 13 | 1636 | 1/1 | 0.96 | 0.54 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3049 | 1/1 | 0.96 | 0.47 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3126 | 1/1 | 0.96 | 0.21 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3056 | 1/1 | 0.96 | 0.33 | 28,28,28,28 | 0 |
| 56 | MG | 14 | 3256 | 1/1 | 0.96 | 0.05 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3202 | 1/1 | 0.96 | 0.43 | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1G | 1689 | 1/1 | 0.96 | 0.06 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3499 | 1/1 | 0.96 | 0.22 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1723 | 1/1 | 0.96 | 0.14 | 106,106,106,106 | 0 |
| 56 | MG | 2K | 103 | 1/1 | 0.96 | 0.38 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3135 | 1/1 | 0.96 | 0.13 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3329 | 1/1 | 0.96 | 0.24 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3384 | 1/1 | 0.96 | 0.04 | 77,77,77,77 | 0 |
| 56 | MG | 2K | 102 | 1/1 | 0.96 | 0.05 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3453 | 1/1 | 0.96 | 0.09 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1731 | 1/1 | 0.96 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3387 | 1/1 | 0.96 | 0.04 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3116 | 1/1 | 0.96 | 0.06 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3012 | 1/1 | 0.96 | 0.37 | 56,56,56,56 | 0 |
| 56 | MG | 1J | 211 | 1/1 | 0.96 | 0.05 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3457 | 1/1 | 0.96 | 0.06 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3332 | 1/1 | 0.96 | 0.09 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3043 | 1/1 | 0.96 | 0.27 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3261 | 1/1 | 0.96 | 0.15 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3197 | 1/1 | 0.96 | 0.11 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3047 | 1/1 | 0.96 | 0.29 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3348 | 1/1 | 0.96 | 0.15 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3335 | 1/1 | 0.96 | 0.08 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3359 | 1/1 | 0.96 | 0.09 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3343 | 1/1 | 0.96 | 0.24 | 39,39,39,39 | 0 |
| 56 | MG | 1H | 3226 | 1/1 | 0.96 | 0.28 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3100 | 1/1 | 0.96 | 0.21 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3532 | 1/1 | 0.96 | 0.09 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3147 | 1/1 | 0.96 | 0.29 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3061 | 1/1 | 0.96 | 0.30 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3301 | 1/1 | 0.96 | 0.17 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3126 | 1/1 | 0.96 | 0.14 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3283 | 1/1 | 0.96 | 0.07 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3489 | 1/1 | 0.96 | 0.08 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3248 | 1/1 | 0.96 | 0.20 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3302 | 1/1 | 0.96 | 0.15 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3028 | 1/1 | 0.96 | 0.24 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3013 | 1/1 | 0.96 | 0.32 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3274 | 1/1 | 0.96 | 0.15 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3188 | 1/1 | 0.96 | 0.12 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3067 | 1/1 | 0.96 | 0.24 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3307 | 1/1 | 0.96 | 0.08 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3033 | 1/1 | 0.96 | 0.36 | 67,67,67,67 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3493 | 1/1 | 0.96 | 0.08 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3010 | 1/1 | 0.96 | 0.35 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3278 | 1/1 | 0.96 | 0.11 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3114 | 1/1 | 0.96 | 0.26 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3327 | 1/1 | 0.96 | 0.23 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3284 | 1/1 | 0.96 | 0.38 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3361 | 1/1 | 0.96 | 0.16 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3494 | 1/1 | 0.96 | 0.08 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3447 | 1/1 | 0.96 | 0.15 | 59,59,59,59 | 0 |
| 56 | MG | 13 | 1702 | 1/1 | 0.96 | 0.14 | 64,64,64,64 | 0 |
| 56 | MG | 78 | 202 | 1/1 | 0.96 | 0.10 | 63,63,63,63 | 0 |
| 56 | MG | 29 | 301 | 1/1 | 0.96 | 0.29 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3350 | 1/1 | 0.96 | 0.16 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3369 | 1/1 | 0.96 | 0.18 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3271 | 1/1 | 0.96 | 0.14 | 60,60,60,60 | 0 |
| 56 | MG | 13 | 1664 | 1/1 | 0.96 | 0.48 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3026 | 1/1 | 0.96 | 0.21 | 70,70,70,70 | 0 |
| 56 | MG | 1G | 1662 | 1/1 | 0.96 | 0.16 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3074 | 1/1 | 0.96 | 0.07 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3448 | 1/1 | 0.96 | 0.23 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3336 | 1/1 | 0.96 | 0.09 | 75,75,75,75 | 0 |
| 56 | MG | 1G | 1607 | 1/1 | 0.96 | 0.12 | 120,120,120,120 | 0 |
| 56 | MG | 14 | 3250 | 1/1 | 0.96 | 0.12 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3181 | 1/1 | 0.96 | 0.29 | 88,88,88,88 | 0 |
| 56 | MG | 13 | 1656 | 1/1 | 0.96 | 0.12 | 60,60,60,60 | 0 |
| 56 | MG | Q8 | 101 | 1/1 | 0.96 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3475 | 1/1 | 0.96 | 0.08 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3398 | 1/1 | 0.96 | 0.14 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3061 | 1/1 | 0.97 | 0.36 | 41,41,41,41 | 0 |
| 56 | MG | 14 | 3058 | 1/1 | 0.97 | 0.10 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3418 | 1/1 | 0.97 | 0.11 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3295 | 1/1 | 0.97 | 0.17 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3415 | 1/1 | 0.97 | 0.07 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1610 | 1/1 | 0.97 | 0.19 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3328 | 1/1 | 0.97 | 0.07 | 48,48,48,48 | 0 |
| 56 | MG | 13 | 1738 | 1/1 | 0.97 | 0.09 | 71,71,71,71 | 0 |
| 56 | MG | 13 | 1728 | 1/1 | 0.97 | 0.05 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3265 | 1/1 | 0.97 | 0.13 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3361 | 1/1 | 0.97 | 0.12 | 41,41,41,41 | 0 |
| 56 | MG | 1H | 3389 | 1/1 | 0.97 | 0.07 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3232 | 1/1 | 0.97 | 0.15 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3110 | 1/1 | 0.97 | 0.16 | 44,44,44,44 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3007 | 1/1 | 0.97 | 0.19 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3508 | 1/1 | 0.97 | 0.04 | 37,37,37,37 | 0 |
| 56 | MG | 13 | 1736 | 1/1 | 0.97 | 0.16 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3272 | 1/1 | 0.97 | 0.03 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3036 | 1/1 | 0.97 | 0.40 | 39,39,39,39 | 0 |
| 56 | MG | 1H | 3042 | 1/1 | 0.97 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3057 | 1/1 | 0.97 | 0.40 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3097 | 1/1 | 0.97 | 0.55 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3285 | 1/1 | 0.97 | 0.09 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3101 | 1/1 | 0.97 | 0.15 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3149 | 1/1 | 0.97 | 0.23 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3285 | 1/1 | 0.97 | 0.49 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3038 | 1/1 | 0.97 | 0.05 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3094 | 1/1 | 0.97 | 0.28 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3414 | 1/1 | 0.97 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3358 | 1/1 | 0.97 | 0.03 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3427 | 1/1 | 0.97 | 0.20 | 60,60,60,60 | 0 |
| 56 | MG | 13 | 1635 | 1/1 | 0.97 | 0.23 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3408 | 1/1 | 0.97 | 0.12 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3306 | 1/1 | 0.97 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | 13 | 1610 | 1/1 | 0.97 | 0.13 | 77,77,77,77 | 0 |
| 56 | MG | 1G | 1676 | 1/1 | 0.97 | 0.17 | 97,97,97,97 | 0 |
| 56 | MG | 13 | 1753 | 1/1 | 0.97 | 0.07 | 64,64,64,64 | 0 |
| 56 | MG | 13 | 1603 | 1/1 | 0.97 | 0.21 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1679 | 1/1 | 0.97 | 0.10 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3042 | 1/1 | 0.97 | 0.58 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3341 | 1/1 | 0.97 | 0.19 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3416 | 1/1 | 0.97 | 0.05 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3202 | 1/1 | 0.97 | 0.28 | 65,65,65,65 | 0 |
| 56 | MG | 13 | 1739 | 1/1 | 0.97 | 0.06 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3072 | 1/1 | 0.97 | 0.21 | 33,33,33,33 | 0 |
| 56 | MG | 1H | 3095 | 1/1 | 0.97 | 0.31 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3394 | 1/1 | 0.97 | 0.08 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3092 | 1/1 | 0.97 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3025 | 1/1 | 0.97 | 0.32 | 32,32,32,32 | 0 |
| 56 | MG | 1G | 1683 | 1/1 | 0.97 | 0.04 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3338 | 1/1 | 0.97 | 0.07 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3065 | 1/1 | 0.97 | 0.27 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3393 | 1/1 | 0.97 | 0.10 | 61,61,61,61 | 0 |
| 58 | ZN | 5A | 101 | 1/1 | 0.97 | 0.07 | 130,130,130,130 | 0 |
| 56 | MG | 14 | 3312 | 1/1 | 0.97 | 0.10 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3436 | 1/1 | 0.97 | 0.04 | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1700 | 1/1 | 0.97 | 0.05 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3245 | 1/1 | 0.97 | 0.24 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3426 | 1/1 | 0.97 | 0.05 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3515 | 1/1 | 0.97 | 0.12 | 57,57,57,57 | 0 |
| 56 | MG | 13 | 1641 | 1/1 | 0.97 | 0.07 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1636 | 1/1 | 0.97 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3403 | 1/1 | 0.97 | 0.10 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3380 | 1/1 | 0.97 | 0.14 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3003 | 1/1 | 0.97 | 0.16 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3303 | 1/1 | 0.97 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3187 | 1/1 | 0.97 | 0.54 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3154 | 1/1 | 0.97 | 0.26 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3292 | 1/1 | 0.97 | 0.06 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3082 | 1/1 | 0.97 | 0.08 | 73,73,73,73 | 0 |
| 56 | MG | I8 | 101 | 1/1 | 0.97 | 0.04 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3108 | 1/1 | 0.97 | 0.09 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3223 | 1/1 | 0.97 | 0.16 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3002 | 1/1 | 0.97 | 0.20 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3039 | 1/1 | 0.97 | 0.42 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3266 | 1/1 | 0.97 | 0.21 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3355 | 1/1 | 0.97 | 0.11 | 40,40,40,40 | 0 |
| 56 | MG | 14 | 3259 | 1/1 | 0.97 | 0.09 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3425 | 1/1 | 0.97 | 0.09 | 39,39,39,39 | 0 |
| 56 | MG | 14 | 3281 | 1/1 | 0.97 | 0.11 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3340 | 1/1 | 0.97 | 0.11 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3230 | 1/1 | 0.97 | 0.26 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3387 | 1/1 | 0.97 | 0.10 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1726 | 1/1 | 0.97 | 0.08 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3017 | 1/1 | 0.97 | 0.34 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3352 | 1/1 | 0.97 | 0.11 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3303 | 1/1 | 0.97 | 0.12 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3396 | 1/1 | 0.97 | 0.11 | 41,41,41,41 | 0 |
| 56 | MG | 1H | 3246 | 1/1 | 0.97 | 0.31 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3371 | 1/1 | 0.97 | 0.06 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3365 | 1/1 | 0.97 | 0.18 | 50,50,50,50 | 0 |
| 56 | MG | 1G | 1640 | 1/1 | 0.97 | 0.37 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3449 | 1/1 | 0.97 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3339 | 1/1 | 0.97 | 0.04 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3512 | 1/1 | 0.97 | 0.10 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3051 | 1/1 | 0.97 | 0.37 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3071 | 1/1 | 0.97 | 0.60 | 52,52,52,52 | 0 |
| 56 | MG | 13 | 1621 | 1/1 | 0.97 | 0.08 | 84,84,84,84 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3009 | 1/1 | 0.97 | 0.23 | 41,41,41,41 | 0 |
| 56 | MG | 1H | 3289 | 1/1 | 0.97 | 0.15 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3296 | 1/1 | 0.97 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3323 | 1/1 | 0.97 | 0.08 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3381 | 1/1 | 0.97 | 0.04 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3357 | 1/1 | 0.97 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3292 | 1/1 | 0.97 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | 14 | 3032 | 1/1 | 0.97 | 0.43 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3175 | 1/1 | 0.97 | 0.15 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3246 | 1/1 | 0.97 | 0.31 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3011 | 1/1 | 0.97 | 0.38 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3307 | 1/1 | 0.97 | 0.15 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3280 | 1/1 | 0.97 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3386 | 1/1 | 0.97 | 0.09 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3038 | 1/1 | 0.97 | 0.23 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3226 | 1/1 | 0.97 | 0.26 | 51,51,51,51 | 0 |
| 56 | MG | 14 | 3249 | 1/1 | 0.98 | 0.10 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3015 | 1/1 | 0.98 | 0.19 | 80,80,80,80 | 0 |
| 56 | MG | 1G | 1690 | 1/1 | 0.98 | 0.03 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3206 | 1/1 | 0.98 | 0.17 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3325 | 1/1 | 0.98 | 0.06 | 66,66,66,66 | 0 |
| 58 | ZN | 5I | 102 | 1/1 | 0.98 | 0.13 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3036 | 1/1 | 0.98 | 0.21 | 45,45,45,45 | 0 |
| 56 | MG | 13 | 1714 | 1/1 | 0.98 | 0.12 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3233 | 1/1 | 0.98 | 0.66 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3399 | 1/1 | 0.98 | 0.08 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3304 | 1/1 | 0.98 | 0.20 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3040 | 1/1 | 0.98 | 0.31 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3298 | 1/1 | 0.98 | 0.11 | 46,46,46,46 | 0 |
| 56 | MG | 1G | 1613 | 1/1 | 0.98 | 0.18 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3346 | 1/1 | 0.98 | 0.18 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3433 | 1/1 | 0.98 | 0.18 | 37,37,37,37 | 0 |
| 56 | MG | 1G | 1601 | 1/1 | 0.98 | 0.14 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3237 | 1/1 | 0.98 | 0.20 | 41,41,41,41 | 0 |
| 56 | MG | 1H | 3481 | 1/1 | 0.98 | 0.10 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3465 | 1/1 | 0.98 | 0.06 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3365 | 1/1 | 0.98 | 0.13 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3416 | 1/1 | 0.98 | 0.12 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3258 | 1/1 | 0.98 | 0.11 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3043 | 1/1 | 0.98 | 0.28 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1698 | 1/1 | 0.98 | 0.14 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3121 | 1/1 | 0.98 | 0.60 | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1G | 1704 | 1/1 | 0.98 | 0.06 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1669 | 1/1 | 0.98 | 0.16 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3349 | 1/1 | 0.98 | 0.17 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3290 | 1/1 | 0.98 | 0.18 | 40,40,40,40 | 0 |
| 56 | MG | 13 | 1721 | 1/1 | 0.98 | 0.07 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3055 | 1/1 | 0.98 | 0.36 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3073 | 1/1 | 0.98 | 0.47 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3021 | 1/1 | 0.98 | 0.35 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3506 | 1/1 | 0.98 | 0.11 | 58,58,58,58 | 0 |
| 56 | MG | 13 | 1606 | 1/1 | 0.98 | 0.20 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3275 | 1/1 | 0.98 | 0.18 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3334 | 1/1 | 0.98 | 0.13 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3344 | 1/1 | 0.98 | 0.09 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3320 | 1/1 | 0.98 | 0.09 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3273 | 1/1 | 0.98 | 0.09 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3016 | 1/1 | 0.98 | 0.32 | 55,55,55,55 | 0 |
| 56 | MG | 13 | 1609 | 1/1 | 0.98 | 0.24 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3058 | 1/1 | 0.98 | 0.26 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3368 | 1/1 | 0.98 | 0.08 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3342 | 1/1 | 0.98 | 0.12 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3572 | 1/1 | 0.98 | 0.28 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3359 | 1/1 | 0.98 | 0.09 | 59,59,59,59 | 0 |
| 56 | MG | 1G | 1648 | 1/1 | 0.98 | 0.09 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3470 | 1/1 | 0.98 | 0.27 | 79,79,79,79 | 0 |
| 56 | MG | 1G | 1706 | 1/1 | 0.98 | 0.07 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3055 | 1/1 | 0.98 | 0.38 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3450 | 1/1 | 0.98 | 0.06 | 45,45,45,45 | 0 |
| 56 | MG | 13 | 1660 | 1/1 | 0.98 | 0.18 | 55,55,55,55 | 0 |
| 56 | MG | 13 | 1715 | 1/1 | 0.98 | 0.08 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3255 | 1/1 | 0.98 | 0.10 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3262 | 1/1 | 0.98 | 0.20 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3367 | 1/1 | 0.98 | 0.09 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3402 | 1/1 | 0.98 | 0.15 | 40,40,40,40 | 0 |
| 56 | MG | 14 | 3060 | 1/1 | 0.98 | 0.09 | 47,47,47,47 | 0 |
| 56 | MG | 1G | 1603 | 1/1 | 0.98 | 0.19 | 85,85,85,85 | 0 |
| 56 | MG | 1G | 1628 | 1/1 | 0.98 | 0.39 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3077 | 1/1 | 0.98 | 0.27 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3330 | 1/1 | 0.98 | 0.11 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3351 | 1/1 | 0.98 | 0.12 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3265 | 1/1 | 0.98 | 0.24 | 51,51,51,51 | 0 |
| 56 | MG | 14 | 3409 | 1/1 | 0.98 | 0.08 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3031 | 1/1 | 0.98 | 0.32 | 48,48,48,48 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3255 | 1/1 | 0.98 | 0.20 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3109 | 1/1 | 0.98 | 0.33 | 34,34,34,34 | 0 |
| 56 | MG | 1G | 1666 | 1/1 | 0.98 | 0.07 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3334 | 1/1 | 0.98 | 0.14 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3374 | 1/1 | 0.98 | 0.11 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3167 | 1/1 | 0.98 | 0.17 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3277 | 1/1 | 0.98 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | B5 | 101 | 1/1 | 0.98 | 0.09 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3022 | 1/1 | 0.98 | 0.23 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3294 | 1/1 | 0.98 | 0.16 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3080 | 1/1 | 0.98 | 0.28 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3069 | 1/1 | 0.98 | 0.16 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3309 | 1/1 | 0.98 | 0.08 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1699 | 1/1 | 0.98 | 0.04 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3343 | 1/1 | 0.98 | 0.14 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3299 | 1/1 | 0.98 | 0.07 | 35,35,35,35 | 0 |
| 56 | MG | 14 | 3054 | 1/1 | 0.98 | 0.26 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3322 | 1/1 | 0.98 | 0.07 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3339 | 1/1 | 0.98 | 0.13 | 41,41,41,41 | 0 |
| 56 | MG | 13 | 1619 | 1/1 | 0.98 | 0.19 | 51,51,51,51 | 0 |
| 56 | MG | 14 | 3039 | 1/1 | 0.98 | 0.24 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3026 | 1/1 | 0.98 | 0.17 | 71,71,71,71 | 0 |
| 56 | MG | 1G | 1670 | 1/1 | 0.99 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3045 | 1/1 | 0.99 | 0.30 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3114 | 1/1 | 0.99 | 0.23 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3313 | 1/1 | 0.99 | 0.15 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3309 | 1/1 | 0.99 | 0.13 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3423 | 1/1 | 0.99 | 0.16 | 33,33,33,33 | 0 |
| 56 | MG | 1H | 3367 | 1/1 | 0.99 | 0.15 | 40,40,40,40 | 0 |
| 56 | MG | 14 | 3266 | 1/1 | 0.99 | 0.24 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3264 | 1/1 | 0.99 | 0.15 | 59,59,59,59 | 0 |
| 56 | MG | 2L | 101 | 1/1 | 0.99 | 0.53 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3121 | 1/1 | 0.99 | 0.37 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3404 | 1/1 | 0.99 | 0.14 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3208 | 1/1 | 0.99 | 0.19 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3531 | 1/1 | 0.99 | 0.10 | 56,56,56,56 | 0 |
| 56 | MG | 45 | 202 | 1/1 | 0.99 | 0.14 | 66,66,66,66 | 0 |
| 57 | SF4 | 32 | 302 | 8/8 | 0.99 | 0.16 | 99,104,114,118 | 0 |
| 56 | MG | 1H | 3017 | 1/1 | 0.99 | 0.45 | 55,55,55,55 | 0 |
| 56 | MG | 21 | 303 | 1/1 | 0.99 | 0.12 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3276 | 1/1 | 0.99 | 0.09 | 56,56,56,56 | 0 |
| 56 | MG | 11 | 303 | 1/1 | 0.99 | 0.13 | 49,49,49,49 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3471 | 1/1 | 0.99 | 0.17 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3268 | 1/1 | 0.99 | 0.20 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3242 | 1/1 | 0.99 | 0.33 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3337 | 1/1 | 0.99 | 0.12 | 41,41,41,41 | 0 |
| 56 | MG | 1H | 3282 | 1/1 | 0.99 | 0.14 | 66,66,66,66 | 0 |
| 56 | MG | 13 | 1604 | 1/1 | 0.99 | 0.22 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3462 | 1/1 | 0.99 | 0.07 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3243 | 1/1 | 0.99 | 0.28 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3024 | 1/1 | 0.99 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3040 | 1/1 | 0.99 | 0.26 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3004 | 1/1 | 0.99 | 0.21 | 46,46,46,46 | 0 |
| 56 | MG | 13 | 1703 | 1/1 | 0.99 | 0.11 | 75,75,75,75 | 0 |
| 56 | MG | 1G | 1658 | 1/1 | 0.99 | 0.18 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3394 | 1/1 | 0.99 | 0.14 | 40,40,40,40 | 0 |
| 56 | MG | 1H | 3020 | 1/1 | 0.99 | 0.31 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3014 | 1/1 | 0.99 | 0.15 | 64,64,64,64 | 0 |
| 57 | SF4 | 3E | 301 | 8/8 | 0.99 | 0.19 | 75,82,92,93 | 0 |
| 56 | MG | 14 | 3051 | 1/1 | 0.99 | 0.35 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3371 | 1/1 | 0.99 | 0.15 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3355 | 1/1 | 0.99 | 0.10 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1716 | 1/1 | 0.99 | 0.07 | 88,88,88,88 | 0 |

6.5 Other polymers

There are no such residues in this entry.