



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 4, 2024 – 06:46 pm GMT

PDB ID : 4WQR
Title : Complex of 70S ribosome with tRNA-Phe and mRNA with C-A mismatch in the first position in the A-site.
Authors : Rozov, A.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2014-10-22
Resolution : 3.15 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

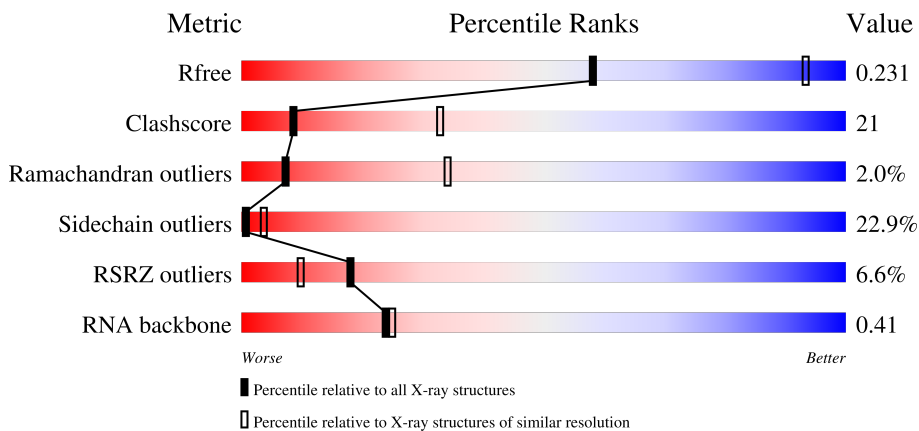
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.15 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 | 1665 (3.20-3.12) |
| Clashscore | 141614 | 1804 (3.20-3.12) |
| Ramachandran outliers | 138981 | 1770 (3.20-3.12) |
| Sidechain outliers | 138945 | 1769 (3.20-3.12) |
| RSRZ outliers | 127900 | 1616 (3.20-3.12) |
| RNA backbone | 3102 | 1073 (3.50-2.82) |

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 of 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 | 1522 | 27% 44% 24% . . |
| 1 | 1G | 1522 | 31% 46% 19% . . |
| 2 | 12 | 256 | 11% 48% 36% 8% 7% |
| 2 | 1E | 256 | 10% 38% 41% 13% 7% |

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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 | 6% 55% 38% |
| 16 | 7A | 88 | 2% 42% 40% 14% 5% |
| 16 | 7I | 88 | 30% 51% 15% 5% |
| 17 | 8A | 105 | 2% 50% 40% 5% 5% |
| 17 | 8I | 105 | 5% 40% 44% 11% 5% |
| 18 | 9A | 88 | 24% 38% 35% 9% 18% |
| 18 | 9I | 88 | 20% 43% 31% 8% 18% |
| 19 | AA | 93 | 12% 26% 49% 8% 16% |
| 19 | AI | 93 | 13% 30% 40% 15% 13% |
| 20 | BA | 106 | 3% 46% 36% 9% 7% |
| 20 | BI | 106 | 46% 38% 9% 7% |
| 21 | 1B | 27 | 44% 41% 7% 7% |
| 21 | 1F | 27 | 44% 44% 7% |
| 22 | 1K | 76 | 39% 36% 36% 25% 1% |
| 22 | 1L | 76 | 50% 30% 42% 26% 1% |
| 23 | 2K | 77 | 26% 42% 21% 12% |
| 23 | 2L | 77 | 29% 47% 18% 6% |
| 24 | 3K | 76 | 5% 25% 28% 39% 8% |
| 24 | 3L | 76 | 8% 17% 42% 37% 1% |
| 25 | 4K | 30 | 27% 17% 53% |
| 25 | 4L | 30 | 7% 10% 80% |
| 26 | 14 | 2917 | 24% 43% 27% 6% |
| 26 | 1H | 2917 | 18% 41% 32% 8% |
| 27 | 16 | 122 | 29% 42% 25% 1% |
| 27 | 1J | 122 | 24% 43% 27% 7% |

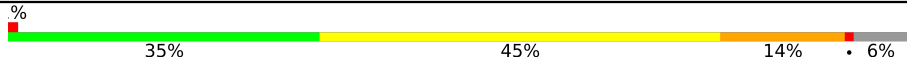

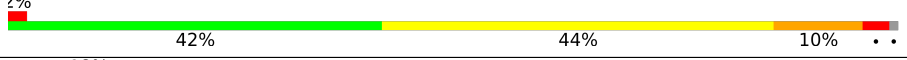
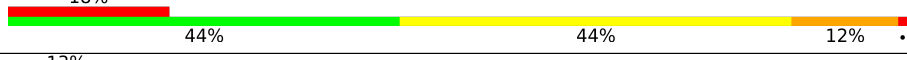
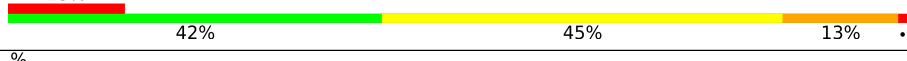
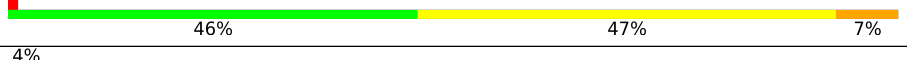
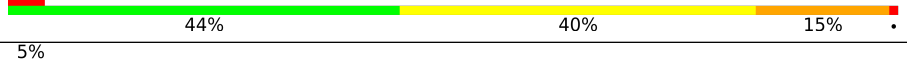
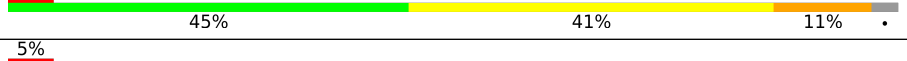
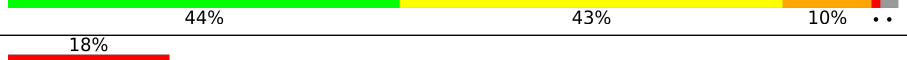
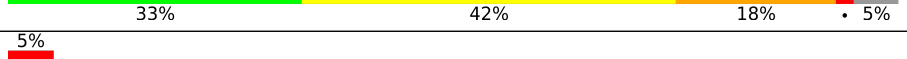
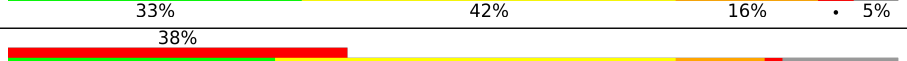
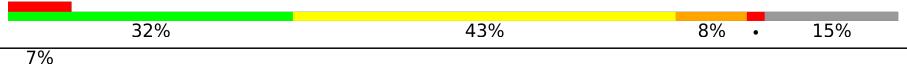
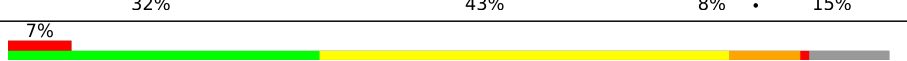
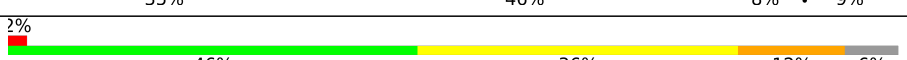
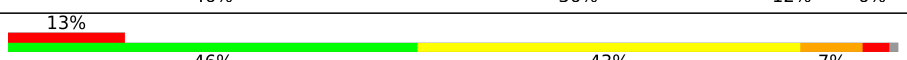

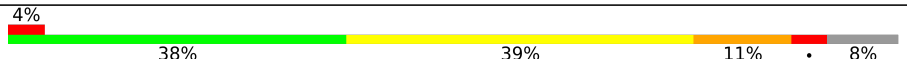
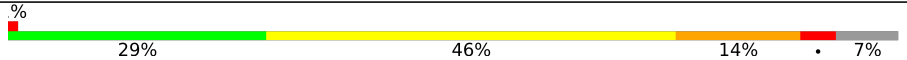
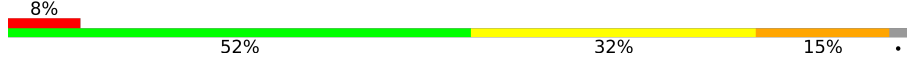

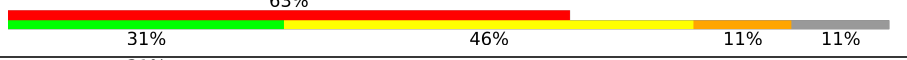
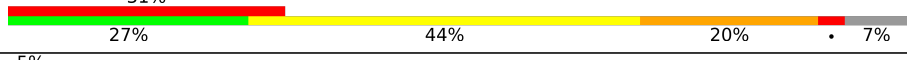

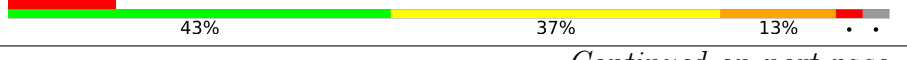

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|----------------------|
| 28 | 11 | 276 | 45% 41% 12% .. |
| 28 | 19 | 276 | 46% 39% 11% .. |
| 29 | 21 | 206 | 12% 42% 40% 15% . |
| 29 | 29 | 206 | 12% 38% 45% 15% . |
| 30 | 31 | 210 | 43% 41% 11% . |
| 30 | 39 | 210 | 12% 39% 43% 16% .. |
| 31 | 41 | 182 | 11% 52% 36% 11% . |
| 31 | 49 | 182 | 42% 47% 43% 10% . |
| 32 | 51 | 180 | 7% 41% 40% 16% .. |
| 32 | 59 | 180 | 26% 37% 44% 12% . 6% |
| 33 | 61 | 148 | 8% 36% 49% 11% .. |
| 33 | 69 | 148 | 17% 42% 39% 16% .. |
| 34 | 15 | 140 | 6% 50% 38% 11% . |
| 34 | 58 | 140 | 4% 44% 41% 13% .. |
| 35 | 25 | 122 | 2% 46% 45% 9% . |
| 35 | 68 | 122 | 2% 64% 31% . . |
| 36 | 35 | 150 | 19% 35% 43% 17% 5% . |
| 36 | 78 | 150 | 7% 36% 45% 18% . |
| 37 | 45 | 141 | 13% 33% 52% 14% . |
| 37 | 88 | 141 | 2% 38% 45% 13% .. |
| 38 | 55 | 118 | 3% 33% 52% 14% .. |
| 38 | 98 | 118 | 2% 34% 44% 19% . |
| 39 | 65 | 112 | 12% 41% 41% 13% . . |
| 39 | A8 | 112 | 4% 34% 48% 16% .. |
| 40 | 75 | 146 | 3% 35% 44% 15% 6% |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 40 | B8 | 146 |  |
| 41 | 85 | 118 |  |
| 41 | C8 | 118 |  |
| 42 | 95 | 101 |  |
| 42 | D8 | 101 |  |
| 43 | A5 | 113 |  |
| 43 | E8 | 113 |  |
| 44 | B5 | 96 |  |
| 44 | F8 | 96 |  |
| 45 | C5 | 110 |  |
| 45 | G8 | 110 |  |
| 46 | D5 | 206 |  |
| 46 | H8 | 206 |  |
| 47 | E5 | 85 |  |
| 47 | I8 | 85 |  |
| 48 | F5 | 98 |  |
| 48 | J8 | 98 |  |
| 49 | G5 | 72 |  |
| 49 | K8 | 72 |  |
| 50 | H5 | 60 |  |
| 50 | L8 | 60 |  |
| 51 | I5 | 71 |  |
| 51 | M8 | 71 |  |
| 52 | J5 | 60 |  |
| 52 | N8 | 60 |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 53 | K5 | 54 | |
| 53 | O8 | 54 | |
| 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 | 11 | 304 | - | - | - | X |
| 56 | MG | 13 | 1610 | - | - | - | X |
| 56 | MG | 13 | 1623 | - | - | - | X |
| 56 | MG | 13 | 1648 | - | - | - | X |
| 56 | MG | 13 | 1674 | - | - | - | X |
| 56 | MG | 13 | 1680 | - | - | - | X |
| 56 | MG | 13 | 1681 | - | - | - | X |
| 56 | MG | 13 | 1694 | - | - | - | X |
| 56 | MG | 13 | 1701 | - | - | - | X |
| 56 | MG | 13 | 1704 | - | - | - | X |
| 56 | MG | 14 | 3036 | - | - | - | X |
| 56 | MG | 14 | 3067 | - | - | - | X |
| 56 | MG | 14 | 3096 | - | - | - | X |
| 56 | MG | 14 | 3109 | - | - | - | X |
| 56 | MG | 14 | 3110 | - | - | - | X |
| 56 | MG | 14 | 3113 | - | - | - | X |
| 56 | MG | 14 | 3114 | - | - | - | X |
| 56 | MG | 14 | 3117 | - | - | - | X |
| 56 | MG | 14 | 3119 | - | - | - | X |
| 56 | MG | 14 | 3128 | - | - | - | X |
| 56 | MG | 14 | 3148 | - | - | - | X |
| 56 | MG | 14 | 3167 | - | - | - | X |
| 56 | MG | 14 | 3171 | - | - | - | X |
| 56 | MG | 14 | 3181 | - | - | - | X |
| 56 | MG | 14 | 3189 | - | - | - | X |
| 56 | MG | 14 | 3192 | - | - | - | X |
| 56 | MG | 14 | 3193 | - | - | - | X |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | 14 | 3195 | - | - | - | X |
| 56 | MG | 14 | 3197 | - | - | - | X |
| 56 | MG | 14 | 3199 | - | - | - | X |
| 56 | MG | 14 | 3201 | - | - | - | X |
| 56 | MG | 14 | 3214 | - | - | - | X |
| 56 | MG | 14 | 3215 | - | - | - | X |
| 56 | MG | 14 | 3218 | - | - | - | X |
| 56 | MG | 14 | 3219 | - | - | - | X |
| 56 | MG | 14 | 3240 | - | - | - | X |
| 56 | MG | 14 | 3245 | - | - | - | X |
| 56 | MG | 14 | 3252 | - | - | - | X |
| 56 | MG | 14 | 3253 | - | - | - | X |
| 56 | MG | 14 | 3255 | - | - | - | X |
| 56 | MG | 14 | 3257 | - | - | - | X |
| 56 | MG | 16 | 205 | - | - | - | X |
| 56 | MG | 1G | 1624 | - | - | - | X |
| 56 | MG | 1G | 1628 | - | - | - | X |
| 56 | MG | 1G | 1652 | - | - | - | X |
| 56 | MG | 1G | 1654 | - | - | - | X |
| 56 | MG | 1G | 1664 | - | - | - | X |
| 56 | MG | 1G | 1669 | - | - | - | X |
| 56 | MG | 1G | 1670 | - | - | - | X |
| 56 | MG | 1G | 1677 | - | - | - | X |
| 56 | MG | 1G | 1680 | - | - | - | X |
| 56 | MG | 1G | 1682 | - | - | - | X |
| 56 | MG | 1H | 3059 | - | - | - | X |
| 56 | MG | 1H | 3067 | - | - | - | X |
| 56 | MG | 1H | 3127 | - | - | - | X |
| 56 | MG | 1H | 3176 | - | - | - | X |
| 56 | MG | 1H | 3182 | - | - | - | X |
| 56 | MG | 1H | 3184 | - | - | - | X |
| 56 | MG | 1H | 3186 | - | - | - | X |
| 56 | MG | 1H | 3199 | - | - | - | X |
| 56 | MG | 1H | 3205 | - | - | - | X |
| 56 | MG | 1H | 3216 | - | - | - | X |
| 56 | MG | 1H | 3226 | - | - | - | X |
| 56 | MG | 1H | 3227 | - | - | - | X |
| 56 | MG | 1H | 3230 | - | - | - | X |
| 56 | MG | 1H | 3236 | - | - | - | X |
| 56 | MG | 1H | 3243 | - | - | - | X |
| 56 | MG | 1H | 3259 | - | - | - | X |
| 56 | MG | 1H | 3266 | - | - | - | X |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | 1H | 3268 | - | - | - | X |
| 56 | MG | 1H | 3274 | - | - | - | X |
| 56 | MG | 1H | 3279 | - | - | - | X |
| 56 | MG | 1H | 3282 | - | - | - | X |
| 56 | MG | 1H | 3285 | - | - | - | X |
| 56 | MG | 1H | 3286 | - | - | - | X |
| 56 | MG | 1H | 3290 | - | - | - | X |
| 56 | MG | 1H | 3292 | - | - | - | X |
| 56 | MG | 1H | 3293 | - | - | - | X |
| 56 | MG | 1H | 3296 | - | - | - | X |
| 56 | MG | 1H | 3301 | - | - | - | X |
| 56 | MG | 1H | 3307 | - | - | - | X |
| 56 | MG | 1H | 3327 | - | - | - | X |
| 56 | MG | 1H | 3333 | - | - | - | X |
| 56 | MG | 1H | 3335 | - | - | - | X |
| 56 | MG | 29 | 302 | - | - | - | X |
| 56 | MG | 2L | 102 | - | - | - | X |
| 56 | MG | 4A | 201 | - | - | - | X |
| 56 | MG | P8 | 101 | - | - | - | X |
| 57 | ZN | G8 | 201 | - | - | - | X |

2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 300537 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 |
|-----|-------|----------|----------------|------------|-----------|------------|-----------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 1 | 13 | 1498 | Total 32207 | C 14334 | N 5973 | O 10402 | P 1498 | 0 | 0 | 0 |
| 1 | 1G | 1497 | Total 32182 | C 14324 | N 5968 | O 10394 | P 1496 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 2 | 1E | 237 | Total 1924 | C 1228 | N 344 | O 347 | S 5 | 0 | 0 | 0 |
| 2 | 12 | 237 | Total 1924 | C 1228 | N 344 | O 347 | S 5 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 3 | 2E | 205 | Total 1605 | C 1011 | N 313 | O 280 | S 1 | 0 | 0 | 0 |
| 3 | 22 | 206 | Total 1612 | C 1016 | N 314 | O 281 | S 1 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 4 | 3E | 208 | Total 1703 | C 1066 | N 339 | O 291 | S 7 | 0 | 0 | 0 |
| 4 | 32 | 208 | Total 1703 | C 1066 | N 339 | O 291 | S 7 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 5 | 4E | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1155 | 729 | 218 | 204 | 4 | | | |
| 5 | 42 | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1155 | 729 | 218 | 204 | 4 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | 5E | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 531 | 155 | 154 | 3 | | | |
| 6 | 52 | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 531 | 155 | 154 | 3 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7 | 6E | 155 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1257 | 781 | 252 | 218 | 6 | | | |
| 7 | 62 | 155 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1257 | 781 | 252 | 218 | 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 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |
| 8 | 72 | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 9 | 8E | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1010 | 639 | 197 | 174 | | | |
| 9 | 82 | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1010 | 639 | 197 | 174 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | 1I | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 801 | 504 | 157 | 139 | 1 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 10 | 1A | 99 | 801 | 504 | 157 | 139 | 1 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 11 | 2I | 119 | 885 | 549 | 168 | 165 | 3 | 0 | 0 | 0 |
| 11 | 2A | 119 | 885 | 549 | 168 | 165 | 3 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 12 | 3I | 125 | 975 | 614 | 196 | 164 | 1 | 0 | 0 | 0 |
| 12 | 3A | 125 | 975 | 614 | 196 | 164 | 1 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 13 | 4I | 118 | 938 | 580 | 193 | 163 | 2 | 0 | 0 | 0 |
| 13 | 4A | 117 | 933 | 577 | 192 | 162 | 2 | 0 | 0 | 0 |

There are 2 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|------------|
| 4I | 119 | ALA | GLY | conflict | UNP P80377 |
| 4A | 119 | ALA | GLY | conflict | UNP P80377 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 14 | 5I | 60 | 492 | 312 | 104 | 72 | 4 | 0 | 0 | 0 |
| 14 | 5A | 58 | 476 | 303 | 99 | 70 | 4 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 15 | 6I | 88 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 734 | 459 | 147 | 126 | 2 | | | |
| 15 | 6A | 88 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 734 | 459 | 147 | 126 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 16 | 7I | 84 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 705 | 446 | 140 | 118 | 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 | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 834 | 534 | 155 | 143 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 18 | 9I | 72 | Total | C | N | O | 0 | 0 | 0 |
| | | | 591 | 376 | 117 | 98 | | | |
| 18 | 9A | 72 | Total | C | N | O | 0 | 0 | 0 |
| | | | 591 | 376 | 117 | 98 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 19 | AI | 81 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 647 | 413 | 119 | 113 | 2 | | | |
| 19 | AA | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 624 | 398 | 115 | 109 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 20 | BI | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 763 | 470 | 162 | 129 | 2 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 20 | BA | 99 | 763 | 470 | 162 | 129 | 2 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| | | | Total | C | N | O | | | |
| 21 | 1F | 25 | 217 | 134 | 52 | 31 | 0 | 0 | 0 |
| 21 | 1B | 25 | 217 | 134 | 52 | 31 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| | | | Total | C | N | O | P | S | | | |
| 22 | 1K | 76 | 1626 | 729 | 290 | 531 | 75 | 1 | 0 | 0 | 0 |
| 22 | 1L | 76 | 1626 | 729 | 290 | 531 | 75 | 1 | 0 | 0 | 0 |

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

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

There are 2 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|--------------|
| 2K | 18 | C | U | conflict | GB 675817920 |
| 2L | 18 | C | U | conflict | GB 675817920 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 24 | 3K | 76 | 1619 | 723 | 290 | 531 | 75 | 0 | 0 | 0 |
| 24 | 3L | 76 | 1619 | 723 | 290 | 531 | 75 | 0 | 0 | 0 |

- Molecule 25 is a RNA chain called mRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|----|---------|---------|-------|
| 25 | 4K | 14 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 301 | 136 | 60 | 91 | 14 | | | |
| 25 | 4L | 6 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 131 | 59 | 27 | 39 | 6 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 26 | 1H | 2912 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 62707 | 27911 | 11722 | 20163 | 2911 | | | |
| 26 | 14 | 2909 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 62647 | 27884 | 11716 | 20139 | 2908 | | | |

There are 6 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|-----------|
| 1H | 161 | U | - | insertion | GB 48268 |
| 1H | 493 | G | - | insertion | GB 48268 |
| 1H | 1228 | G | - | insertion | GB 48268 |
| 14 | 161 | U | - | insertion | GB 48268 |
| 14 | 493 | G | - | insertion | GB 48268 |
| 14 | 1228 | G | - | insertion | GB 48268 |

- 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 L2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 28 | 11 | 273 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2120 | 1338 | 421 | 358 | 3 | | | |
| 28 | 19 | 273 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2120 | 1338 | 421 | 358 | 3 | | | |

- Molecule 29 is a protein called 50S ribosomal protein L3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 29 | 21 | 205 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1568 | 991 | 300 | 271 | 6 | | | |
| 29 | 29 | 205 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1568 | 991 | 300 | 271 | 6 | | | |

- Molecule 30 is a protein called 50S ribosomal protein L4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 30 | 31 | 202 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1585 | 1011 | 297 | 275 | 2 | | | |
| 30 | 39 | 208 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1627 | 1037 | 304 | 283 | 3 | | | |

- Molecule 31 is a protein called 50S ribosomal protein L5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 31 | 41 | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1473 | 942 | 268 | 259 | 4 | | | |
| 31 | 49 | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1473 | 942 | 268 | 259 | 4 | | | |

- Molecule 32 is a protein called 50S ribosomal protein L6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 32 | 51 | 174 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1336 | 848 | 251 | 236 | 1 | | | |
| 32 | 59 | 170 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1307 | 829 | 245 | 232 | 1 | | | |

- Molecule 33 is a protein called 50S ribosomal protein L9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 33 | 61 | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1136 | 726 | 201 | 208 | 1 | | | |
| 33 | 69 | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1136 | 726 | 201 | 208 | 1 | | | |

- Molecule 34 is a protein called 50S ribosomal protein L13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 34 | 58 | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1104 | 712 | 206 | 182 | 4 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 34 | 15 | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1104 | 712 | 206 | 182 | 4 | | | |

- Molecule 35 is a protein called 50S ribosomal protein L14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 35 | 68 | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 933 | 588 | 171 | 170 | 4 | | | |
| 35 | 25 | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 933 | 588 | 171 | 170 | 4 | | | |

- Molecule 36 is a protein called 50S ribosomal protein L15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36 | 78 | 150 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1145 | 712 | 232 | 198 | 3 | | | |
| 36 | 35 | 150 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1145 | 712 | 232 | 198 | 3 | | | |

- Molecule 37 is a protein called 50S ribosomal protein L16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37 | 88 | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1087 | 693 | 208 | 180 | 6 | | | |
| 37 | 45 | 141 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1122 | 715 | 212 | 188 | 7 | | | |

- Molecule 38 is a protein called 50S ribosomal protein L17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 38 | 98 | 118 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 968 | 604 | 203 | 160 | 1 | | | |
| 38 | 55 | 117 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 960 | 599 | 202 | 159 | | | | |

- Molecule 39 is a protein called 50S ribosomal protein L18.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 39 | A8 | 111 | Total | C | N | O | 0 | 0 | 0 |
| | | | 882 | 556 | 176 | 150 | | | |
| 39 | 65 | 111 | Total | C | N | O | 0 | 0 | 0 |
| | | | 882 | 556 | 176 | 150 | | | |

- Molecule 40 is a protein called 50S ribosomal protein L19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 40 | B8 | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1141 | 710 | 234 | 196 | 1 | | | |
| 40 | 75 | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1141 | 710 | 234 | 196 | 1 | | | |

- Molecule 41 is a protein called 50S ribosomal protein L20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 41 | C8 | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 964 | 610 | 202 | 151 | 1 | | | |
| 41 | 85 | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 964 | 610 | 202 | 151 | 1 | | | |

- Molecule 42 is a protein called 50S ribosomal protein L21.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 42 | D8 | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 779 | 501 | 142 | 135 | 1 | | | |
| 42 | 95 | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 779 | 501 | 142 | 135 | 1 | | | |

- Molecule 43 is a protein called 50S ribosomal protein L22.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 43 | E8 | 113 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 900 | 566 | 177 | 155 | 2 | | | |
| 43 | A5 | 113 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 900 | 566 | 177 | 155 | 2 | | | |

- Molecule 44 is a protein called 50S ribosomal protein L23.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 44 | F8 | 94 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 742 | 482 | 134 | 125 | 1 | | | |
| 44 | B5 | 93 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 730 | 474 | 132 | 124 | | | | |

- Molecule 45 is a protein called 50S ribosomal protein L24.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 45 | G8 | 104 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 791 | 510 | 149 | 127 | 5 | | | |
| 45 | C5 | 104 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 794 | 510 | 152 | 127 | 5 | | | |

- Molecule 46 is a protein called 50S ribosomal protein L25.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 46 | H8 | 175 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1397 | 892 | 251 | 251 | 3 | | | |
| 46 | D5 | 179 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1428 | 911 | 255 | 259 | 3 | | | |

- Molecule 47 is a protein called 50S ribosomal protein L27.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 47 | I8 | 80 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 627 | 388 | 132 | 106 | 1 | | | |
| 47 | E5 | 77 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 613 | 379 | 129 | 104 | 1 | | | |

There are 4 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|------------|
| I8 | 6 | ALA | GLY | conflict | UNP P60493 |
| I8 | 8 | ALA | GLY | conflict | UNP P60493 |
| E5 | 6 | ALA | GLY | conflict | UNP P60493 |
| E5 | 8 | ALA | GLY | conflict | UNP P60493 |

- Molecule 48 is a protein called 50S ribosomal protein L28.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 48 | J8 | 97 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 763 | 481 | 150 | 131 | 1 | | | |
| 48 | F5 | 97 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 763 | 481 | 150 | 131 | 1 | | | |

- Molecule 49 is a protein called 50S ribosomal protein L29.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 49 | K8 | 67 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 563 | 349 | 114 | 99 | 1 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 49 | G5 | 66 | 558 | 346 | 113 | 98 | 1 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| | | | Total | C | N | O | | | |
| 50 | L8 | 57 | 452 | 288 | 88 | 76 | 0 | 0 | 0 |
| 50 | H5 | 59 | 469 | 298 | 90 | 81 | 0 | 0 | 0 |

- Molecule 51 is a protein called 50S ribosomal protein L31.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 51 | M8 | 66 | 533 | 335 | 96 | 97 | 5 | 0 | 0 | 0 |
| 51 | I5 | 63 | 515 | 326 | 93 | 91 | 5 | 0 | 0 | 0 |

- Molecule 52 is a protein called 50S ribosomal protein L32.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 52 | N8 | 58 | 454 | 285 | 89 | 75 | 5 | 0 | 0 | 0 |
| 52 | J5 | 59 | 459 | 288 | 90 | 76 | 5 | 0 | 0 | 0 |

- Molecule 53 is a protein called 50S ribosomal protein L33.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 53 | O8 | 45 | 389 | 241 | 79 | 65 | 4 | 0 | 0 | 0 |
| 53 | K5 | 45 | 389 | 241 | 79 | 65 | 4 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 54 | P8 | 48 | 418 | 257 | 104 | 55 | 2 | 0 | 0 | 0 |
| 54 | L5 | 46 | 398 | 245 | 98 | 53 | 2 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 55 | Q8 | 60 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 480 | 306 | 98 | 74 | 2 | | | |
| 55 | M5 | 60 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 477 | 303 | 98 | 74 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|-----|---------|---------|
| 56 | 13 | 151 | Total | Mg | 0 | 0 |
| | | | 151 | 151 | | |
| 56 | 3E | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 5E | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 56 | 3I | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 56 | AI | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 56 | 1K | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 2K | 3 | Total | Mg | 0 | 0 |
| | | | 3 | 3 | | |
| 56 | 1H | 529 | Total | Mg | 0 | 0 |
| | | | 529 | 529 | | |
| 56 | 16 | 13 | Total | Mg | 0 | 0 |
| | | | 13 | 13 | | |
| 56 | 11 | 4 | Total | Mg | 0 | 0 |
| | | | 4 | 4 | | |
| 56 | 21 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 31 | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 56 | 41 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 78 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 88 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 56 | 98 | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 56 | C8 | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |

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| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|---------------------|---------|---------|
| 56 | E8 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | I8 | 2 | Total Mg 2 2 | 0 | 0 |
| 56 | J8 | 2 | Total Mg 2 2 | 0 | 0 |
| 56 | L8 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | P8 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | Q8 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 1G | 103 | Total Mg 103 103 | 0 | 0 |
| 56 | 4A | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 6A | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 2L | 2 | Total Mg 2 2 | 0 | 0 |
| 56 | 14 | 389 | Total Mg 389 389 | 0 | 0 |
| 56 | 1J | 9 | Total Mg 9 9 | 0 | 0 |
| 56 | 29 | 2 | Total Mg 2 2 | 0 | 0 |
| 56 | 49 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 35 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 75 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | 85 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | C5 | 1 | Total Mg 1 1 | 0 | 0 |
| 56 | F5 | 1 | Total Mg 1 1 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 57 | 3E | 1 | Total Zn 1 1 | 0 | 0 |
| 57 | 5I | 1 | Total Zn 1 1 | 0 | 0 |
| 57 | G8 | 1 | Total Zn 1 1 | 0 | 0 |
| 57 | 32 | 1 | Total Zn 1 1 | 0 | 0 |
| 57 | 5A | 1 | Total Zn 1 1 | 0 | 0 |
| 57 | C5 | 1 | Total Zn 1 1 | 0 | 0 |

- Molecule 58 is water.

| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|----------------------|---------|---------|
| 58 | 13 | 212 | Total O 212 212 | 0 | 0 |
| 58 | 3E | 1 | Total O 1 1 | 0 | 0 |
| 58 | 4E | 2 | Total O 2 2 | 0 | 0 |
| 58 | 8E | 2 | Total O 2 2 | 0 | 0 |
| 58 | 1I | 2 | Total O 2 2 | 0 | 0 |
| 58 | 3I | 1 | Total O 1 1 | 0 | 0 |
| 58 | 5I | 2 | Total O 2 2 | 0 | 0 |
| 58 | 1K | 1 | Total O 1 1 | 0 | 0 |
| 58 | 3K | 1 | Total O 1 1 | 0 | 0 |
| 58 | 4K | 4 | Total O 4 4 | 0 | 0 |
| 58 | 1H | 1097 | Total O 1097 1097 | 0 | 0 |
| 58 | 16 | 16 | Total O 16 16 | 0 | 0 |
| 58 | 11 | 9 | Total O 9 9 | 0 | 0 |
| 58 | 21 | 5 | Total O 5 5 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|--------------------|---------|---------|
| 58 | 31 | 10 | Total O 10 10 | 0 | 0 |
| 58 | 58 | 1 | Total O 1 1 | 0 | 0 |
| 58 | 78 | 4 | Total O 4 4 | 0 | 0 |
| 58 | 98 | 1 | Total O 1 1 | 0 | 0 |
| 58 | C8 | 2 | Total O 2 2 | 0 | 0 |
| 58 | D8 | 1 | Total O 1 1 | 0 | 0 |
| 58 | E8 | 2 | Total O 2 2 | 0 | 0 |
| 58 | G8 | 3 | Total O 3 3 | 0 | 0 |
| 58 | I8 | 6 | Total O 6 6 | 0 | 0 |
| 58 | L8 | 2 | Total O 2 2 | 0 | 0 |
| 58 | P8 | 2 | Total O 2 2 | 0 | 0 |
| 58 | Q8 | 2 | Total O 2 2 | 0 | 0 |
| 58 | 1G | 99 | Total O 99 99 | 0 | 0 |
| 58 | 7A | 2 | Total O 2 2 | 0 | 0 |
| 58 | BA | 1 | Total O 1 1 | 0 | 0 |
| 58 | 14 | 730 | Total O 730 730 | 0 | 0 |
| 58 | 1J | 12 | Total O 12 12 | 0 | 0 |
| 58 | 19 | 11 | Total O 11 11 | 0 | 0 |
| 58 | 29 | 6 | Total O 6 6 | 0 | 0 |
| 58 | 39 | 7 | Total O 7 7 | 0 | 0 |
| 58 | 55 | 1 | Total O 1 1 | 0 | 0 |

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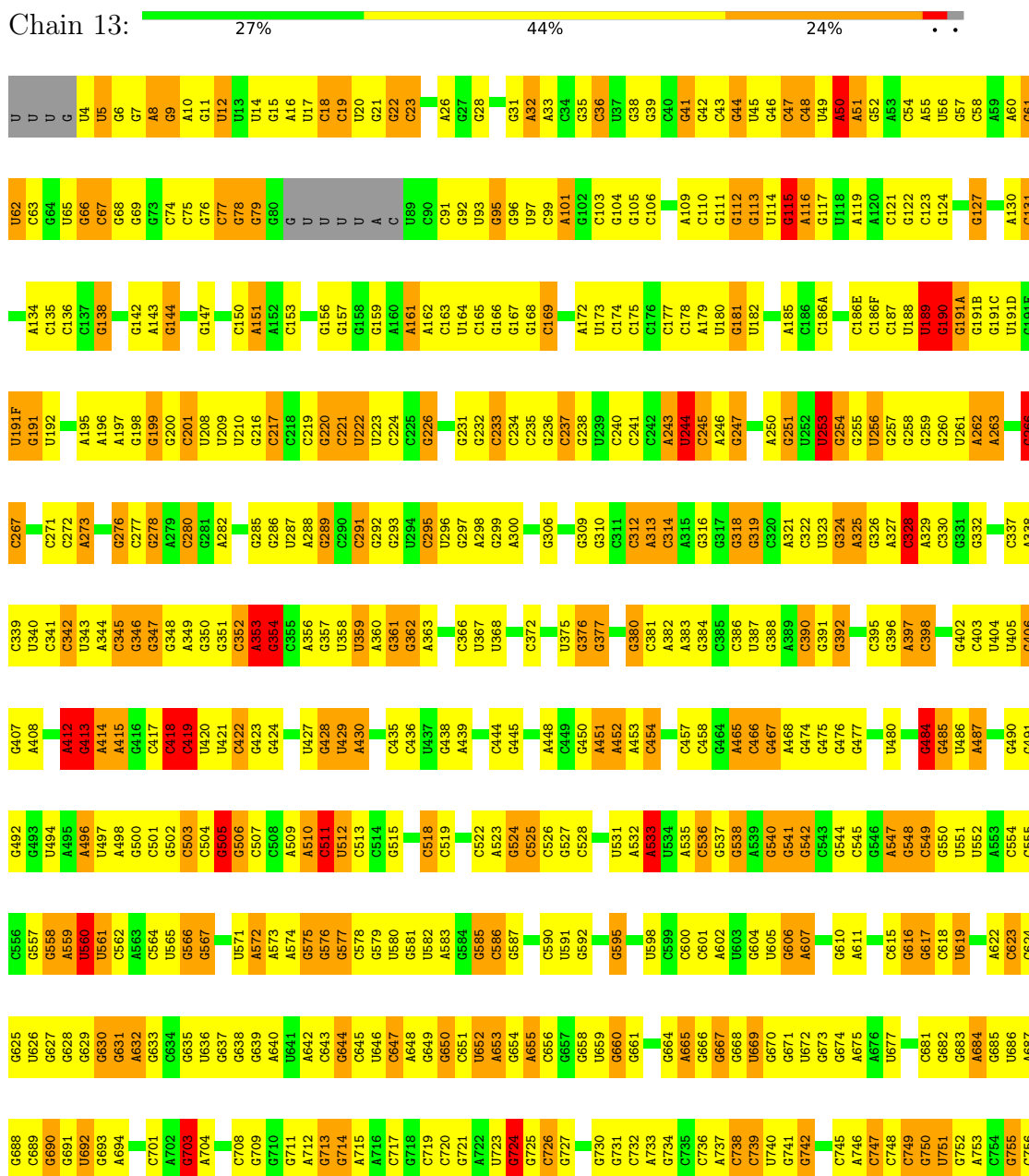
Continued from previous page...

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|------------|--------------|-----------------|--------------|--------|----------------|----------------|
| 58 | 85 | 1 | Total 1 | O 1 | 0 | 0 |
| 58 | A5 | 1 | Total 1 | O 1 | 0 | 0 |
| 58 | H5 | 1 | Total 1 | O 1 | 0 | 0 |
| 58 | L5 | 1 | Total 1 | O 1 | 0 | 0 |

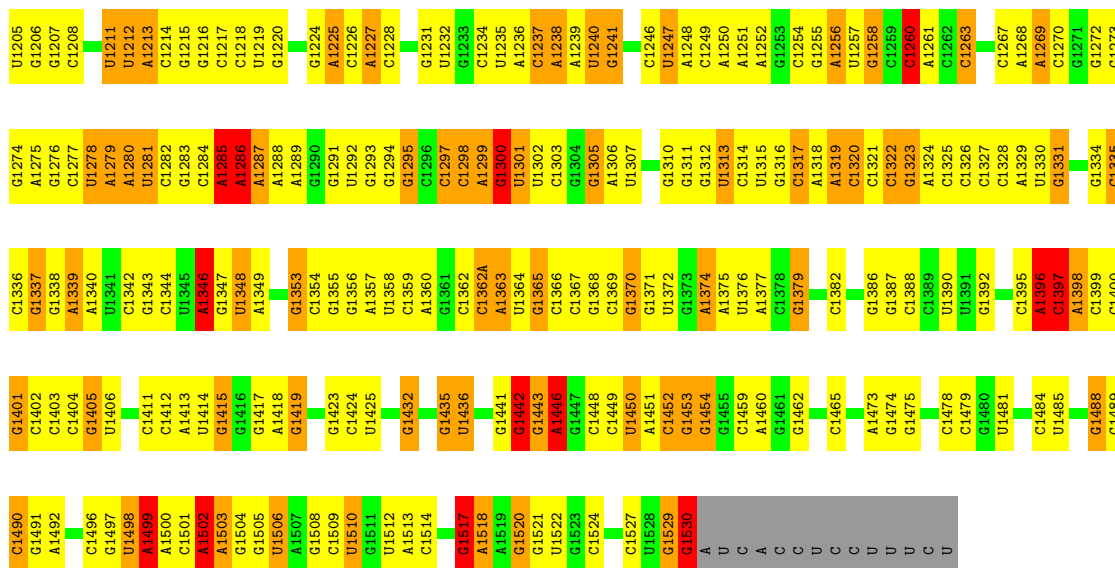
3 Residue-property plots

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

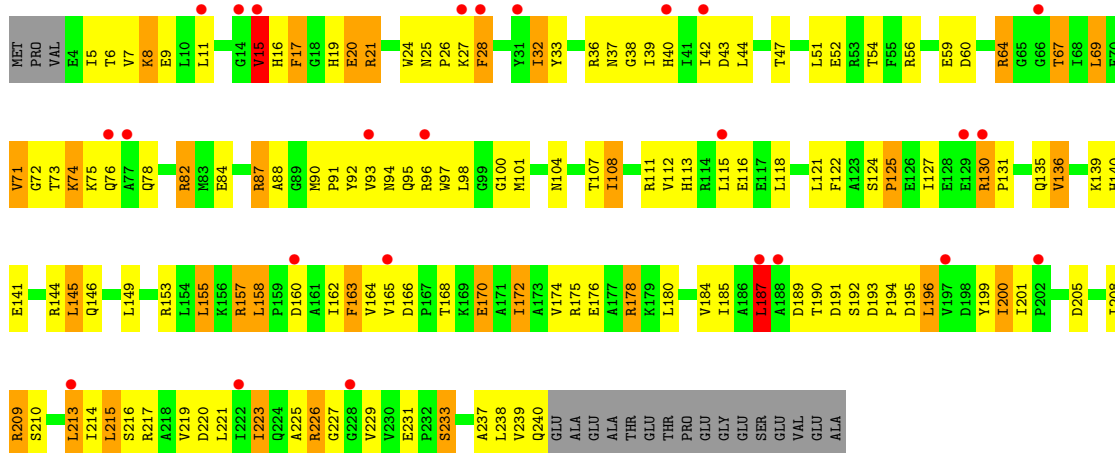
- Molecule 1: 16S ribosomal RNA



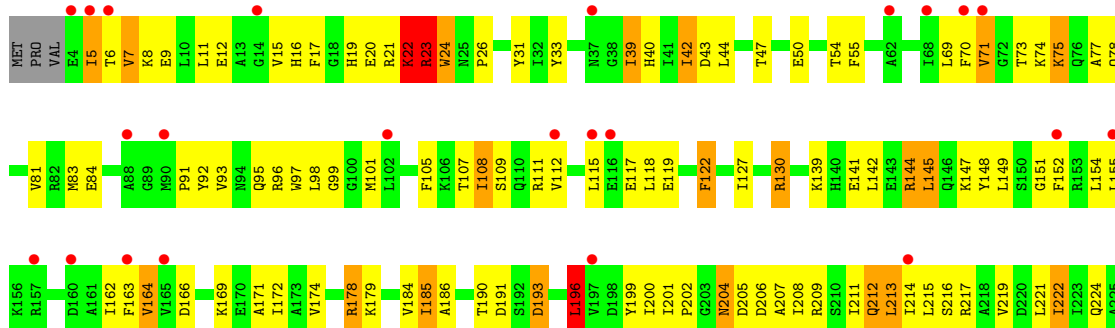
| | | | | | | | | | | | | |
|--------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| G1139 | G1072 | G1009 | C947 | C736 | G662 | C589 | C525 | C442 | A373 | G305 | A298 | G157 |
| C1140 | U1073 | G1010 | C948 | A737 | A663 | C590 | C526 | C443 | A374 | G306 | U229 | A162 |
| C1141 | G1074 | G1013 | A949 | C738 | A664 | C591 | G527 | C444 | U375 | C309 | G230 | C163 |
| G1142 | U1075 | G1014 | G885 | C812 | A665 | C592 | C528 | C445 | G376 | G310 | G231 | U164 |
| G1143 | G1076 | A1014 | G886 | G741 | G666 | C593 | G529 | C446 | G377 | A313 | G232 | C165 |
| C1144 | U1077 | A1015 | G887 | G742 | G667 | C594 | G530 | C447 | A382 | C314 | C233 | G166 |
| C1145 | G1078 | A1016 | G888 | U743 | G668 | C595 | U531 | A448 | A383 | A315 | G234 | G167 |
| A1146 | U1079 | G1017 | A889 | C744 | U669 | C596 | A532 | C449 | A384 | C316 | G235 | G168 |
| C1147 | A1080 | G1020 | C817 | C745 | G670 | C597 | A533 | G450 | A385 | A317 | G236 | A169 |
| U1148 | G1081 | U1021 | G818 | A746 | G671 | C600 | U534 | A451 | G388 | G316 | C237 | U173 |
| C1149 | U1082 | G1023 | A819 | C747 | G672 | C601 | A535 | A452 | A389 | G317 | C240 | C174 |
| U1150 | U1083 | U820 | A892 | C748 | A674 | C602 | G536 | A453 | C390 | G318 | C175 | C176 |
| A1151 | G1084 | G821 | C893 | C749 | A675 | C603 | G537 | A454 | G391 | G319 | C177 | C178 |
| A1152 | U1085 | C822 | G894 | G750 | A676 | C604 | G538 | C457 | G392 | C320 | A243 | U180 |
| C1153 | U1086 | G823 | C895 | U751 | U677 | U605 | G539 | C458 | A393 | A321 | U244 | U181 |
| G1154 | C962 | C824 | C896 | C754 | C880 | A607 | A539 | C459 | G396 | G322 | C245 | C187 |
| A1092 | G963 | U825 | G897 | G755 | G881 | A608 | G540 | C464 | G397 | U323 | C246 | U188 |
| G1155 | C964 | C826 | C898 | G756 | C882 | A609 | C541 | A465 | A398 | G324 | G247 | U189 |
| C1028A | A965 | A828 | A900 | U757 | G883 | A614 | G544 | A466 | G399 | A325 | C248 | G181 |
| C1028B | A966 | G829 | A801 | G758 | A684 | C615 | C545 | A467 | C400 | G326 | U249 | U182 |
| G1029 | C967 | C830 | A802 | U759 | G885 | G616 | C546 | A468 | C401 | A327 | U250 | G183 |
| U1030 | C968 | U831 | G803 | G760 | U686 | G617 | A547 | C475 | G402 | C328 | G251 | C186A |
| G1031 | A968 | U832 | G804 | G761 | A687 | G618 | U552 | C476 | G403 | A329 | U252 | C186B |
| A1032 | A969 | C833 | C904 | G762 | G688 | C619 | A553 | C477 | U404 | C330 | U253 | G186C |
| G1032A | C970 | G834 | U905 | G763 | G689 | U619 | A554 | U480 | U405 | G331 | G254 | C186D |
| G1032B | C971 | G835 | G906 | G764 | G690 | C620 | C554 | U481 | G406 | G332 | G255 | C187 |
| C972 | C972 | C836 | A909 | G765 | G691 | A621 | C555 | G482 | G407 | G333 | G256 | U191D |
| A1034 | A973 | U841 | C910 | A766 | G692 | A622 | C556 | A483 | A414 | C341 | G266 | G191E |
| G1035 | G974 | C842 | C911 | U767 | U692 | G622 | C557 | A484 | A415 | C342 | C267 | U191F |
| U1036 | A975 | U843 | U911 | A768 | G693 | A623 | C558 | C485 | G416 | C343 | C268 | G191 |
| G1037 | U976 | C848 | C912 | G769 | A694 | C624 | G559 | C486 | C417 | C344 | G275 | U192 |
| U1038 | A977 | C849 | C913 | U770 | A695 | G625 | A559 | C487 | C418 | C345 | C280 | A195 |
| C1038A | A978 | U850 | A914 | U771 | U697 | U626 | U560 | C488 | C419 | C346 | C281 | A196 |
| U1040 | C979 | G851 | A915 | G772 | C701 | G627 | U561 | C489 | U420 | C347 | C282 | A197 |
| A1041 | C980 | G852 | C916 | G773 | A702 | G628 | C562 | C490 | U421 | C348 | C283 | G198 |
| G1042 | U981 | U853 | G917 | U774 | G703 | G629 | C563 | C491 | U422 | C349 | C284 | G199 |
| C1043 | U982 | C854 | A918 | A777 | A704 | G630 | C564 | U496 | G423 | C350 | G285 | G200 |
| A1046 | A983 | G855 | A919 | G778 | A705 | G631 | U565 | U497 | G424 | C351 | G286 | C201 |
| G1047 | C984 | C856 | C920 | C779 | G706 | U632 | G566 | U498 | G425 | C352 | G287 | U208 |
| U1048 | C985 | C857 | A922 | A780 | C707 | G633 | G567 | U499 | G426 | C353 | G288 | U210 |
| G1048A | A986 | G858 | A923 | U781 | C708 | U634 | G568 | U498 | U427 | C354 | G289 | G216 |
| U1049 | G987 | U859 | C924 | A782 | G709 | U635 | C569 | U500 | U428 | C355 | U296 | G217 |
| G1050 | U988 | A860 | G925 | C783 | G710 | G636 | C570 | C501 | U429 | C356 | G297 | C218 |
| C1051 | U989 | G861 | G926 | C784 | G711 | U637 | U571 | C502 | U430 | C357 | A298 | C219 |
| U1052 | U990 | C862 | G927 | G785 | G712 | G638 | A572 | C503 | U431 | C358 | G299 | G220 |
| G1053 | G993 | C863 | C932 | U786 | G713 | U639 | A573 | C504 | U432 | C359 | A300 | C221 |
| C1054 | A994 | A865 | C933 | A790 | G714 | A640 | A574 | C505 | G426 | C360 | G301 | U222 |
| U1055 | C995 | C868 | G934 | U791 | A715 | A641 | G575 | G505 | U427 | G361 | G302 | U223 |
| G1056 | G996 | A869 | A935 | A792 | A716 | A642 | G576 | A509 | U428 | C433 | A303 | G227 |
| U1057 | C997 | C870 | C935 | U793 | C720 | U646 | G577 | A510 | U429 | C434 | A304 | C218 |
| G1058 | C998A | U870 | C936 | A794 | G721 | C647 | C578 | C511 | U430 | C435 | A305 | C219 |
| C1059 | U999 | U871 | A837 | U794 | A722 | A648 | C579 | U512 | U431 | C436 | A306 | C220 |
| U1060 | A1000 | A872 | A938 | G798 | U723 | G649 | G580 | C513 | U432 | U367 | G307 | U222 |
| G1061 | G1001 | A873 | C939 | U801 | G724 | G650 | G581 | C514 | U433 | C437 | G308 | U223 |
| U1062 | U1002 | G874 | G940 | U802 | G725 | C651 | U582 | C515 | C434 | C438 | A309 | G227 |
| G1063 | G1003 | C975 | G941 | A803 | C851 | U652 | A583 | C516 | U435 | C439 | A310 | C219 |
| A1004 | A1004 | G942 | G942 | G803 | A728 | A653 | G584 | A520 | C436 | C440 | A311 | G220 |
| U1065 | U1005 | U843 | U843 | U804 | A729 | A654 | G585 | G521 | U437 | U367 | G309 | U222 |
| C1006 | C1006 | G944 | G944 | C905 | G730 | U659 | C886 | C522 | G438 | C440 | A312 | G227 |
| U1067 | C1007 | G945 | G945 | C906 | G731 | G660 | C887 | A523 | A439 | A313 | A303 | G227 |
| G1068 | C1008 | A946 | A946 | A907 | C735 | G661 | G888 | G524 | A440 | A314 | A304 | G227 |

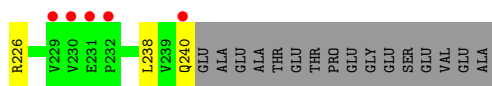


• Molecule 2: 30S ribosomal protein S2

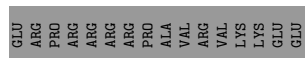
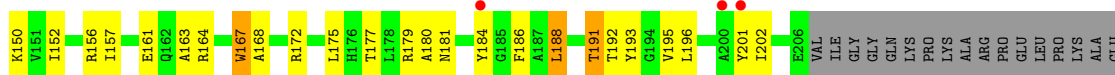
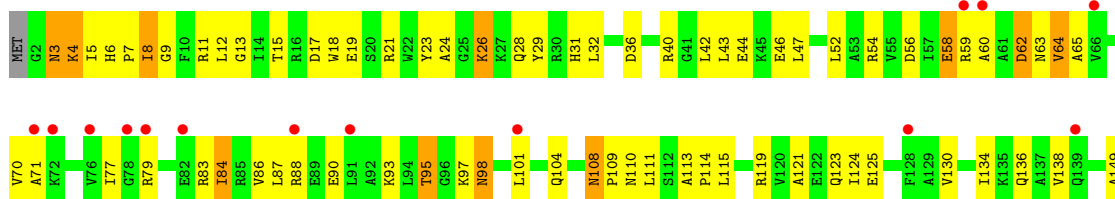


• Molecule 2: 30S ribosomal protein S2

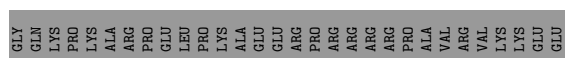
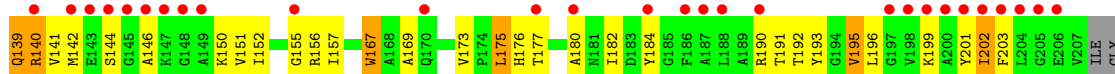
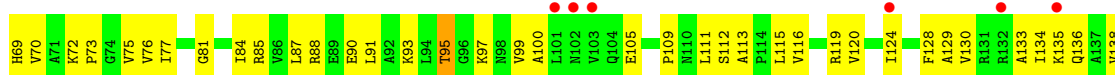
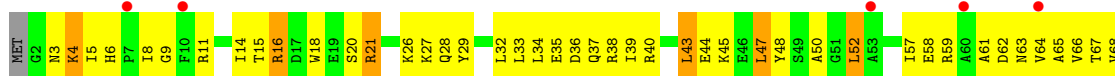
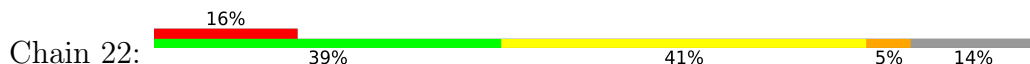




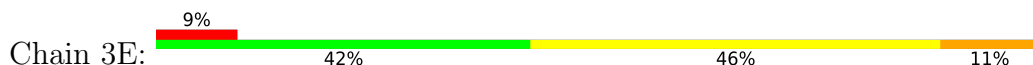
• Molecule 3: 30S ribosomal protein S3



• Molecule 3: 30S ribosomal protein S3

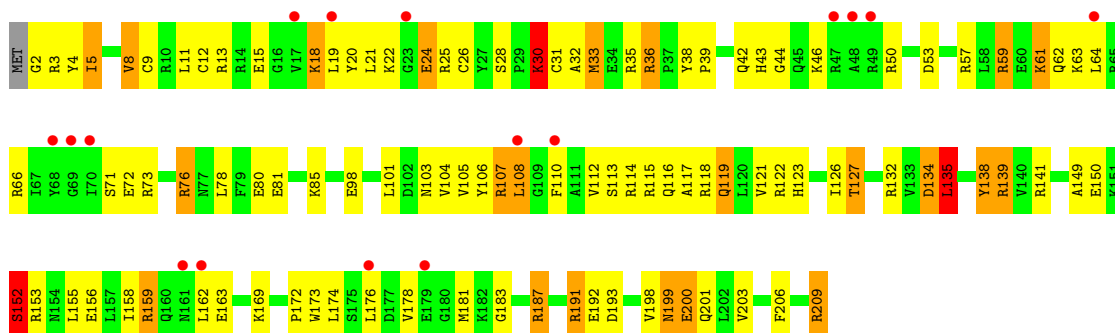


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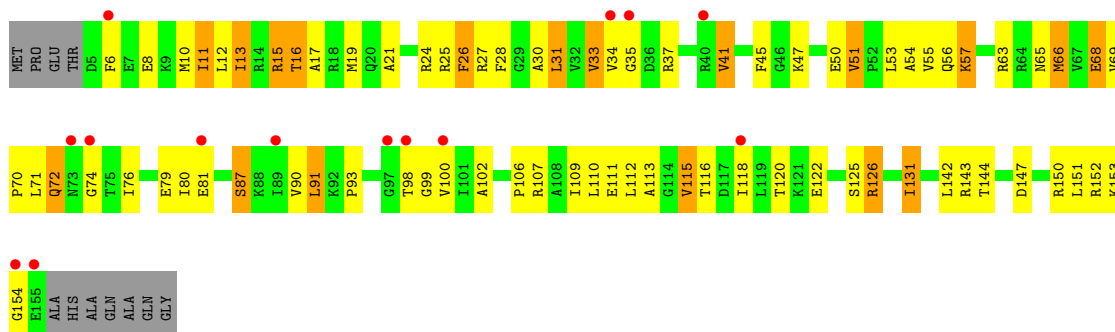




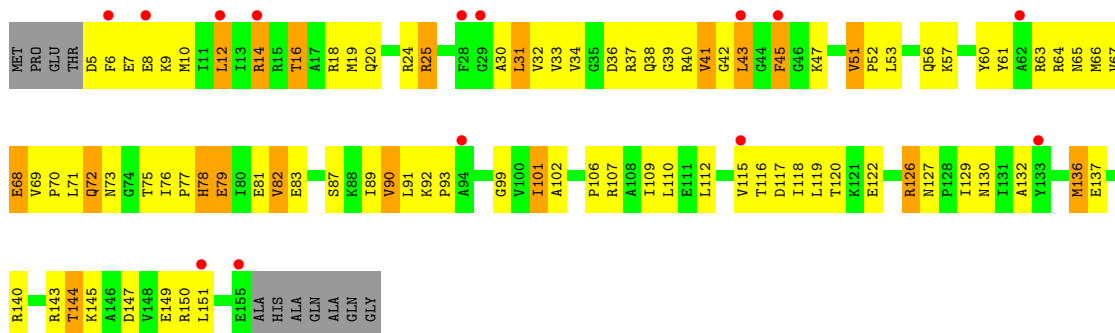
• Molecule 4: 30S ribosomal protein S4



• Molecule 5: 30S ribosomal protein S5

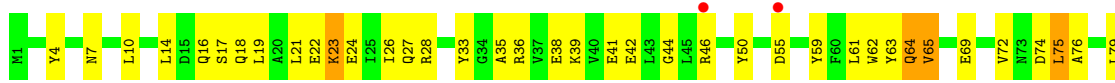


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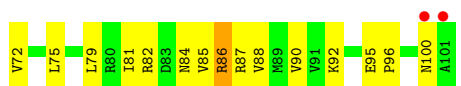
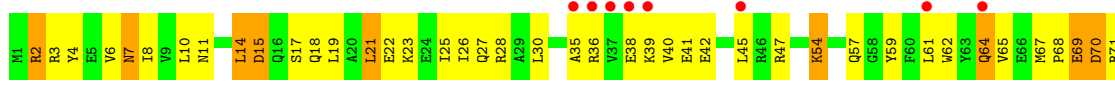
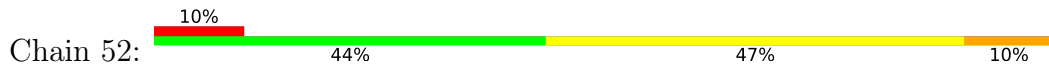


• Molecule 6: 30S ribosomal protein S6

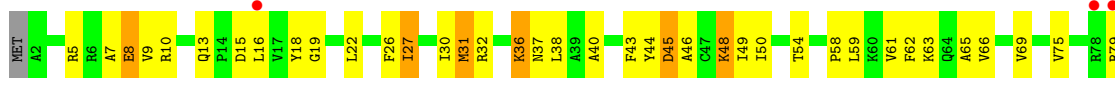




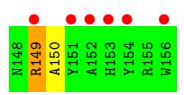
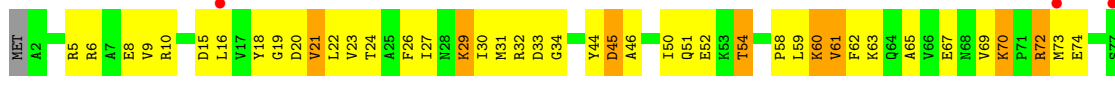
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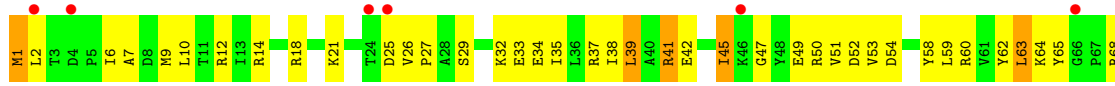
• Molecule 7: 30S ribosomal protein S7

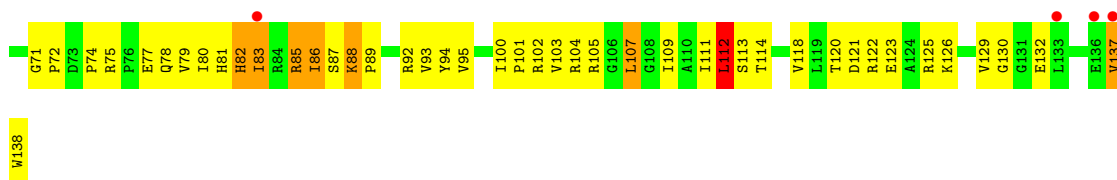


• Molecule 7: 30S ribosomal protein S7

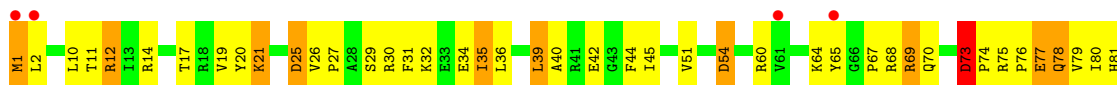


• Molecule 8: 30S ribosomal protein S8





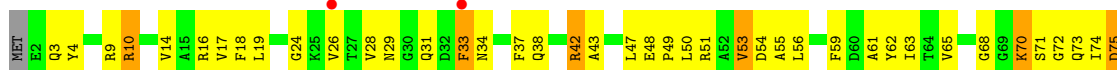
• Molecule 8: 30S ribosomal protein S8



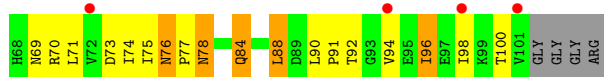
• Molecule 9: 30S ribosomal protein S9



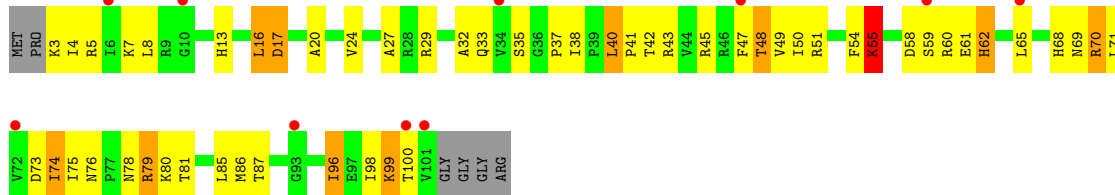
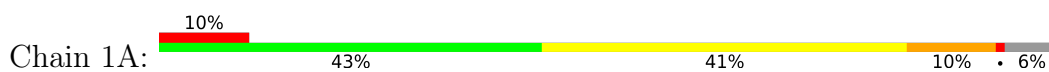
• Molecule 9: 30S ribosomal protein S9



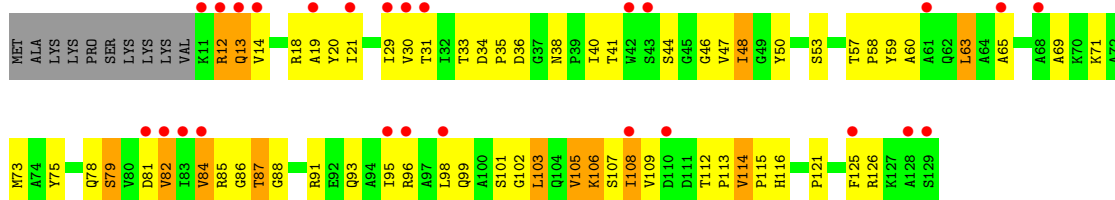
• Molecule 10: 30S ribosomal protein S10



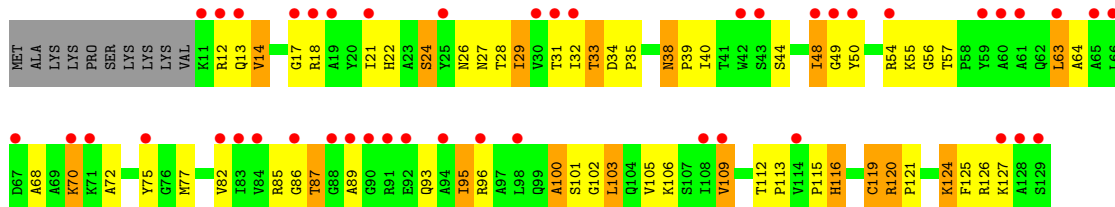
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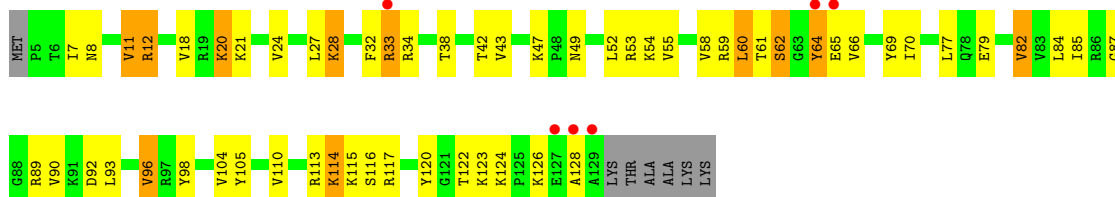
- Molecule 11: 30S ribosomal protein S11



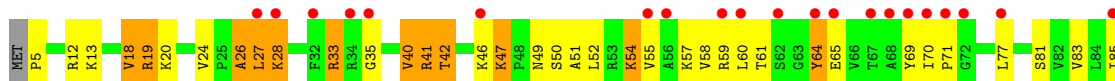
- Molecule 11: 30S ribosomal protein S11



- Molecule 12: 30S ribosomal protein S12



- Molecule 12: 30S ribosomal protein S12

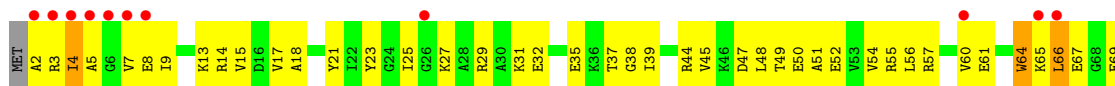




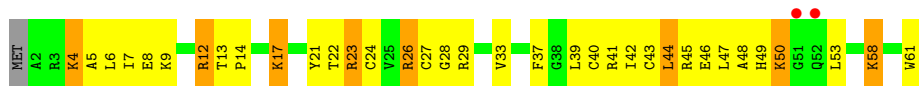
• Molecule 13: 30S ribosomal protein S13



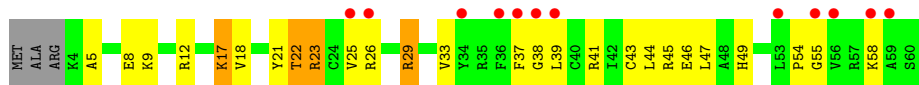
• Molecule 13: 30S ribosomal protein S13



• Molecule 14: 30S ribosomal protein S14 type Z



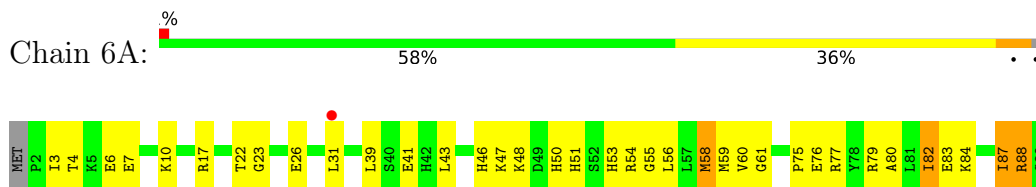
• Molecule 14: 30S ribosomal protein S14 type Z



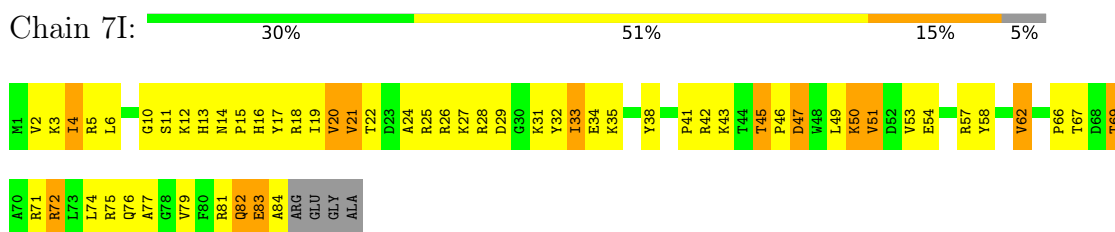
• Molecule 15: 30S ribosomal protein S15



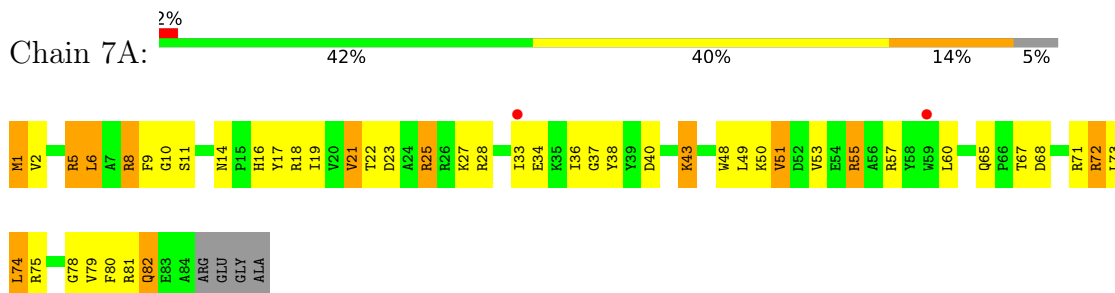
- Molecule 15: 30S ribosomal protein S15



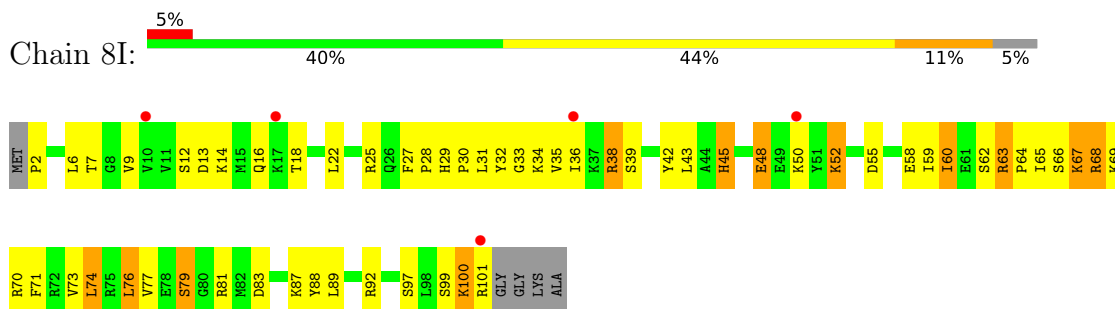
- Molecule 16: 30S ribosomal protein S16



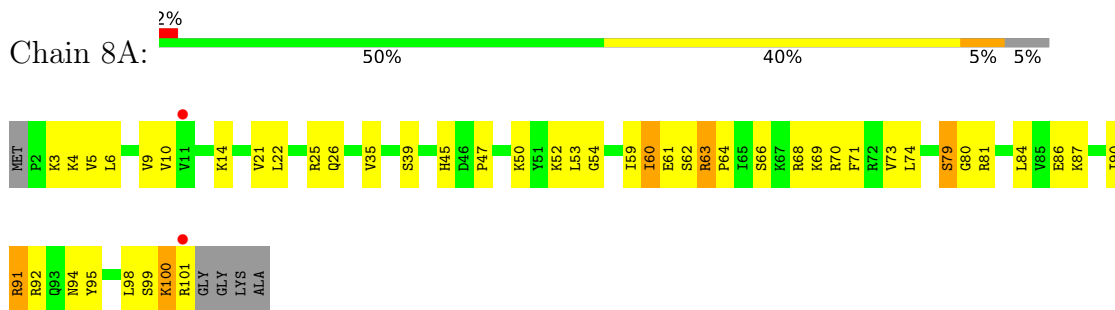
- Molecule 16: 30S ribosomal protein S16



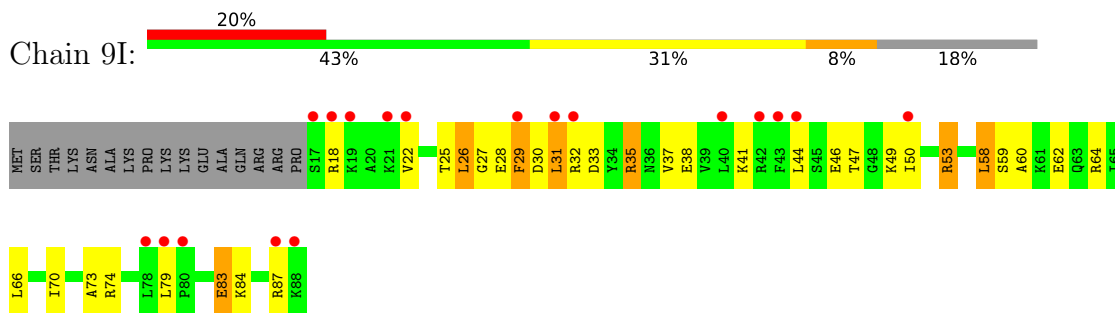
- Molecule 17: 30S ribosomal protein S17



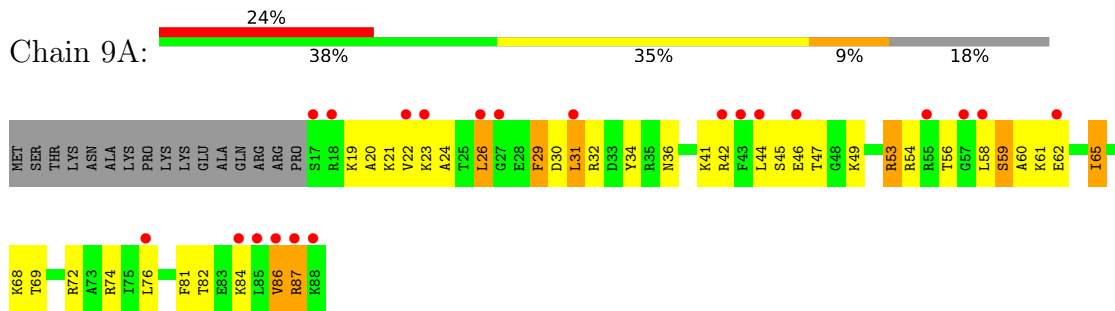
- Molecule 17: 30S ribosomal protein S17



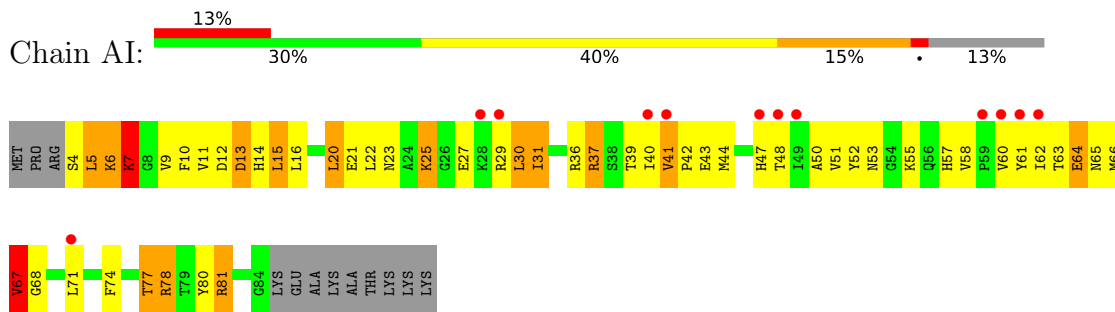
- Molecule 18: 30S ribosomal protein S18



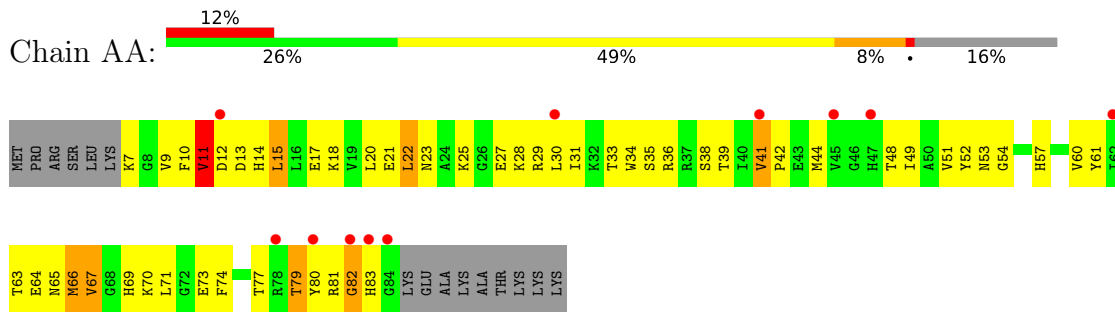
• Molecule 18: 30S ribosomal protein S18



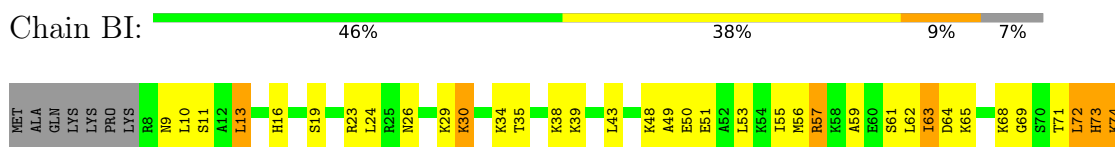
• Molecule 19: 30S ribosomal protein S19



• Molecule 19: 30S ribosomal protein S19

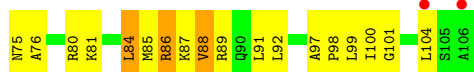
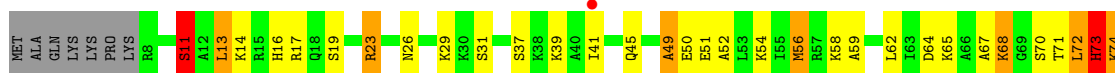


• Molecule 20: 30S ribosomal protein S20





• Molecule 20: 30S ribosomal protein S20



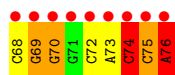
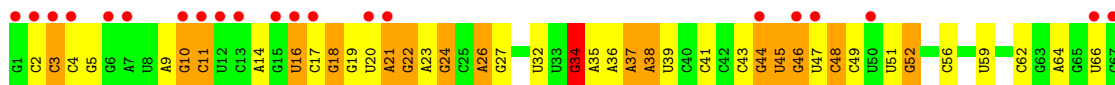
• Molecule 21: 30S ribosomal protein Thx



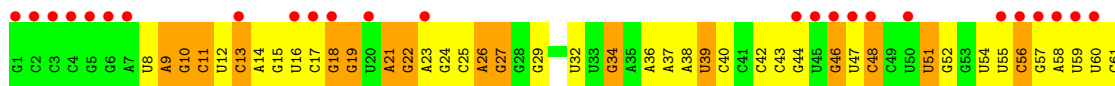
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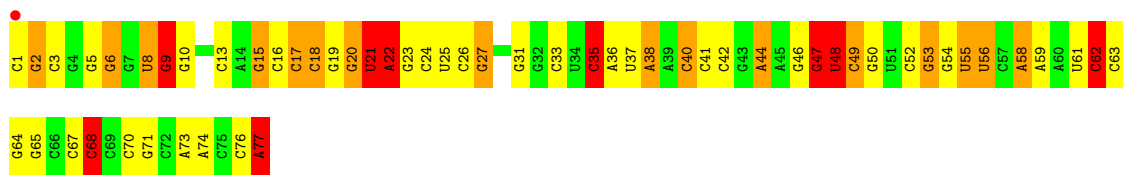
• Molecule 22: tRNA-Phe



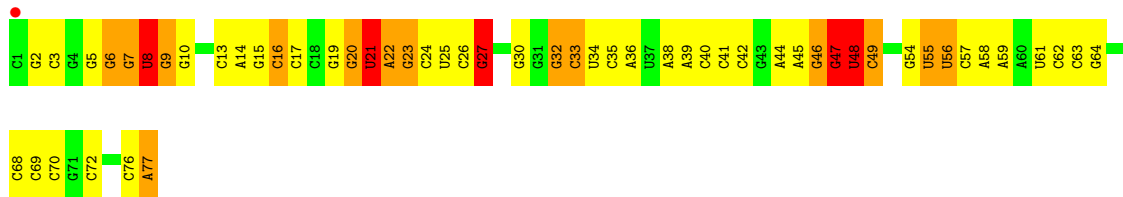
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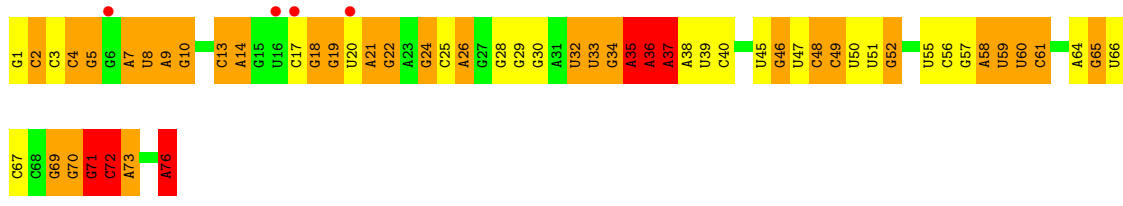
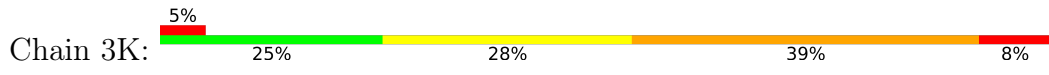
• Molecule 23: tRNA-fMet



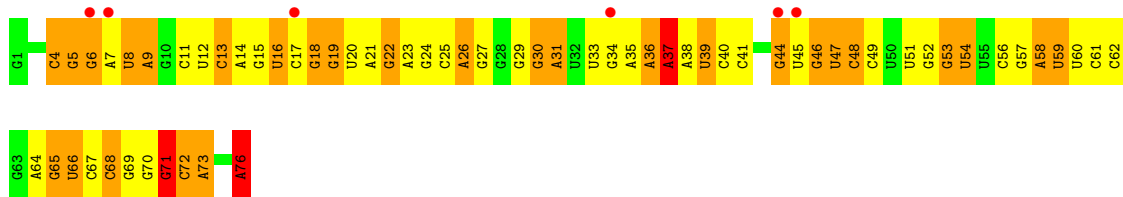
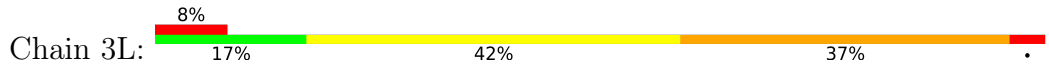
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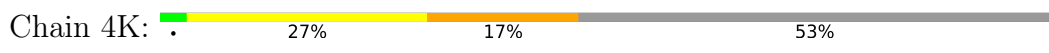
• Molecule 24: tRNA-Phe



• Molecule 24: tRNA-Phe



• Molecule 25: mRNA

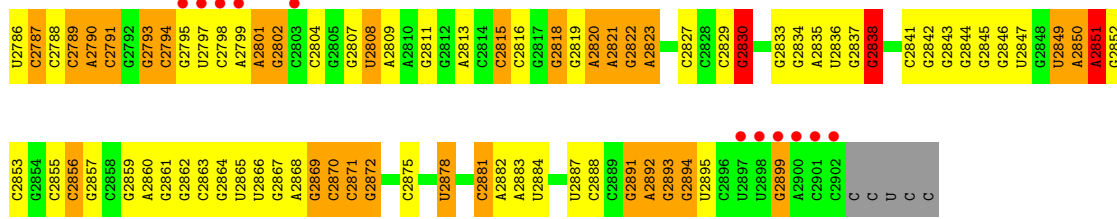


• Molecule 25: mRNA

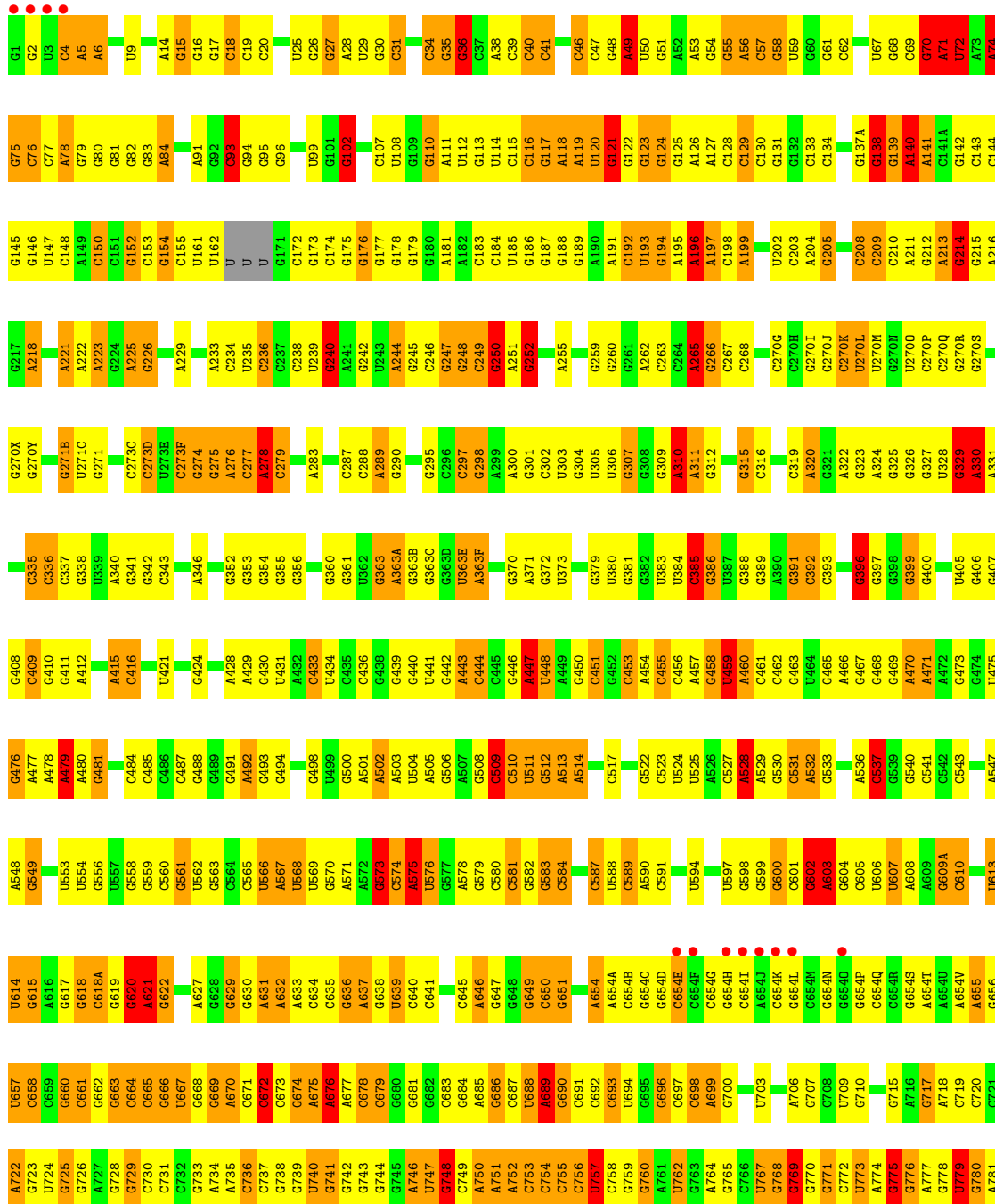
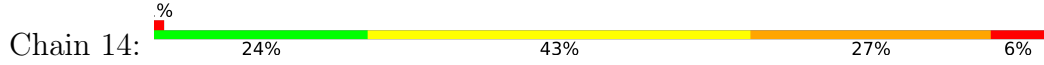


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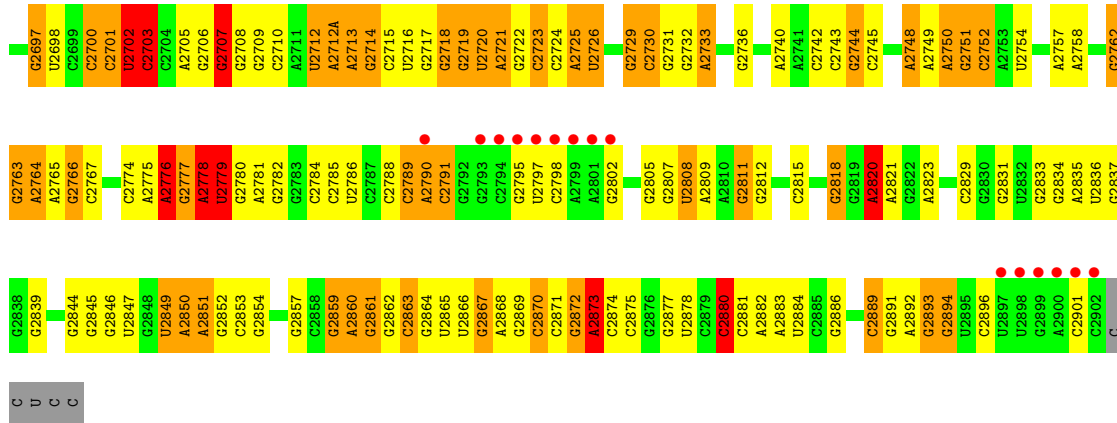
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| G1839 | G1922 | C1983 | U2047 | G2112 | C2177 | G2256 | C2316 | A2376 | U2438 | C2501 | C2567 | A2629 | U2703 | C2767 |
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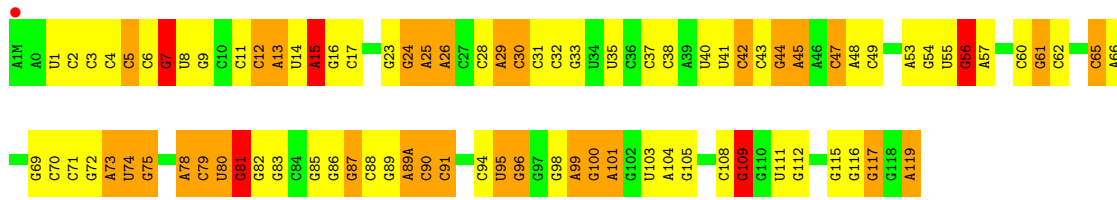
● Molecule 26: 23S ribosomal RNA



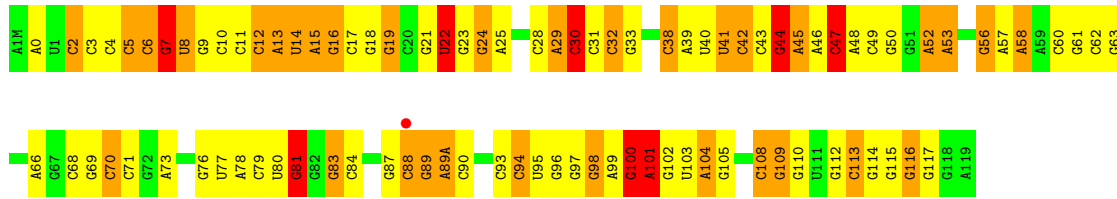
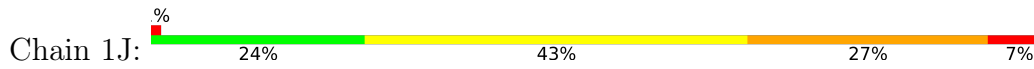
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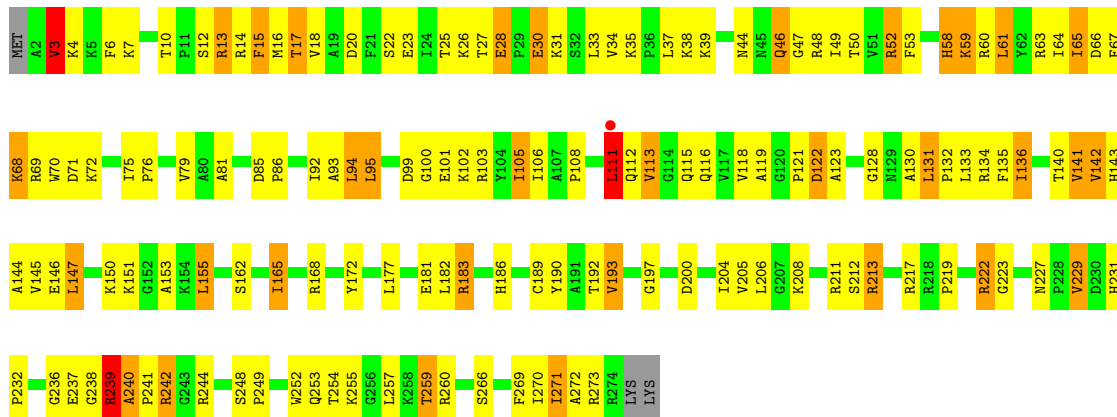
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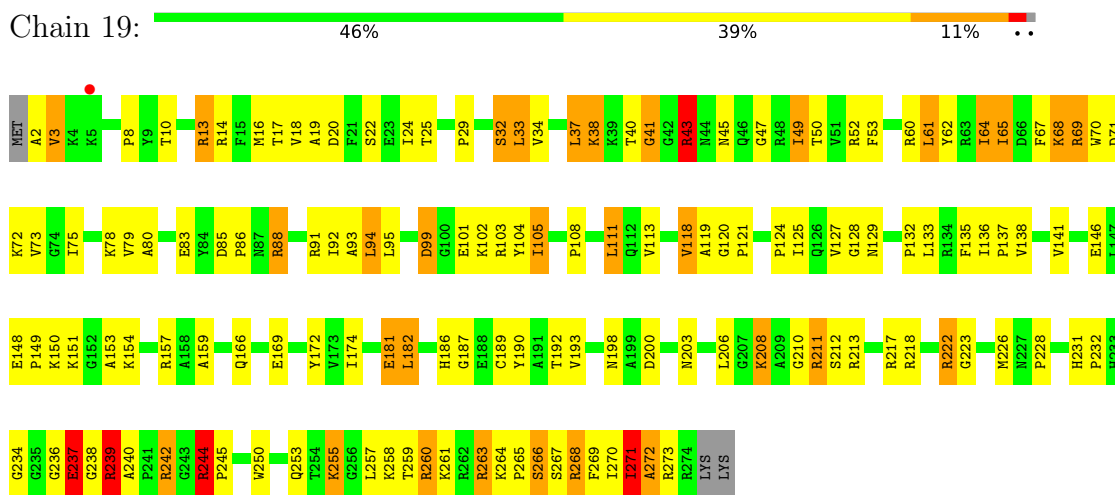
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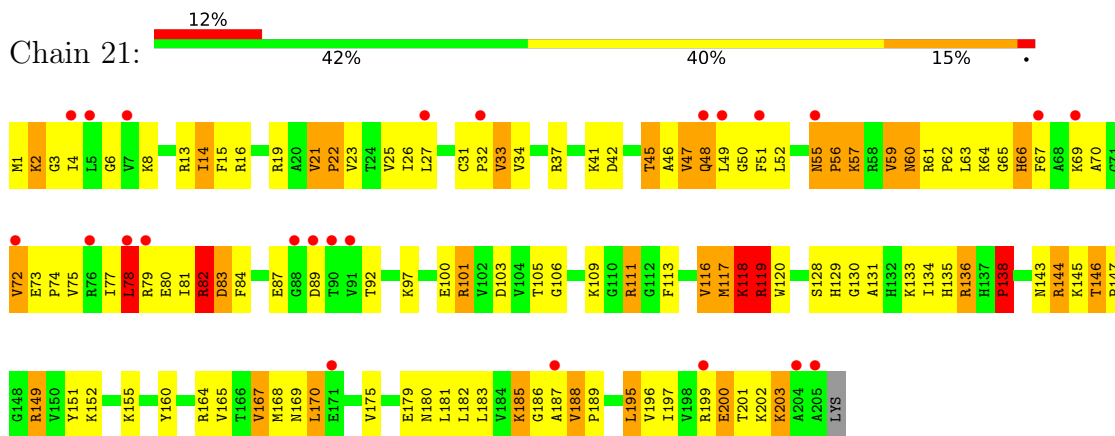
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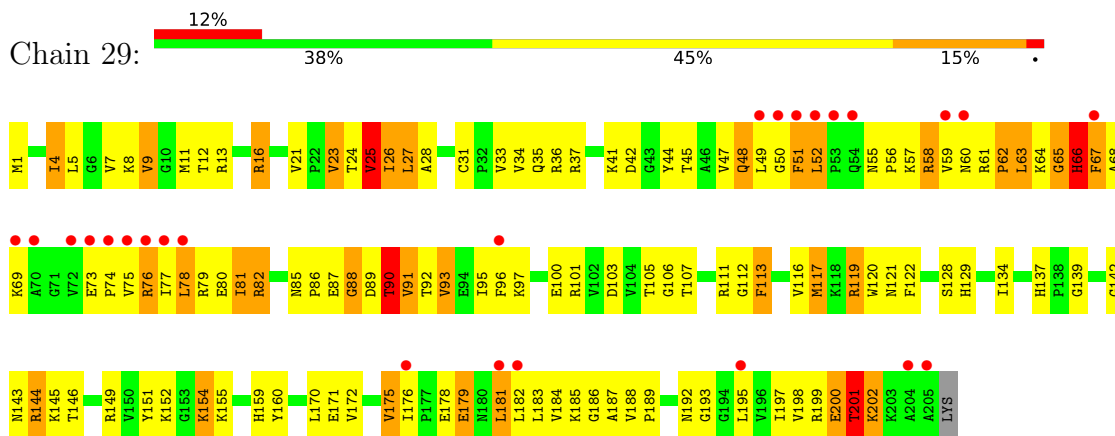
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• Molecule 29: 50S ribosomal protein L3

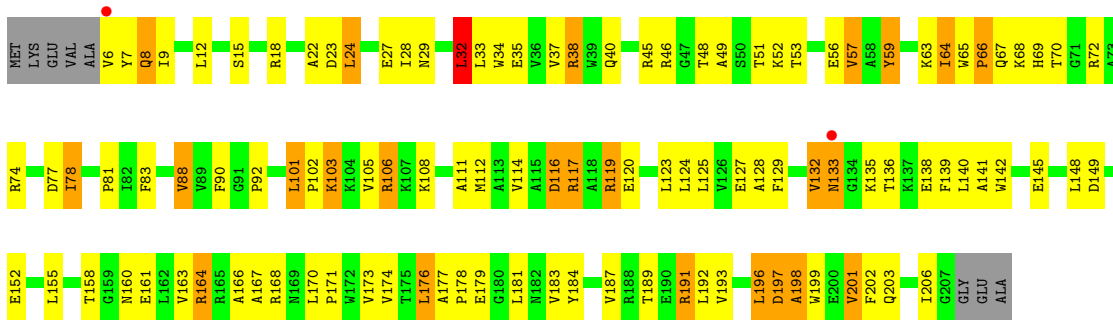


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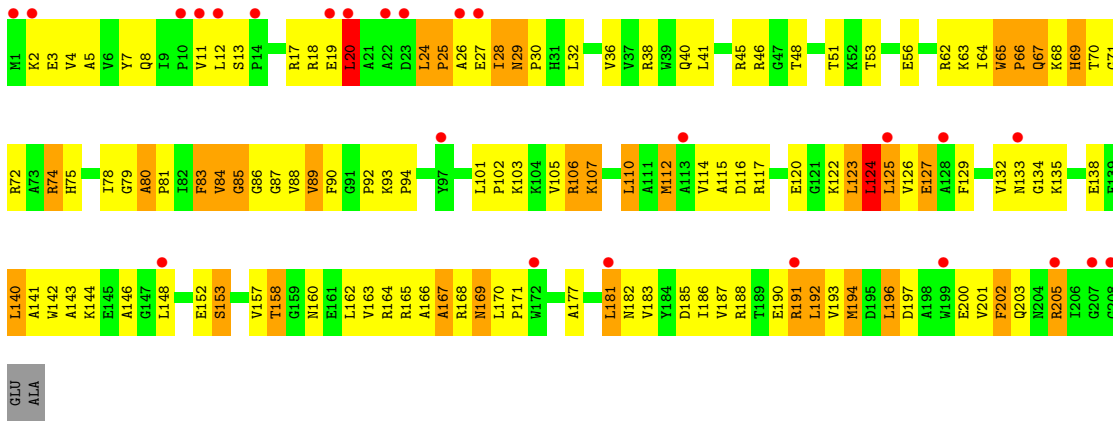


• Molecule 30: 50S ribosomal protein L4

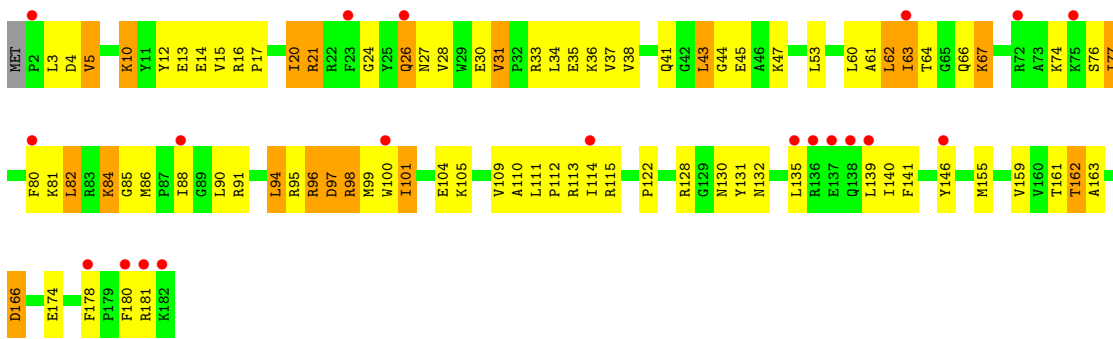




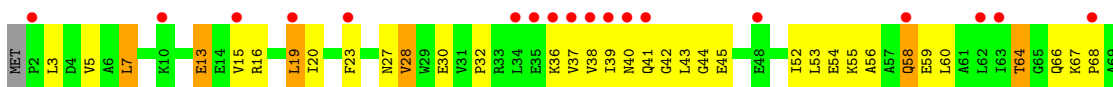
Chain 39: 12% 39% 43% 16% ..

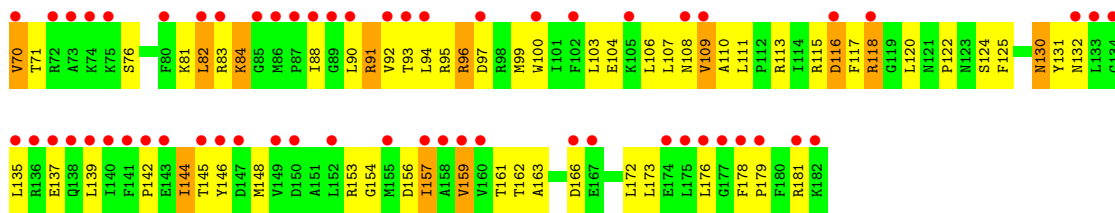


Chain 41: 11% 52% 36% 11% .

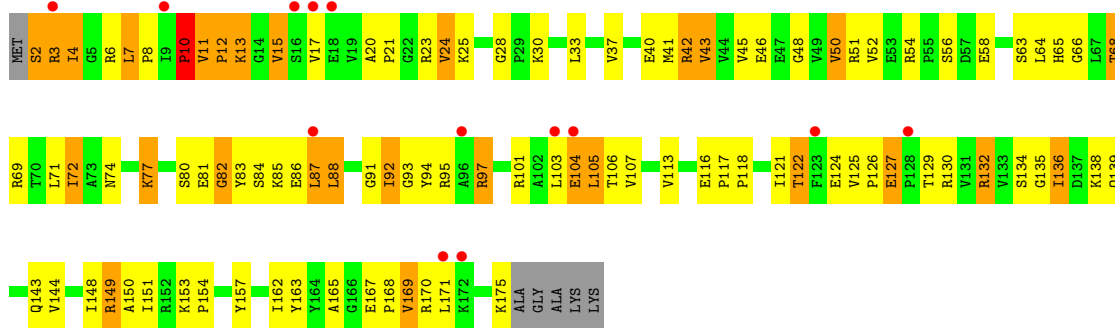


Chain 49: 42% 47% 43% 10% .

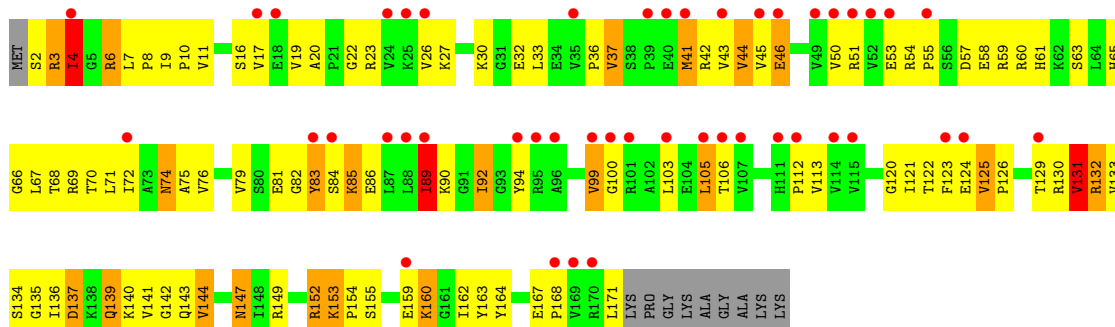




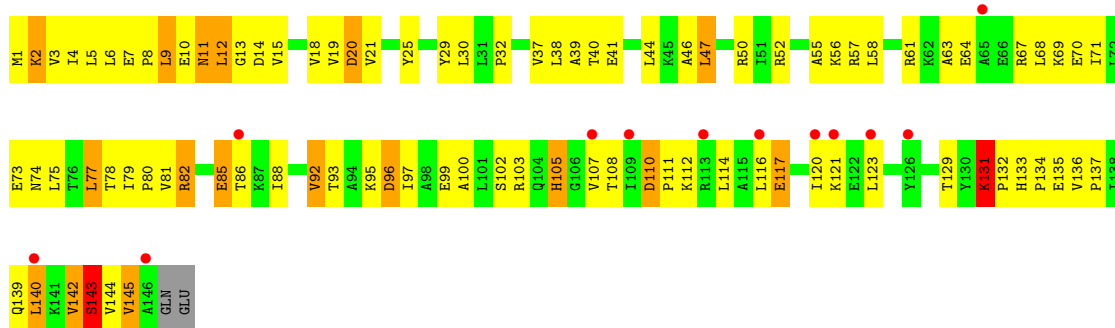
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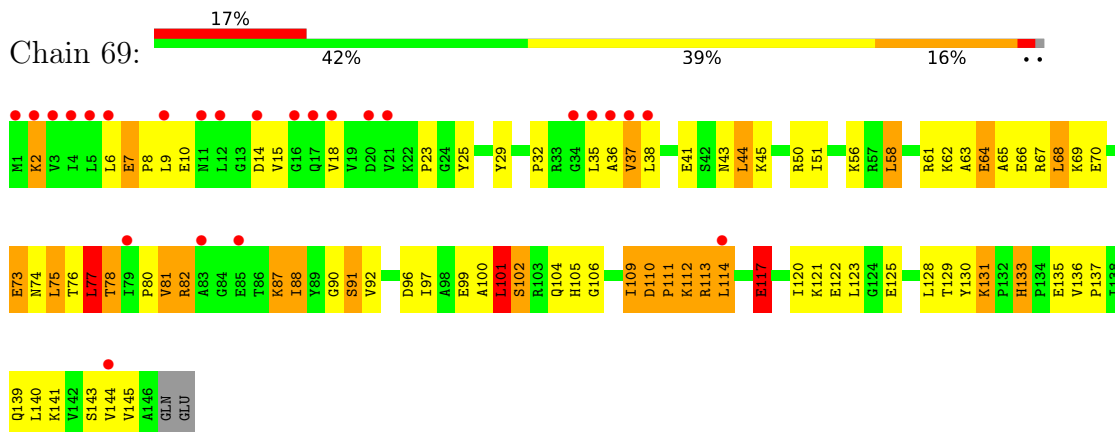
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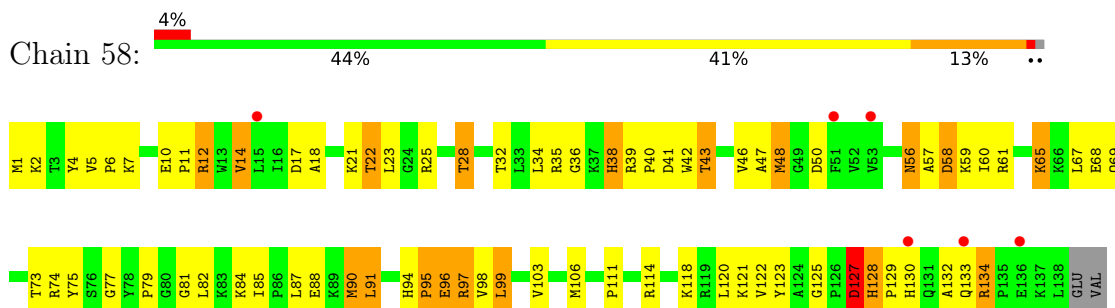
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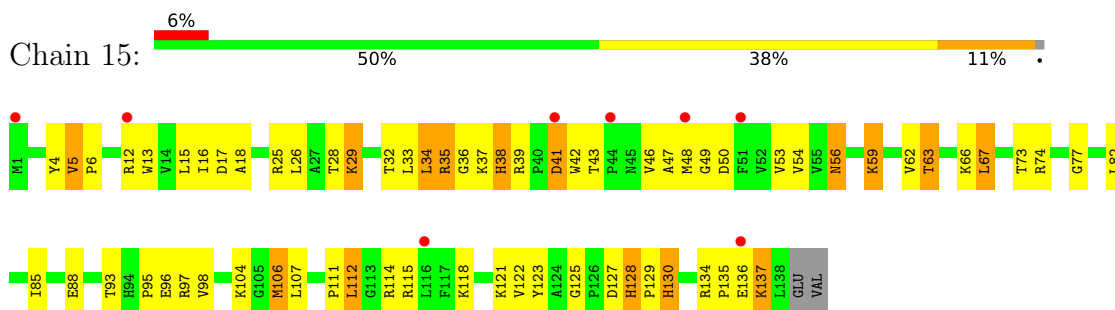
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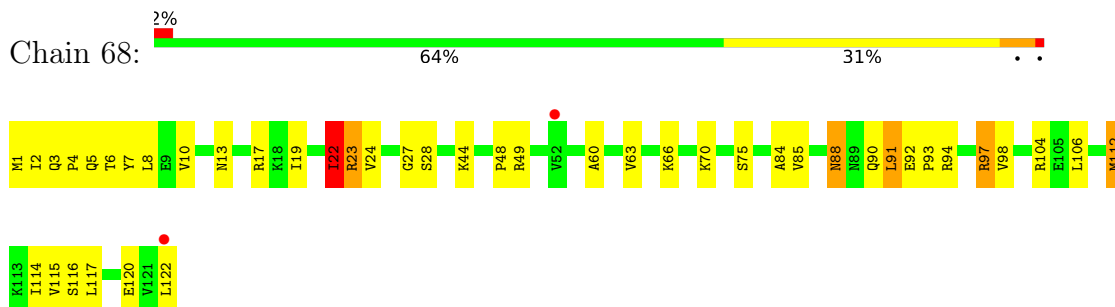
- Molecule 34: 50S ribosomal protein L13



- Molecule 34: 50S ribosomal protein L13

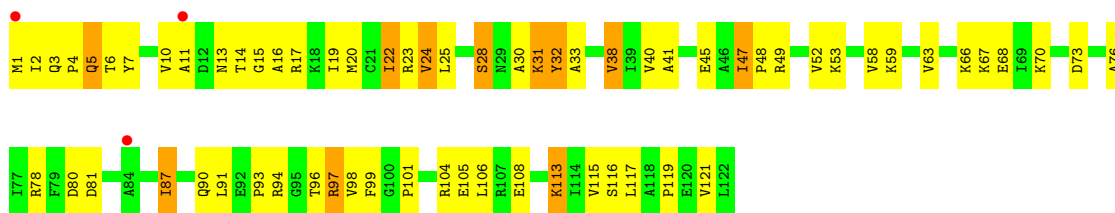


- Molecule 35: 50S ribosomal protein L14

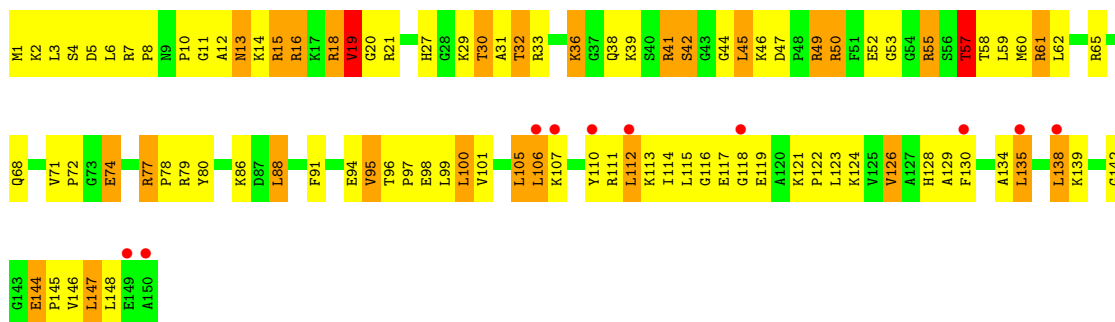


- Molecule 35: 50S ribosomal protein L14

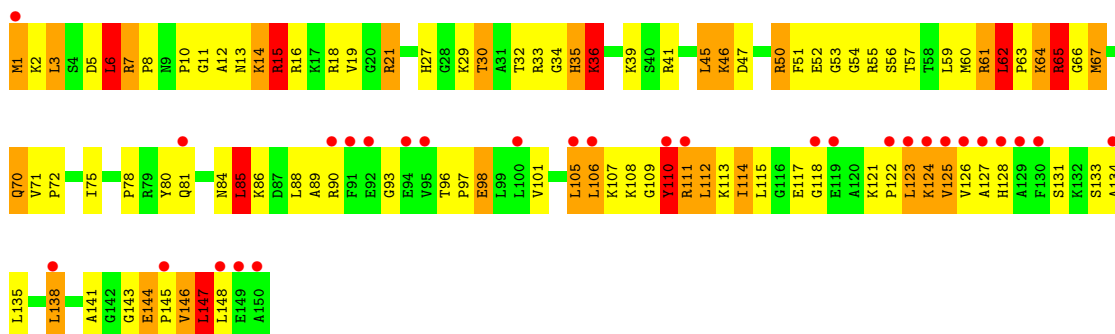




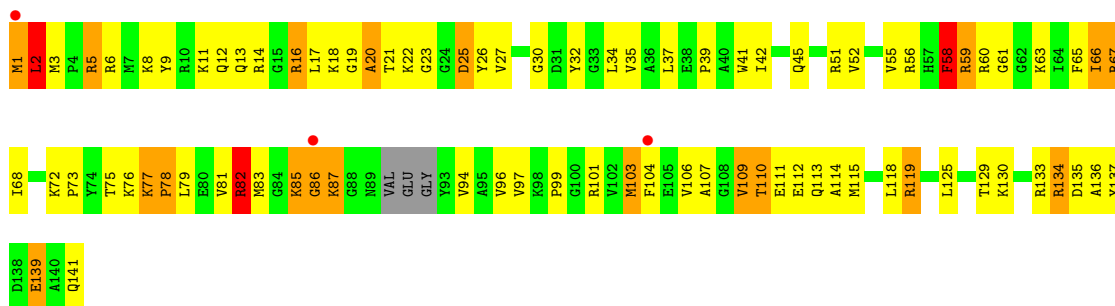
- Molecule 36: 50S ribosomal protein L15



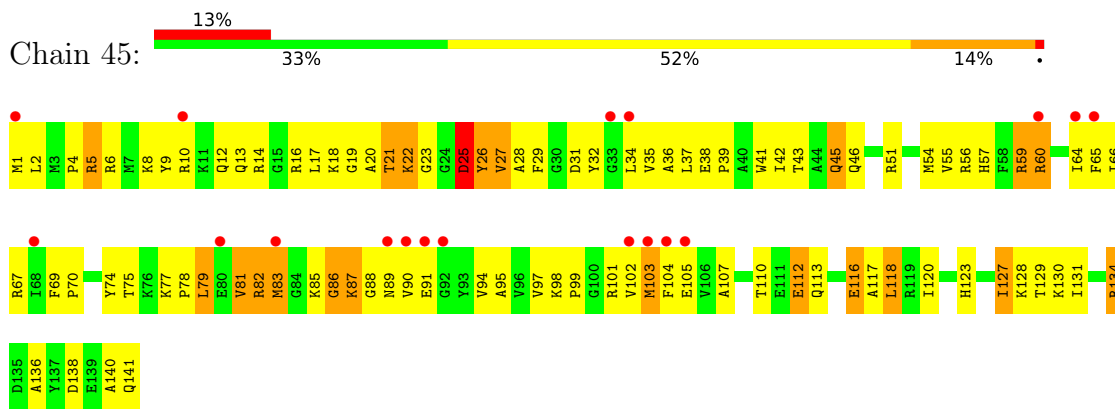
- Molecule 36: 50S ribosomal protein L15



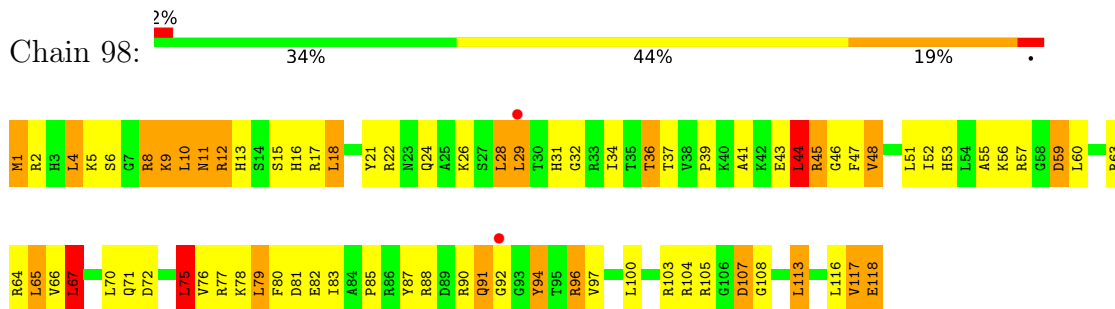
- Molecule 37: 50S ribosomal protein L16



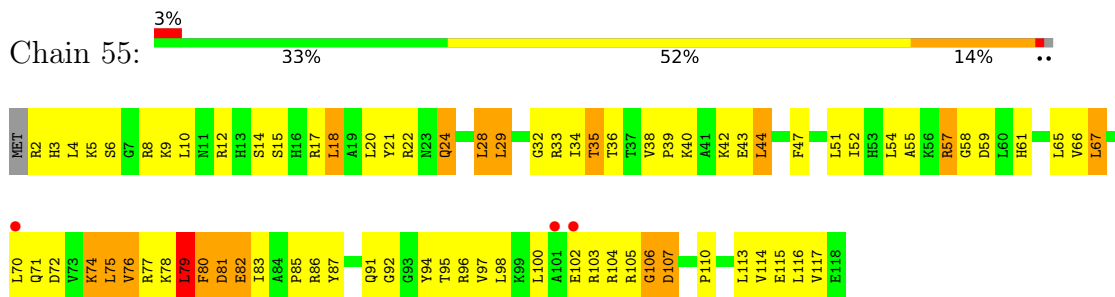
- Molecule 37: 50S ribosomal protein L16



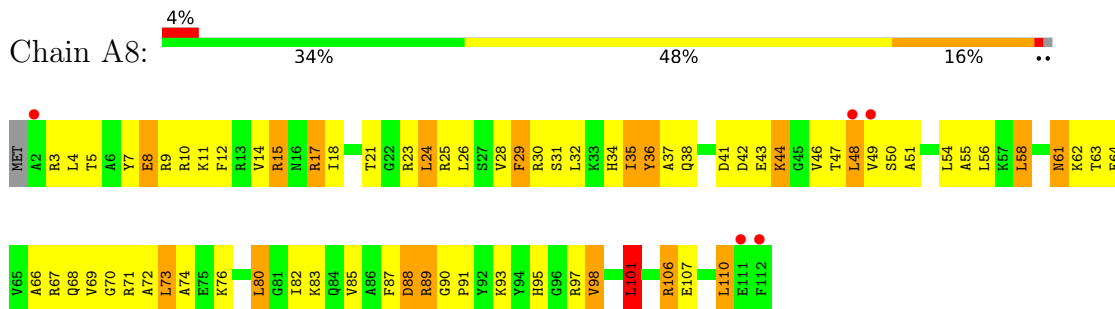
• Molecule 38: 50S ribosomal protein L17



• Molecule 38: 50S ribosomal protein L17

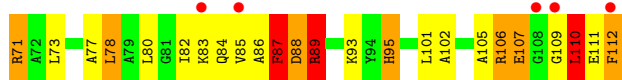
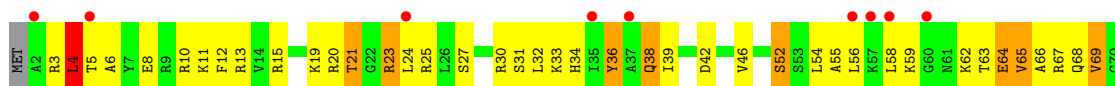


• Molecule 39: 50S ribosomal protein L18



• Molecule 39: 50S ribosomal protein L18

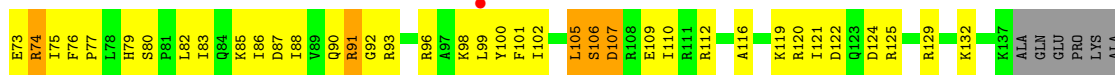
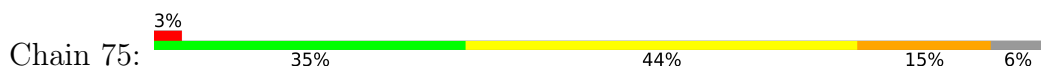




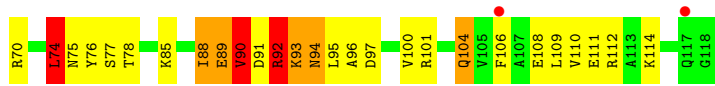
• Molecule 40: 50S ribosomal protein L19



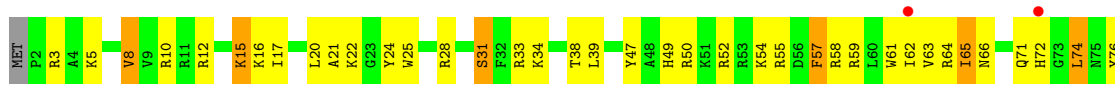
• Molecule 40: 50S ribosomal protein L19



• Molecule 41: 50S ribosomal protein L20

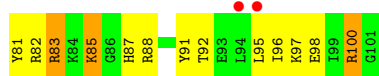
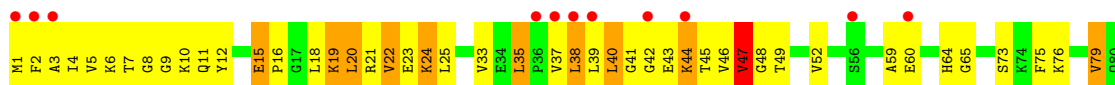
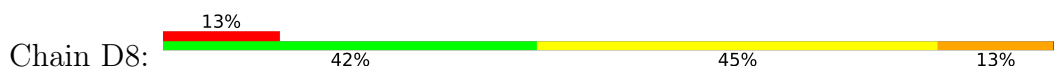


• Molecule 41: 50S ribosomal protein L20

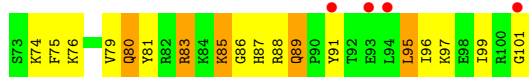
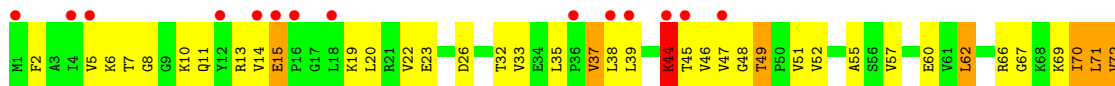
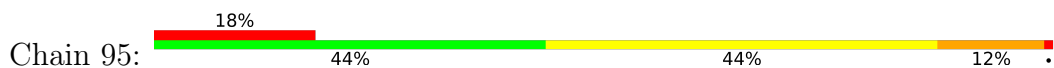




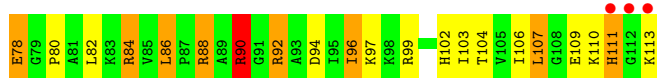
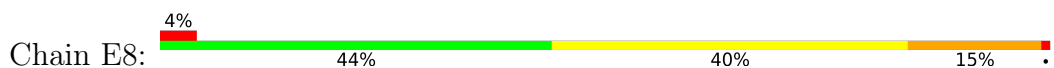
• Molecule 42: 50S ribosomal protein L21



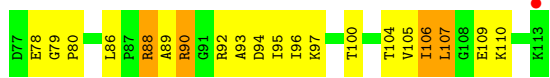
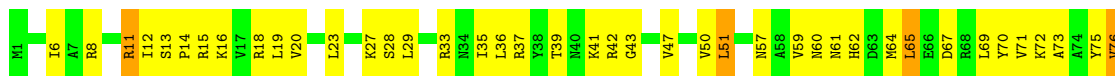
• Molecule 42: 50S ribosomal protein L21



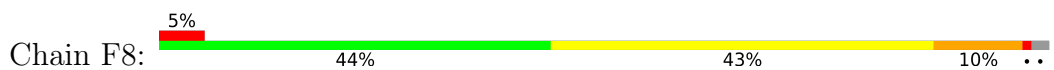
• Molecule 43: 50S ribosomal protein L22

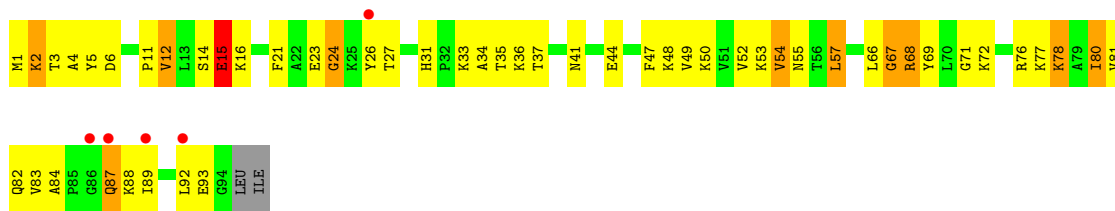


• Molecule 43: 50S ribosomal protein L22

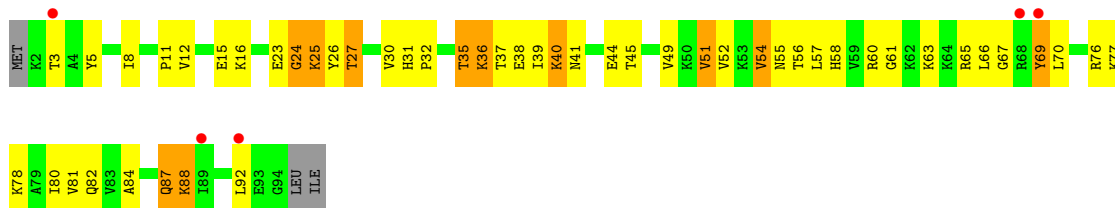


• Molecule 44: 50S ribosomal protein L23

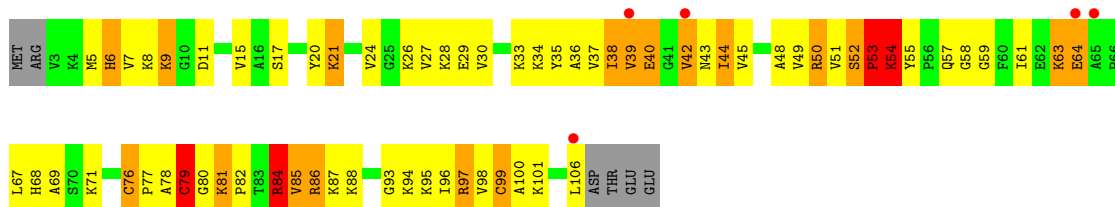
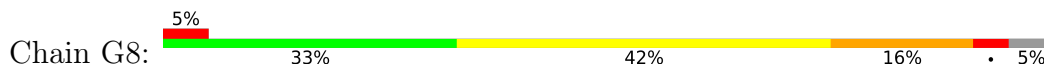




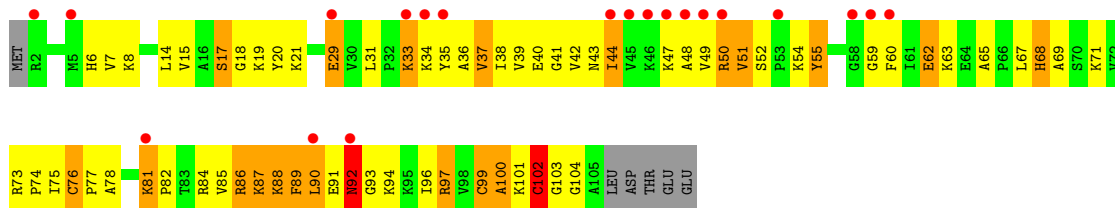
• Molecule 44: 50S ribosomal protein L23



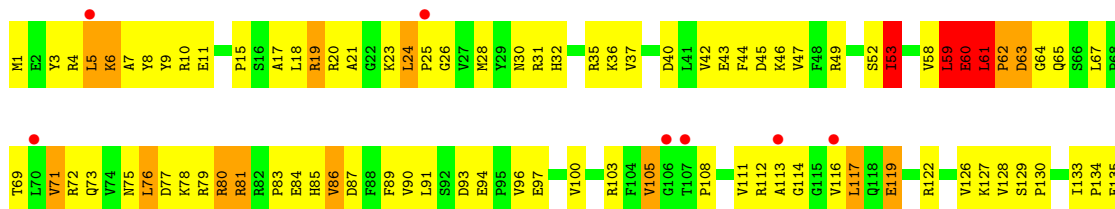
• Molecule 45: 50S ribosomal protein L24

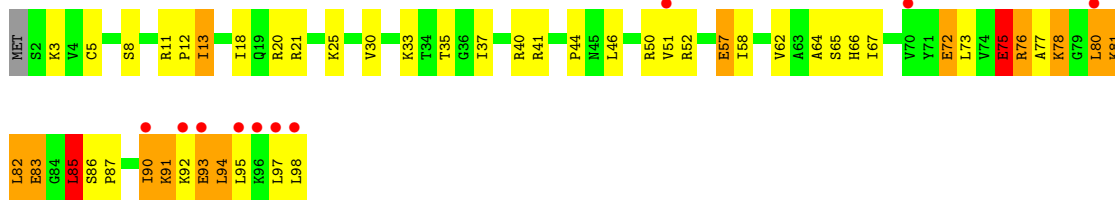


• Molecule 45: 50S ribosomal protein L24

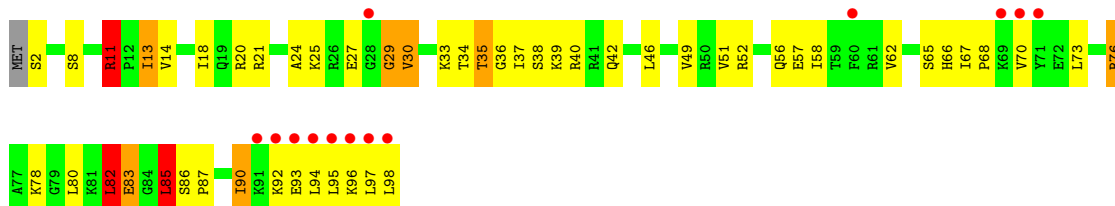


• Molecule 46: 50S ribosomal protein L25

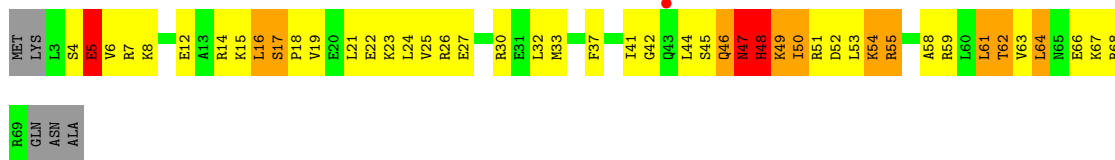
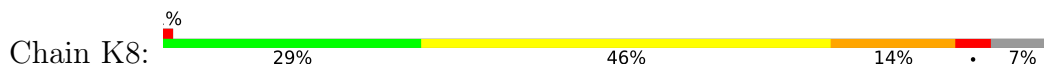




• Molecule 48: 50S ribosomal protein L28



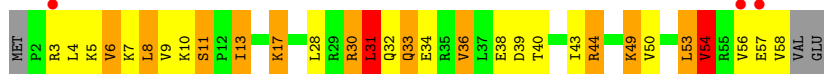
• Molecule 49: 50S ribosomal protein L29



• Molecule 49: 50S ribosomal protein L29



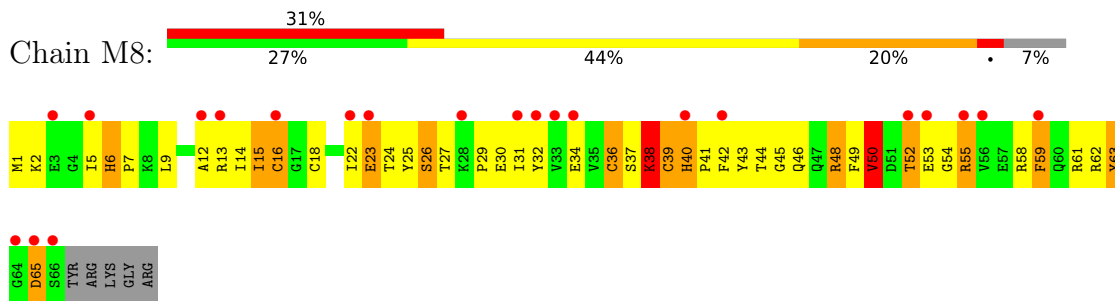
• Molecule 50: 50S ribosomal protein L30



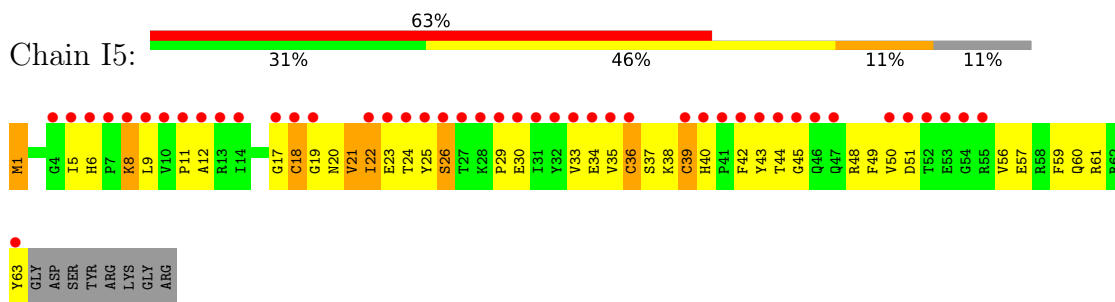
• Molecule 50: 50S ribosomal protein L30



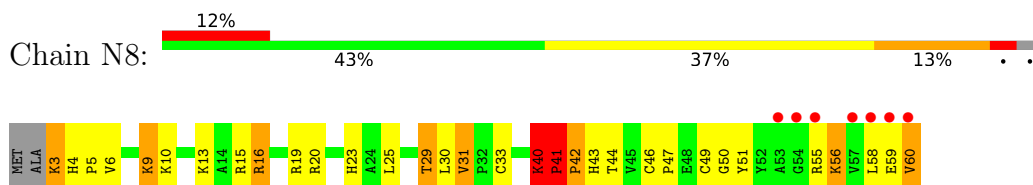
• Molecule 51: 50S ribosomal protein L31



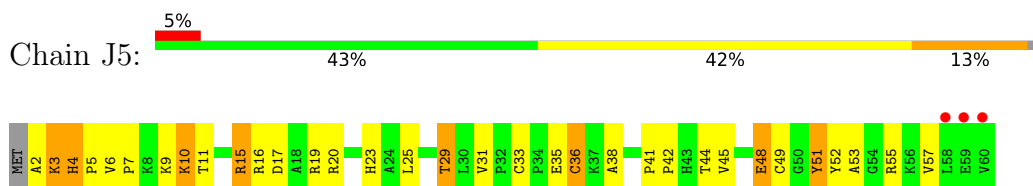
• Molecule 51: 50S ribosomal protein L31



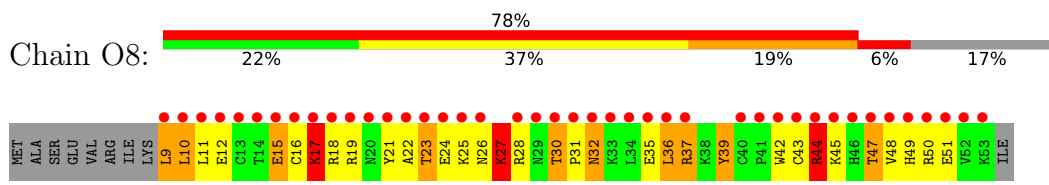
• Molecule 52: 50S ribosomal protein L32



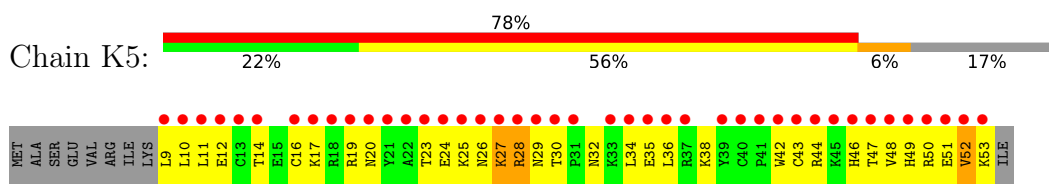
• Molecule 52: 50S ribosomal protein L32



• Molecule 53: 50S ribosomal protein L33

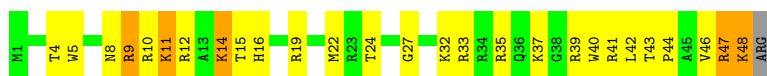


• Molecule 53: 50S ribosomal protein L33



- Molecule 54: 50S ribosomal protein L34

Chain P8: 



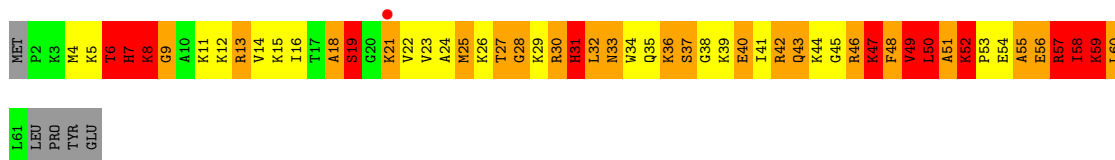
- Molecule 54: 50S ribosomal protein L34

Chain L5: 



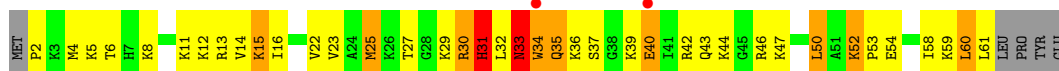
- Molecule 55: 50S ribosomal protein L35

Chain Q8: 



- Molecule 55: 50S ribosomal protein L35

Chain M5: 



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 210.10Å 448.80Å 621.30Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 152.19 – 3.15 152.19 – 3.15 | Depositor EDS |
| % Data completeness (in resolution range) | 99.9 (152.19-3.15) 93.3 (152.19-3.15) | Depositor EDS |
| R_{merge} | 0.37 | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 0.89 (at 3.13Å) | Xtrriage |
| Refinement program | PHENIX | Depositor |
| R, R_{free} | 0.189 , 0.231 0.189 , 0.231 | Depositor DCC |
| R_{free} test set | 2000 reflections (0.20%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 87.9 | Xtrriage |
| Anisotropy | 0.303 | Xtrriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.27 , 87.2 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$ | Xtrriage |
| Estimated twinning fraction | No twinning to report. | Xtrriage |
| F_o, F_c correlation | 0.95 | EDS |
| Total number of atoms | 300537 | wwPDB-VP |
| Average B, all atoms (Å ²) | 115.0 | wwPDB-VP |

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: OMC, MIA, 7MG, ZN, 5MU, PSU, MG, 4SU

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 | 0.82 | 13/36052 (0.0%) | 1.55 | 642/56266 (1.1%) |
| 1 | 1G | 0.71 | 2/36025 (0.0%) | 1.38 | 354/56227 (0.6%) |
| 2 | 12 | 0.37 | 0/1959 | 0.64 | 2/2642 (0.1%) |
| 2 | 1E | 0.45 | 0/1959 | 0.73 | 3/2642 (0.1%) |
| 3 | 22 | 0.38 | 0/1636 | 0.62 | 0/2205 |
| 3 | 2E | 0.51 | 0/1629 | 0.70 | 0/2195 |
| 4 | 32 | 0.50 | 0/1733 | 0.73 | 1/2318 (0.0%) |
| 4 | 3E | 0.65 | 2/1733 (0.1%) | 0.78 | 2/2318 (0.1%) |
| 5 | 42 | 0.48 | 0/1171 | 0.72 | 1/1576 (0.1%) |
| 5 | 4E | 0.55 | 0/1171 | 0.77 | 1/1576 (0.1%) |
| 6 | 52 | 0.55 | 0/856 | 0.70 | 0/1154 |
| 6 | 5E | 0.58 | 0/856 | 0.76 | 0/1154 |
| 7 | 62 | 0.44 | 0/1276 | 0.59 | 0/1709 |
| 7 | 6E | 0.47 | 0/1276 | 0.61 | 0/1709 |
| 8 | 72 | 0.42 | 0/1136 | 0.67 | 1/1527 (0.1%) |
| 8 | 7E | 0.57 | 0/1136 | 0.78 | 2/1527 (0.1%) |
| 9 | 82 | 0.40 | 0/1029 | 0.66 | 1/1379 (0.1%) |
| 9 | 8E | 0.47 | 0/1029 | 0.72 | 0/1379 |
| 10 | 1A | 0.39 | 0/814 | 0.62 | 0/1095 |
| 10 | 1I | 0.47 | 0/814 | 0.67 | 0/1095 |
| 11 | 2A | 0.49 | 0/900 | 0.75 | 0/1213 |
| 11 | 2I | 0.57 | 0/900 | 0.79 | 1/1213 (0.1%) |
| 12 | 3A | 0.61 | 0/991 | 0.81 | 1/1327 (0.1%) |
| 12 | 3I | 0.74 | 0/991 | 0.94 | 0/1327 |
| 13 | 4A | 0.36 | 0/943 | 0.64 | 0/1265 |
| 13 | 4I | 0.51 | 0/948 | 0.76 | 0/1272 |
| 14 | 5A | 0.43 | 0/485 | 0.73 | 0/643 |
| 14 | 5I | 0.66 | 1/501 (0.2%) | 0.88 | 3/664 (0.5%) |
| 15 | 6A | 0.49 | 0/745 | 0.60 | 0/992 |
| 15 | 6I | 0.60 | 0/745 | 0.82 | 0/992 |
| 16 | 7A | 0.51 | 0/721 | 0.69 | 0/970 |
| 16 | 7I | 0.52 | 0/721 | 0.73 | 0/970 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|------------------|-------------|--------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 17 | 8A | 0.54 | 0/847 | 0.65 | 0/1131 |
| 17 | 8I | 0.62 | 0/847 | 0.78 | 0/1131 |
| 18 | 9A | 0.53 | 0/596 | 0.72 | 1/790 (0.1%) |
| 18 | 9I | 0.60 | 1/596 (0.2%) | 0.79 | 0/790 |
| 19 | AA | 0.40 | 0/638 | 0.66 | 1/860 (0.1%) |
| 19 | AI | 0.58 | 0/661 | 0.84 | 1/890 (0.1%) |
| 20 | BA | 0.50 | 0/765 | 0.77 | 0/1007 |
| 20 | BI | 0.42 | 0/765 | 0.70 | 1/1007 (0.1%) |
| 21 | 1B | 0.55 | 0/221 | 0.64 | 0/288 |
| 21 | 1F | 0.50 | 0/221 | 0.73 | 0/288 |
| 22 | 1K | 0.53 | 0/1739 | 1.15 | 15/2708 (0.6%) |
| 22 | 1L | 0.44 | 0/1739 | 0.96 | 4/2708 (0.1%) |
| 23 | 2K | 1.13 | 6/1721 (0.3%) | 1.67 | 45/2682 (1.7%) |
| 23 | 2L | 0.99 | 7/1721 (0.4%) | 1.43 | 18/2682 (0.7%) |
| 24 | 3K | 0.52 | 0/1809 | 1.29 | 25/2819 (0.9%) |
| 24 | 3L | 0.48 | 2/1809 (0.1%) | 1.14 | 15/2819 (0.5%) |
| 25 | 4K | 1.00 | 0/338 | 1.43 | 5/524 (1.0%) |
| 25 | 4L | 0.79 | 0/147 | 1.61 | 5/227 (2.2%) |
| 26 | 14 | 0.99 | 121/70167 (0.2%) | 1.77 | 2211/109541 (2.0%) |
| 26 | 1H | 1.20 | 257/70233 (0.4%) | 2.06 | 3865/109643 (3.5%) |
| 27 | 16 | 1.01 | 3/2928 (0.1%) | 1.83 | 103/4568 (2.3%) |
| 27 | 1J | 0.83 | 1/2928 (0.0%) | 1.53 | 48/4568 (1.1%) |
| 28 | 11 | 0.96 | 3/2170 (0.1%) | 1.14 | 13/2926 (0.4%) |
| 28 | 19 | 0.80 | 0/2170 | 1.01 | 6/2926 (0.2%) |
| 29 | 21 | 0.75 | 0/1601 | 0.99 | 3/2160 (0.1%) |
| 29 | 29 | 0.76 | 0/1601 | 0.99 | 2/2160 (0.1%) |
| 30 | 31 | 0.84 | 0/1620 | 1.02 | 5/2194 (0.2%) |
| 30 | 39 | 0.67 | 0/1662 | 0.95 | 1/2249 (0.0%) |
| 31 | 41 | 0.60 | 0/1498 | 0.86 | 2/2016 (0.1%) |
| 31 | 49 | 0.44 | 0/1498 | 0.66 | 0/2016 |
| 32 | 51 | 0.64 | 0/1362 | 0.93 | 2/1841 (0.1%) |
| 32 | 59 | 0.38 | 0/1332 | 0.69 | 1/1802 (0.1%) |
| 33 | 61 | 0.55 | 0/1151 | 0.83 | 1/1558 (0.1%) |
| 33 | 69 | 0.49 | 0/1151 | 0.79 | 4/1558 (0.3%) |
| 34 | 15 | 0.53 | 0/1131 | 0.77 | 0/1525 |
| 34 | 58 | 0.65 | 0/1131 | 0.88 | 0/1525 |
| 35 | 25 | 0.66 | 0/943 | 0.83 | 0/1269 |
| 35 | 68 | 0.75 | 0/943 | 0.87 | 1/1269 (0.1%) |
| 36 | 35 | 0.73 | 0/1162 | 1.15 | 6/1544 (0.4%) |
| 36 | 78 | 0.81 | 0/1162 | 1.12 | 3/1544 (0.2%) |
| 37 | 45 | 0.72 | 0/1143 | 0.96 | 1/1527 (0.1%) |
| 37 | 88 | 0.96 | 3/1107 (0.3%) | 1.15 | 7/1478 (0.5%) |
| 38 | 55 | 0.71 | 0/974 | 0.93 | 1/1302 (0.1%) |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-------------------|-------------|--------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 38 | 98 | 0.67 | 0/982 | 1.00 | 4/1312 (0.3%) |
| 39 | 65 | 0.57 | 0/892 | 0.96 | 3/1187 (0.3%) |
| 39 | A8 | 0.78 | 0/892 | 1.05 | 4/1187 (0.3%) |
| 40 | 75 | 0.65 | 0/1155 | 0.79 | 0/1542 |
| 40 | B8 | 0.70 | 0/1155 | 0.89 | 0/1542 |
| 41 | 85 | 0.64 | 0/982 | 0.81 | 0/1306 |
| 41 | C8 | 0.80 | 0/982 | 0.97 | 5/1306 (0.4%) |
| 42 | 95 | 0.67 | 0/790 | 0.91 | 2/1057 (0.2%) |
| 42 | D8 | 0.68 | 0/790 | 0.90 | 1/1057 (0.1%) |
| 43 | A5 | 0.74 | 0/911 | 0.88 | 1/1220 (0.1%) |
| 43 | E8 | 0.72 | 0/911 | 1.07 | 7/1220 (0.6%) |
| 44 | B5 | 0.83 | 0/744 | 0.89 | 0/1000 |
| 44 | F8 | 0.96 | 2/756 (0.3%) | 1.03 | 1/1014 (0.1%) |
| 45 | C5 | 0.78 | 0/807 | 0.97 | 1/1076 (0.1%) |
| 45 | G8 | 0.78 | 0/804 | 1.07 | 2/1073 (0.2%) |
| 46 | D5 | 0.45 | 0/1460 | 0.71 | 1/1982 (0.1%) |
| 46 | H8 | 0.56 | 0/1427 | 0.87 | 2/1935 (0.1%) |
| 47 | E5 | 0.65 | 0/621 | 0.94 | 1/827 (0.1%) |
| 47 | I8 | 0.87 | 0/635 | 1.03 | 0/847 |
| 48 | F5 | 0.68 | 0/770 | 1.00 | 4/1022 (0.4%) |
| 48 | J8 | 0.81 | 0/770 | 1.00 | 2/1022 (0.2%) |
| 49 | G5 | 0.65 | 1/560 (0.2%) | 0.84 | 1/741 (0.1%) |
| 49 | K8 | 0.88 | 0/565 | 1.08 | 1/748 (0.1%) |
| 50 | H5 | 0.54 | 0/474 | 0.78 | 0/635 |
| 50 | L8 | 0.84 | 0/457 | 1.08 | 4/613 (0.7%) |
| 51 | I5 | 0.46 | 0/527 | 0.76 | 0/709 |
| 51 | M8 | 0.64 | 0/545 | 0.84 | 0/733 |
| 52 | J5 | 0.70 | 0/473 | 0.91 | 1/639 (0.2%) |
| 52 | N8 | 0.77 | 0/468 | 1.02 | 2/632 (0.3%) |
| 53 | K5 | 0.61 | 0/396 | 0.96 | 0/529 |
| 53 | O8 | 0.83 | 1/396 (0.3%) | 0.89 | 1/529 (0.2%) |
| 54 | L5 | 0.89 | 0/406 | 1.04 | 2/536 (0.4%) |
| 54 | P8 | 1.04 | 0/426 | 1.17 | 2/561 (0.4%) |
| 55 | M5 | 0.99 | 1/483 (0.2%) | 1.14 | 1/634 (0.2%) |
| 55 | Q8 | 1.47 | 5/486 (1.0%) | 1.86 | 11/638 (1.7%) |
| All | All | 0.90 | 432/322727 (0.1%) | 1.57 | 7504/483212 (1.6%) |

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 | 1 |
| 2 | 1E | 0 | 1 |
| 4 | 32 | 0 | 4 |
| 4 | 3E | 0 | 1 |
| 9 | 82 | 0 | 2 |
| 10 | 1A | 0 | 2 |
| 11 | 2A | 0 | 2 |
| 12 | 3A | 0 | 1 |
| 12 | 3I | 0 | 1 |
| 15 | 6I | 0 | 1 |
| 19 | AI | 0 | 2 |
| 20 | BA | 0 | 3 |
| 28 | 11 | 0 | 1 |
| 28 | 19 | 0 | 4 |
| 29 | 21 | 0 | 3 |
| 29 | 29 | 0 | 4 |
| 30 | 31 | 0 | 1 |
| 30 | 39 | 0 | 6 |
| 31 | 41 | 0 | 2 |
| 31 | 49 | 0 | 1 |
| 32 | 59 | 0 | 3 |
| 33 | 61 | 0 | 5 |
| 33 | 69 | 0 | 2 |
| 34 | 15 | 0 | 2 |
| 34 | 58 | 0 | 2 |
| 35 | 68 | 0 | 1 |
| 36 | 35 | 0 | 4 |
| 36 | 78 | 0 | 2 |
| 37 | 45 | 0 | 6 |
| 37 | 88 | 0 | 2 |
| 38 | 55 | 0 | 1 |
| 38 | 98 | 0 | 3 |
| 39 | 65 | 0 | 2 |
| 39 | A8 | 0 | 2 |
| 40 | 75 | 0 | 1 |
| 40 | B8 | 0 | 1 |
| 41 | 85 | 0 | 2 |
| 41 | C8 | 0 | 2 |
| 42 | 95 | 0 | 1 |
| 43 | A5 | 0 | 3 |
| 44 | B5 | 0 | 2 |
| 44 | F8 | 0 | 1 |
| 45 | C5 | 0 | 3 |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 45 | G8 | 0 | 3 |
| 46 | D5 | 0 | 2 |
| 46 | H8 | 0 | 2 |
| 47 | I8 | 0 | 2 |
| 48 | F5 | 0 | 1 |
| 48 | J8 | 0 | 2 |
| 49 | G5 | 0 | 3 |
| 49 | K8 | 0 | 3 |
| 51 | I5 | 0 | 2 |
| 51 | M8 | 0 | 2 |
| 52 | N8 | 0 | 2 |
| 53 | K5 | 0 | 3 |
| 53 | O8 | 0 | 3 |
| 55 | M5 | 0 | 3 |
| 55 | Q8 | 0 | 13 |
| All | All | 0 | 142 |

The worst 5 of 432 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|--------|-------------|----------|
| 23 | 2L | 21 | U | C5-C6 | 18.43 | 1.50 | 1.34 |
| 23 | 2K | 21 | U | C5-C6 | 16.94 | 1.49 | 1.34 |
| 26 | 1H | 774 | A | N9-C4 | -14.63 | 1.29 | 1.37 |
| 26 | 14 | 783 | A | N9-C4 | -13.79 | 1.29 | 1.37 |
| 26 | 1H | 783 | A | N9-C4 | -12.87 | 1.30 | 1.37 |

The worst 5 of 7504 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|--------|-------------|----------|
| 26 | 1H | 1899 | G | N3-C4-N9 | -26.68 | 109.99 | 126.00 |
| 26 | 1H | 676 | A | C2-N3-C4 | -22.63 | 99.29 | 110.60 |
| 26 | 1H | 2430 | A | C2-N3-C4 | -22.43 | 99.39 | 110.60 |
| 26 | 1H | 1899 | G | N3-C4-C5 | 21.40 | 139.30 | 128.60 |
| 26 | 1H | 783 | A | C2-N3-C4 | -21.20 | 100.00 | 110.60 |

There are no chirality outliers.

5 of 142 planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 2 | 1E | 15 | VAL | Peptide |
| 4 | 3E | 31 | CYS | Peptide |

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| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 12 | 3I | 87 | GLY | Peptide |
| 15 | 6I | 87 | ILE | Peptide |
| 19 | AI | 6 | LYS | Peptide |

5.2 Too-close contacts [i](#)

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 | 32207 | 0 | 16256 | 882 | 0 |
| 1 | 1G | 32182 | 0 | 16244 | 875 | 0 |
| 2 | 12 | 1924 | 0 | 1975 | 85 | 0 |
| 2 | 1E | 1924 | 0 | 1975 | 103 | 0 |
| 3 | 22 | 1612 | 0 | 1677 | 79 | 0 |
| 3 | 2E | 1605 | 0 | 1668 | 65 | 0 |
| 4 | 32 | 1703 | 0 | 1763 | 94 | 0 |
| 4 | 3E | 1703 | 0 | 1762 | 100 | 0 |
| 5 | 42 | 1155 | 0 | 1213 | 62 | 0 |
| 5 | 4E | 1155 | 0 | 1213 | 54 | 0 |
| 6 | 52 | 843 | 0 | 857 | 44 | 0 |
| 6 | 5E | 843 | 0 | 857 | 39 | 0 |
| 7 | 62 | 1257 | 0 | 1296 | 62 | 0 |
| 7 | 6E | 1257 | 0 | 1296 | 49 | 0 |
| 8 | 72 | 1116 | 0 | 1177 | 57 | 0 |
| 8 | 7E | 1116 | 0 | 1177 | 64 | 0 |
| 9 | 82 | 1010 | 0 | 1037 | 76 | 0 |
| 9 | 8E | 1010 | 0 | 1037 | 61 | 0 |
| 10 | 1A | 801 | 0 | 849 | 43 | 0 |
| 10 | 1I | 801 | 0 | 849 | 62 | 0 |
| 11 | 2A | 885 | 0 | 904 | 40 | 0 |
| 11 | 2I | 885 | 0 | 904 | 44 | 0 |
| 12 | 3A | 975 | 0 | 1062 | 47 | 0 |
| 12 | 3I | 975 | 0 | 1062 | 43 | 0 |
| 13 | 4A | 933 | 0 | 992 | 66 | 0 |
| 13 | 4I | 938 | 0 | 997 | 50 | 0 |
| 14 | 5A | 476 | 0 | 511 | 30 | 0 |
| 14 | 5I | 492 | 0 | 529 | 29 | 0 |
| 15 | 6A | 734 | 0 | 771 | 25 | 0 |
| 15 | 6I | 734 | 0 | 771 | 29 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 16 | 7A | 705 | 0 | 725 | 43 | 0 |
| 16 | 7I | 705 | 0 | 725 | 54 | 0 |
| 17 | 8A | 834 | 0 | 904 | 25 | 0 |
| 17 | 8I | 834 | 0 | 904 | 51 | 0 |
| 18 | 9A | 591 | 0 | 662 | 27 | 0 |
| 18 | 9I | 591 | 0 | 662 | 29 | 0 |
| 19 | AA | 624 | 0 | 636 | 47 | 0 |
| 19 | AI | 647 | 0 | 665 | 57 | 0 |
| 20 | BA | 763 | 0 | 861 | 45 | 0 |
| 20 | BI | 763 | 0 | 861 | 44 | 0 |
| 21 | 1B | 217 | 0 | 234 | 11 | 0 |
| 21 | 1F | 217 | 0 | 234 | 13 | 0 |
| 22 | 1K | 1626 | 0 | 834 | 28 | 0 |
| 22 | 1L | 1626 | 0 | 834 | 41 | 0 |
| 23 | 2K | 1646 | 0 | 845 | 38 | 0 |
| 23 | 2L | 1646 | 0 | 845 | 39 | 0 |
| 24 | 3K | 1619 | 0 | 822 | 52 | 0 |
| 24 | 3L | 1619 | 0 | 822 | 60 | 0 |
| 25 | 4K | 301 | 0 | 153 | 11 | 0 |
| 25 | 4L | 131 | 0 | 66 | 5 | 0 |
| 26 | 14 | 62647 | 0 | 31580 | 1604 | 1 |
| 26 | 1H | 62707 | 0 | 31607 | 1779 | 1 |
| 27 | 16 | 2617 | 0 | 1328 | 71 | 0 |
| 27 | 1J | 2617 | 0 | 1328 | 99 | 0 |
| 28 | 11 | 2120 | 0 | 2197 | 122 | 0 |
| 28 | 19 | 2120 | 0 | 2197 | 117 | 0 |
| 29 | 21 | 1568 | 0 | 1634 | 107 | 0 |
| 29 | 29 | 1568 | 0 | 1634 | 117 | 0 |
| 30 | 31 | 1585 | 0 | 1632 | 104 | 0 |
| 30 | 39 | 1627 | 0 | 1680 | 101 | 0 |
| 31 | 41 | 1473 | 0 | 1535 | 77 | 0 |
| 31 | 49 | 1473 | 0 | 1535 | 70 | 0 |
| 32 | 51 | 1336 | 0 | 1418 | 94 | 0 |
| 32 | 59 | 1307 | 0 | 1382 | 73 | 0 |
| 33 | 61 | 1136 | 0 | 1223 | 63 | 0 |
| 33 | 69 | 1136 | 0 | 1223 | 56 | 0 |
| 34 | 15 | 1104 | 0 | 1180 | 55 | 0 |
| 34 | 58 | 1104 | 0 | 1180 | 70 | 0 |
| 35 | 25 | 933 | 0 | 996 | 48 | 0 |
| 35 | 68 | 933 | 0 | 996 | 41 | 0 |
| 36 | 35 | 1145 | 0 | 1228 | 113 | 0 |
| 36 | 78 | 1145 | 0 | 1228 | 119 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 37 | 45 | 1122 | 0 | 1179 | 84 | 0 |
| 37 | 88 | 1087 | 0 | 1129 | 83 | 0 |
| 38 | 55 | 960 | 0 | 1021 | 65 | 0 |
| 38 | 98 | 968 | 0 | 1033 | 72 | 0 |
| 39 | 65 | 882 | 0 | 943 | 62 | 0 |
| 39 | A8 | 882 | 0 | 943 | 67 | 0 |
| 40 | 75 | 1141 | 0 | 1202 | 67 | 0 |
| 40 | B8 | 1141 | 0 | 1202 | 76 | 0 |
| 41 | 85 | 964 | 0 | 1022 | 54 | 0 |
| 41 | C8 | 964 | 0 | 1022 | 65 | 0 |
| 42 | 95 | 779 | 0 | 852 | 66 | 0 |
| 42 | D8 | 779 | 0 | 852 | 40 | 0 |
| 43 | A5 | 900 | 0 | 964 | 34 | 0 |
| 43 | E8 | 900 | 0 | 964 | 50 | 0 |
| 44 | B5 | 730 | 0 | 780 | 32 | 0 |
| 44 | F8 | 742 | 0 | 803 | 56 | 0 |
| 45 | C5 | 794 | 0 | 884 | 58 | 0 |
| 45 | G8 | 791 | 0 | 882 | 57 | 0 |
| 46 | D5 | 1428 | 0 | 1454 | 88 | 0 |
| 46 | H8 | 1397 | 0 | 1430 | 85 | 0 |
| 47 | E5 | 613 | 0 | 633 | 48 | 0 |
| 47 | I8 | 627 | 0 | 642 | 34 | 0 |
| 48 | F5 | 763 | 0 | 848 | 32 | 0 |
| 48 | J8 | 763 | 0 | 848 | 38 | 0 |
| 49 | G5 | 558 | 0 | 610 | 32 | 1 |
| 49 | K8 | 563 | 0 | 612 | 41 | 1 |
| 50 | H5 | 469 | 0 | 518 | 16 | 0 |
| 50 | L8 | 452 | 0 | 503 | 33 | 0 |
| 51 | I5 | 515 | 0 | 514 | 40 | 0 |
| 51 | M8 | 533 | 0 | 526 | 48 | 0 |
| 52 | J5 | 459 | 0 | 480 | 32 | 0 |
| 52 | N8 | 454 | 0 | 475 | 33 | 0 |
| 53 | K5 | 389 | 0 | 404 | 21 | 0 |
| 53 | O8 | 389 | 0 | 404 | 31 | 0 |
| 54 | L5 | 398 | 0 | 441 | 19 | 0 |
| 54 | P8 | 418 | 0 | 467 | 22 | 0 |
| 55 | M5 | 477 | 0 | 540 | 47 | 0 |
| 55 | Q8 | 480 | 0 | 549 | 132 | 0 |
| 56 | 11 | 4 | 0 | 0 | 0 | 0 |
| 56 | 13 | 151 | 0 | 0 | 0 | 0 |
| 56 | 14 | 389 | 0 | 0 | 0 | 0 |
| 56 | 16 | 13 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 56 | 1G | 103 | 0 | 0 | 0 | 0 |
| 56 | 1H | 529 | 0 | 0 | 0 | 0 |
| 56 | 1J | 9 | 0 | 0 | 0 | 0 |
| 56 | 1K | 2 | 0 | 0 | 0 | 0 |
| 56 | 2I | 2 | 0 | 0 | 0 | 0 |
| 56 | 29 | 2 | 0 | 0 | 0 | 0 |
| 56 | 2K | 3 | 0 | 0 | 0 | 0 |
| 56 | 2L | 2 | 0 | 0 | 0 | 0 |
| 56 | 3I | 1 | 0 | 0 | 0 | 0 |
| 56 | 35 | 1 | 0 | 0 | 0 | 0 |
| 56 | 3E | 2 | 0 | 0 | 0 | 0 |
| 56 | 3I | 1 | 0 | 0 | 0 | 0 |
| 56 | 4I | 2 | 0 | 0 | 0 | 0 |
| 56 | 49 | 1 | 0 | 0 | 0 | 0 |
| 56 | 4A | 1 | 0 | 0 | 0 | 0 |
| 56 | 5E | 1 | 0 | 0 | 0 | 0 |
| 56 | 6A | 1 | 0 | 0 | 0 | 0 |
| 56 | 75 | 1 | 0 | 0 | 0 | 0 |
| 56 | 78 | 2 | 0 | 0 | 0 | 0 |
| 56 | 85 | 1 | 0 | 0 | 0 | 0 |
| 56 | 88 | 2 | 0 | 0 | 0 | 0 |
| 56 | 98 | 1 | 0 | 0 | 0 | 0 |
| 56 | AI | 1 | 0 | 0 | 0 | 0 |
| 56 | C5 | 1 | 0 | 0 | 0 | 0 |
| 56 | C8 | 1 | 0 | 0 | 0 | 0 |
| 56 | E8 | 1 | 0 | 0 | 0 | 0 |
| 56 | F5 | 1 | 0 | 0 | 0 | 0 |
| 56 | I8 | 2 | 0 | 0 | 0 | 0 |
| 56 | J8 | 2 | 0 | 0 | 0 | 0 |
| 56 | L8 | 1 | 0 | 0 | 0 | 0 |
| 56 | P8 | 1 | 0 | 0 | 0 | 0 |
| 56 | Q8 | 1 | 0 | 0 | 0 | 0 |
| 57 | 32 | 1 | 0 | 0 | 0 | 0 |
| 57 | 3E | 1 | 0 | 0 | 0 | 0 |
| 57 | 5A | 1 | 0 | 0 | 0 | 0 |
| 57 | 5I | 1 | 0 | 0 | 0 | 0 |
| 57 | C5 | 1 | 0 | 0 | 0 | 0 |
| 57 | G8 | 1 | 0 | 0 | 0 | 0 |
| 58 | 11 | 9 | 0 | 0 | 0 | 0 |
| 58 | 13 | 212 | 0 | 0 | 36 | 0 |
| 58 | 14 | 730 | 0 | 0 | 169 | 0 |
| 58 | 16 | 16 | 0 | 0 | 2 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 58 | 19 | 11 | 0 | 0 | 0 | 0 |
| 58 | 1G | 99 | 0 | 0 | 22 | 0 |
| 58 | 1H | 1097 | 0 | 0 | 264 | 0 |
| 58 | 1I | 2 | 0 | 0 | 0 | 0 |
| 58 | 1J | 12 | 0 | 0 | 3 | 0 |
| 58 | 1K | 1 | 0 | 0 | 0 | 0 |
| 58 | 2I | 5 | 0 | 0 | 3 | 0 |
| 58 | 29 | 6 | 0 | 0 | 0 | 0 |
| 58 | 31 | 10 | 0 | 0 | 0 | 0 |
| 58 | 39 | 7 | 0 | 0 | 0 | 0 |
| 58 | 3E | 1 | 0 | 0 | 0 | 0 |
| 58 | 3I | 1 | 0 | 0 | 0 | 0 |
| 58 | 3K | 1 | 0 | 0 | 0 | 0 |
| 58 | 4E | 2 | 0 | 0 | 0 | 0 |
| 58 | 4K | 4 | 0 | 0 | 0 | 0 |
| 58 | 55 | 1 | 0 | 0 | 0 | 0 |
| 58 | 58 | 1 | 0 | 0 | 0 | 0 |
| 58 | 5I | 2 | 0 | 0 | 0 | 0 |
| 58 | 78 | 4 | 0 | 0 | 0 | 0 |
| 58 | 7A | 2 | 0 | 0 | 0 | 0 |
| 58 | 85 | 1 | 0 | 0 | 0 | 0 |
| 58 | 8E | 2 | 0 | 0 | 0 | 0 |
| 58 | 98 | 1 | 0 | 0 | 0 | 0 |
| 58 | A5 | 1 | 0 | 0 | 0 | 0 |
| 58 | BA | 1 | 0 | 0 | 0 | 0 |
| 58 | C8 | 2 | 0 | 0 | 1 | 0 |
| 58 | D8 | 1 | 0 | 0 | 0 | 0 |
| 58 | E8 | 2 | 0 | 0 | 0 | 0 |
| 58 | G8 | 3 | 0 | 0 | 0 | 0 |
| 58 | H5 | 1 | 0 | 0 | 0 | 0 |
| 58 | I8 | 6 | 0 | 0 | 0 | 0 |
| 58 | L5 | 1 | 0 | 0 | 0 | 0 |
| 58 | L8 | 2 | 0 | 0 | 0 | 0 |
| 58 | P8 | 2 | 0 | 0 | 0 | 0 |
| 58 | Q8 | 2 | 0 | 0 | 0 | 0 |
| All | All | 300537 | 0 | 200491 | 9898 | 2 |

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 21.

The worst 5 of 9898 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) |
|-------------------|------------------|--------------------------|-------------------|
| 4:32:9:CYS:SG | 4:32:31:CYS:HB2 | 1.81 | 1.19 |
| 26:1H:2714:G:OP2 | 58:1H:3670:HOH:O | 1.68 | 1.11 |
| 36:78:19:VAL:HG12 | 36:78:21:ARG:H | 1.15 | 1.07 |
| 26:14:2593:U:O4 | 58:14:4084:HOH:O | 1.72 | 1.07 |
| 26:1H:1614:A:OP1 | 58:1H:3921:HOH:O | 1.73 | 1.06 |

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

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|-----------------|------------------------|--------------------------|-------------------|
| 49:K8:17:SER:OG | 26:14:307:G:OP1[2_564] | 1.99 | 0.21 |
| 26:1H:277:C:O2' | 49:G5:49:LYS:NZ[2_564] | 2.13 | 0.07 |

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 | 235/256 (92%) | 194 (83%) | 38 (16%) | 3 (1%) | 12 | 44 |
| 2 | 1E | 235/256 (92%) | 198 (84%) | 35 (15%) | 2 (1%) | 17 | 53 |
| 3 | 22 | 204/239 (85%) | 180 (88%) | 24 (12%) | 0 | 100 | 100 |
| 3 | 2E | 203/239 (85%) | 179 (88%) | 23 (11%) | 1 (0%) | 29 | 65 |
| 4 | 32 | 206/209 (99%) | 181 (88%) | 24 (12%) | 1 (0%) | 29 | 65 |
| 4 | 3E | 206/209 (99%) | 190 (92%) | 14 (7%) | 2 (1%) | 15 | 51 |
| 5 | 42 | 149/162 (92%) | 141 (95%) | 8 (5%) | 0 | 100 | 100 |
| 5 | 4E | 149/162 (92%) | 139 (93%) | 9 (6%) | 1 (1%) | 22 | 59 |
| 6 | 52 | 99/101 (98%) | 95 (96%) | 4 (4%) | 0 | 100 | 100 |
| 6 | 5E | 99/101 (98%) | 91 (92%) | 8 (8%) | 0 | 100 | 100 |
| 7 | 62 | 153/156 (98%) | 146 (95%) | 6 (4%) | 1 (1%) | 22 | 59 |
| 7 | 6E | 153/156 (98%) | 142 (93%) | 11 (7%) | 0 | 100 | 100 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 8 | 72 | 136/138 (99%) | 126 (93%) | 8 (6%) | 2 (2%) | 10 | 41 |
| 8 | 7E | 136/138 (99%) | 124 (91%) | 11 (8%) | 1 (1%) | 22 | 59 |
| 9 | 82 | 125/128 (98%) | 111 (89%) | 13 (10%) | 1 (1%) | 19 | 55 |
| 9 | 8E | 125/128 (98%) | 107 (86%) | 18 (14%) | 0 | 100 | 100 |
| 10 | 1A | 97/105 (92%) | 91 (94%) | 6 (6%) | 0 | 100 | 100 |
| 10 | 1I | 97/105 (92%) | 90 (93%) | 7 (7%) | 0 | 100 | 100 |
| 11 | 2A | 117/129 (91%) | 102 (87%) | 12 (10%) | 3 (3%) | 5 | 28 |
| 11 | 2I | 117/129 (91%) | 103 (88%) | 13 (11%) | 1 (1%) | 17 | 53 |
| 12 | 3A | 123/132 (93%) | 100 (81%) | 18 (15%) | 5 (4%) | 3 | 18 |
| 12 | 3I | 123/132 (93%) | 105 (85%) | 18 (15%) | 0 | 100 | 100 |
| 13 | 4A | 115/126 (91%) | 94 (82%) | 19 (16%) | 2 (2%) | 9 | 38 |
| 13 | 4I | 116/126 (92%) | 94 (81%) | 22 (19%) | 0 | 100 | 100 |
| 14 | 5A | 56/61 (92%) | 47 (84%) | 8 (14%) | 1 (2%) | 8 | 37 |
| 14 | 5I | 58/61 (95%) | 47 (81%) | 9 (16%) | 2 (3%) | 3 | 21 |
| 15 | 6A | 86/89 (97%) | 82 (95%) | 4 (5%) | 0 | 100 | 100 |
| 15 | 6I | 86/89 (97%) | 77 (90%) | 9 (10%) | 0 | 100 | 100 |
| 16 | 7A | 82/88 (93%) | 77 (94%) | 5 (6%) | 0 | 100 | 100 |
| 16 | 7I | 82/88 (93%) | 75 (92%) | 6 (7%) | 1 (1%) | 13 | 46 |
| 17 | 8A | 98/105 (93%) | 91 (93%) | 7 (7%) | 0 | 100 | 100 |
| 17 | 8I | 98/105 (93%) | 93 (95%) | 5 (5%) | 0 | 100 | 100 |
| 18 | 9A | 70/88 (80%) | 65 (93%) | 5 (7%) | 0 | 100 | 100 |
| 18 | 9I | 70/88 (80%) | 62 (89%) | 7 (10%) | 1 (1%) | 11 | 43 |
| 19 | AA | 76/93 (82%) | 61 (80%) | 13 (17%) | 2 (3%) | 5 | 28 |
| 19 | AI | 79/93 (85%) | 65 (82%) | 10 (13%) | 4 (5%) | 2 | 13 |
| 20 | BA | 97/106 (92%) | 84 (87%) | 11 (11%) | 2 (2%) | 7 | 33 |
| 20 | BI | 97/106 (92%) | 82 (84%) | 14 (14%) | 1 (1%) | 15 | 51 |
| 21 | 1B | 23/27 (85%) | 21 (91%) | 2 (9%) | 0 | 100 | 100 |
| 21 | 1F | 23/27 (85%) | 21 (91%) | 2 (9%) | 0 | 100 | 100 |
| 28 | 11 | 271/276 (98%) | 252 (93%) | 14 (5%) | 5 (2%) | 8 | 37 |
| 28 | 19 | 271/276 (98%) | 252 (93%) | 14 (5%) | 5 (2%) | 8 | 37 |
| 29 | 21 | 203/206 (98%) | 161 (79%) | 30 (15%) | 12 (6%) | 1 | 11 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 29 | 29 | 203/206 (98%) | 156 (77%) | 35 (17%) | 12 (6%) | 1 | 11 |
| 30 | 31 | 200/210 (95%) | 183 (92%) | 15 (8%) | 2 (1%) | 15 | 51 |
| 30 | 39 | 206/210 (98%) | 159 (77%) | 41 (20%) | 6 (3%) | 4 | 25 |
| 31 | 41 | 179/182 (98%) | 159 (89%) | 17 (10%) | 3 (2%) | 9 | 38 |
| 31 | 49 | 179/182 (98%) | 158 (88%) | 20 (11%) | 1 (1%) | 25 | 62 |
| 32 | 51 | 172/180 (96%) | 148 (86%) | 17 (10%) | 7 (4%) | 3 | 18 |
| 32 | 59 | 168/180 (93%) | 129 (77%) | 34 (20%) | 5 (3%) | 4 | 24 |
| 33 | 61 | 144/148 (97%) | 117 (81%) | 23 (16%) | 4 (3%) | 5 | 26 |
| 33 | 69 | 144/148 (97%) | 119 (83%) | 21 (15%) | 4 (3%) | 5 | 26 |
| 34 | 15 | 136/140 (97%) | 124 (91%) | 11 (8%) | 1 (1%) | 22 | 59 |
| 34 | 58 | 136/140 (97%) | 116 (85%) | 16 (12%) | 4 (3%) | 4 | 25 |
| 35 | 25 | 120/122 (98%) | 111 (92%) | 9 (8%) | 0 | 100 | 100 |
| 35 | 68 | 120/122 (98%) | 111 (92%) | 8 (7%) | 1 (1%) | 19 | 55 |
| 36 | 35 | 148/150 (99%) | 114 (77%) | 28 (19%) | 6 (4%) | 3 | 18 |
| 36 | 78 | 148/150 (99%) | 121 (82%) | 21 (14%) | 6 (4%) | 3 | 18 |
| 37 | 45 | 139/141 (99%) | 114 (82%) | 23 (16%) | 2 (1%) | 11 | 43 |
| 37 | 88 | 134/141 (95%) | 110 (82%) | 18 (13%) | 6 (4%) | 2 | 16 |
| 38 | 55 | 115/118 (98%) | 104 (90%) | 9 (8%) | 2 (2%) | 9 | 38 |
| 38 | 98 | 116/118 (98%) | 97 (84%) | 18 (16%) | 1 (1%) | 17 | 53 |
| 39 | 65 | 109/112 (97%) | 87 (80%) | 18 (16%) | 4 (4%) | 3 | 19 |
| 39 | A8 | 109/112 (97%) | 90 (83%) | 18 (16%) | 1 (1%) | 17 | 53 |
| 40 | 75 | 135/146 (92%) | 119 (88%) | 15 (11%) | 1 (1%) | 22 | 59 |
| 40 | B8 | 135/146 (92%) | 122 (90%) | 13 (10%) | 0 | 100 | 100 |
| 41 | 85 | 115/118 (98%) | 99 (86%) | 15 (13%) | 1 (1%) | 17 | 53 |
| 41 | C8 | 115/118 (98%) | 101 (88%) | 10 (9%) | 4 (4%) | 3 | 21 |
| 42 | 95 | 99/101 (98%) | 78 (79%) | 16 (16%) | 5 (5%) | 2 | 13 |
| 42 | D8 | 99/101 (98%) | 94 (95%) | 3 (3%) | 2 (2%) | 7 | 34 |
| 43 | A5 | 111/113 (98%) | 100 (90%) | 11 (10%) | 0 | 100 | 100 |
| 43 | E8 | 111/113 (98%) | 101 (91%) | 10 (9%) | 0 | 100 | 100 |
| 44 | B5 | 91/96 (95%) | 82 (90%) | 8 (9%) | 1 (1%) | 14 | 48 |
| 44 | F8 | 92/96 (96%) | 84 (91%) | 7 (8%) | 1 (1%) | 14 | 48 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-------------------|------------|------------|----------|-------------|-----|
| 45 | C5 | 102/110 (93%) | 75 (74%) | 22 (22%) | 5 (5%) | 2 | 14 |
| 45 | G8 | 102/110 (93%) | 82 (80%) | 14 (14%) | 6 (6%) | 1 | 11 |
| 46 | D5 | 177/206 (86%) | 130 (73%) | 37 (21%) | 10 (6%) | 2 | 12 |
| 46 | H8 | 173/206 (84%) | 136 (79%) | 28 (16%) | 9 (5%) | 2 | 13 |
| 47 | E5 | 75/85 (88%) | 66 (88%) | 8 (11%) | 1 (1%) | 12 | 44 |
| 47 | I8 | 78/85 (92%) | 65 (83%) | 12 (15%) | 1 (1%) | 12 | 44 |
| 48 | F5 | 95/98 (97%) | 88 (93%) | 6 (6%) | 1 (1%) | 14 | 48 |
| 48 | J8 | 95/98 (97%) | 86 (90%) | 7 (7%) | 2 (2%) | 7 | 33 |
| 49 | G5 | 64/72 (89%) | 59 (92%) | 3 (5%) | 2 (3%) | 4 | 23 |
| 49 | K8 | 65/72 (90%) | 60 (92%) | 3 (5%) | 2 (3%) | 4 | 23 |
| 50 | H5 | 57/60 (95%) | 53 (93%) | 4 (7%) | 0 | 100 | 100 |
| 50 | L8 | 55/60 (92%) | 50 (91%) | 4 (7%) | 1 (2%) | 8 | 37 |
| 51 | I5 | 61/71 (86%) | 34 (56%) | 24 (39%) | 3 (5%) | 2 | 14 |
| 51 | M8 | 64/71 (90%) | 40 (62%) | 21 (33%) | 3 (5%) | 2 | 15 |
| 52 | J5 | 57/60 (95%) | 50 (88%) | 6 (10%) | 1 (2%) | 8 | 37 |
| 52 | N8 | 56/60 (93%) | 48 (86%) | 6 (11%) | 2 (4%) | 3 | 20 |
| 53 | K5 | 43/54 (80%) | 26 (60%) | 14 (33%) | 3 (7%) | 1 | 7 |
| 53 | O8 | 43/54 (80%) | 28 (65%) | 13 (30%) | 2 (5%) | 2 | 15 |
| 54 | L5 | 44/49 (90%) | 42 (96%) | 2 (4%) | 0 | 100 | 100 |
| 54 | P8 | 46/49 (94%) | 45 (98%) | 1 (2%) | 0 | 100 | 100 |
| 55 | M5 | 58/65 (89%) | 47 (81%) | 9 (16%) | 2 (3%) | 3 | 21 |
| 55 | Q8 | 58/65 (89%) | 31 (53%) | 16 (28%) | 11 (19%) | 0 | 0 |
| All | All | 11340/12054 (94%) | 9786 (86%) | 1332 (12%) | 222 (2%) | 7 | 34 |

5 of 222 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 2 | 1E | 237 | ALA |
| 18 | 9I | 22 | VAL |
| 29 | 21 | 83 | ASP |
| 32 | 51 | 169 | VAL |
| 36 | 78 | 57 | THR |

5.3.2 Protein sidechains [i](#)

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 | 205/220 (93%) | 169 (82%) | 36 (18%) | 2 | 9 |
| 2 | 1E | 205/220 (93%) | 152 (74%) | 53 (26%) | 0 | 2 |
| 3 | 22 | 160/188 (85%) | 134 (84%) | 26 (16%) | 2 | 10 |
| 3 | 2E | 159/188 (85%) | 128 (80%) | 31 (20%) | 1 | 7 |
| 4 | 32 | 180/181 (99%) | 144 (80%) | 36 (20%) | 1 | 6 |
| 4 | 3E | 180/181 (99%) | 138 (77%) | 42 (23%) | 1 | 3 |
| 5 | 42 | 116/123 (94%) | 84 (72%) | 32 (28%) | 0 | 1 |
| 5 | 4E | 116/123 (94%) | 88 (76%) | 28 (24%) | 0 | 2 |
| 6 | 52 | 90/90 (100%) | 71 (79%) | 19 (21%) | 1 | 5 |
| 6 | 5E | 90/90 (100%) | 78 (87%) | 12 (13%) | 4 | 17 |
| 7 | 62 | 126/127 (99%) | 97 (77%) | 29 (23%) | 1 | 3 |
| 7 | 6E | 126/127 (99%) | 99 (79%) | 27 (21%) | 1 | 5 |
| 8 | 72 | 119/119 (100%) | 91 (76%) | 28 (24%) | 1 | 3 |
| 8 | 7E | 119/119 (100%) | 95 (80%) | 24 (20%) | 1 | 6 |
| 9 | 82 | 98/99 (99%) | 77 (79%) | 21 (21%) | 1 | 5 |
| 9 | 8E | 98/99 (99%) | 77 (79%) | 21 (21%) | 1 | 5 |
| 10 | 1A | 89/92 (97%) | 71 (80%) | 18 (20%) | 1 | 6 |
| 10 | 1I | 89/92 (97%) | 71 (80%) | 18 (20%) | 1 | 6 |
| 11 | 2A | 90/99 (91%) | 64 (71%) | 26 (29%) | 0 | 1 |
| 11 | 2I | 90/99 (91%) | 71 (79%) | 19 (21%) | 1 | 5 |
| 12 | 3A | 104/109 (95%) | 85 (82%) | 19 (18%) | 1 | 8 |
| 12 | 3I | 104/109 (95%) | 84 (81%) | 20 (19%) | 1 | 7 |
| 13 | 4A | 94/101 (93%) | 70 (74%) | 24 (26%) | 0 | 2 |
| 13 | 4I | 94/101 (93%) | 72 (77%) | 22 (23%) | 1 | 3 |
| 14 | 5A | 48/50 (96%) | 40 (83%) | 8 (17%) | 2 | 9 |
| 14 | 5I | 49/50 (98%) | 37 (76%) | 12 (24%) | 0 | 2 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 15 | 6A | 79/80 (99%) | 65 (82%) | 14 (18%) | 2 | 8 |
| 15 | 6I | 79/80 (99%) | 70 (89%) | 9 (11%) | 5 | 23 |
| 16 | 7A | 72/74 (97%) | 57 (79%) | 15 (21%) | 1 | 5 |
| 16 | 7I | 72/74 (97%) | 52 (72%) | 20 (28%) | 0 | 1 |
| 17 | 8A | 95/97 (98%) | 77 (81%) | 18 (19%) | 1 | 7 |
| 17 | 8I | 95/97 (98%) | 73 (77%) | 22 (23%) | 1 | 3 |
| 18 | 9A | 63/77 (82%) | 46 (73%) | 17 (27%) | 0 | 1 |
| 18 | 9I | 63/77 (82%) | 51 (81%) | 12 (19%) | 1 | 7 |
| 19 | AA | 67/80 (84%) | 50 (75%) | 17 (25%) | 0 | 2 |
| 19 | AI | 70/80 (88%) | 49 (70%) | 21 (30%) | 0 | 1 |
| 20 | BA | 76/82 (93%) | 64 (84%) | 12 (16%) | 2 | 11 |
| 20 | BI | 76/82 (93%) | 61 (80%) | 15 (20%) | 1 | 6 |
| 21 | 1B | 20/22 (91%) | 18 (90%) | 2 (10%) | 7 | 28 |
| 21 | 1F | 20/22 (91%) | 19 (95%) | 1 (5%) | 24 | 57 |
| 28 | 11 | 214/218 (98%) | 167 (78%) | 47 (22%) | 1 | 4 |
| 28 | 19 | 214/218 (98%) | 173 (81%) | 41 (19%) | 1 | 7 |
| 29 | 21 | 165/166 (99%) | 122 (74%) | 43 (26%) | 0 | 2 |
| 29 | 29 | 165/166 (99%) | 125 (76%) | 40 (24%) | 0 | 2 |
| 30 | 31 | 161/166 (97%) | 127 (79%) | 34 (21%) | 1 | 5 |
| 30 | 39 | 165/166 (99%) | 124 (75%) | 41 (25%) | 0 | 2 |
| 31 | 41 | 155/156 (99%) | 125 (81%) | 30 (19%) | 1 | 7 |
| 31 | 49 | 155/156 (99%) | 127 (82%) | 28 (18%) | 1 | 8 |
| 32 | 51 | 145/148 (98%) | 111 (77%) | 34 (23%) | 1 | 3 |
| 32 | 59 | 142/148 (96%) | 105 (74%) | 37 (26%) | 0 | 2 |
| 33 | 61 | 122/124 (98%) | 95 (78%) | 27 (22%) | 1 | 4 |
| 33 | 69 | 122/124 (98%) | 89 (73%) | 33 (27%) | 0 | 1 |
| 34 | 15 | 117/119 (98%) | 94 (80%) | 23 (20%) | 1 | 6 |
| 34 | 58 | 117/119 (98%) | 90 (77%) | 27 (23%) | 1 | 3 |
| 35 | 25 | 100/100 (100%) | 78 (78%) | 22 (22%) | 1 | 4 |
| 35 | 68 | 100/100 (100%) | 89 (89%) | 11 (11%) | 6 | 24 |
| 36 | 35 | 116/116 (100%) | 76 (66%) | 40 (34%) | 0 | 0 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|---|
| 36 | 78 | 116/116 (100%) | 85 (73%) | 31 (27%) | 0 | 1 |
| 37 | 45 | 111/111 (100%) | 85 (77%) | 26 (23%) | 1 | 3 |
| 37 | 88 | 104/111 (94%) | 78 (75%) | 26 (25%) | 0 | 2 |
| 38 | 55 | 100/101 (99%) | 80 (80%) | 20 (20%) | 1 | 6 |
| 38 | 98 | 101/101 (100%) | 73 (72%) | 28 (28%) | 0 | 1 |
| 39 | 65 | 87/88 (99%) | 60 (69%) | 27 (31%) | 0 | 1 |
| 39 | A8 | 87/88 (99%) | 63 (72%) | 24 (28%) | 0 | 1 |
| 40 | 75 | 120/127 (94%) | 81 (68%) | 39 (32%) | 0 | 0 |
| 40 | B8 | 120/127 (94%) | 89 (74%) | 31 (26%) | 0 | 2 |
| 41 | 85 | 93/94 (99%) | 74 (80%) | 19 (20%) | 1 | 5 |
| 41 | C8 | 93/94 (99%) | 76 (82%) | 17 (18%) | 1 | 8 |
| 42 | 95 | 82/82 (100%) | 64 (78%) | 18 (22%) | 1 | 4 |
| 42 | D8 | 82/82 (100%) | 57 (70%) | 25 (30%) | 0 | 1 |
| 43 | A5 | 92/92 (100%) | 69 (75%) | 23 (25%) | 0 | 2 |
| 43 | E8 | 92/92 (100%) | 66 (72%) | 26 (28%) | 0 | 1 |
| 44 | B5 | 74/78 (95%) | 50 (68%) | 24 (32%) | 0 | 0 |
| 44 | F8 | 76/78 (97%) | 60 (79%) | 16 (21%) | 1 | 5 |
| 45 | C5 | 85/91 (93%) | 59 (69%) | 26 (31%) | 0 | 1 |
| 45 | G8 | 85/91 (93%) | 59 (69%) | 26 (31%) | 0 | 1 |
| 46 | D5 | 158/179 (88%) | 119 (75%) | 39 (25%) | 0 | 2 |
| 46 | H8 | 154/179 (86%) | 128 (83%) | 26 (17%) | 2 | 9 |
| 47 | E5 | 62/67 (92%) | 51 (82%) | 11 (18%) | 2 | 8 |
| 47 | I8 | 61/67 (91%) | 45 (74%) | 16 (26%) | 0 | 2 |
| 48 | F5 | 82/83 (99%) | 67 (82%) | 15 (18%) | 1 | 8 |
| 48 | J8 | 82/83 (99%) | 61 (74%) | 21 (26%) | 0 | 2 |
| 49 | G5 | 62/67 (92%) | 46 (74%) | 16 (26%) | 0 | 2 |
| 49 | K8 | 62/67 (92%) | 42 (68%) | 20 (32%) | 0 | 0 |
| 50 | H5 | 51/52 (98%) | 38 (74%) | 13 (26%) | 0 | 2 |
| 50 | L8 | 49/52 (94%) | 33 (67%) | 16 (33%) | 0 | 0 |
| 51 | I5 | 57/63 (90%) | 46 (81%) | 11 (19%) | 1 | 7 |
| 51 | M8 | 59/63 (94%) | 42 (71%) | 17 (29%) | 0 | 1 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|------------|------------|-------------|---|
| 52 | J5 | 51/52 (98%) | 40 (78%) | 11 (22%) | 1 | 5 |
| 52 | N8 | 51/52 (98%) | 39 (76%) | 12 (24%) | 1 | 3 |
| 53 | K5 | 44/52 (85%) | 36 (82%) | 8 (18%) | 1 | 8 |
| 53 | O8 | 44/52 (85%) | 30 (68%) | 14 (32%) | 0 | 0 |
| 54 | L5 | 39/42 (93%) | 31 (80%) | 8 (20%) | 1 | 5 |
| 54 | P8 | 41/42 (98%) | 31 (76%) | 10 (24%) | 0 | 2 |
| 55 | M5 | 49/55 (89%) | 37 (76%) | 12 (24%) | 0 | 2 |
| 55 | Q8 | 50/55 (91%) | 30 (60%) | 20 (40%) | 0 | 0 |
| All | All | 9568/9998 (96%) | 7376 (77%) | 2192 (23%) | 1 | 4 |

5 of 2192 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 38 | 55 | 15 | SER |
| 40 | 75 | 21 | GLU |
| 37 | 45 | 134 | ARG |
| 46 | D5 | 123 | ASP |
| 39 | A8 | 44 | LYS |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 28 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 44 | F8 | 31 | HIS |
| 51 | I5 | 20 | ASN |
| 2 | 12 | 212 | GLN |
| 38 | 55 | 91 | GLN |
| 47 | I8 | 70 | GLN |

5.3.3 RNA [i](#)

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | 13 | 1495/1522 (98%) | 358 (23%) | 29 (1%) |
| 1 | 1G | 1495/1522 (98%) | 366 (24%) | 36 (2%) |
| 22 | 1K | 74/76 (97%) | 36 (48%) | 1 (1%) |
| 22 | 1L | 74/76 (97%) | 32 (43%) | 3 (4%) |
| 23 | 2K | 76/77 (98%) | 21 (27%) | 3 (3%) |
| 23 | 2L | 76/77 (98%) | 19 (25%) | 4 (5%) |

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| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 24 | 3K | 75/76 (98%) | 39 (52%) | 8 (10%) |
| 24 | 3L | 75/76 (98%) | 41 (54%) | 3 (4%) |
| 25 | 4K | 13/30 (43%) | 6 (46%) | 1 (7%) |
| 25 | 4L | 6/30 (20%) | 2 (33%) | 1 (16%) |
| 26 | 14 | 2908/2917 (99%) | 777 (26%) | 51 (1%) |
| 26 | 1H | 2911/2917 (99%) | 743 (25%) | 61 (2%) |
| 27 | 16 | 121/122 (99%) | 21 (17%) | 1 (0%) |
| 27 | 1J | 121/122 (99%) | 35 (28%) | 2 (1%) |
| All | All | 9520/9640 (98%) | 2496 (26%) | 204 (2%) |

5 of 2496 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | 13 | 5 | U |
| 1 | 13 | 6 | G |
| 1 | 13 | 8 | A |
| 1 | 13 | 9 | G |
| 1 | 13 | 28 | G |

5 of 204 RNA pucker outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|------|------|
| 1 | 1G | 465 | A |
| 23 | 2L | 20 | G |
| 26 | 14 | 2778 | A |
| 1 | 1G | 560 | U |
| 1 | 1G | 1157 | A |

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

16 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 |
| 23 | 5MU | 2K | 55 | 56,23 | 19,22,23 | 3.94 | 5 (26%) | 28,32,35 | 3.55 | 7 (25%) |
| 23 | 7MG | 2L | 47 | 23 | 22,26,27 | 3.16 | 5 (22%) | 29,39,42 | 2.91 | 11 (37%) |
| 22 | PSU | 1L | 32 | 22 | 18,21,22 | 2.52 | 5 (27%) | 22,30,33 | 1.47 | 3 (13%) |
| 23 | PSU | 2K | 56 | 23 | 18,21,22 | 2.35 | 4 (22%) | 22,30,33 | 1.89 | 5 (22%) |
| 23 | OMC | 2K | 33 | 23 | 19,22,23 | 1.73 | 3 (15%) | 26,31,34 | 1.08 | 3 (11%) |
| 22 | MIA | 1L | 37 | 22 | 24,31,32 | 2.45 | 4 (16%) | 26,44,47 | 3.41 | 10 (38%) |
| 23 | 5MU | 2L | 55 | 23 | 19,22,23 | 3.90 | 5 (26%) | 28,32,35 | 3.32 | 10 (35%) |
| 23 | 4SU | 2L | 8 | 23 | 18,21,22 | 1.73 | 3 (16%) | 26,30,33 | 2.51 | 5 (19%) |
| 23 | PSU | 2L | 56 | 23 | 18,21,22 | 2.60 | 5 (27%) | 22,30,33 | 1.68 | 4 (18%) |
| 22 | MIA | 1K | 37 | 22 | 24,31,32 | 2.35 | 5 (20%) | 26,44,47 | 2.31 | 6 (23%) |
| 22 | PSU | 1K | 39 | 22 | 18,21,22 | 2.23 | 5 (27%) | 22,30,33 | 1.66 | 4 (18%) |
| 23 | OMC | 2L | 33 | 23 | 19,22,23 | 1.79 | 3 (15%) | 26,31,34 | 1.17 | 3 (11%) |
| 22 | PSU | 1K | 32 | 22 | 18,21,22 | 2.33 | 5 (27%) | 22,30,33 | 1.52 | 4 (18%) |
| 23 | 4SU | 2K | 8 | 23 | 18,21,22 | 1.87 | 3 (16%) | 26,30,33 | 2.90 | 6 (23%) |
| 23 | 7MG | 2K | 47 | 23 | 22,26,27 | 3.22 | 6 (27%) | 29,39,42 | 2.72 | 12 (41%) |
| 22 | PSU | 1L | 39 | 22 | 18,21,22 | 2.56 | 5 (27%) | 22,30,33 | 1.32 | 3 (13%) |

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

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|-------|---------|------------|---------|
| 23 | 5MU | 2K | 55 | 56,23 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | 7MG | 2L | 47 | 23 | - | 3/7/37/38 | 0/3/3/3 |
| 22 | PSU | 1L | 32 | 22 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | PSU | 2K | 56 | 23 | - | 1/7/25/26 | 0/2/2/2 |
| 23 | OMC | 2K | 33 | 23 | - | 0/9/27/28 | 0/2/2/2 |
| 22 | MIA | 1L | 37 | 22 | - | 7/11/33/34 | 0/3/3/3 |
| 23 | 5MU | 2L | 55 | 23 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | 4SU | 2L | 8 | 23 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | PSU | 2L | 56 | 23 | - | 0/7/25/26 | 0/2/2/2 |
| 22 | MIA | 1K | 37 | 22 | - | 5/11/33/34 | 0/3/3/3 |
| 22 | PSU | 1K | 39 | 22 | - | 2/7/25/26 | 0/2/2/2 |
| 23 | OMC | 2L | 33 | 23 | - | 1/9/27/28 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|---------|-----------|---------|
| 22 | PSU | 1K | 32 | 22 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | 4SU | 2K | 8 | 23 | - | 0/7/25/26 | 0/2/2/2 |
| 23 | 7MG | 2K | 47 | 23 | - | 1/7/37/38 | 0/3/3/3 |
| 22 | PSU | 1L | 39 | 22 | - | 0/7/25/26 | 0/2/2/2 |

The worst 5 of 71 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 23 | 2K | 55 | 5MU | C2-N1 | 12.95 | 1.59 | 1.38 |
| 23 | 2L | 55 | 5MU | C2-N1 | 12.62 | 1.58 | 1.38 |
| 23 | 2K | 47 | 7MG | C4-N9 | -9.20 | 1.27 | 1.37 |
| 23 | 2L | 47 | 7MG | C5-N7 | 9.15 | 1.46 | 1.35 |
| 22 | 1K | 37 | MIA | C13-C14 | 8.69 | 1.57 | 1.32 |

The worst 5 of 96 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 22 | 1L | 37 | MIA | C11-S10-C2 | 11.25 | 110.67 | 102.27 |
| 23 | 2K | 55 | 5MU | C5-C4-N3 | 10.82 | 124.55 | 115.31 |
| 23 | 2L | 55 | 5MU | C5-C4-N3 | 10.67 | 124.42 | 115.31 |
| 23 | 2K | 8 | 4SU | C4-N3-C2 | -9.53 | 118.09 | 127.34 |
| 22 | 1L | 37 | MIA | C12-C13-C14 | -9.29 | 109.05 | 127.14 |

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 22 | 1K | 37 | MIA | C5-C6-N6-C12 |
| 22 | 1K | 37 | MIA | N1-C2-S10-C11 |
| 22 | 1K | 37 | MIA | N3-C2-S10-C11 |
| 22 | 1K | 37 | MIA | C12-C13-C14-C16 |
| 22 | 1L | 37 | MIA | C5-C6-N6-C12 |

There are no ring outliers.

11 monomers are involved in 23 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 23 | 2K | 55 | 5MU | 2 | 0 |
| 23 | 2L | 47 | 7MG | 4 | 0 |
| 23 | 2K | 56 | PSU | 1 | 0 |
| 23 | 2L | 55 | 5MU | 2 | 0 |

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| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 23 | 2L | 8 | 4SU | 1 | 0 |
| 23 | 2L | 56 | PSU | 1 | 0 |
| 22 | 1K | 37 | MIA | 2 | 0 |
| 23 | 2L | 33 | OMC | 3 | 0 |
| 23 | 2K | 8 | 4SU | 2 | 0 |
| 23 | 2K | 47 | 7MG | 4 | 0 |
| 22 | 1L | 39 | PSU | 1 | 0 |

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1245 ligands modelled in this entry, 1245 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [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 |
|-----|-------|------------------|
| 1 | 13 | 1 |

All chain breaks are listed below:

| Model | Chain | Residue-1 | Atom-1 | Residue-2 | Atom-2 | Distance (Å) |
|-------|-------|-----------|--------|-----------|--------|--------------|
| 1 | 13 | 1530:G | O3' | 1531:A | P | 3.03 |

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

In the following table, the column labelled '#RSRZ > 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q < 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|--|-----------------------|-------|
| 1 | 13 | 1498/1522 (98%) | -0.66 | 0 100 100 | 61, 110, 194, 290 | 0 |
| 1 | 1G | 1497/1522 (98%) | -0.67 | 2 (0%) 95 95 | 73, 129, 204, 306 | 0 |
| 2 | 12 | 237/256 (92%) | 0.59 | 28 (11%) 4 2 | 151, 185, 205, 218 | 0 |
| 2 | 1E | 237/256 (92%) | 0.42 | 25 (10%) 6 3 | 119, 155, 183, 193 | 0 |
| 3 | 22 | 206/239 (86%) | 1.05 | 39 (18%) 1 0 | 149, 166, 190, 202 | 0 |
| 3 | 2E | 205/239 (85%) | 0.48 | 17 (8%) 11 6 | 98, 122, 159, 171 | 0 |
| 4 | 32 | 208/209 (99%) | 0.60 | 16 (7%) 13 6 | 107, 128, 153, 160 | 0 |
| 4 | 3E | 208/209 (99%) | 0.50 | 18 (8%) 10 5 | 92, 122, 146, 155 | 0 |
| 5 | 42 | 151/162 (93%) | 0.67 | 14 (9%) 8 5 | 118, 139, 159, 195 | 0 |
| 5 | 4E | 151/162 (93%) | 0.54 | 14 (9%) 8 5 | 88, 109, 135, 174 | 0 |
| 6 | 52 | 101/101 (100%) | 0.53 | 10 (9%) 7 4 | 92, 115, 133, 160 | 0 |
| 6 | 5E | 101/101 (100%) | 0.40 | 3 (2%) 50 33 | 87, 110, 132, 154 | 0 |
| 7 | 62 | 155/156 (99%) | 0.44 | 19 (12%) 4 2 | 124, 143, 178, 199 | 0 |
| 7 | 6E | 155/156 (99%) | 0.08 | 14 (9%) 9 5 | 110, 129, 160, 179 | 0 |
| 8 | 72 | 138/138 (100%) | 0.30 | 7 (5%) 28 15 | 115, 145, 160, 163 | 0 |
| 8 | 7E | 138/138 (100%) | 0.47 | 10 (7%) 15 8 | 93, 118, 128, 142 | 0 |
| 9 | 82 | 127/128 (99%) | 0.55 | 6 (4%) 31 17 | 123, 171, 189, 197 | 0 |
| 9 | 8E | 127/128 (99%) | -0.07 | 0 100 100 | 94, 149, 170, 180 | 0 |
| 10 | 1A | 99/105 (94%) | 0.60 | 10 (10%) 7 3 | 139, 174, 192, 197 | 0 |
| 10 | 1I | 99/105 (94%) | 0.69 | 10 (10%) 7 3 | 90, 148, 181, 187 | 0 |
| 11 | 2A | 119/129 (92%) | 1.74 | 45 (37%) 0 0 | 94, 125, 152, 183 | 0 |
| 11 | 2I | 119/129 (92%) | 1.36 | 26 (21%) 0 0 | 77, 113, 153, 182 | 0 |
| 12 | 3A | 125/132 (94%) | 1.17 | 30 (24%) 0 0 | 91, 114, 144, 175 | 0 |
| 12 | 3I | 125/132 (94%) | 0.41 | 6 (4%) 30 17 | 74, 84, 117, 179 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 13 | 4A | 117/126 (92%) | 0.41 | 12 (10%) 6 3 | 127, 171, 192, 200 | 0 |
| 13 | 4I | 118/126 (93%) | 0.05 | 3 (2%) 57 42 | 86, 127, 148, 156 | 0 |
| 14 | 5A | 58/61 (95%) | 0.90 | 12 (20%) 1 0 | 152, 166, 179, 184 | 0 |
| 14 | 5I | 60/61 (98%) | -0.21 | 2 (3%) 46 29 | 92, 113, 128, 135 | 0 |
| 15 | 6A | 88/89 (98%) | 0.08 | 1 (1%) 80 70 | 96, 125, 143, 148 | 0 |
| 15 | 6I | 88/89 (98%) | 0.36 | 5 (5%) 23 12 | 82, 104, 122, 129 | 0 |
| 16 | 7A | 84/88 (95%) | 0.11 | 2 (2%) 59 43 | 100, 117, 142, 174 | 0 |
| 16 | 7I | 84/88 (95%) | -0.41 | 0 100 100 | 110, 126, 158, 174 | 0 |
| 17 | 8A | 100/105 (95%) | 0.08 | 2 (2%) 65 50 | 105, 122, 138, 160 | 0 |
| 17 | 8I | 100/105 (95%) | 0.39 | 5 (5%) 28 15 | 97, 114, 125, 129 | 0 |
| 18 | 9A | 72/88 (81%) | 1.55 | 21 (29%) 0 0 | 106, 128, 167, 178 | 0 |
| 18 | 9I | 72/88 (81%) | 1.18 | 18 (25%) 0 0 | 90, 113, 143, 175 | 0 |
| 19 | AA | 78/93 (83%) | 0.65 | 11 (14%) 2 1 | 160, 189, 203, 207 | 0 |
| 19 | AI | 81/93 (87%) | 0.56 | 12 (14%) 2 1 | 103, 127, 156, 165 | 0 |
| 20 | BA | 99/106 (93%) | 0.09 | 3 (3%) 50 33 | 97, 118, 150, 162 | 0 |
| 20 | BI | 99/106 (93%) | -0.45 | 0 100 100 | 115, 131, 165, 172 | 0 |
| 21 | 1B | 25/27 (92%) | 0.16 | 0 100 100 | 125, 153, 169, 189 | 0 |
| 21 | 1F | 25/27 (92%) | -0.74 | 0 100 100 | 100, 112, 127, 154 | 0 |
| 22 | 1K | 73/76 (96%) | 2.25 | 30 (41%) 0 0 | 97, 221, 259, 264 | 0 |
| 22 | 1L | 73/76 (96%) | 3.30 | 38 (52%) 0 0 | 134, 254, 277, 285 | 0 |
| 23 | 2K | 72/77 (93%) | -0.41 | 1 (1%) 75 63 | 73, 95, 128, 139 | 0 |
| 23 | 2L | 72/77 (93%) | -0.26 | 1 (1%) 75 63 | 87, 121, 153, 165 | 0 |
| 24 | 3K | 76/76 (100%) | -0.07 | 4 (5%) 26 13 | 77, 253, 279, 282 | 0 |
| 24 | 3L | 76/76 (100%) | 0.43 | 6 (7%) 12 6 | 89, 259, 278, 280 | 0 |
| 25 | 4K | 14/30 (46%) | -0.25 | 0 100 100 | 76, 107, 151, 155 | 0 |
| 25 | 4L | 6/30 (20%) | -0.25 | 0 100 100 | 100, 108, 158, 160 | 0 |
| 26 | 14 | 2909/2917 (99%) | -0.33 | 38 (1%) 77 66 | 53, 91, 249, 335 | 0 |
| 26 | 1H | 2912/2917 (99%) | -0.34 | 30 (1%) 82 73 | 40, 77, 231, 309 | 0 |
| 27 | 16 | 122/122 (100%) | -0.71 | 1 (0%) 86 78 | 69, 98, 122, 202 | 0 |
| 27 | 1J | 122/122 (100%) | -0.66 | 1 (0%) 86 78 | 89, 133, 162, 212 | 0 |
| 28 | 11 | 273/276 (98%) | 0.13 | 1 (0%) 92 89 | 43, 66, 84, 98 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 28 | 19 | 273/276 (98%) | 0.08 | 1 (0%) 92 89 | 54, 80, 97, 112 | 0 |
| 29 | 21 | 205/206 (99%) | 0.57 | 24 (11%) 4 2 | 49, 94, 143, 161 | 0 |
| 29 | 29 | 205/206 (99%) | 0.65 | 25 (12%) 4 2 | 64, 99, 146, 173 | 0 |
| 30 | 31 | 202/210 (96%) | -0.10 | 2 (0%) 82 73 | 47, 80, 119, 141 | 0 |
| 30 | 39 | 208/210 (99%) | 0.66 | 25 (12%) 4 2 | 60, 109, 170, 198 | 0 |
| 31 | 41 | 181/182 (99%) | 0.72 | 20 (11%) 5 3 | 83, 109, 145, 156 | 0 |
| 31 | 49 | 181/182 (99%) | 1.91 | 76 (41%) 0 0 | 127, 154, 181, 199 | 0 |
| 32 | 51 | 174/180 (96%) | 0.54 | 13 (7%) 14 7 | 85, 109, 129, 142 | 0 |
| 32 | 59 | 170/180 (94%) | 1.31 | 46 (27%) 0 0 | 155, 205, 228, 248 | 0 |
| 33 | 61 | 146/148 (98%) | 0.43 | 12 (8%) 11 6 | 80, 139, 157, 163 | 0 |
| 33 | 69 | 146/148 (98%) | 0.81 | 25 (17%) 1 1 | 88, 135, 157, 168 | 0 |
| 34 | 15 | 138/140 (98%) | 0.51 | 8 (5%) 23 12 | 85, 116, 149, 165 | 0 |
| 34 | 58 | 138/140 (98%) | 0.18 | 6 (4%) 35 21 | 69, 95, 137, 156 | 0 |
| 35 | 25 | 122/122 (100%) | 0.52 | 3 (2%) 57 42 | 73, 93, 108, 124 | 0 |
| 35 | 68 | 122/122 (100%) | 0.33 | 2 (1%) 72 59 | 61, 80, 99, 112 | 0 |
| 36 | 35 | 150/150 (100%) | 0.90 | 29 (19%) 1 0 | 62, 113, 145, 183 | 0 |
| 36 | 78 | 150/150 (100%) | 0.28 | 10 (6%) 17 9 | 49, 85, 116, 166 | 0 |
| 37 | 45 | 141/141 (100%) | 0.66 | 18 (12%) 3 2 | 81, 111, 145, 155 | 0 |
| 37 | 88 | 138/141 (97%) | 0.11 | 3 (2%) 62 47 | 56, 83, 107, 138 | 0 |
| 38 | 55 | 117/118 (99%) | 0.09 | 3 (2%) 56 40 | 64, 84, 99, 117 | 0 |
| 38 | 98 | 118/118 (100%) | 0.28 | 2 (1%) 70 57 | 63, 87, 109, 120 | 0 |
| 39 | 65 | 111/112 (99%) | 0.65 | 14 (12%) 3 2 | 98, 128, 148, 162 | 0 |
| 39 | A8 | 111/112 (99%) | 0.27 | 5 (4%) 33 19 | 75, 94, 123, 133 | 0 |
| 40 | 75 | 137/146 (93%) | 0.13 | 4 (2%) 51 35 | 83, 101, 161, 195 | 0 |
| 40 | B8 | 137/146 (93%) | -0.20 | 2 (1%) 73 61 | 76, 97, 154, 179 | 0 |
| 41 | 85 | 117/118 (99%) | 0.45 | 7 (5%) 21 11 | 73, 104, 150, 174 | 0 |
| 41 | C8 | 117/118 (99%) | 0.04 | 2 (1%) 70 57 | 56, 82, 115, 134 | 0 |
| 42 | 95 | 101/101 (100%) | 0.94 | 18 (17%) 1 1 | 71, 134, 155, 175 | 0 |
| 42 | D8 | 101/101 (100%) | 0.62 | 13 (12%) 3 2 | 61, 111, 141, 155 | 0 |
| 43 | A5 | 113/113 (100%) | 0.10 | 1 (0%) 84 75 | 66, 80, 117, 174 | 0 |
| 43 | E8 | 113/113 (100%) | 0.00 | 4 (3%) 44 27 | 58, 76, 112, 159 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-------------------|--------|-----------------|-----------------------|-------|
| 44 | B5 | 93/96 (96%) | 0.28 | 5 (5%) 25 13 | 71, 89, 113, 121 | 0 |
| 44 | F8 | 94/96 (97%) | 0.23 | 5 (5%) 26 13 | 56, 73, 97, 117 | 0 |
| 45 | C5 | 104/110 (94%) | 1.18 | 20 (19%) 1 0 | 89, 122, 160, 166 | 0 |
| 45 | G8 | 104/110 (94%) | 0.66 | 5 (4%) 30 17 | 75, 98, 142, 149 | 0 |
| 46 | D5 | 179/206 (86%) | 2.07 | 78 (43%) 0 0 | 124, 161, 240, 246 | 0 |
| 46 | H8 | 175/206 (84%) | 0.47 | 15 (8%) 10 5 | 86, 128, 212, 218 | 0 |
| 47 | E5 | 77/85 (90%) | 0.75 | 6 (7%) 13 6 | 77, 96, 116, 162 | 0 |
| 47 | I8 | 80/85 (94%) | 0.05 | 2 (2%) 57 42 | 58, 77, 114, 117 | 0 |
| 48 | F5 | 97/98 (98%) | 0.97 | 13 (13%) 3 2 | 63, 89, 143, 161 | 0 |
| 48 | J8 | 97/98 (98%) | 0.55 | 10 (10%) 6 3 | 54, 77, 128, 161 | 0 |
| 49 | G5 | 66/72 (91%) | 0.50 | 3 (4%) 33 19 | 89, 112, 130, 148 | 0 |
| 49 | K8 | 67/72 (93%) | -0.00 | 1 (1%) 73 61 | 65, 81, 99, 132 | 0 |
| 50 | H5 | 59/60 (98%) | 0.82 | 5 (8%) 10 5 | 80, 109, 155, 173 | 0 |
| 50 | L8 | 57/60 (95%) | 0.59 | 3 (5%) 26 13 | 64, 83, 112, 120 | 0 |
| 51 | I5 | 63/71 (88%) | 3.80 | 45 (71%) 0 0 | 167, 206, 219, 221 | 0 |
| 51 | M8 | 66/71 (92%) | 1.61 | 22 (33%) 0 0 | 114, 161, 192, 200 | 0 |
| 52 | J5 | 59/60 (98%) | 0.17 | 3 (5%) 28 15 | 66, 91, 159, 212 | 0 |
| 52 | N8 | 58/60 (96%) | 0.70 | 7 (12%) 4 2 | 53, 100, 178, 183 | 0 |
| 53 | K5 | 45/54 (83%) | 6.24 | 42 (93%) 0 0 | 141, 181, 194, 201 | 0 |
| 53 | O8 | 45/54 (83%) | 4.71 | 42 (93%) 0 0 | 117, 148, 168, 171 | 0 |
| 54 | L5 | 46/49 (93%) | -0.18 | 0 100 100 | 53, 63, 75, 86 | 0 |
| 54 | P8 | 48/49 (97%) | -0.26 | 0 100 100 | 46, 51, 88, 112 | 0 |
| 55 | M5 | 60/65 (92%) | 0.30 | 2 (3%) 46 29 | 73, 86, 108, 133 | 0 |
| 55 | Q8 | 60/65 (92%) | 0.13 | 1 (1%) 70 57 | 61, 73, 104, 119 | 0 |
| All | All | 21056/21694 (97%) | 0.13 | 1387 (6%) 18 10 | 40, 109, 201, 335 | 0 |

The worst 5 of 1387 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|------|------|------|
| 26 | 14 | 2901 | C | 18.3 |
| 53 | K5 | 13 | CYS | 17.4 |
| 53 | K5 | 51 | GLU | 15.2 |
| 52 | N8 | 60 | VAL | 14.4 |
| 22 | 1L | 3 | C | 14.3 |

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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 | 39 | 20/21 | 0.86 | 0.20 | 113,140,153,154 | 0 |
| 23 | 4SU | 2L | 8 | 20/21 | 0.88 | 0.20 | 124,129,135,138 | 0 |
| 23 | PSU | 2L | 56 | 20/21 | 0.90 | 0.11 | 121,128,134,135 | 0 |
| 22 | PSU | 1L | 32 | 20/21 | 0.91 | 0.16 | 139,147,158,158 | 0 |
| 22 | PSU | 1K | 32 | 20/21 | 0.92 | 0.12 | 112,119,129,131 | 0 |
| 23 | PSU | 2K | 56 | 20/21 | 0.93 | 0.10 | 97,104,114,116 | 0 |
| 22 | PSU | 1K | 39 | 20/21 | 0.93 | 0.15 | 90,106,111,114 | 0 |
| 22 | MIA | 1L | 37 | 29/30 | 0.93 | 0.16 | 121,132,138,150 | 0 |
| 22 | MIA | 1K | 37 | 29/30 | 0.94 | 0.18 | 88,98,114,119 | 0 |
| 23 | 4SU | 2K | 8 | 20/21 | 0.94 | 0.15 | 86,95,103,110 | 0 |
| 23 | 7MG | 2K | 47 | 24/25 | 0.95 | 0.11 | 97,107,122,130 | 0 |
| 23 | OMC | 2L | 33 | 21/22 | 0.95 | 0.14 | 105,111,114,116 | 0 |
| 23 | 5MU | 2L | 55 | 21/22 | 0.95 | 0.11 | 126,131,137,141 | 0 |
| 23 | 5MU | 2K | 55 | 21/22 | 0.95 | 0.12 | 99,108,119,128 | 0 |
| 23 | OMC | 2K | 33 | 21/22 | 0.97 | 0.16 | 79,84,93,100 | 0 |
| 23 | 7MG | 2L | 47 | 24/25 | 0.97 | 0.11 | 130,140,145,148 | 0 |

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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 | 6A | 101 | 1/1 | 0.15 | 0.33 | 126,126,126,126 | 0 |
| 56 | MG | 14 | 3218 | 1/1 | 0.17 | 0.51 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1704 | 1/1 | 0.30 | 1.41 | 95,95,95,95 | 0 |
| 56 | MG | 13 | 1702 | 1/1 | 0.36 | 0.14 | 112,112,112,112 | 0 |
| 56 | MG | 13 | 1616 | 1/1 | 0.36 | 0.36 | 98,98,98,98 | 0 |
| 56 | MG | 75 | 201 | 1/1 | 0.37 | 0.34 | 108,108,108,108 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1G | 1669 | 1/1 | 0.40 | 0.65 | 103,103,103,103 | 0 |
| 56 | MG | 1H | 3327 | 1/1 | 0.40 | 0.44 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3279 | 1/1 | 0.41 | 0.48 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1732 | 1/1 | 0.43 | 0.11 | 132,132,132,132 | 0 |
| 56 | MG | 14 | 3197 | 1/1 | 0.43 | 0.42 | 94,94,94,94 | 0 |
| 56 | MG | 1G | 1641 | 1/1 | 0.44 | 0.17 | 121,121,121,121 | 0 |
| 56 | MG | 1H | 3182 | 1/1 | 0.44 | 0.67 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3324 | 1/1 | 0.46 | 0.17 | 93,93,93,93 | 0 |
| 56 | MG | 13 | 1680 | 1/1 | 0.48 | 0.81 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3059 | 1/1 | 0.49 | 0.71 | 63,63,63,63 | 0 |
| 56 | MG | 1G | 1624 | 1/1 | 0.49 | 0.55 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3294 | 1/1 | 0.51 | 0.24 | 122,122,122,122 | 0 |
| 56 | MG | 1H | 3127 | 1/1 | 0.52 | 0.43 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3328 | 1/1 | 0.52 | 0.34 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3219 | 1/1 | 0.52 | 1.15 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3290 | 1/1 | 0.52 | 0.61 | 94,94,94,94 | 0 |
| 56 | MG | 29 | 302 | 1/1 | 0.53 | 0.51 | 85,85,85,85 | 0 |
| 56 | MG | 13 | 1708 | 1/1 | 0.53 | 0.14 | 116,116,116,116 | 0 |
| 56 | MG | 14 | 3240 | 1/1 | 0.54 | 1.67 | 103,103,103,103 | 0 |
| 56 | MG | 14 | 3255 | 1/1 | 0.54 | 0.67 | 94,94,94,94 | 0 |
| 56 | MG | 2L | 102 | 1/1 | 0.54 | 0.74 | 103,103,103,103 | 0 |
| 56 | MG | 13 | 1710 | 1/1 | 0.54 | 0.13 | 125,125,125,125 | 0 |
| 56 | MG | 14 | 3114 | 1/1 | 0.55 | 0.48 | 72,72,72,72 | 0 |
| 56 | MG | 13 | 1705 | 1/1 | 0.56 | 0.24 | 138,138,138,138 | 0 |
| 56 | MG | 1H | 3332 | 1/1 | 0.56 | 0.34 | 138,138,138,138 | 0 |
| 56 | MG | 1G | 1620 | 1/1 | 0.56 | 0.36 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3235 | 1/1 | 0.56 | 0.25 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3223 | 1/1 | 0.57 | 0.25 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3258 | 1/1 | 0.57 | 0.28 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1685 | 1/1 | 0.58 | 0.32 | 123,123,123,123 | 0 |
| 56 | MG | 13 | 1619 | 1/1 | 0.58 | 0.22 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1685 | 1/1 | 0.59 | 0.17 | 139,139,139,139 | 0 |
| 56 | MG | 14 | 3109 | 1/1 | 0.59 | 0.84 | 85,85,85,85 | 0 |
| 56 | MG | 13 | 1648 | 1/1 | 0.60 | 0.47 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3297 | 1/1 | 0.60 | 0.21 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3249 | 1/1 | 0.60 | 0.32 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3300 | 1/1 | 0.60 | 0.26 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1674 | 1/1 | 0.60 | 0.10 | 94,94,94,94 | 0 |
| 56 | MG | 1G | 1612 | 1/1 | 0.60 | 0.18 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3230 | 1/1 | 0.60 | 0.45 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3037 | 1/1 | 0.61 | 0.38 | 103,103,103,103 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 16 | 209 | 1/1 | 0.62 | 0.26 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1678 | 1/1 | 0.62 | 0.22 | 114,114,114,114 | 0 |
| 56 | MG | 14 | 3096 | 1/1 | 0.62 | 0.66 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1651 | 1/1 | 0.62 | 0.14 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3312 | 1/1 | 0.62 | 0.26 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3285 | 1/1 | 0.63 | 0.50 | 89,89,89,89 | 0 |
| 56 | MG | 1G | 1619 | 1/1 | 0.64 | 0.21 | 130,130,130,130 | 0 |
| 56 | MG | 1G | 1670 | 1/1 | 0.65 | 0.43 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3119 | 1/1 | 0.65 | 0.54 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3267 | 1/1 | 0.65 | 0.25 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3333 | 1/1 | 0.65 | 0.60 | 99,99,99,99 | 0 |
| 57 | ZN | C5 | 202 | 1/1 | 0.65 | 0.12 | 181,181,181,181 | 0 |
| 56 | MG | 13 | 1668 | 1/1 | 0.66 | 0.26 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3204 | 1/1 | 0.66 | 0.26 | 126,126,126,126 | 0 |
| 56 | MG | 1H | 3291 | 1/1 | 0.66 | 0.36 | 71,71,71,71 | 0 |
| 57 | ZN | G8 | 201 | 1/1 | 0.66 | 0.46 | 188,188,188,188 | 0 |
| 56 | MG | 13 | 1701 | 1/1 | 0.66 | 0.42 | 103,103,103,103 | 0 |
| 56 | MG | 13 | 1695 | 1/1 | 0.67 | 0.12 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1677 | 1/1 | 0.67 | 0.45 | 106,106,106,106 | 0 |
| 56 | MG | 13 | 1696 | 1/1 | 0.67 | 0.23 | 137,137,137,137 | 0 |
| 56 | MG | 1H | 3493 | 1/1 | 0.67 | 0.09 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3184 | 1/1 | 0.67 | 0.48 | 94,94,94,94 | 0 |
| 56 | MG | 1G | 1655 | 1/1 | 0.67 | 0.22 | 124,124,124,124 | 0 |
| 56 | MG | 1H | 3296 | 1/1 | 0.67 | 0.68 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3120 | 1/1 | 0.67 | 0.18 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3192 | 1/1 | 0.68 | 0.58 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3148 | 1/1 | 0.68 | 0.38 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3304 | 1/1 | 0.68 | 0.28 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3216 | 1/1 | 0.68 | 0.58 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1743 | 1/1 | 0.68 | 0.05 | 156,156,156,156 | 0 |
| 56 | MG | 1G | 1656 | 1/1 | 0.68 | 0.37 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3473 | 1/1 | 0.68 | 0.11 | 92,92,92,92 | 0 |
| 56 | MG | 3E | 302 | 1/1 | 0.69 | 0.08 | 125,125,125,125 | 0 |
| 56 | MG | 1H | 3377 | 1/1 | 0.69 | 0.06 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1671 | 1/1 | 0.69 | 0.27 | 110,110,110,110 | 0 |
| 56 | MG | 14 | 3199 | 1/1 | 0.69 | 1.10 | 84,84,84,84 | 0 |
| 56 | MG | 13 | 1689 | 1/1 | 0.69 | 0.38 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3225 | 1/1 | 0.69 | 0.34 | 79,79,79,79 | 0 |
| 56 | MG | 78 | 202 | 1/1 | 0.69 | 0.32 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1654 | 1/1 | 0.69 | 0.56 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3203 | 1/1 | 0.70 | 0.29 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3259 | 1/1 | 0.70 | 0.54 | 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 | 3106 | 1/1 | 0.70 | 0.20 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3292 | 1/1 | 0.70 | 0.72 | 79,79,79,79 | 0 |
| 56 | MG | 1G | 1684 | 1/1 | 0.70 | 0.15 | 113,113,113,113 | 0 |
| 56 | MG | C5 | 201 | 1/1 | 0.70 | 0.21 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3227 | 1/1 | 0.70 | 0.55 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3282 | 1/1 | 0.70 | 0.46 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3067 | 1/1 | 0.71 | 0.69 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3082 | 1/1 | 0.71 | 0.37 | 97,97,97,97 | 0 |
| 56 | MG | 1G | 1636 | 1/1 | 0.71 | 0.31 | 94,94,94,94 | 0 |
| 56 | MG | AI | 101 | 1/1 | 0.71 | 0.15 | 119,119,119,119 | 0 |
| 56 | MG | 13 | 1646 | 1/1 | 0.71 | 0.26 | 100,100,100,100 | 0 |
| 56 | MG | 14 | 3257 | 1/1 | 0.71 | 0.52 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1694 | 1/1 | 0.71 | 0.50 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3318 | 1/1 | 0.71 | 0.18 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1636 | 1/1 | 0.71 | 0.14 | 93,93,93,93 | 0 |
| 56 | MG | 1G | 1622 | 1/1 | 0.71 | 0.34 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3036 | 1/1 | 0.71 | 0.59 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1709 | 1/1 | 0.71 | 0.27 | 127,127,127,127 | 0 |
| 56 | MG | 1G | 1648 | 1/1 | 0.72 | 0.21 | 115,115,115,115 | 0 |
| 56 | MG | 1H | 3431 | 1/1 | 0.72 | 0.07 | 117,117,117,117 | 0 |
| 56 | MG | 13 | 1674 | 1/1 | 0.72 | 0.43 | 95,95,95,95 | 0 |
| 56 | MG | 1G | 1682 | 1/1 | 0.72 | 0.66 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3019 | 1/1 | 0.72 | 0.17 | 71,71,71,71 | 0 |
| 56 | MG | 3E | 301 | 1/1 | 0.72 | 0.19 | 128,128,128,128 | 0 |
| 56 | MG | 1H | 3244 | 1/1 | 0.72 | 0.22 | 89,89,89,89 | 0 |
| 56 | MG | 13 | 1677 | 1/1 | 0.72 | 0.34 | 109,109,109,109 | 0 |
| 56 | MG | 14 | 3245 | 1/1 | 0.72 | 0.40 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3128 | 1/1 | 0.73 | 0.83 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3181 | 1/1 | 0.73 | 0.96 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3189 | 1/1 | 0.73 | 0.86 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3264 | 1/1 | 0.73 | 0.30 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3183 | 1/1 | 0.73 | 0.21 | 76,76,76,76 | 0 |
| 56 | MG | 13 | 1681 | 1/1 | 0.73 | 0.57 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3328 | 1/1 | 0.73 | 0.15 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3361 | 1/1 | 0.73 | 0.07 | 115,115,115,115 | 0 |
| 56 | MG | 1J | 206 | 1/1 | 0.73 | 0.28 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3201 | 1/1 | 0.73 | 0.52 | 86,86,86,86 | 0 |
| 56 | MG | 4A | 201 | 1/1 | 0.73 | 0.40 | 115,115,115,115 | 0 |
| 56 | MG | 13 | 1712 | 1/1 | 0.73 | 0.29 | 114,114,114,114 | 0 |
| 56 | MG | 1H | 3226 | 1/1 | 0.73 | 0.51 | 97,97,97,97 | 0 |
| 56 | MG | 11 | 304 | 1/1 | 0.73 | 0.70 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3489 | 1/1 | 0.74 | 0.14 | 86,86,86,86 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1G | 1680 | 1/1 | 0.74 | 1.13 | 107,107,107,107 | 0 |
| 56 | MG | 14 | 3193 | 1/1 | 0.74 | 0.44 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3252 | 1/1 | 0.74 | 0.53 | 117,117,117,117 | 0 |
| 56 | MG | 14 | 3253 | 1/1 | 0.74 | 0.47 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3248 | 1/1 | 0.74 | 0.15 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3286 | 1/1 | 0.74 | 0.70 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3397 | 1/1 | 0.74 | 0.10 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3176 | 1/1 | 0.74 | 0.65 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3336 | 1/1 | 0.74 | 0.09 | 123,123,123,123 | 0 |
| 56 | MG | 14 | 3208 | 1/1 | 0.74 | 0.37 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3371 | 1/1 | 0.74 | 0.08 | 108,108,108,108 | 0 |
| 56 | MG | 14 | 3215 | 1/1 | 0.74 | 0.43 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3217 | 1/1 | 0.74 | 0.30 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1639 | 1/1 | 0.74 | 0.39 | 99,99,99,99 | 0 |
| 56 | MG | J8 | 102 | 1/1 | 0.74 | 0.31 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3124 | 1/1 | 0.74 | 0.32 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3239 | 1/1 | 0.74 | 0.26 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3095 | 1/1 | 0.75 | 0.32 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1628 | 1/1 | 0.75 | 0.47 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3205 | 1/1 | 0.75 | 0.42 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3148 | 1/1 | 0.75 | 0.46 | 75,75,75,75 | 0 |
| 56 | MG | 13 | 1610 | 1/1 | 0.75 | 0.40 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3186 | 1/1 | 0.75 | 0.50 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3198 | 1/1 | 0.75 | 0.32 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3255 | 1/1 | 0.75 | 0.33 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3196 | 1/1 | 0.75 | 0.27 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3228 | 1/1 | 0.75 | 0.06 | 192,192,192,192 | 0 |
| 56 | MG | 1H | 3335 | 1/1 | 0.76 | 0.41 | 97,97,97,97 | 0 |
| 56 | MG | 1G | 1653 | 1/1 | 0.76 | 0.32 | 91,91,91,91 | 0 |
| 56 | MG | 16 | 203 | 1/1 | 0.76 | 0.10 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3154 | 1/1 | 0.76 | 0.14 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3171 | 1/1 | 0.76 | 0.90 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3268 | 1/1 | 0.76 | 1.00 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3067 | 1/1 | 0.76 | 0.41 | 74,74,74,74 | 0 |
| 56 | MG | 1G | 1658 | 1/1 | 0.76 | 0.32 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3028 | 1/1 | 0.76 | 0.36 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3117 | 1/1 | 0.76 | 0.44 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3110 | 1/1 | 0.77 | 0.51 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3113 | 1/1 | 0.77 | 0.62 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3179 | 1/1 | 0.77 | 0.27 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3116 | 1/1 | 0.77 | 0.18 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3275 | 1/1 | 0.77 | 0.23 | 94,94,94,94 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 16 | 205 | 1/1 | 0.77 | 0.45 | 88,88,88,88 | 0 |
| 56 | MG | 16 | 206 | 1/1 | 0.77 | 0.29 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3360 | 1/1 | 0.77 | 0.28 | 112,112,112,112 | 0 |
| 56 | MG | 1G | 1668 | 1/1 | 0.77 | 0.23 | 116,116,116,116 | 0 |
| 56 | MG | 13 | 1699 | 1/1 | 0.77 | 0.24 | 98,98,98,98 | 0 |
| 56 | MG | 13 | 1665 | 1/1 | 0.77 | 0.40 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3047 | 1/1 | 0.77 | 0.25 | 71,71,71,71 | 0 |
| 56 | MG | 13 | 1737 | 1/1 | 0.77 | 0.05 | 122,122,122,122 | 0 |
| 56 | MG | 1H | 3287 | 1/1 | 0.77 | 0.17 | 85,85,85,85 | 0 |
| 56 | MG | 1G | 1652 | 1/1 | 0.77 | 0.62 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3491 | 1/1 | 0.77 | 0.05 | 121,121,121,121 | 0 |
| 56 | MG | 1G | 1607 | 1/1 | 0.78 | 0.29 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3243 | 1/1 | 0.78 | 0.62 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3281 | 1/1 | 0.78 | 0.30 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3214 | 1/1 | 0.78 | 0.73 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1688 | 1/1 | 0.78 | 0.15 | 102,102,102,102 | 0 |
| 56 | MG | 13 | 1678 | 1/1 | 0.78 | 0.19 | 110,110,110,110 | 0 |
| 56 | MG | 13 | 1683 | 1/1 | 0.78 | 0.31 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3199 | 1/1 | 0.78 | 0.47 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1623 | 1/1 | 0.78 | 0.42 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3266 | 1/1 | 0.78 | 0.47 | 75,75,75,75 | 0 |
| 56 | MG | 1G | 1640 | 1/1 | 0.78 | 0.20 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3090 | 1/1 | 0.78 | 0.33 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3232 | 1/1 | 0.78 | 0.15 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3269 | 1/1 | 0.78 | 0.40 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3236 | 1/1 | 0.78 | 0.41 | 78,78,78,78 | 0 |
| 56 | MG | P8 | 101 | 1/1 | 0.79 | 0.40 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3247 | 1/1 | 0.79 | 0.38 | 65,65,65,65 | 0 |
| 56 | MG | 13 | 1741 | 1/1 | 0.79 | 0.04 | 138,138,138,138 | 0 |
| 56 | MG | 1H | 3386 | 1/1 | 0.79 | 0.12 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3167 | 1/1 | 0.79 | 0.41 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3252 | 1/1 | 0.79 | 0.38 | 83,83,83,83 | 0 |
| 56 | MG | 13 | 1711 | 1/1 | 0.79 | 0.16 | 109,109,109,109 | 0 |
| 56 | MG | 1H | 3301 | 1/1 | 0.79 | 0.54 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3293 | 1/1 | 0.79 | 0.51 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3307 | 1/1 | 0.79 | 0.46 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3195 | 1/1 | 0.79 | 0.99 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3028 | 1/1 | 0.80 | 0.24 | 77,77,77,77 | 0 |
| 56 | MG | 13 | 1640 | 1/1 | 0.80 | 0.10 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3284 | 1/1 | 0.80 | 0.08 | 190,190,190,190 | 0 |
| 56 | MG | 13 | 1746 | 1/1 | 0.80 | 0.06 | 127,127,127,127 | 0 |
| 56 | MG | 14 | 3334 | 1/1 | 0.80 | 0.09 | 116,116,116,116 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3274 | 1/1 | 0.80 | 0.47 | 87,87,87,87 | 0 |
| 56 | MG | 16 | 207 | 1/1 | 0.80 | 0.36 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3428 | 1/1 | 0.80 | 0.16 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1670 | 1/1 | 0.80 | 0.40 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3289 | 1/1 | 0.80 | 0.45 | 77,77,77,77 | 0 |
| 56 | MG | 1G | 1662 | 1/1 | 0.80 | 0.35 | 100,100,100,100 | 0 |
| 56 | MG | 1G | 1664 | 1/1 | 0.80 | 0.51 | 88,88,88,88 | 0 |
| 56 | MG | 88 | 202 | 1/1 | 0.80 | 0.38 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3203 | 1/1 | 0.80 | 0.92 | 111,111,111,111 | 0 |
| 56 | MG | 1H | 3121 | 1/1 | 0.80 | 0.61 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3243 | 1/1 | 0.81 | 0.87 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3174 | 1/1 | 0.81 | 0.19 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3508 | 1/1 | 0.81 | 0.08 | 96,96,96,96 | 0 |
| 56 | MG | Q8 | 101 | 1/1 | 0.81 | 0.21 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3380 | 1/1 | 0.81 | 0.07 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1682 | 1/1 | 0.81 | 0.50 | 92,92,92,92 | 0 |
| 56 | MG | 2K | 101 | 1/1 | 0.81 | 0.34 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3330 | 1/1 | 0.81 | 0.40 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3331 | 1/1 | 0.81 | 0.73 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3209 | 1/1 | 0.81 | 0.13 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3093 | 1/1 | 0.81 | 0.47 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3175 | 1/1 | 0.81 | 0.12 | 88,88,88,88 | 0 |
| 56 | MG | 13 | 1687 | 1/1 | 0.81 | 0.90 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3367 | 1/1 | 0.81 | 0.17 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3182 | 1/1 | 0.81 | 0.32 | 152,152,152,152 | 0 |
| 56 | MG | 14 | 3188 | 1/1 | 0.81 | 0.24 | 83,83,83,83 | 0 |
| 56 | MG | 13 | 1667 | 1/1 | 0.81 | 0.64 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3190 | 1/1 | 0.81 | 0.44 | 77,77,77,77 | 0 |
| 56 | MG | 85 | 201 | 1/1 | 0.81 | 0.62 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1707 | 1/1 | 0.81 | 0.11 | 104,104,104,104 | 0 |
| 56 | MG | 1G | 1661 | 1/1 | 0.81 | 1.07 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3241 | 1/1 | 0.81 | 0.60 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1627 | 1/1 | 0.82 | 0.74 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3123 | 1/1 | 0.82 | 0.35 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3295 | 1/1 | 0.82 | 0.24 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3132 | 1/1 | 0.82 | 0.26 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3470 | 1/1 | 0.82 | 0.08 | 98,98,98,98 | 0 |
| 56 | MG | 1G | 1665 | 1/1 | 0.82 | 0.59 | 104,104,104,104 | 0 |
| 56 | MG | 1H | 3108 | 1/1 | 0.82 | 0.37 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3202 | 1/1 | 0.82 | 0.22 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3068 | 1/1 | 0.82 | 0.31 | 73,73,73,73 | 0 |
| 56 | MG | 13 | 1742 | 1/1 | 0.82 | 0.07 | 102,102,102,102 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1639 | 1/1 | 0.82 | 0.33 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3214 | 1/1 | 0.82 | 0.26 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3104 | 1/1 | 0.82 | 0.59 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1649 | 1/1 | 0.82 | 0.37 | 79,79,79,79 | 0 |
| 56 | MG | 1G | 1613 | 1/1 | 0.82 | 1.03 | 87,87,87,87 | 0 |
| 56 | MG | 13 | 1679 | 1/1 | 0.82 | 0.18 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3135 | 1/1 | 0.82 | 0.48 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3138 | 1/1 | 0.82 | 0.46 | 69,69,69,69 | 0 |
| 56 | MG | 13 | 1657 | 1/1 | 0.82 | 0.06 | 87,87,87,87 | 0 |
| 56 | MG | 1G | 1630 | 1/1 | 0.83 | 0.62 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1701 | 1/1 | 0.83 | 0.09 | 128,128,128,128 | 0 |
| 56 | MG | 1H | 3118 | 1/1 | 0.83 | 0.34 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3105 | 1/1 | 0.83 | 0.75 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3118 | 1/1 | 0.83 | 0.46 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3499 | 1/1 | 0.83 | 0.12 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3022 | 1/1 | 0.83 | 0.52 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3270 | 1/1 | 0.83 | 0.36 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3404 | 1/1 | 0.83 | 0.09 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3282 | 1/1 | 0.83 | 0.08 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3312 | 1/1 | 0.83 | 0.08 | 97,97,97,97 | 0 |
| 56 | MG | 14 | 3142 | 1/1 | 0.83 | 0.65 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3330 | 1/1 | 0.83 | 0.05 | 104,104,104,104 | 0 |
| 56 | MG | 14 | 3052 | 1/1 | 0.83 | 0.78 | 74,74,74,74 | 0 |
| 56 | MG | 1G | 1673 | 1/1 | 0.83 | 0.38 | 138,138,138,138 | 0 |
| 56 | MG | 14 | 3358 | 1/1 | 0.83 | 0.07 | 117,117,117,117 | 0 |
| 56 | MG | 14 | 3160 | 1/1 | 0.83 | 0.58 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3143 | 1/1 | 0.83 | 0.27 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3082 | 1/1 | 0.83 | 0.53 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3466 | 1/1 | 0.83 | 0.07 | 106,106,106,106 | 0 |
| 56 | MG | 14 | 3385 | 1/1 | 0.83 | 0.23 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3165 | 1/1 | 0.83 | 0.30 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1681 | 1/1 | 0.83 | 0.32 | 106,106,106,106 | 0 |
| 56 | MG | 14 | 3231 | 1/1 | 0.83 | 0.41 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3232 | 1/1 | 0.83 | 0.98 | 109,109,109,109 | 0 |
| 56 | MG | 14 | 3187 | 1/1 | 0.83 | 0.71 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3170 | 1/1 | 0.83 | 0.49 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3218 | 1/1 | 0.83 | 0.40 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1699 | 1/1 | 0.84 | 0.11 | 122,122,122,122 | 0 |
| 56 | MG | 14 | 3212 | 1/1 | 0.84 | 0.41 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1642 | 1/1 | 0.84 | 0.48 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3122 | 1/1 | 0.84 | 0.50 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3216 | 1/1 | 0.84 | 0.55 | 70,70,70,70 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 4I | 302 | 1/1 | 0.84 | 0.20 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3026 | 1/1 | 0.84 | 0.51 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3149 | 1/1 | 0.84 | 0.37 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3226 | 1/1 | 0.84 | 0.36 | 83,83,83,83 | 0 |
| 56 | MG | 98 | 201 | 1/1 | 0.84 | 0.51 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1622 | 1/1 | 0.84 | 0.44 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3122 | 1/1 | 0.84 | 0.30 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3133 | 1/1 | 0.84 | 0.26 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3068 | 1/1 | 0.84 | 0.29 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3130 | 1/1 | 0.84 | 0.39 | 75,75,75,75 | 0 |
| 56 | MG | 1J | 204 | 1/1 | 0.84 | 0.70 | 100,100,100,100 | 0 |
| 56 | MG | 1G | 1659 | 1/1 | 0.84 | 0.32 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3242 | 1/1 | 0.84 | 0.41 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1615 | 1/1 | 0.84 | 0.31 | 103,103,103,103 | 0 |
| 56 | MG | 11 | 302 | 1/1 | 0.84 | 0.26 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3099 | 1/1 | 0.84 | 0.30 | 68,68,68,68 | 0 |
| 56 | MG | 1G | 1697 | 1/1 | 0.84 | 0.10 | 108,108,108,108 | 0 |
| 56 | MG | 14 | 3254 | 1/1 | 0.84 | 0.57 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3123 | 1/1 | 0.85 | 0.67 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3103 | 1/1 | 0.85 | 0.14 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3233 | 1/1 | 0.85 | 1.00 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3083 | 1/1 | 0.85 | 0.31 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3324 | 1/1 | 0.85 | 0.10 | 107,107,107,107 | 0 |
| 56 | MG | 1H | 3263 | 1/1 | 0.85 | 0.40 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3329 | 1/1 | 0.85 | 0.08 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3313 | 1/1 | 0.85 | 0.78 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1749 | 1/1 | 0.85 | 0.07 | 101,101,101,101 | 0 |
| 56 | MG | 1G | 1666 | 1/1 | 0.85 | 0.46 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3340 | 1/1 | 0.85 | 0.10 | 83,83,83,83 | 0 |
| 56 | MG | L8 | 101 | 1/1 | 0.85 | 0.26 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3024 | 1/1 | 0.85 | 0.12 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3265 | 1/1 | 0.85 | 0.55 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3365 | 1/1 | 0.85 | 0.15 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3194 | 1/1 | 0.85 | 0.06 | 140,140,140,140 | 0 |
| 56 | MG | 1H | 3529 | 1/1 | 0.85 | 0.12 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3378 | 1/1 | 0.85 | 0.11 | 92,92,92,92 | 0 |
| 56 | MG | 1G | 1605 | 1/1 | 0.85 | 0.19 | 101,101,101,101 | 0 |
| 56 | MG | 13 | 1609 | 1/1 | 0.85 | 0.28 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3204 | 1/1 | 0.85 | 0.53 | 76,76,76,76 | 0 |
| 56 | MG | 2K | 102 | 1/1 | 0.85 | 0.61 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3071 | 1/1 | 0.85 | 0.21 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3461 | 1/1 | 0.85 | 0.09 | 105,105,105,105 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 14 | 3206 | 1/1 | 0.85 | 0.33 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1700 | 1/1 | 0.85 | 0.16 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3469 | 1/1 | 0.85 | 0.09 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3490 | 1/1 | 0.86 | 0.12 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3234 | 1/1 | 0.86 | 0.23 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1676 | 1/1 | 0.86 | 0.10 | 104,104,104,104 | 0 |
| 56 | MG | 1H | 3240 | 1/1 | 0.86 | 0.58 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3321 | 1/1 | 0.86 | 0.13 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3188 | 1/1 | 0.86 | 0.17 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3087 | 1/1 | 0.86 | 0.22 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3070 | 1/1 | 0.86 | 0.54 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3094 | 1/1 | 0.86 | 0.33 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3173 | 1/1 | 0.86 | 0.53 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3100 | 1/1 | 0.86 | 0.31 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3177 | 1/1 | 0.86 | 0.40 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3341 | 1/1 | 0.86 | 0.06 | 103,103,103,103 | 0 |
| 56 | MG | 14 | 3178 | 1/1 | 0.86 | 0.18 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3359 | 1/1 | 0.86 | 0.09 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3075 | 1/1 | 0.86 | 0.30 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3323 | 1/1 | 0.86 | 0.37 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3363 | 1/1 | 0.86 | 0.17 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3273 | 1/1 | 0.86 | 0.42 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3450 | 1/1 | 0.86 | 0.10 | 119,119,119,119 | 0 |
| 56 | MG | 1H | 3325 | 1/1 | 0.86 | 0.36 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3079 | 1/1 | 0.86 | 0.23 | 52,52,52,52 | 0 |
| 56 | MG | 13 | 1684 | 1/1 | 0.86 | 1.20 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3329 | 1/1 | 0.86 | 0.24 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3151 | 1/1 | 0.86 | 0.23 | 71,71,71,71 | 0 |
| 56 | MG | 1J | 207 | 1/1 | 0.86 | 0.20 | 109,109,109,109 | 0 |
| 56 | MG | 1H | 3260 | 1/1 | 0.86 | 0.46 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1671 | 1/1 | 0.86 | 0.37 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3038 | 1/1 | 0.86 | 0.26 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3124 | 1/1 | 0.86 | 0.36 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3200 | 1/1 | 0.86 | 0.17 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3041 | 1/1 | 0.86 | 0.69 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3072 | 1/1 | 0.87 | 0.23 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3244 | 1/1 | 0.87 | 0.14 | 80,80,80,80 | 0 |
| 56 | MG | 41 | 301 | 1/1 | 0.87 | 0.09 | 77,77,77,77 | 0 |
| 56 | MG | 13 | 1656 | 1/1 | 0.87 | 0.23 | 83,83,83,83 | 0 |
| 56 | MG | 1G | 1644 | 1/1 | 0.87 | 0.50 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3191 | 1/1 | 0.87 | 0.23 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3245 | 1/1 | 0.87 | 0.27 | 91,91,91,91 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1H | 3099 | 1/1 | 0.87 | 0.21 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1687 | 1/1 | 0.87 | 0.05 | 121,121,121,121 | 0 |
| 56 | MG | 1G | 1693 | 1/1 | 0.87 | 0.10 | 125,125,125,125 | 0 |
| 56 | MG | 1H | 3048 | 1/1 | 0.87 | 0.32 | 84,84,84,84 | 0 |
| 56 | MG | 1K | 102 | 1/1 | 0.87 | 0.51 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3299 | 1/1 | 0.87 | 0.47 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3132 | 1/1 | 0.87 | 0.70 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3175 | 1/1 | 0.87 | 0.52 | 92,92,92,92 | 0 |
| 56 | MG | 13 | 1654 | 1/1 | 0.87 | 0.16 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3022 | 1/1 | 0.87 | 0.39 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3126 | 1/1 | 0.87 | 0.37 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3207 | 1/1 | 0.87 | 0.40 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3378 | 1/1 | 0.87 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3527 | 1/1 | 0.87 | 0.10 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3030 | 1/1 | 0.87 | 0.07 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3141 | 1/1 | 0.87 | 0.48 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3116 | 1/1 | 0.87 | 0.13 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3308 | 1/1 | 0.87 | 0.56 | 81,81,81,81 | 0 |
| 56 | MG | 16 | 204 | 1/1 | 0.87 | 0.42 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3156 | 1/1 | 0.87 | 0.23 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3235 | 1/1 | 0.87 | 0.57 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3220 | 1/1 | 0.87 | 0.16 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3224 | 1/1 | 0.87 | 0.38 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3384 | 1/1 | 0.87 | 0.07 | 110,110,110,110 | 0 |
| 56 | MG | 13 | 1713 | 1/1 | 0.87 | 0.12 | 77,77,77,77 | 0 |
| 56 | MG | 1G | 1625 | 1/1 | 0.87 | 0.67 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3229 | 1/1 | 0.87 | 0.31 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3239 | 1/1 | 0.87 | 0.29 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3215 | 1/1 | 0.87 | 0.65 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3234 | 1/1 | 0.87 | 0.64 | 80,80,80,80 | 0 |
| 56 | MG | 11 | 301 | 1/1 | 0.87 | 0.40 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3086 | 1/1 | 0.87 | 0.25 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3037 | 1/1 | 0.87 | 0.34 | 64,64,64,64 | 0 |
| 56 | MG | 11 | 303 | 1/1 | 0.87 | 0.66 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3108 | 1/1 | 0.88 | 0.43 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1667 | 1/1 | 0.88 | 0.29 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3039 | 1/1 | 0.88 | 0.46 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3298 | 1/1 | 0.88 | 0.51 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3159 | 1/1 | 0.88 | 0.20 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3076 | 1/1 | 0.88 | 0.41 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3031 | 1/1 | 0.88 | 0.20 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3331 | 1/1 | 0.88 | 0.10 | 65,65,65,65 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1G | 1643 | 1/1 | 0.88 | 0.38 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3212 | 1/1 | 0.88 | 0.68 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3137 | 1/1 | 0.88 | 0.20 | 67,67,67,67 | 0 |
| 56 | MG | 1G | 1608 | 1/1 | 0.88 | 0.18 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1675 | 1/1 | 0.88 | 0.22 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3189 | 1/1 | 0.88 | 0.29 | 77,77,77,77 | 0 |
| 56 | MG | 1G | 1616 | 1/1 | 0.88 | 0.33 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3334 | 1/1 | 0.88 | 0.20 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3311 | 1/1 | 0.88 | 0.19 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3084 | 1/1 | 0.88 | 0.29 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3197 | 1/1 | 0.88 | 0.26 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3276 | 1/1 | 0.88 | 0.33 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3372 | 1/1 | 0.88 | 0.15 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3152 | 1/1 | 0.88 | 0.18 | 61,61,61,61 | 0 |
| 56 | MG | 13 | 1740 | 1/1 | 0.88 | 0.13 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3496 | 1/1 | 0.88 | 0.12 | 59,59,59,59 | 0 |
| 56 | MG | 1J | 203 | 1/1 | 0.88 | 0.20 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3098 | 1/1 | 0.88 | 0.38 | 74,74,74,74 | 0 |
| 56 | MG | 1J | 205 | 1/1 | 0.88 | 0.35 | 98,98,98,98 | 0 |
| 56 | MG | 13 | 1706 | 1/1 | 0.88 | 0.07 | 108,108,108,108 | 0 |
| 56 | MG | 14 | 3168 | 1/1 | 0.88 | 0.38 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3169 | 1/1 | 0.88 | 0.53 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3256 | 1/1 | 0.88 | 0.33 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3211 | 1/1 | 0.88 | 0.70 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3510 | 1/1 | 0.88 | 0.12 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3274 | 1/1 | 0.88 | 0.09 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3276 | 1/1 | 0.88 | 0.15 | 64,64,64,64 | 0 |
| 56 | MG | 78 | 201 | 1/1 | 0.89 | 0.24 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3251 | 1/1 | 0.89 | 0.16 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3229 | 1/1 | 0.89 | 0.54 | 112,112,112,112 | 0 |
| 56 | MG | 13 | 1750 | 1/1 | 0.89 | 0.09 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3231 | 1/1 | 0.89 | 0.20 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3112 | 1/1 | 0.89 | 0.87 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3093 | 1/1 | 0.89 | 0.74 | 61,61,61,61 | 0 |
| 56 | MG | 13 | 1650 | 1/1 | 0.89 | 0.37 | 98,98,98,98 | 0 |
| 56 | MG | 14 | 3115 | 1/1 | 0.89 | 0.38 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3337 | 1/1 | 0.89 | 0.09 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3344 | 1/1 | 0.89 | 0.11 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3279 | 1/1 | 0.89 | 0.04 | 95,95,95,95 | 0 |
| 56 | MG | 13 | 1686 | 1/1 | 0.89 | 0.22 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3509 | 1/1 | 0.89 | 0.09 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3120 | 1/1 | 0.89 | 0.48 | 78,78,78,78 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3207 | 1/1 | 0.89 | 0.35 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3522 | 1/1 | 0.89 | 0.12 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3096 | 1/1 | 0.89 | 0.33 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3032 | 1/1 | 0.89 | 0.35 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3144 | 1/1 | 0.89 | 0.25 | 78,78,78,78 | 0 |
| 56 | MG | 1G | 1618 | 1/1 | 0.89 | 0.28 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3335 | 1/1 | 0.89 | 0.05 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3210 | 1/1 | 0.89 | 0.49 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3131 | 1/1 | 0.89 | 0.58 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3315 | 1/1 | 0.89 | 0.24 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3133 | 1/1 | 0.89 | 0.50 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3023 | 1/1 | 0.89 | 0.27 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3049 | 1/1 | 0.89 | 0.35 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3406 | 1/1 | 0.89 | 0.15 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3149 | 1/1 | 0.89 | 0.51 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3427 | 1/1 | 0.89 | 0.13 | 78,78,78,78 | 0 |
| 56 | MG | 13 | 1632 | 1/1 | 0.89 | 0.41 | 77,77,77,77 | 0 |
| 56 | MG | 13 | 1613 | 1/1 | 0.89 | 0.21 | 83,83,83,83 | 0 |
| 56 | MG | 16 | 210 | 1/1 | 0.89 | 0.28 | 97,97,97,97 | 0 |
| 56 | MG | 14 | 3164 | 1/1 | 0.89 | 0.20 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3380 | 1/1 | 0.89 | 0.12 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3156 | 1/1 | 0.89 | 0.40 | 78,78,78,78 | 0 |
| 56 | MG | 13 | 1641 | 1/1 | 0.89 | 0.25 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3092 | 1/1 | 0.89 | 0.39 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3464 | 1/1 | 0.89 | 0.07 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3094 | 1/1 | 0.89 | 0.19 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3236 | 1/1 | 0.89 | 0.40 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3129 | 1/1 | 0.89 | 0.24 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3097 | 1/1 | 0.89 | 0.56 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3098 | 1/1 | 0.89 | 0.38 | 53,53,53,53 | 0 |
| 56 | MG | 21 | 302 | 1/1 | 0.89 | 0.20 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3107 | 1/1 | 0.89 | 0.18 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3278 | 1/1 | 0.89 | 0.34 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3246 | 1/1 | 0.89 | 0.30 | 98,98,98,98 | 0 |
| 56 | MG | 1G | 1700 | 1/1 | 0.90 | 0.05 | 126,126,126,126 | 0 |
| 56 | MG | 13 | 1724 | 1/1 | 0.90 | 0.14 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3412 | 1/1 | 0.90 | 0.10 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3200 | 1/1 | 0.90 | 0.17 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3237 | 1/1 | 0.90 | 0.32 | 62,62,62,62 | 0 |
| 56 | MG | 13 | 1725 | 1/1 | 0.90 | 0.14 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3441 | 1/1 | 0.90 | 0.05 | 82,82,82,82 | 0 |
| 56 | MG | 31 | 301 | 1/1 | 0.90 | 0.29 | 62,62,62,62 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 14 | 3305 | 1/1 | 0.90 | 0.14 | 112,112,112,112 | 0 |
| 56 | MG | 1H | 3314 | 1/1 | 0.90 | 0.17 | 110,110,110,110 | 0 |
| 56 | MG | 14 | 3316 | 1/1 | 0.90 | 0.10 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3150 | 1/1 | 0.90 | 0.20 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3110 | 1/1 | 0.90 | 0.40 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3320 | 1/1 | 0.90 | 0.30 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3467 | 1/1 | 0.90 | 0.04 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3321 | 1/1 | 0.90 | 0.17 | 72,72,72,72 | 0 |
| 56 | MG | I8 | 101 | 1/1 | 0.90 | 0.05 | 88,88,88,88 | 0 |
| 56 | MG | 13 | 1727 | 1/1 | 0.90 | 0.13 | 117,117,117,117 | 0 |
| 56 | MG | 13 | 1660 | 1/1 | 0.90 | 0.15 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3006 | 1/1 | 0.90 | 0.43 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3213 | 1/1 | 0.90 | 0.69 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3069 | 1/1 | 0.90 | 0.44 | 63,63,63,63 | 0 |
| 56 | MG | 13 | 1662 | 1/1 | 0.90 | 0.40 | 113,113,113,113 | 0 |
| 56 | MG | 13 | 1738 | 1/1 | 0.90 | 0.08 | 113,113,113,113 | 0 |
| 56 | MG | 1H | 3253 | 1/1 | 0.90 | 0.49 | 64,64,64,64 | 0 |
| 56 | MG | 13 | 1664 | 1/1 | 0.90 | 0.38 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3090 | 1/1 | 0.90 | 0.24 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1635 | 1/1 | 0.90 | 0.57 | 73,73,73,73 | 0 |
| 56 | MG | 13 | 1693 | 1/1 | 0.90 | 0.40 | 109,109,109,109 | 0 |
| 56 | MG | 13 | 1617 | 1/1 | 0.90 | 0.42 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3516 | 1/1 | 0.90 | 0.06 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3520 | 1/1 | 0.90 | 0.07 | 109,109,109,109 | 0 |
| 56 | MG | 13 | 1745 | 1/1 | 0.90 | 0.05 | 119,119,119,119 | 0 |
| 56 | MG | 14 | 3237 | 1/1 | 0.90 | 0.47 | 78,78,78,78 | 0 |
| 56 | MG | 13 | 1651 | 1/1 | 0.90 | 0.45 | 73,73,73,73 | 0 |
| 56 | MG | 1J | 202 | 1/1 | 0.90 | 0.27 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3180 | 1/1 | 0.90 | 0.59 | 93,93,93,93 | 0 |
| 56 | MG | 13 | 1645 | 1/1 | 0.90 | 0.46 | 83,83,83,83 | 0 |
| 56 | MG | 13 | 1638 | 1/1 | 0.90 | 0.62 | 107,107,107,107 | 0 |
| 56 | MG | 1H | 3102 | 1/1 | 0.90 | 0.42 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3190 | 1/1 | 0.90 | 0.43 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1690 | 1/1 | 0.90 | 0.08 | 90,90,90,90 | 0 |
| 56 | MG | 49 | 301 | 1/1 | 0.90 | 0.10 | 116,116,116,116 | 0 |
| 56 | MG | 13 | 1634 | 1/1 | 0.90 | 0.28 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3111 | 1/1 | 0.90 | 0.31 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1696 | 1/1 | 0.90 | 0.05 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3271 | 1/1 | 0.90 | 0.46 | 90,90,90,90 | 0 |
| 56 | MG | 13 | 1658 | 1/1 | 0.90 | 0.39 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3158 | 1/1 | 0.91 | 0.37 | 55,55,55,55 | 0 |
| 56 | MG | 13 | 1644 | 1/1 | 0.91 | 0.49 | 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 | 3176 | 1/1 | 0.91 | 0.24 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3164 | 1/1 | 0.91 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3038 | 1/1 | 0.91 | 0.26 | 76,76,76,76 | 0 |
| 56 | MG | 1G | 1609 | 1/1 | 0.91 | 0.23 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3507 | 1/1 | 0.91 | 0.04 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3130 | 1/1 | 0.91 | 0.49 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3186 | 1/1 | 0.91 | 0.27 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1607 | 1/1 | 0.91 | 0.36 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3360 | 1/1 | 0.91 | 0.04 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3260 | 1/1 | 0.91 | 0.15 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3266 | 1/1 | 0.91 | 0.06 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3102 | 1/1 | 0.91 | 0.76 | 76,76,76,76 | 0 |
| 56 | MG | 13 | 1612 | 1/1 | 0.91 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3134 | 1/1 | 0.91 | 0.51 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3178 | 1/1 | 0.91 | 0.31 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3289 | 1/1 | 0.91 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3310 | 1/1 | 0.91 | 0.30 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3528 | 1/1 | 0.91 | 0.09 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3313 | 1/1 | 0.91 | 0.07 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3013 | 1/1 | 0.91 | 0.30 | 53,53,53,53 | 0 |
| 56 | MG | 16 | 202 | 1/1 | 0.91 | 0.41 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3136 | 1/1 | 0.91 | 0.29 | 66,66,66,66 | 0 |
| 56 | MG | 1G | 1635 | 1/1 | 0.91 | 0.33 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3109 | 1/1 | 0.91 | 0.48 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3221 | 1/1 | 0.91 | 0.43 | 92,92,92,92 | 0 |
| 56 | MG | 1G | 1703 | 1/1 | 0.91 | 0.07 | 124,124,124,124 | 0 |
| 56 | MG | 1H | 3414 | 1/1 | 0.91 | 0.09 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3419 | 1/1 | 0.91 | 0.11 | 53,53,53,53 | 0 |
| 56 | MG | 16 | 208 | 1/1 | 0.91 | 0.13 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3007 | 1/1 | 0.91 | 0.34 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3283 | 1/1 | 0.91 | 0.26 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3023 | 1/1 | 0.91 | 0.38 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3317 | 1/1 | 0.91 | 0.37 | 66,66,66,66 | 0 |
| 56 | MG | 1G | 1645 | 1/1 | 0.91 | 0.32 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3430 | 1/1 | 0.91 | 0.11 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3249 | 1/1 | 0.91 | 0.47 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3433 | 1/1 | 0.91 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3319 | 1/1 | 0.91 | 0.17 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3134 | 1/1 | 0.91 | 0.35 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3136 | 1/1 | 0.91 | 0.25 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3373 | 1/1 | 0.91 | 0.04 | 125,125,125,125 | 0 |
| 56 | MG | 1H | 3443 | 1/1 | 0.91 | 0.12 | 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 | 3058 | 1/1 | 0.91 | 0.73 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3382 | 1/1 | 0.91 | 0.06 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3144 | 1/1 | 0.91 | 0.17 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3224 | 1/1 | 0.91 | 0.55 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3387 | 1/1 | 0.91 | 0.43 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1618 | 1/1 | 0.91 | 0.70 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3257 | 1/1 | 0.91 | 0.41 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1697 | 1/1 | 0.91 | 0.51 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3233 | 1/1 | 0.91 | 0.49 | 112,112,112,112 | 0 |
| 56 | MG | 13 | 1715 | 1/1 | 0.91 | 0.09 | 116,116,116,116 | 0 |
| 56 | MG | 13 | 1628 | 1/1 | 0.91 | 0.39 | 77,77,77,77 | 0 |
| 56 | MG | 1J | 208 | 1/1 | 0.91 | 0.05 | 109,109,109,109 | 0 |
| 56 | MG | 1H | 3097 | 1/1 | 0.91 | 0.38 | 41,41,41,41 | 0 |
| 56 | MG | 14 | 3165 | 1/1 | 0.91 | 0.38 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3076 | 1/1 | 0.91 | 0.30 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3478 | 1/1 | 0.91 | 0.07 | 111,111,111,111 | 0 |
| 56 | MG | 1H | 3027 | 1/1 | 0.91 | 0.56 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3170 | 1/1 | 0.91 | 0.46 | 88,88,88,88 | 0 |
| 56 | MG | 13 | 1692 | 1/1 | 0.91 | 0.09 | 114,114,114,114 | 0 |
| 56 | MG | 1H | 3503 | 1/1 | 0.92 | 0.07 | 115,115,115,115 | 0 |
| 56 | MG | 1G | 1675 | 1/1 | 0.92 | 0.57 | 96,96,96,96 | 0 |
| 56 | MG | 1G | 1676 | 1/1 | 0.92 | 0.15 | 157,157,157,157 | 0 |
| 56 | MG | 1H | 3211 | 1/1 | 0.92 | 0.13 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3241 | 1/1 | 0.92 | 0.42 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1748 | 1/1 | 0.92 | 0.06 | 156,156,156,156 | 0 |
| 56 | MG | 14 | 3184 | 1/1 | 0.92 | 0.35 | 53,53,53,53 | 0 |
| 56 | MG | 13 | 1606 | 1/1 | 0.92 | 0.32 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3259 | 1/1 | 0.92 | 0.18 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3052 | 1/1 | 0.92 | 0.50 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3261 | 1/1 | 0.92 | 0.14 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3280 | 1/1 | 0.92 | 0.25 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1672 | 1/1 | 0.92 | 0.24 | 118,118,118,118 | 0 |
| 56 | MG | 1G | 1686 | 1/1 | 0.92 | 0.21 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3114 | 1/1 | 0.92 | 0.12 | 59,59,59,59 | 0 |
| 56 | MG | 1G | 1626 | 1/1 | 0.92 | 0.48 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3287 | 1/1 | 0.92 | 0.08 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3316 | 1/1 | 0.92 | 0.55 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3294 | 1/1 | 0.92 | 0.10 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3295 | 1/1 | 0.92 | 0.09 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3297 | 1/1 | 0.92 | 0.10 | 107,107,107,107 | 0 |
| 56 | MG | 1H | 3115 | 1/1 | 0.92 | 0.24 | 59,59,59,59 | 0 |
| 56 | MG | 1G | 1629 | 1/1 | 0.92 | 0.39 | 89,89,89,89 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 13 | 1655 | 1/1 | 0.92 | 0.37 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3222 | 1/1 | 0.92 | 0.41 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3317 | 1/1 | 0.92 | 0.10 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3025 | 1/1 | 0.92 | 0.18 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1637 | 1/1 | 0.92 | 0.26 | 124,124,124,124 | 0 |
| 56 | MG | 14 | 3326 | 1/1 | 0.92 | 0.05 | 110,110,110,110 | 0 |
| 56 | MG | 13 | 1726 | 1/1 | 0.92 | 0.10 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3256 | 1/1 | 0.92 | 0.90 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1690 | 1/1 | 0.92 | 0.15 | 96,96,96,96 | 0 |
| 56 | MG | 13 | 1744 | 1/1 | 0.92 | 0.05 | 144,144,144,144 | 0 |
| 56 | MG | 14 | 3018 | 1/1 | 0.92 | 0.27 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3020 | 1/1 | 0.92 | 0.20 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3445 | 1/1 | 0.92 | 0.10 | 91,91,91,91 | 0 |
| 56 | MG | 13 | 1642 | 1/1 | 0.92 | 0.24 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3451 | 1/1 | 0.92 | 0.07 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3349 | 1/1 | 0.92 | 0.07 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3455 | 1/1 | 0.92 | 0.08 | 111,111,111,111 | 0 |
| 56 | MG | 1G | 1650 | 1/1 | 0.92 | 0.28 | 111,111,111,111 | 0 |
| 56 | MG | 1H | 3457 | 1/1 | 0.92 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3135 | 1/1 | 0.92 | 0.20 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3195 | 1/1 | 0.92 | 0.18 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3462 | 1/1 | 0.92 | 0.09 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3152 | 1/1 | 0.92 | 0.40 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3101 | 1/1 | 0.92 | 0.27 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3223 | 1/1 | 0.92 | 0.60 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1633 | 1/1 | 0.92 | 0.53 | 73,73,73,73 | 0 |
| 56 | MG | 14 | 3375 | 1/1 | 0.92 | 0.10 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3468 | 1/1 | 0.92 | 0.04 | 109,109,109,109 | 0 |
| 56 | MG | 14 | 3227 | 1/1 | 0.92 | 0.28 | 103,103,103,103 | 0 |
| 56 | MG | 14 | 3151 | 1/1 | 0.92 | 0.53 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3103 | 1/1 | 0.92 | 0.33 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3230 | 1/1 | 0.92 | 0.17 | 103,103,103,103 | 0 |
| 56 | MG | 14 | 3053 | 1/1 | 0.92 | 0.35 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3161 | 1/1 | 0.92 | 0.33 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3157 | 1/1 | 0.92 | 0.24 | 107,107,107,107 | 0 |
| 56 | MG | 13 | 1747 | 1/1 | 0.92 | 0.09 | 140,140,140,140 | 0 |
| 56 | MG | 14 | 3162 | 1/1 | 0.92 | 0.35 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3131 | 1/1 | 0.92 | 0.45 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3483 | 1/1 | 0.92 | 0.06 | 117,117,117,117 | 0 |
| 56 | MG | 14 | 3166 | 1/1 | 0.92 | 0.18 | 112,112,112,112 | 0 |
| 56 | MG | 1H | 3041 | 1/1 | 0.92 | 0.29 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3172 | 1/1 | 0.92 | 0.51 | 70,70,70,70 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 35 | 201 | 1/1 | 0.92 | 0.39 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3305 | 1/1 | 0.92 | 0.27 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3492 | 1/1 | 0.92 | 0.11 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3363 | 1/1 | 0.92 | 0.08 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3364 | 1/1 | 0.92 | 0.09 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3367 | 1/1 | 0.92 | 0.06 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3480 | 1/1 | 0.93 | 0.05 | 122,122,122,122 | 0 |
| 56 | MG | 14 | 3268 | 1/1 | 0.93 | 0.11 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3269 | 1/1 | 0.93 | 0.15 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3271 | 1/1 | 0.93 | 0.24 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3089 | 1/1 | 0.93 | 0.16 | 44,44,44,44 | 0 |
| 56 | MG | 14 | 3021 | 1/1 | 0.93 | 0.31 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3121 | 1/1 | 0.93 | 0.78 | 79,79,79,79 | 0 |
| 56 | MG | 88 | 201 | 1/1 | 0.93 | 0.26 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3054 | 1/1 | 0.93 | 0.22 | 53,53,53,53 | 0 |
| 56 | MG | 13 | 1716 | 1/1 | 0.93 | 0.05 | 89,89,89,89 | 0 |
| 56 | MG | C8 | 201 | 1/1 | 0.93 | 0.17 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3169 | 1/1 | 0.93 | 0.15 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3390 | 1/1 | 0.93 | 0.12 | 55,55,55,55 | 0 |
| 56 | MG | 13 | 1721 | 1/1 | 0.93 | 0.07 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3494 | 1/1 | 0.93 | 0.06 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3495 | 1/1 | 0.93 | 0.07 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3206 | 1/1 | 0.93 | 0.16 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3066 | 1/1 | 0.93 | 0.17 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3046 | 1/1 | 0.93 | 0.30 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3322 | 1/1 | 0.93 | 0.06 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3138 | 1/1 | 0.93 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3325 | 1/1 | 0.93 | 0.05 | 103,103,103,103 | 0 |
| 56 | MG | 1H | 3035 | 1/1 | 0.93 | 0.25 | 86,86,86,86 | 0 |
| 56 | MG | 14 | 3213 | 1/1 | 0.93 | 0.55 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3142 | 1/1 | 0.93 | 0.23 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3143 | 1/1 | 0.93 | 0.75 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1625 | 1/1 | 0.93 | 0.41 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3146 | 1/1 | 0.93 | 0.34 | 105,105,105,105 | 0 |
| 56 | MG | 13 | 1626 | 1/1 | 0.93 | 0.17 | 65,65,65,65 | 0 |
| 56 | MG | 13 | 1666 | 1/1 | 0.93 | 0.06 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3339 | 1/1 | 0.93 | 0.09 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3150 | 1/1 | 0.93 | 0.25 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3180 | 1/1 | 0.93 | 0.36 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3348 | 1/1 | 0.93 | 0.05 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3250 | 1/1 | 0.93 | 0.25 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3356 | 1/1 | 0.93 | 0.09 | 85,85,85,85 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 14 | 3075 | 1/1 | 0.93 | 0.43 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3155 | 1/1 | 0.93 | 0.19 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1673 | 1/1 | 0.93 | 0.49 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3081 | 1/1 | 0.93 | 0.46 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3435 | 1/1 | 0.93 | 0.08 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3161 | 1/1 | 0.93 | 0.57 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3219 | 1/1 | 0.93 | 1.20 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3442 | 1/1 | 0.93 | 0.08 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3254 | 1/1 | 0.93 | 0.23 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3042 | 1/1 | 0.93 | 0.32 | 53,53,53,53 | 0 |
| 56 | MG | 5E | 201 | 1/1 | 0.93 | 0.23 | 93,93,93,93 | 0 |
| 56 | MG | 14 | 3377 | 1/1 | 0.93 | 0.10 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3185 | 1/1 | 0.93 | 0.79 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1608 | 1/1 | 0.93 | 0.18 | 75,75,75,75 | 0 |
| 56 | MG | 1G | 1633 | 1/1 | 0.93 | 0.33 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3383 | 1/1 | 0.93 | 0.13 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3153 | 1/1 | 0.93 | 0.55 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3242 | 1/1 | 0.93 | 0.52 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3172 | 1/1 | 0.93 | 0.14 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3261 | 1/1 | 0.93 | 0.22 | 58,58,58,58 | 0 |
| 56 | MG | 1G | 1692 | 1/1 | 0.93 | 0.07 | 111,111,111,111 | 0 |
| 56 | MG | 1H | 3154 | 1/1 | 0.93 | 0.15 | 66,66,66,66 | 0 |
| 56 | MG | 1G | 1695 | 1/1 | 0.93 | 0.04 | 103,103,103,103 | 0 |
| 56 | MG | 1H | 3155 | 1/1 | 0.93 | 0.68 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3193 | 1/1 | 0.93 | 0.41 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3051 | 1/1 | 0.93 | 0.35 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3350 | 1/1 | 0.93 | 0.13 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3196 | 1/1 | 0.93 | 0.17 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3157 | 1/1 | 0.93 | 0.39 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3086 | 1/1 | 0.93 | 0.47 | 67,67,67,67 | 0 |
| 56 | MG | 1G | 1647 | 1/1 | 0.93 | 0.31 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3475 | 1/1 | 0.93 | 0.08 | 77,77,77,77 | 0 |
| 56 | MG | F5 | 101 | 1/1 | 0.93 | 0.47 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1663 | 1/1 | 0.93 | 0.19 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3009 | 1/1 | 0.93 | 0.44 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3139 | 1/1 | 0.94 | 0.67 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3292 | 1/1 | 0.94 | 0.08 | 90,90,90,90 | 0 |
| 56 | MG | 1G | 1631 | 1/1 | 0.94 | 0.34 | 89,89,89,89 | 0 |
| 56 | MG | 16 | 211 | 1/1 | 0.94 | 0.07 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3074 | 1/1 | 0.94 | 0.49 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3299 | 1/1 | 0.94 | 0.08 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3036 | 1/1 | 0.94 | 0.28 | 85,85,85,85 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 14 | 3145 | 1/1 | 0.94 | 0.24 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3238 | 1/1 | 0.94 | 0.18 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3417 | 1/1 | 0.94 | 0.13 | 65,65,65,65 | 0 |
| 56 | MG | 1G | 1638 | 1/1 | 0.94 | 0.11 | 154,154,154,154 | 0 |
| 56 | MG | 14 | 3318 | 1/1 | 0.94 | 0.17 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3309 | 1/1 | 0.94 | 0.19 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3487 | 1/1 | 0.94 | 0.09 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3087 | 1/1 | 0.94 | 0.09 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3153 | 1/1 | 0.94 | 0.15 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3420 | 1/1 | 0.94 | 0.09 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3327 | 1/1 | 0.94 | 0.10 | 120,120,120,120 | 0 |
| 56 | MG | 13 | 1728 | 1/1 | 0.94 | 0.09 | 95,95,95,95 | 0 |
| 56 | MG | 14 | 3221 | 1/1 | 0.94 | 0.46 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3078 | 1/1 | 0.94 | 0.18 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3220 | 1/1 | 0.94 | 0.12 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3333 | 1/1 | 0.94 | 0.09 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3095 | 1/1 | 0.94 | 0.31 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3145 | 1/1 | 0.94 | 0.28 | 49,49,49,49 | 0 |
| 56 | MG | 13 | 1691 | 1/1 | 0.94 | 0.26 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3337 | 1/1 | 0.94 | 0.06 | 83,83,83,83 | 0 |
| 56 | MG | 13 | 1611 | 1/1 | 0.94 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3439 | 1/1 | 0.94 | 0.08 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3351 | 1/1 | 0.94 | 0.15 | 50,50,50,50 | 0 |
| 56 | MG | 1H | 3359 | 1/1 | 0.94 | 0.06 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3062 | 1/1 | 0.94 | 0.23 | 35,35,35,35 | 0 |
| 56 | MG | 14 | 3353 | 1/1 | 0.94 | 0.05 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3444 | 1/1 | 0.94 | 0.04 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3084 | 1/1 | 0.94 | 0.19 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3015 | 1/1 | 0.94 | 0.28 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3085 | 1/1 | 0.94 | 0.43 | 74,74,74,74 | 0 |
| 56 | MG | 14 | 3238 | 1/1 | 0.94 | 0.33 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3362 | 1/1 | 0.94 | 0.06 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3514 | 1/1 | 0.94 | 0.14 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3063 | 1/1 | 0.94 | 0.46 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3366 | 1/1 | 0.94 | 0.15 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3453 | 1/1 | 0.94 | 0.06 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3374 | 1/1 | 0.94 | 0.09 | 63,63,63,63 | 0 |
| 56 | MG | 1G | 1610 | 1/1 | 0.94 | 0.09 | 98,98,98,98 | 0 |
| 56 | MG | 1H | 3524 | 1/1 | 0.94 | 0.32 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3456 | 1/1 | 0.94 | 0.05 | 111,111,111,111 | 0 |
| 56 | MG | 1H | 3375 | 1/1 | 0.94 | 0.07 | 75,75,75,75 | 0 |
| 56 | MG | 13 | 1653 | 1/1 | 0.94 | 0.25 | 111,111,111,111 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3379 | 1/1 | 0.94 | 0.09 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3034 | 1/1 | 0.94 | 0.26 | 64,64,64,64 | 0 |
| 56 | MG | 16 | 201 | 1/1 | 0.94 | 0.13 | 96,96,96,96 | 0 |
| 56 | MG | 13 | 1614 | 1/1 | 0.94 | 0.29 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3379 | 1/1 | 0.94 | 0.05 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3465 | 1/1 | 0.94 | 0.12 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3020 | 1/1 | 0.94 | 0.36 | 56,56,56,56 | 0 |
| 56 | MG | 1J | 201 | 1/1 | 0.94 | 0.16 | 114,114,114,114 | 0 |
| 56 | MG | 1H | 3091 | 1/1 | 0.94 | 0.17 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3129 | 1/1 | 0.94 | 0.44 | 76,76,76,76 | 0 |
| 56 | MG | 14 | 3051 | 1/1 | 0.94 | 0.72 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3069 | 1/1 | 0.94 | 0.36 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3031 | 1/1 | 0.94 | 0.25 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3055 | 1/1 | 0.94 | 0.32 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3198 | 1/1 | 0.94 | 0.06 | 82,82,82,82 | 0 |
| 56 | MG | 1J | 209 | 1/1 | 0.94 | 0.07 | 94,94,94,94 | 0 |
| 56 | MG | 14 | 3061 | 1/1 | 0.94 | 0.45 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3063 | 1/1 | 0.94 | 0.27 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3021 | 1/1 | 0.94 | 0.21 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3202 | 1/1 | 0.94 | 0.10 | 115,115,115,115 | 0 |
| 56 | MG | 14 | 3137 | 1/1 | 0.94 | 0.36 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3280 | 1/1 | 0.94 | 0.09 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3117 | 1/1 | 0.94 | 0.56 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3283 | 1/1 | 0.94 | 0.13 | 57,57,57,57 | 0 |
| 57 | ZN | 5A | 101 | 1/1 | 0.94 | 0.12 | 160,160,160,160 | 0 |
| 56 | MG | 14 | 3205 | 1/1 | 0.94 | 0.34 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3272 | 1/1 | 0.95 | 0.12 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3139 | 1/1 | 0.95 | 0.20 | 65,65,65,65 | 0 |
| 56 | MG | I8 | 102 | 1/1 | 0.95 | 0.07 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3278 | 1/1 | 0.95 | 0.10 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3074 | 1/1 | 0.95 | 0.37 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3486 | 1/1 | 0.95 | 0.09 | 61,61,61,61 | 0 |
| 56 | MG | 1G | 1679 | 1/1 | 0.95 | 0.44 | 105,105,105,105 | 0 |
| 56 | MG | 13 | 1723 | 1/1 | 0.95 | 0.12 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3285 | 1/1 | 0.95 | 0.12 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3388 | 1/1 | 0.95 | 0.15 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3288 | 1/1 | 0.95 | 0.19 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3277 | 1/1 | 0.95 | 0.47 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3210 | 1/1 | 0.95 | 0.17 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3400 | 1/1 | 0.95 | 0.12 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3402 | 1/1 | 0.95 | 0.16 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3105 | 1/1 | 0.95 | 0.51 | 75,75,75,75 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1H | 3119 | 1/1 | 0.95 | 1.25 | 86,86,86,86 | 0 |
| 56 | MG | 1G | 1611 | 1/1 | 0.95 | 0.60 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3307 | 1/1 | 0.95 | 0.09 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3311 | 1/1 | 0.95 | 0.07 | 82,82,82,82 | 0 |
| 56 | MG | 1G | 1691 | 1/1 | 0.95 | 0.05 | 119,119,119,119 | 0 |
| 56 | MG | 1H | 3405 | 1/1 | 0.95 | 0.11 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3315 | 1/1 | 0.95 | 0.13 | 71,71,71,71 | 0 |
| 56 | MG | 2K | 103 | 1/1 | 0.95 | 0.32 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3146 | 1/1 | 0.95 | 0.20 | 42,42,42,42 | 0 |
| 56 | MG | 1H | 3500 | 1/1 | 0.95 | 0.07 | 80,80,80,80 | 0 |
| 56 | MG | 13 | 1698 | 1/1 | 0.95 | 0.47 | 90,90,90,90 | 0 |
| 56 | MG | 1H | 3504 | 1/1 | 0.95 | 0.05 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3505 | 1/1 | 0.95 | 0.07 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3246 | 1/1 | 0.95 | 0.47 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1702 | 1/1 | 0.95 | 0.07 | 146,146,146,146 | 0 |
| 56 | MG | 1H | 3322 | 1/1 | 0.95 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3181 | 1/1 | 0.95 | 0.23 | 99,99,99,99 | 0 |
| 56 | MG | 1H | 3423 | 1/1 | 0.95 | 0.06 | 93,93,93,93 | 0 |
| 56 | MG | 1H | 3511 | 1/1 | 0.95 | 0.09 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3512 | 1/1 | 0.95 | 0.15 | 44,44,44,44 | 0 |
| 56 | MG | 14 | 3125 | 1/1 | 0.95 | 0.25 | 105,105,105,105 | 0 |
| 56 | MG | 1H | 3513 | 1/1 | 0.95 | 0.13 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3426 | 1/1 | 0.95 | 0.08 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3016 | 1/1 | 0.95 | 0.30 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3009 | 1/1 | 0.95 | 0.27 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3338 | 1/1 | 0.95 | 0.06 | 107,107,107,107 | 0 |
| 56 | MG | 1H | 3518 | 1/1 | 0.95 | 0.13 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3217 | 1/1 | 0.95 | 0.32 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3429 | 1/1 | 0.95 | 0.06 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3100 | 1/1 | 0.95 | 0.39 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3288 | 1/1 | 0.95 | 0.14 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3351 | 1/1 | 0.95 | 0.03 | 99,99,99,99 | 0 |
| 56 | MG | 14 | 3026 | 1/1 | 0.95 | 0.28 | 90,90,90,90 | 0 |
| 56 | MG | 14 | 3222 | 1/1 | 0.95 | 0.35 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3030 | 1/1 | 0.95 | 0.28 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3029 | 1/1 | 0.95 | 0.31 | 84,84,84,84 | 0 |
| 56 | MG | 14 | 3225 | 1/1 | 0.95 | 0.09 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3126 | 1/1 | 0.95 | 0.46 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3012 | 1/1 | 0.95 | 0.50 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3128 | 1/1 | 0.95 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3364 | 1/1 | 0.95 | 0.14 | 77,77,77,77 | 0 |
| 56 | MG | 13 | 1652 | 1/1 | 0.95 | 0.07 | 79,79,79,79 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3014 | 1/1 | 0.95 | 0.42 | 57,57,57,57 | 0 |
| 56 | MG | 1G | 1646 | 1/1 | 0.95 | 0.19 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3191 | 1/1 | 0.95 | 0.22 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3039 | 1/1 | 0.95 | 0.28 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3336 | 1/1 | 0.95 | 0.09 | 52,52,52,52 | 0 |
| 56 | MG | 14 | 3044 | 1/1 | 0.95 | 0.93 | 82,82,82,82 | 0 |
| 56 | MG | 13 | 1739 | 1/1 | 0.95 | 0.12 | 118,118,118,118 | 0 |
| 56 | MG | 1H | 3338 | 1/1 | 0.95 | 0.14 | 49,49,49,49 | 0 |
| 56 | MG | 3I | 201 | 1/1 | 0.95 | 0.24 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3348 | 1/1 | 0.95 | 0.08 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3381 | 1/1 | 0.95 | 0.10 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3349 | 1/1 | 0.95 | 0.10 | 70,70,70,70 | 0 |
| 56 | MG | 16 | 212 | 1/1 | 0.95 | 0.06 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3057 | 1/1 | 0.95 | 0.38 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3158 | 1/1 | 0.95 | 0.17 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3159 | 1/1 | 0.95 | 0.20 | 60,60,60,60 | 0 |
| 56 | MG | 16 | 213 | 1/1 | 0.95 | 0.10 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3228 | 1/1 | 0.95 | 0.33 | 71,71,71,71 | 0 |
| 56 | MG | 13 | 1703 | 1/1 | 0.95 | 0.92 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3250 | 1/1 | 0.95 | 0.37 | 108,108,108,108 | 0 |
| 56 | MG | 1H | 3356 | 1/1 | 0.95 | 0.09 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1718 | 1/1 | 0.95 | 0.12 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3070 | 1/1 | 0.95 | 0.52 | 59,59,59,59 | 0 |
| 56 | MG | 1G | 1663 | 1/1 | 0.95 | 0.28 | 89,89,89,89 | 0 |
| 56 | MG | 1H | 3163 | 1/1 | 0.95 | 0.45 | 74,74,74,74 | 0 |
| 56 | MG | 13 | 1659 | 1/1 | 0.95 | 0.12 | 107,107,107,107 | 0 |
| 56 | MG | 1H | 3092 | 1/1 | 0.95 | 0.23 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3365 | 1/1 | 0.95 | 0.06 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3201 | 1/1 | 0.95 | 0.22 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3044 | 1/1 | 0.95 | 0.39 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3174 | 1/1 | 0.95 | 0.27 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3046 | 1/1 | 0.95 | 0.34 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3272 | 1/1 | 0.95 | 0.50 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3171 | 1/1 | 0.95 | 0.36 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3479 | 1/1 | 0.95 | 0.11 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3066 | 1/1 | 0.96 | 0.52 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3162 | 1/1 | 0.96 | 0.17 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3111 | 1/1 | 0.96 | 0.28 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3471 | 1/1 | 0.96 | 0.08 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3113 | 1/1 | 0.96 | 0.33 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3399 | 1/1 | 0.96 | 0.09 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3477 | 1/1 | 0.96 | 0.11 | 82,82,82,82 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3326 | 1/1 | 0.96 | 0.35 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3401 | 1/1 | 0.96 | 0.07 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3077 | 1/1 | 0.96 | 0.43 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3079 | 1/1 | 0.96 | 0.55 | 69,69,69,69 | 0 |
| 56 | MG | 14 | 3080 | 1/1 | 0.96 | 0.35 | 54,54,54,54 | 0 |
| 56 | MG | 13 | 1751 | 1/1 | 0.96 | 0.21 | 70,70,70,70 | 0 |
| 56 | MG | 1H | 3403 | 1/1 | 0.96 | 0.20 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3293 | 1/1 | 0.96 | 0.12 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3183 | 1/1 | 0.96 | 0.45 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3083 | 1/1 | 0.96 | 0.42 | 93,93,93,93 | 0 |
| 56 | MG | 1G | 1672 | 1/1 | 0.96 | 0.35 | 100,100,100,100 | 0 |
| 56 | MG | 1H | 3484 | 1/1 | 0.96 | 0.10 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3301 | 1/1 | 0.96 | 0.06 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3485 | 1/1 | 0.96 | 0.07 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3089 | 1/1 | 0.96 | 0.49 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3309 | 1/1 | 0.96 | 0.12 | 86,86,86,86 | 0 |
| 56 | MG | E8 | 201 | 1/1 | 0.96 | 0.31 | 79,79,79,79 | 0 |
| 56 | MG | 1H | 3166 | 1/1 | 0.96 | 0.43 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3043 | 1/1 | 0.96 | 0.23 | 50,50,50,50 | 0 |
| 56 | MG | J8 | 101 | 1/1 | 0.96 | 0.30 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3488 | 1/1 | 0.96 | 0.09 | 102,102,102,102 | 0 |
| 56 | MG | 1H | 3262 | 1/1 | 0.96 | 0.17 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3409 | 1/1 | 0.96 | 0.05 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3319 | 1/1 | 0.96 | 0.05 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3410 | 1/1 | 0.96 | 0.12 | 62,62,62,62 | 0 |
| 56 | MG | 1G | 1683 | 1/1 | 0.96 | 0.26 | 123,123,123,123 | 0 |
| 56 | MG | 14 | 3323 | 1/1 | 0.96 | 0.10 | 96,96,96,96 | 0 |
| 56 | MG | 1G | 1604 | 1/1 | 0.96 | 0.20 | 95,95,95,95 | 0 |
| 56 | MG | 13 | 1717 | 1/1 | 0.96 | 0.07 | 105,105,105,105 | 0 |
| 56 | MG | 1G | 1606 | 1/1 | 0.96 | 0.28 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3413 | 1/1 | 0.96 | 0.08 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3045 | 1/1 | 0.96 | 0.35 | 75,75,75,75 | 0 |
| 56 | MG | 14 | 3107 | 1/1 | 0.96 | 0.39 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3415 | 1/1 | 0.96 | 0.07 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1621 | 1/1 | 0.96 | 0.33 | 97,97,97,97 | 0 |
| 56 | MG | 1H | 3498 | 1/1 | 0.96 | 0.09 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1694 | 1/1 | 0.96 | 0.05 | 104,104,104,104 | 0 |
| 56 | MG | 1H | 3173 | 1/1 | 0.96 | 0.14 | 79,79,79,79 | 0 |
| 56 | MG | 13 | 1719 | 1/1 | 0.96 | 0.14 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1615 | 1/1 | 0.96 | 0.18 | 103,103,103,103 | 0 |
| 56 | MG | 1G | 1698 | 1/1 | 0.96 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3501 | 1/1 | 0.96 | 0.12 | 70,70,70,70 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1H | 3422 | 1/1 | 0.96 | 0.09 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3073 | 1/1 | 0.96 | 0.22 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3343 | 1/1 | 0.96 | 0.04 | 100,100,100,100 | 0 |
| 56 | MG | 13 | 1733 | 1/1 | 0.96 | 0.11 | 101,101,101,101 | 0 |
| 56 | MG | 1H | 3303 | 1/1 | 0.96 | 0.21 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3177 | 1/1 | 0.96 | 0.23 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3352 | 1/1 | 0.96 | 0.08 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3346 | 1/1 | 0.96 | 0.18 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3354 | 1/1 | 0.96 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3208 | 1/1 | 0.96 | 0.22 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3306 | 1/1 | 0.96 | 0.31 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3008 | 1/1 | 0.96 | 0.48 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3209 | 1/1 | 0.96 | 0.42 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3011 | 1/1 | 0.96 | 0.56 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3014 | 1/1 | 0.96 | 0.17 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3050 | 1/1 | 0.96 | 0.29 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3437 | 1/1 | 0.96 | 0.15 | 82,82,82,82 | 0 |
| 56 | MG | 14 | 3017 | 1/1 | 0.96 | 0.28 | 85,85,85,85 | 0 |
| 56 | MG | 1H | 3515 | 1/1 | 0.96 | 0.15 | 46,46,46,46 | 0 |
| 56 | MG | 1G | 1632 | 1/1 | 0.96 | 0.24 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3438 | 1/1 | 0.96 | 0.11 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1634 | 1/1 | 0.96 | 0.21 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3354 | 1/1 | 0.96 | 0.09 | 61,61,61,61 | 0 |
| 56 | MG | 13 | 1605 | 1/1 | 0.96 | 0.33 | 81,81,81,81 | 0 |
| 56 | MG | 14 | 3376 | 1/1 | 0.96 | 0.11 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3521 | 1/1 | 0.96 | 0.13 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3140 | 1/1 | 0.96 | 0.28 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3077 | 1/1 | 0.96 | 0.10 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3125 | 1/1 | 0.96 | 0.62 | 77,77,77,77 | 0 |
| 56 | MG | 1H | 3526 | 1/1 | 0.96 | 0.15 | 46,46,46,46 | 0 |
| 56 | MG | 1K | 101 | 1/1 | 0.96 | 0.34 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3053 | 1/1 | 0.96 | 0.27 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3033 | 1/1 | 0.96 | 0.27 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3446 | 1/1 | 0.96 | 0.05 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3447 | 1/1 | 0.96 | 0.12 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1637 | 1/1 | 0.96 | 0.62 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3057 | 1/1 | 0.96 | 0.32 | 40,40,40,40 | 0 |
| 56 | MG | 1H | 3368 | 1/1 | 0.96 | 0.06 | 76,76,76,76 | 0 |
| 56 | MG | 1H | 3369 | 1/1 | 0.96 | 0.14 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3042 | 1/1 | 0.96 | 0.23 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3372 | 1/1 | 0.96 | 0.14 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3045 | 1/1 | 0.96 | 0.56 | 60,60,60,60 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 13 | 1714 | 1/1 | 0.96 | 0.10 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3458 | 1/1 | 0.96 | 0.14 | 109,109,109,109 | 0 |
| 56 | MG | 13 | 1647 | 1/1 | 0.96 | 0.54 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3040 | 1/1 | 0.96 | 0.23 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3251 | 1/1 | 0.96 | 0.20 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3054 | 1/1 | 0.96 | 0.43 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3163 | 1/1 | 0.96 | 0.56 | 71,71,71,71 | 0 |
| 56 | MG | 13 | 1620 | 1/1 | 0.96 | 0.54 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3064 | 1/1 | 0.96 | 0.20 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3267 | 1/1 | 0.96 | 0.11 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3384 | 1/1 | 0.96 | 0.11 | 62,62,62,62 | 0 |
| 56 | MG | 1H | 3192 | 1/1 | 0.96 | 0.36 | 81,81,81,81 | 0 |
| 56 | MG | 13 | 1729 | 1/1 | 0.97 | 0.08 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3127 | 1/1 | 0.97 | 0.34 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3303 | 1/1 | 0.97 | 0.07 | 107,107,107,107 | 0 |
| 56 | MG | 14 | 3304 | 1/1 | 0.97 | 0.08 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3411 | 1/1 | 0.97 | 0.03 | 101,101,101,101 | 0 |
| 56 | MG | 14 | 3306 | 1/1 | 0.97 | 0.17 | 49,49,49,49 | 0 |
| 56 | MG | 1G | 1614 | 1/1 | 0.97 | 0.64 | 78,78,78,78 | 0 |
| 56 | MG | 14 | 3308 | 1/1 | 0.97 | 0.11 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3355 | 1/1 | 0.97 | 0.08 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3310 | 1/1 | 0.97 | 0.05 | 78,78,78,78 | 0 |
| 56 | MG | 1H | 3525 | 1/1 | 0.97 | 0.10 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3047 | 1/1 | 0.97 | 0.30 | 59,59,59,59 | 0 |
| 56 | MG | 14 | 3048 | 1/1 | 0.97 | 0.40 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3314 | 1/1 | 0.97 | 0.08 | 64,64,64,64 | 0 |
| 56 | MG | 1G | 1617 | 1/1 | 0.97 | 0.31 | 99,99,99,99 | 0 |
| 56 | MG | 13 | 1731 | 1/1 | 0.97 | 0.07 | 69,69,69,69 | 0 |
| 56 | MG | 13 | 1629 | 1/1 | 0.97 | 0.25 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3472 | 1/1 | 0.97 | 0.07 | 61,61,61,61 | 0 |
| 56 | MG | 1G | 1621 | 1/1 | 0.97 | 0.24 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3320 | 1/1 | 0.97 | 0.09 | 72,72,72,72 | 0 |
| 56 | MG | 13 | 1630 | 1/1 | 0.97 | 0.36 | 57,57,57,57 | 0 |
| 56 | MG | 1G | 1623 | 1/1 | 0.97 | 0.37 | 114,114,114,114 | 0 |
| 56 | MG | 14 | 3059 | 1/1 | 0.97 | 0.27 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3361 | 1/1 | 0.97 | 0.04 | 105,105,105,105 | 0 |
| 56 | MG | 14 | 3062 | 1/1 | 0.97 | 0.24 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3476 | 1/1 | 0.97 | 0.07 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3064 | 1/1 | 0.97 | 0.50 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3065 | 1/1 | 0.97 | 0.48 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3147 | 1/1 | 0.97 | 0.25 | 95,95,95,95 | 0 |
| 56 | MG | 1H | 3418 | 1/1 | 0.97 | 0.14 | 56,56,56,56 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 1H | 3362 | 1/1 | 0.97 | 0.11 | 72,72,72,72 | 0 |
| 56 | MG | 14 | 3332 | 1/1 | 0.97 | 0.08 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1688 | 1/1 | 0.97 | 0.12 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3024 | 1/1 | 0.97 | 0.30 | 53,53,53,53 | 0 |
| 56 | MG | 13 | 1734 | 1/1 | 0.97 | 0.04 | 87,87,87,87 | 0 |
| 56 | MG | 1H | 3481 | 1/1 | 0.97 | 0.06 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3073 | 1/1 | 0.97 | 0.38 | 58,58,58,58 | 0 |
| 56 | MG | 13 | 1722 | 1/1 | 0.97 | 0.23 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3049 | 1/1 | 0.97 | 0.21 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3001 | 1/1 | 0.97 | 0.42 | 45,45,45,45 | 0 |
| 56 | MG | 1H | 3004 | 1/1 | 0.97 | 0.37 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3370 | 1/1 | 0.97 | 0.15 | 51,51,51,51 | 0 |
| 56 | MG | 14 | 3346 | 1/1 | 0.97 | 0.11 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3347 | 1/1 | 0.97 | 0.10 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3371 | 1/1 | 0.97 | 0.15 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3187 | 1/1 | 0.97 | 0.40 | 89,89,89,89 | 0 |
| 56 | MG | 13 | 1643 | 1/1 | 0.97 | 0.36 | 96,96,96,96 | 0 |
| 56 | MG | 1H | 3007 | 1/1 | 0.97 | 0.36 | 40,40,40,40 | 0 |
| 56 | MG | 1H | 3436 | 1/1 | 0.97 | 0.07 | 79,79,79,79 | 0 |
| 56 | MG | 14 | 3085 | 1/1 | 0.97 | 0.36 | 77,77,77,77 | 0 |
| 56 | MG | 14 | 3355 | 1/1 | 0.97 | 0.10 | 97,97,97,97 | 0 |
| 56 | MG | 21 | 301 | 1/1 | 0.97 | 0.38 | 55,55,55,55 | 0 |
| 56 | MG | 14 | 3357 | 1/1 | 0.97 | 0.14 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3032 | 1/1 | 0.97 | 0.36 | 46,46,46,46 | 0 |
| 56 | MG | 1H | 3056 | 1/1 | 0.97 | 0.33 | 54,54,54,54 | 0 |
| 56 | MG | 1H | 3008 | 1/1 | 0.97 | 0.31 | 56,56,56,56 | 0 |
| 56 | MG | 14 | 3091 | 1/1 | 0.97 | 0.28 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3002 | 1/1 | 0.97 | 0.37 | 67,67,67,67 | 0 |
| 56 | MG | 13 | 1631 | 1/1 | 0.97 | 0.27 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3497 | 1/1 | 0.97 | 0.10 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3381 | 1/1 | 0.97 | 0.07 | 46,46,46,46 | 0 |
| 56 | MG | 1H | 3382 | 1/1 | 0.97 | 0.13 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3012 | 1/1 | 0.97 | 0.46 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3369 | 1/1 | 0.97 | 0.05 | 96,96,96,96 | 0 |
| 56 | MG | 14 | 3370 | 1/1 | 0.97 | 0.10 | 88,88,88,88 | 0 |
| 56 | MG | 1G | 1649 | 1/1 | 0.97 | 0.16 | 145,145,145,145 | 0 |
| 56 | MG | 1H | 3112 | 1/1 | 0.97 | 0.43 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3167 | 1/1 | 0.97 | 0.19 | 62,62,62,62 | 0 |
| 56 | MG | 13 | 1602 | 1/1 | 0.97 | 0.37 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3262 | 1/1 | 0.97 | 0.10 | 88,88,88,88 | 0 |
| 56 | MG | 14 | 3263 | 1/1 | 0.97 | 0.09 | 60,60,60,60 | 0 |
| 56 | MG | 14 | 3264 | 1/1 | 0.97 | 0.10 | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | 1H | 3060 | 1/1 | 0.97 | 0.49 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3019 | 1/1 | 0.97 | 0.50 | 56,56,56,56 | 0 |
| 56 | MG | 1H | 3391 | 1/1 | 0.97 | 0.10 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3506 | 1/1 | 0.97 | 0.06 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3394 | 1/1 | 0.97 | 0.16 | 54,54,54,54 | 0 |
| 56 | MG | 1G | 1657 | 1/1 | 0.97 | 0.48 | 87,87,87,87 | 0 |
| 56 | MG | 14 | 3273 | 1/1 | 0.97 | 0.08 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3386 | 1/1 | 0.97 | 0.09 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3061 | 1/1 | 0.97 | 0.42 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3389 | 1/1 | 0.97 | 0.21 | 62,62,62,62 | 0 |
| 56 | MG | 14 | 3025 | 1/1 | 0.97 | 0.31 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3277 | 1/1 | 0.97 | 0.11 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3339 | 1/1 | 0.97 | 0.11 | 50,50,50,50 | 0 |
| 56 | MG | 14 | 3027 | 1/1 | 0.97 | 0.25 | 91,91,91,91 | 0 |
| 56 | MG | 1H | 3343 | 1/1 | 0.97 | 0.14 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3281 | 1/1 | 0.97 | 0.10 | 79,79,79,79 | 0 |
| 56 | MG | 13 | 1627 | 1/1 | 0.97 | 0.24 | 57,57,57,57 | 0 |
| 56 | MG | 1G | 1603 | 1/1 | 0.97 | 0.40 | 83,83,83,83 | 0 |
| 56 | MG | 14 | 3284 | 1/1 | 0.97 | 0.16 | 49,49,49,49 | 0 |
| 56 | MG | 13 | 1669 | 1/1 | 0.97 | 0.23 | 142,142,142,142 | 0 |
| 56 | MG | 1H | 3459 | 1/1 | 0.97 | 0.10 | 64,64,64,64 | 0 |
| 56 | MG | 1H | 3347 | 1/1 | 0.97 | 0.16 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3017 | 1/1 | 0.97 | 0.27 | 43,43,43,43 | 0 |
| 56 | MG | 14 | 3290 | 1/1 | 0.97 | 0.16 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3065 | 1/1 | 0.97 | 0.66 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3517 | 1/1 | 0.97 | 0.11 | 71,71,71,71 | 0 |
| 57 | ZN | 3E | 303 | 1/1 | 0.97 | 0.39 | 110,110,110,110 | 0 |
| 56 | MG | 1H | 3258 | 1/1 | 0.97 | 0.37 | 68,68,68,68 | 0 |
| 56 | MG | 13 | 1604 | 1/1 | 0.97 | 0.31 | 89,89,89,89 | 0 |
| 56 | MG | 14 | 3040 | 1/1 | 0.97 | 0.43 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3523 | 1/1 | 0.98 | 0.50 | 37,37,37,37 | 0 |
| 56 | MG | 1H | 3366 | 1/1 | 0.98 | 0.14 | 68,68,68,68 | 0 |
| 56 | MG | 14 | 3248 | 1/1 | 0.98 | 0.21 | 85,85,85,85 | 0 |
| 56 | MG | 13 | 1736 | 1/1 | 0.98 | 0.15 | 86,86,86,86 | 0 |
| 56 | MG | 1H | 3088 | 1/1 | 0.98 | 0.24 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3179 | 1/1 | 0.98 | 0.29 | 86,86,86,86 | 0 |
| 56 | MG | 13 | 1730 | 1/1 | 0.98 | 0.10 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3416 | 1/1 | 0.98 | 0.06 | 69,69,69,69 | 0 |
| 56 | MG | 13 | 1624 | 1/1 | 0.98 | 0.70 | 71,71,71,71 | 0 |
| 56 | MG | 1H | 3071 | 1/1 | 0.98 | 0.30 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3474 | 1/1 | 0.98 | 0.06 | 91,91,91,91 | 0 |
| 56 | MG | 14 | 3185 | 1/1 | 0.98 | 0.38 | 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 | 1H | 3055 | 1/1 | 0.98 | 0.33 | 52,52,52,52 | 0 |
| 56 | MG | 1H | 3373 | 1/1 | 0.98 | 0.07 | 63,63,63,63 | 0 |
| 56 | MG | 13 | 1601 | 1/1 | 0.98 | 0.26 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3160 | 1/1 | 0.98 | 0.26 | 92,92,92,92 | 0 |
| 56 | MG | 14 | 3342 | 1/1 | 0.98 | 0.10 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3425 | 1/1 | 0.98 | 0.13 | 67,67,67,67 | 0 |
| 56 | MG | 14 | 3344 | 1/1 | 0.98 | 0.09 | 85,85,85,85 | 0 |
| 56 | MG | 14 | 3345 | 1/1 | 0.98 | 0.07 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3340 | 1/1 | 0.98 | 0.19 | 41,41,41,41 | 0 |
| 56 | MG | 1G | 1689 | 1/1 | 0.98 | 0.16 | 80,80,80,80 | 0 |
| 56 | MG | 14 | 3265 | 1/1 | 0.98 | 0.11 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3341 | 1/1 | 0.98 | 0.13 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3350 | 1/1 | 0.98 | 0.06 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3482 | 1/1 | 0.98 | 0.16 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3011 | 1/1 | 0.98 | 0.39 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3056 | 1/1 | 0.98 | 0.35 | 64,64,64,64 | 0 |
| 56 | MG | 14 | 3270 | 1/1 | 0.98 | 0.13 | 75,75,75,75 | 0 |
| 56 | MG | 13 | 1720 | 1/1 | 0.98 | 0.08 | 66,66,66,66 | 0 |
| 56 | MG | 14 | 3058 | 1/1 | 0.98 | 0.50 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3345 | 1/1 | 0.98 | 0.10 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3060 | 1/1 | 0.98 | 0.36 | 65,65,65,65 | 0 |
| 56 | MG | 13 | 1603 | 1/1 | 0.98 | 0.36 | 74,74,74,74 | 0 |
| 56 | MG | 1H | 3002 | 1/1 | 0.98 | 0.27 | 30,30,30,30 | 0 |
| 56 | MG | 1H | 3434 | 1/1 | 0.98 | 0.06 | 72,72,72,72 | 0 |
| 56 | MG | 1H | 3385 | 1/1 | 0.98 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3140 | 1/1 | 0.98 | 0.34 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3387 | 1/1 | 0.98 | 0.12 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3141 | 1/1 | 0.98 | 0.13 | 53,53,53,53 | 0 |
| 56 | MG | 1H | 3389 | 1/1 | 0.98 | 0.09 | 51,51,51,51 | 0 |
| 56 | MG | 1H | 3440 | 1/1 | 0.98 | 0.10 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3016 | 1/1 | 0.98 | 0.40 | 61,61,61,61 | 0 |
| 56 | MG | 14 | 3286 | 1/1 | 0.98 | 0.14 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3003 | 1/1 | 0.98 | 0.32 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3392 | 1/1 | 0.98 | 0.19 | 42,42,42,42 | 0 |
| 56 | MG | 14 | 3001 | 1/1 | 0.98 | 0.46 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3374 | 1/1 | 0.98 | 0.06 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3393 | 1/1 | 0.98 | 0.16 | 44,44,44,44 | 0 |
| 56 | MG | 14 | 3003 | 1/1 | 0.98 | 0.39 | 45,45,45,45 | 0 |
| 56 | MG | 14 | 3004 | 1/1 | 0.98 | 0.31 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3078 | 1/1 | 0.98 | 0.23 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3352 | 1/1 | 0.98 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | 1H | 3396 | 1/1 | 0.98 | 0.04 | 79,79,79,79 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | 14 | 3298 | 1/1 | 0.98 | 0.10 | 59,59,59,59 | 0 |
| 56 | MG | 1H | 3080 | 1/1 | 0.98 | 0.41 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3300 | 1/1 | 0.98 | 0.13 | 47,47,47,47 | 0 |
| 56 | MG | 1H | 3502 | 1/1 | 0.98 | 0.10 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3302 | 1/1 | 0.98 | 0.11 | 73,73,73,73 | 0 |
| 56 | MG | 1H | 3448 | 1/1 | 0.98 | 0.04 | 68,68,68,68 | 0 |
| 56 | MG | 1H | 3449 | 1/1 | 0.98 | 0.07 | 66,66,66,66 | 0 |
| 56 | MG | 1H | 3081 | 1/1 | 0.98 | 0.37 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3018 | 1/1 | 0.98 | 0.23 | 83,83,83,83 | 0 |
| 56 | MG | 1H | 3452 | 1/1 | 0.98 | 0.09 | 69,69,69,69 | 0 |
| 56 | MG | 1H | 3357 | 1/1 | 0.98 | 0.10 | 52,52,52,52 | 0 |
| 56 | MG | 1G | 1602 | 1/1 | 0.98 | 0.46 | 72,72,72,72 | 0 |
| 56 | MG | 1G | 1660 | 1/1 | 0.98 | 0.07 | 92,92,92,92 | 0 |
| 56 | MG | 1H | 3454 | 1/1 | 0.98 | 0.08 | 106,106,106,106 | 0 |
| 56 | MG | 1H | 3358 | 1/1 | 0.98 | 0.12 | 65,65,65,65 | 0 |
| 56 | MG | 1H | 3147 | 1/1 | 0.98 | 0.15 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3033 | 1/1 | 0.98 | 0.28 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3104 | 1/1 | 0.98 | 0.20 | 67,67,67,67 | 0 |
| 56 | MG | 1H | 3302 | 1/1 | 0.98 | 0.14 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3460 | 1/1 | 0.98 | 0.07 | 63,63,63,63 | 0 |
| 56 | MG | 1H | 3407 | 1/1 | 0.98 | 0.08 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3408 | 1/1 | 0.98 | 0.13 | 58,58,58,58 | 0 |
| 56 | MG | 14 | 3101 | 1/1 | 0.98 | 0.16 | 55,55,55,55 | 0 |
| 56 | MG | 1H | 3463 | 1/1 | 0.98 | 0.07 | 82,82,82,82 | 0 |
| 56 | MG | 1H | 3034 | 1/1 | 0.98 | 0.37 | 91,91,91,91 | 0 |
| 56 | MG | 13 | 1735 | 1/1 | 0.98 | 0.13 | 77,77,77,77 | 0 |
| 57 | ZN | 32 | 301 | 1/1 | 0.98 | 0.35 | 123,123,123,123 | 0 |
| 56 | MG | 1H | 3005 | 1/1 | 0.98 | 0.43 | 46,46,46,46 | 0 |
| 56 | MG | 14 | 3106 | 1/1 | 0.98 | 0.55 | 70,70,70,70 | 0 |
| 56 | MG | 13 | 1661 | 1/1 | 0.99 | 0.15 | 95,95,95,95 | 0 |
| 56 | MG | 1G | 1601 | 1/1 | 0.99 | 0.34 | 94,94,94,94 | 0 |
| 56 | MG | 1H | 3029 | 1/1 | 0.99 | 0.31 | 65,65,65,65 | 0 |
| 56 | MG | 14 | 3043 | 1/1 | 0.99 | 0.46 | 57,57,57,57 | 0 |
| 56 | MG | 1H | 3519 | 1/1 | 0.99 | 0.03 | 94,94,94,94 | 0 |
| 56 | MG | 2L | 101 | 1/1 | 0.99 | 0.37 | 88,88,88,88 | 0 |
| 56 | MG | 1H | 3010 | 1/1 | 0.99 | 0.27 | 47,47,47,47 | 0 |
| 56 | MG | 14 | 3291 | 1/1 | 0.99 | 0.14 | 54,54,54,54 | 0 |
| 56 | MG | 14 | 3072 | 1/1 | 0.99 | 0.21 | 75,75,75,75 | 0 |
| 56 | MG | 1H | 3342 | 1/1 | 0.99 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3388 | 1/1 | 0.99 | 0.12 | 80,80,80,80 | 0 |
| 56 | MG | 1H | 3383 | 1/1 | 0.99 | 0.05 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3432 | 1/1 | 0.99 | 0.03 | 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 | 14 | 3296 | 1/1 | 0.99 | 0.17 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3050 | 1/1 | 0.99 | 0.28 | 81,81,81,81 | 0 |
| 56 | MG | 1H | 3015 | 1/1 | 0.99 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | 14 | 3005 | 1/1 | 0.99 | 0.46 | 48,48,48,48 | 0 |
| 56 | MG | 14 | 3006 | 1/1 | 0.99 | 0.56 | 60,60,60,60 | 0 |
| 56 | MG | 1H | 3395 | 1/1 | 0.99 | 0.14 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3168 | 1/1 | 0.99 | 0.49 | 84,84,84,84 | 0 |
| 56 | MG | 1H | 3421 | 1/1 | 0.99 | 0.18 | 64,64,64,64 | 0 |
| 56 | MG | 29 | 301 | 1/1 | 0.99 | 0.38 | 49,49,49,49 | 0 |
| 56 | MG | 14 | 3010 | 1/1 | 0.99 | 0.33 | 58,58,58,58 | 0 |
| 56 | MG | 1H | 3376 | 1/1 | 0.99 | 0.06 | 70,70,70,70 | 0 |
| 56 | MG | 14 | 3368 | 1/1 | 0.99 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | 14 | 3275 | 1/1 | 0.99 | 0.12 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3247 | 1/1 | 0.99 | 0.20 | 61,61,61,61 | 0 |
| 56 | MG | 1H | 3398 | 1/1 | 0.99 | 0.13 | 63,63,63,63 | 0 |
| 56 | MG | 14 | 3035 | 1/1 | 0.99 | 0.47 | 71,71,71,71 | 0 |
| 56 | MG | 14 | 3013 | 1/1 | 0.99 | 0.28 | 66,66,66,66 | 0 |
| 57 | ZN | 5I | 101 | 1/1 | 0.99 | 0.13 | 111,111,111,111 | 0 |
| 56 | MG | 14 | 3088 | 1/1 | 0.99 | 0.32 | 44,44,44,44 | 0 |
| 56 | MG | 1H | 3424 | 1/1 | 0.99 | 0.14 | 49,49,49,49 | 0 |
| 56 | MG | 1H | 3194 | 1/1 | 0.99 | 0.32 | 48,48,48,48 | 0 |
| 56 | MG | 1H | 3353 | 1/1 | 0.99 | 0.15 | 61,61,61,61 | 0 |

6.5 Other polymers [i](#)

There are no such residues in this entry.