



wwPDB X-ray Structure Validation Summary Report

Sep 14, 2023 – 12:42 PM EDT

PDB ID : 4V67
Title : Crystal structure of a translation termination complex formed with release factor RF2.
Authors : Korostelev, A.; Asahara, H.; Lancaster, L.; Laurberg, M.; Hirschi, A.; Noller, H.F.
Deposited on : 2008-10-27
Resolution : 3.00 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
Xtriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

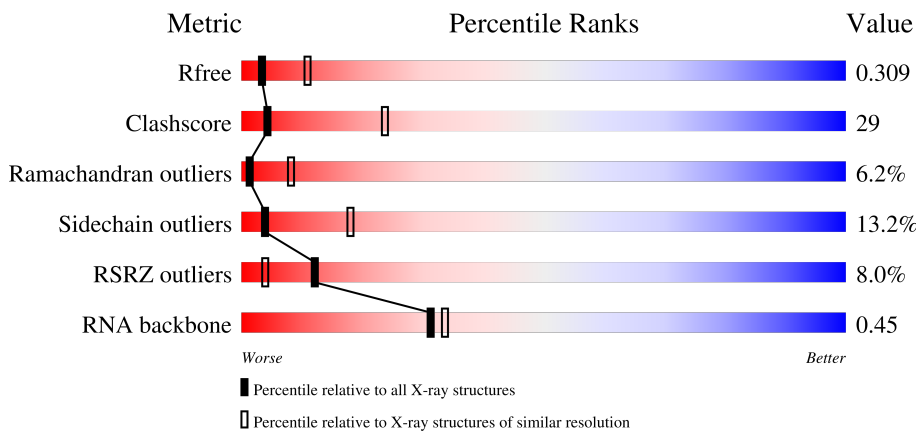
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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.



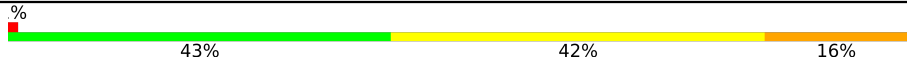
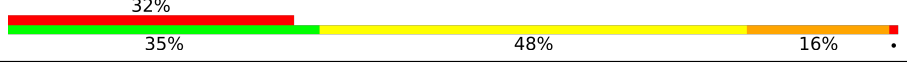
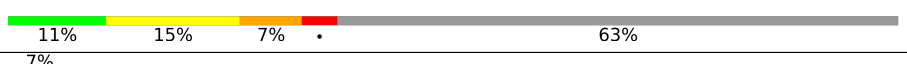

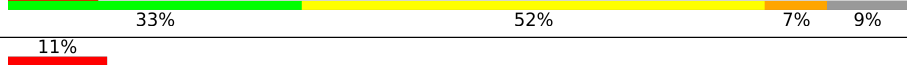
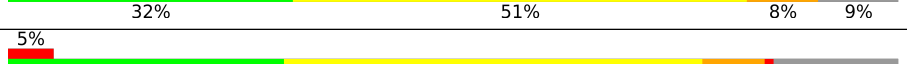
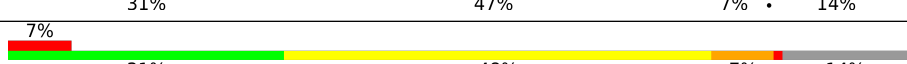
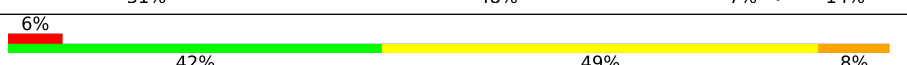
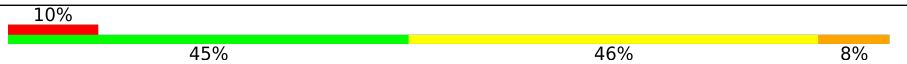

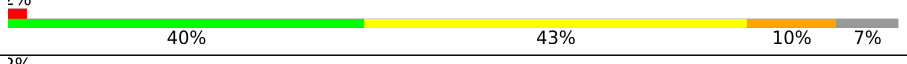



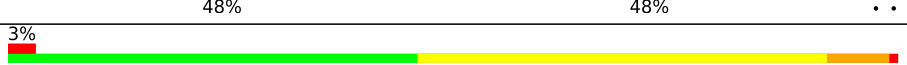
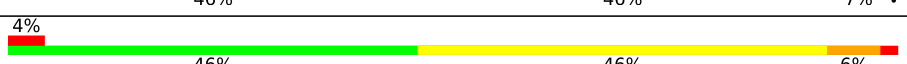
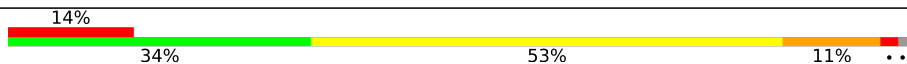
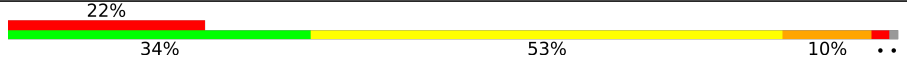
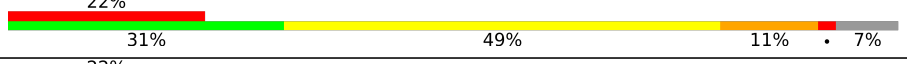



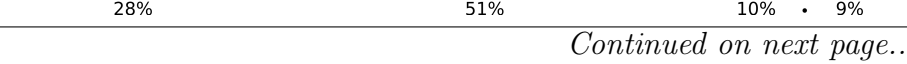


| Metric | Whole archive (#Entries) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|--------------------------|--|
| R_{free} | 130704 | 2092 (3.00-3.00) |
| Clashscore | 141614 | 2416 (3.00-3.00) |
| Ramachandran outliers | 138981 | 2333 (3.00-3.00) |
| Sidechain outliers | 138945 | 2336 (3.00-3.00) |
| RSRZ outliers | 127900 | 1990 (3.00-3.00) |
| RNA backbone | 3102 | 1173 (3.30-2.70) |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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 | AA | 1525 | 33% 49% 14% 2% 2% |
| 1 | CA | 1525 | 31% 51% 13% 2% 2% |
| 2 | AY | 77 | 38% 45% 17% |
| 2 | AZ | 77 | 25% 36% 47% 16% |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 2 | CY | 77 |  |
| 2 | CZ | 77 |  |
| 3 | AV | 27 |  |
| 3 | CV | 27 |  |
| 4 | AB | 256 |  |
| 4 | CB | 256 |  |
| 5 | AC | 239 |  |
| 5 | CC | 239 |  |
| 6 | AD | 209 |  |
| 6 | CD | 209 |  |
| 7 | AE | 162 |  |
| 7 | CE | 162 |  |
| 8 | AF | 101 |  |
| 8 | CF | 101 |  |
| 9 | AG | 156 |  |
| 9 | CG | 156 |  |
| 10 | AH | 138 |  |
| 10 | CH | 138 |  |
| 11 | AI | 128 |  |
| 11 | CI | 128 |  |
| 12 | AJ | 105 |  |
| 12 | CJ | 105 |  |
| 13 | AK | 129 |  |
| 13 | CK | 129 |  |
| 14 | AL | 134 |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--------------------------|
| 14 | CL | 134 | 7% 31% 49% 10% 9% |
| 15 | AM | 126 | 10% 37% 47% 9% 7% |
| 15 | CM | 126 | 15% 35% 49% 8% 7% |
| 16 | AN | 61 | 13% 48% 44% 5% .. |
| 16 | CN | 61 | 16% 43% 49% 5% .. |
| 17 | AO | 89 | % 42% 49% 8% . |
| 17 | CO | 89 | 2% 43% 49% 7% . |
| 18 | AP | 88 | 8% 33% 56% 6% 6% |
| 18 | CP | 88 | 26% 33% 57% 5% 6% |
| 19 | AQ | 105 | % 35% 51% 8% 6% |
| 19 | CQ | 105 | 8% 38% 48% 9% 6% |
| 20 | AR | 88 | 5% 31% 42% 7% 20% |
| 20 | CR | 88 | 13% 30% 40% 9% . 20% |
| 21 | AS | 93 | 33% 26% 42% 14% . 16% |
| 21 | CS | 93 | 24% 26% 42% 14% . 16% |
| 22 | AT | 106 | 5% 28% 56% 9% 7% |
| 22 | CT | 106 | 19% 28% 57% 8% 7% |
| 23 | AU | 27 | 81% 33% 52% . 11% |
| 23 | CU | 27 | 89% 33% 52% . 11% |
| 24 | AX | 378 | 19% 34% 51% 10% .. |
| 24 | CX | 378 | 23% 34% 52% 9% .. |
| 25 | BA | 2894 | 3% 31% 48% 17% .. |
| 25 | DA | 2894 | 3% 31% 48% 17% .. |
| 26 | BB | 124 | 32% 50% 10% . . |
| 26 | DB | 124 | 5% 33% 51% 10% . . |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|-----------------------|
| 27 | BD | 276 | 3% 36% 50% 11% .. |
| 27 | DD | 276 | 2% 36% 51% 10% .. |
| 28 | BE | 206 | 5% 44% 45% 10% . |
| 28 | DE | 206 | 14% 44% 45% 10% . |
| 29 | BF | 210 | 3% 36% 50% 10% . |
| 29 | DF | 210 | 3% 37% 48% 11% . |
| 30 | BG | 182 | 18% 25% 61% 13% .. |
| 30 | DG | 182 | 18% 25% 60% 13% .. |
| 31 | BH | 180 | 19% 26% 52% 9% . 12% |
| 31 | DH | 180 | 8% 24% 53% 10% . 12% |
| 32 | BI | 148 | 9% 32% 52% 14% . |
| 32 | DI | 148 | 5% 41% 45% 13% . |
| 33 | BK | 147 | 52% 30% 59% 12% |
| 33 | DK | 147 | 72% 31% 58% 12% |
| 34 | BN | 163 | 6% 27% 43% 13% . 16% |
| 34 | DN | 163 | 2% 26% 44% 13% . 16% |
| 35 | BO | 122 | 43% 48% 10% |
| 35 | DO | 122 | 46% 45% 9% |
| 36 | BP | 150 | 8% 22% 45% 24% 6% . |
| 36 | DP | 150 | 5% 21% 47% 24% 6% . |
| 37 | BQ | 141 | 6% 24% 57% 12% . 5% |
| 37 | DQ | 141 | 7% 28% 53% 12% . 5% |
| 38 | BR | 118 | 31% 54% 14% . |
| 38 | DR | 118 | 31% 58% 10% . |
| 39 | BS | 112 | 18% 25% 46% 14% . 12% |

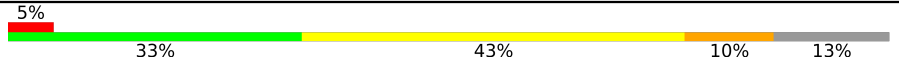




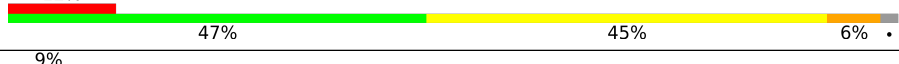
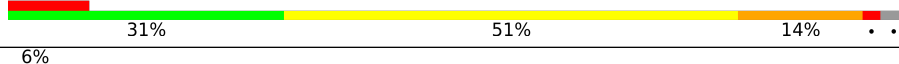
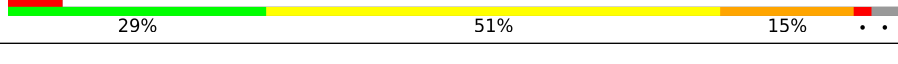
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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 39 | DS | 112 | |
| 40 | BT | 146 | |
| 40 | DT | 146 | |
| 41 | BU | 118 | |
| 41 | DU | 118 | |
| 42 | BV | 101 | |
| 42 | DV | 101 | |
| 43 | BW | 113 | |
| 43 | DW | 113 | |
| 44 | BX | 96 | |
| 44 | DX | 96 | |
| 45 | BY | 110 | |
| 45 | DY | 110 | |
| 46 | BZ | 206 | |
| 46 | DZ | 206 | |
| 47 | B0 | 85 | |
| 47 | D0 | 85 | |
| 48 | B1 | 98 | |
| 48 | D1 | 98 | |
| 49 | B2 | 72 | |
| 49 | D2 | 72 | |
| 50 | B3 | 60 | |
| 50 | D3 | 60 | |
| 51 | B4 | 97 | |
| 51 | D4 | 97 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 52 | B5 | 60 |  |
| 52 | D5 | 60 |  |
| 53 | B6 | 54 |  |
| 53 | D6 | 54 |  |
| 54 | B7 | 49 |  |
| 54 | D7 | 49 |  |
| 55 | B8 | 65 |  |
| 55 | D8 | 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 | AA | 1605 | - | - | - | X |
| 56 | MG | AA | 1619 | - | - | - | X |
| 56 | MG | AA | 1638 | - | - | - | X |
| 56 | MG | AA | 1653 | - | - | - | X |
| 56 | MG | AA | 1678 | - | - | - | X |
| 56 | MG | AA | 1684 | - | - | - | X |
| 56 | MG | AA | 1764 | - | - | - | X |
| 56 | MG | AA | 1769 | - | - | - | X |
| 56 | MG | AA | 1770 | - | - | - | X |
| 56 | MG | AA | 1875 | - | - | - | X |
| 56 | MG | AA | 1881 | - | - | - | X |
| 56 | MG | AA | 1902 | - | - | - | X |
| 56 | MG | AA | 1955 | - | - | - | X |
| 56 | MG | AA | 1958 | - | - | - | X |
| 56 | MG | AA | 1964 | - | - | - | X |
| 56 | MG | AA | 1989 | - | - | - | X |
| 56 | MG | AV | 5502 | - | - | - | X |
| 56 | MG | AX | 411 | - | - | - | X |
| 56 | MG | AY | 101 | - | - | - | X |
| 56 | MG | AY | 113 | - | - | - | X |
| 56 | MG | AZ | 106 | - | - | - | X |
| 56 | MG | BA | 3009 | - | - | - | X |
| 56 | MG | BA | 3013 | - | - | - | X |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | BA | 3048 | - | - | - | X |
| 56 | MG | BA | 3093 | - | - | - | X |
| 56 | MG | BA | 3117 | - | - | - | X |
| 56 | MG | BA | 3147 | - | - | - | X |
| 56 | MG | BA | 3156 | - | - | - | X |
| 56 | MG | BA | 3171 | - | - | - | X |
| 56 | MG | BA | 3176 | - | - | - | X |
| 56 | MG | BA | 3193 | - | - | - | X |
| 56 | MG | BA | 3198 | - | - | - | X |
| 56 | MG | BA | 3233 | - | - | - | X |
| 56 | MG | BA | 3239 | - | - | - | X |
| 56 | MG | BA | 3263 | - | - | - | X |
| 56 | MG | BA | 3273 | - | - | - | X |
| 56 | MG | BA | 3296 | - | - | - | X |
| 56 | MG | BA | 3306 | - | - | - | X |
| 56 | MG | BA | 3340 | - | - | - | X |
| 56 | MG | BA | 3343 | - | - | - | X |
| 56 | MG | BA | 3362 | - | - | - | X |
| 56 | MG | BA | 3374 | - | - | - | X |
| 56 | MG | BA | 3389 | - | - | - | X |
| 56 | MG | BA | 3436 | - | - | - | X |
| 56 | MG | BA | 3437 | - | - | - | X |
| 56 | MG | BA | 3441 | - | - | - | X |
| 56 | MG | BA | 3449 | - | - | - | X |
| 56 | MG | BA | 3474 | - | - | - | X |
| 56 | MG | BA | 3593 | - | - | - | X |
| 56 | MG | BA | 3597 | - | - | - | X |
| 56 | MG | BA | 3598 | - | - | - | X |
| 56 | MG | BA | 3600 | - | - | - | X |
| 56 | MG | BA | 3653 | - | - | - | X |
| 56 | MG | BA | 3697 | - | - | - | X |
| 56 | MG | BA | 3712 | - | - | - | X |
| 56 | MG | BA | 3730 | - | - | - | X |
| 56 | MG | BA | 3738 | - | - | - | X |
| 56 | MG | BA | 3745 | - | - | - | X |
| 56 | MG | BA | 3746 | - | - | - | X |
| 56 | MG | BA | 3747 | - | - | - | X |
| 56 | MG | BA | 3757 | - | - | - | X |
| 56 | MG | BA | 3758 | - | - | - | X |
| 56 | MG | BA | 3847 | - | - | - | X |
| 56 | MG | BA | 3874 | - | - | - | X |
| 56 | MG | BA | 3876 | - | - | - | X |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56 | MG | BA | 3899 | - | - | - | X |
| 56 | MG | BB | 201 | - | - | - | X |
| 56 | MG | BB | 205 | - | - | - | X |
| 56 | MG | BB | 220 | - | - | - | X |
| 56 | MG | BF | 303 | - | - | - | X |
| 56 | MG | BT | 201 | - | - | - | X |
| 56 | MG | BU | 201 | - | - | - | X |
| 56 | MG | BW | 201 | - | - | - | X |
| 56 | MG | CA | 1669 | - | - | - | X |
| 56 | MG | CA | 1679 | - | - | - | X |
| 56 | MG | CA | 1685 | - | - | - | X |
| 56 | MG | CA | 1689 | - | - | - | X |
| 56 | MG | CA | 1705 | - | - | - | X |
| 56 | MG | CA | 1711 | - | - | - | X |
| 56 | MG | CA | 1713 | - | - | - | X |
| 56 | MG | CA | 1763 | - | - | - | X |
| 56 | MG | CY | 111 | - | - | - | X |
| 56 | MG | DA | 3101 | - | - | - | X |
| 56 | MG | DA | 3129 | - | - | - | X |
| 56 | MG | DA | 3297 | - | - | - | X |
| 56 | MG | DA | 3300 | - | - | - | X |
| 56 | MG | DA | 3320 | - | - | - | X |
| 56 | MG | DD | 5005 | - | - | - | X |

2 Entry composition [i](#)

There are 57 unique types of molecules in this entry. The entry contains 301148 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|----------------|------------|-----------|------------|-----------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 1 | AA | 1504 | Total 32332 | C 14391 | N 5994 | O 10444 | P 1503 | 0 | 0 | 0 |
| 1 | CA | 1504 | Total 32332 | C 14391 | N 5994 | O 10444 | P 1503 | 0 | 0 | 0 |

There are 2 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|-----------|
| AA | 466 | G | C | conflict | GB 155076 |
| CA | 466 | G | C | conflict | GB 155076 |

- Molecule 2 is a RNA chain called P AND E-SITE TRNA(FMET).

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|---------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 2 | AZ | 77 | Total 1640 | C 732 | N 297 | O 535 | P 76 | 0 | 0 | 0 |
| 2 | AY | 77 | Total 1640 | C 732 | N 297 | O 535 | P 76 | 0 | 0 | 0 |
| 2 | CZ | 77 | Total 1640 | C 732 | N 297 | O 535 | P 76 | 0 | 0 | 0 |
| 2 | CY | 77 | Total 1640 | C 732 | N 297 | O 535 | P 76 | 0 | 0 | 0 |

- Molecule 3 is a RNA chain called MRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|---------|---------|---------|--------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 3 | AV | 10 | Total 214 | C 98 | N 44 | O 63 | P 9 | 0 | 0 | 0 |
| 3 | CV | 10 | Total 214 | C 98 | N 44 | O 63 | P 9 | 0 | 0 | 0 |

- Molecule 4 is a protein called 30S ribosomal protein S2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 4 | AB | 234 | Total 1900 | C 1213 | N 341 | O 341 | S 5 | 0 | 0 | 0 |
| 4 | CB | 234 | Total 1900 | C 1213 | N 341 | O 341 | S 5 | 0 | 0 | 0 |

- Molecule 5 is a protein called 30S ribosomal protein S3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 5 | AC | 206 | Total 1612 | C 1016 | N 314 | O 281 | S 1 | 0 | 0 | 0 |
| 5 | CC | 206 | Total 1612 | C 1016 | N 314 | O 281 | S 1 | 0 | 0 | 0 |

- Molecule 6 is a protein called 30S ribosomal protein S4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 6 | AD | 208 | Total 1703 | C 1066 | N 339 | O 291 | S 7 | 0 | 0 | 0 |
| 6 | CD | 208 | Total 1703 | C 1066 | N 339 | O 291 | S 7 | 0 | 0 | 0 |

- Molecule 7 is a protein called 30S ribosomal protein S5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 7 | AE | 151 | Total 1155 | C 729 | N 218 | O 204 | S 4 | 0 | 0 | 0 |
| 7 | CE | 151 | Total 1155 | C 729 | N 218 | O 204 | S 4 | 0 | 0 | 0 |

- Molecule 8 is a protein called 30S ribosomal protein S6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 8 | AF | 101 | Total 843 | C 531 | N 155 | O 154 | S 3 | 0 | 0 | 0 |
| 8 | CF | 101 | Total 843 | C 531 | N 155 | O 154 | S 3 | 0 | 0 | 0 |

- Molecule 9 is a protein called 30S ribosomal protein S7.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 9 | AG | 155 | Total 1257 | C 781 | N 252 | O 218 | S 6 | 0 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 9 | CG | 155 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1257 | 781 | 252 | 218 | 6 | | | |

- Molecule 10 is a protein called 30S ribosomal protein S8.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | AH | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |
| 10 | CH | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |

- Molecule 11 is a protein called 30S ribosomal protein S9.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 11 | AI | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1011 | 639 | 198 | 174 | | | |
| 11 | CI | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1011 | 639 | 198 | 174 | | | |

- Molecule 12 is a protein called 30S ribosomal protein S10.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12 | AJ | 98 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 794 | 499 | 156 | 138 | 1 | | | |
| 12 | CJ | 98 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 794 | 499 | 156 | 138 | 1 | | | |

- Molecule 13 is a protein called 30S ribosomal protein S11.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 13 | AK | 114 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 842 | 522 | 159 | 158 | 3 | | | |
| 13 | CK | 114 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 842 | 522 | 159 | 158 | 3 | | | |

- Molecule 14 is a protein called 30S ribosomal protein S12.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 14 | AL | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 956 | 603 | 193 | 159 | 1 | | | |
| 14 | CL | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 956 | 603 | 193 | 159 | 1 | | | |

There are 4 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| AL | 2 | ALA | - | insertion | UNP P61941 |
| AL | 3 | LEU | - | insertion | UNP P61941 |
| CL | 2 | ALA | - | insertion | UNP P61941 |
| CL | 3 | LEU | - | insertion | UNP P61941 |

- Molecule 15 is a protein called 30S ribosomal protein S13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 15 | AM | 117 | 933 | 577 | 192 | 162 | 2 | 0 | 0 | 0 |
| 15 | CM | 117 | 933 | 577 | 192 | 162 | 2 | 0 | 0 | 0 |

- Molecule 16 is a protein called 30S ribosomal protein S14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 16 | AN | 60 | 492 | 312 | 104 | 72 | 4 | 0 | 0 | 0 |
| 16 | CN | 60 | 492 | 312 | 104 | 72 | 4 | 0 | 0 | 0 |

- Molecule 17 is a protein called 30S ribosomal protein S15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 17 | AO | 88 | 734 | 459 | 147 | 126 | 2 | 0 | 0 | 0 |
| 17 | CO | 88 | 734 | 459 | 147 | 126 | 2 | 0 | 0 | 0 |

- Molecule 18 is a protein called 30S ribosomal protein S16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 18 | AP | 83 | 700 | 443 | 139 | 117 | 1 | 0 | 0 | 0 |
| 18 | CP | 83 | 700 | 443 | 139 | 117 | 1 | 0 | 0 | 0 |

- Molecule 19 is a protein called 30S ribosomal protein S17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 19 | AQ | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 823 | 528 | 152 | 141 | 2 | | | |
| 19 | CQ | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 823 | 528 | 152 | 141 | 2 | | | |

- Molecule 20 is a protein called 30S ribosomal protein S18.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|--|---------|---------|-------|
| 20 | AR | 70 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 574 | 367 | 112 | 95 | | | | |
| 20 | CR | 70 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 574 | 367 | 112 | 95 | | | | |

- Molecule 21 is a protein called 30S ribosomal protein S19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 21 | AS | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 629 | 403 | 114 | 110 | 2 | | | |
| 21 | CS | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 629 | 403 | 114 | 110 | 2 | | | |

- Molecule 22 is a protein called 30S ribosomal protein S20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22 | AT | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 762 | 469 | 162 | 129 | 2 | | | |
| 22 | CT | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 762 | 469 | 162 | 129 | 2 | | | |

- Molecule 23 is a protein called 30S ribosomal protein Thx.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace | |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|---|
| 23 | AU | 24 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 208 | 128 | 50 | 30 | | | | |
| 23 | CU | 24 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 208 | 128 | 50 | 30 | | | | |

- Molecule 24 is a protein called Bacterial peptide chain release factor 2 (RF-2).

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 24 | AX | 362 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2876 | 1794 | 518 | 556 | 8 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 24 | CX | 362 | Total 2876 | C 1794 | N 518 | O 556 | S 8 | 0 | 0 | 0 |

- Molecule 25 is a RNA chain called 23S RRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|----------------|------------|------------|------------|-----------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 25 | BA | 2879 | Total 61997 | C 27594 | N 11582 | O 19943 | P 2878 | 0 | 0 | 0 |
| 25 | DA | 2879 | Total 61997 | C 27594 | N 11582 | O 19943 | P 2878 | 0 | 0 | 0 |

- Molecule 26 is a RNA chain called 5S RRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|---------|-------|
| | | | Total | C | N | O | P | | | |
| 26 | BB | 119 | Total 2551 | C 1136 | N 471 | O 826 | P 118 | 0 | 0 | 0 |
| 26 | DB | 119 | Total 2551 | C 1136 | N 471 | O 826 | P 118 | 0 | 0 | 0 |

- Molecule 27 is a protein called 50S ribosomal protein L2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 27 | BD | 271 | Total 2104 | C 1329 | N 416 | O 356 | S 3 | 0 | 0 | 0 |
| 27 | DD | 271 | Total 2104 | C 1329 | N 416 | O 356 | S 3 | 0 | 0 | 0 |

- Molecule 28 is a protein called 50S ribosomal protein L3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 28 | BE | 204 | Total 1563 | C 988 | N 299 | O 270 | S 6 | 0 | 0 | 0 |
| 28 | DE | 204 | Total 1563 | C 988 | N 299 | O 270 | S 6 | 0 | 0 | 0 |

- Molecule 29 is a protein called 50S ribosomal protein L4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 29 | BF | 202 | Total 1586 | C 1011 | N 297 | O 275 | S 3 | 0 | 0 | 0 |
| 29 | DF | 202 | Total 1586 | C 1011 | N 297 | O 275 | S 3 | 0 | 0 | 0 |

There are 10 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| BF | 1 | MET | - | insertion | UNP Q72I05 |
| BF | 2 | LYS | - | insertion | UNP Q72I05 |
| BF | 3 | GLU | - | insertion | UNP Q72I05 |
| BF | 4 | VAL | - | insertion | UNP Q72I05 |
| BF | 5 | ALA | - | insertion | UNP Q72I05 |
| DF | 1 | MET | - | insertion | UNP Q72I05 |
| DF | 2 | LYS | - | insertion | UNP Q72I05 |
| DF | 3 | GLU | - | insertion | UNP Q72I05 |
| DF | 4 | VAL | - | insertion | UNP Q72I05 |
| DF | 5 | ALA | - | insertion | UNP Q72I05 |

- Molecule 30 is a protein called 50S ribosomal protein L5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 30 | BG | 181 | 1475 | 943 | 268 | 260 | 4 | 0 | 0 | 0 |
| 30 | DG | 181 | 1475 | 943 | 268 | 260 | 4 | 0 | 0 | 0 |

- Molecule 31 is a protein called 50S ribosomal protein L6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 31 | BH | 159 | 1222 | 773 | 228 | 220 | 1 | 0 | 0 | 0 |
| 31 | DH | 159 | 1222 | 773 | 228 | 220 | 1 | 0 | 0 | 0 |

- Molecule 32 is a protein called 50S ribosomal protein L9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 32 | BI | 145 | 1132 | 724 | 200 | 207 | 1 | 0 | 0 | 0 |
| 32 | DI | 145 | 1132 | 724 | 200 | 207 | 1 | 0 | 0 | 0 |

- Molecule 33 is a protein called 50S ribosomal protein L11.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 33 | BK | 147 | 1088 | 692 | 191 | 199 | 6 | 0 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 33 | DK | 147 | 1088 | 692 | 191 | 199 | 6 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 34 | BN | 137 | 1096 | 707 | 205 | 181 | 3 | 0 | 0 | 0 |
| 34 | DN | 137 | 1096 | 707 | 205 | 181 | 3 | 0 | 0 | 0 |

There are 48 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| BN | 1 | MET | - | insertion | UNP Q72IN1 |
| BN | 2 | VAL | - | insertion | UNP Q72IN1 |
| BN | 3 | LYS | - | insertion | UNP Q72IN1 |
| BN | 4 | SER | - | insertion | UNP Q72IN1 |
| BN | 5 | SER | - | insertion | UNP Q72IN1 |
| BN | 6 | LEU | - | insertion | UNP Q72IN1 |
| BN | 7 | ALA | - | insertion | UNP Q72IN1 |
| BN | 8 | PHE | - | insertion | UNP Q72IN1 |
| BN | 9 | LEU | - | insertion | UNP Q72IN1 |
| BN | 10 | ARG | - | insertion | UNP Q72IN1 |
| BN | 11 | GLY | - | insertion | UNP Q72IN1 |
| BN | 12 | PRO | - | insertion | UNP Q72IN1 |
| BN | 13 | PRO | - | insertion | UNP Q72IN1 |
| BN | 14 | ILE | - | insertion | UNP Q72IN1 |
| BN | 15 | PRO | - | insertion | UNP Q72IN1 |
| BN | 16 | ARG | - | insertion | UNP Q72IN1 |
| BN | 17 | GLN | - | insertion | UNP Q72IN1 |
| BN | 18 | GLU | - | insertion | UNP Q72IN1 |
| BN | 19 | GLN | - | insertion | UNP Q72IN1 |
| BN | 20 | ARG | - | insertion | UNP Q72IN1 |
| BN | 21 | ARG | - | insertion | UNP Q72IN1 |
| BN | 22 | ALA | - | insertion | UNP Q72IN1 |
| BN | 23 | LEU | - | insertion | UNP Q72IN1 |
| BN | 24 | VAL | - | insertion | UNP Q72IN1 |
| DN | 1 | MET | - | insertion | UNP Q72IN1 |
| DN | 2 | VAL | - | insertion | UNP Q72IN1 |
| DN | 3 | LYS | - | insertion | UNP Q72IN1 |
| DN | 4 | SER | - | insertion | UNP Q72IN1 |

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| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| DN | 5 | SER | - | insertion | UNP Q72IN1 |
| DN | 6 | LEU | - | insertion | UNP Q72IN1 |
| DN | 7 | ALA | - | insertion | UNP Q72IN1 |
| DN | 8 | PHE | - | insertion | UNP Q72IN1 |
| DN | 9 | LEU | - | insertion | UNP Q72IN1 |
| DN | 10 | ARG | - | insertion | UNP Q72IN1 |
| DN | 11 | GLY | - | insertion | UNP Q72IN1 |
| DN | 12 | PRO | - | insertion | UNP Q72IN1 |
| DN | 13 | PRO | - | insertion | UNP Q72IN1 |
| DN | 14 | ILE | - | insertion | UNP Q72IN1 |
| DN | 15 | PRO | - | insertion | UNP Q72IN1 |
| DN | 16 | ARG | - | insertion | UNP Q72IN1 |
| DN | 17 | GLN | - | insertion | UNP Q72IN1 |
| DN | 18 | GLU | - | insertion | UNP Q72IN1 |
| DN | 19 | GLN | - | insertion | UNP Q72IN1 |
| DN | 20 | ARG | - | insertion | UNP Q72IN1 |
| DN | 21 | ARG | - | insertion | UNP Q72IN1 |
| DN | 22 | ALA | - | insertion | UNP Q72IN1 |
| DN | 23 | LEU | - | insertion | UNP Q72IN1 |
| DN | 24 | VAL | - | insertion | UNP Q72IN1 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 35 | BO | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 587 | 171 | 170 | 4 | | | |
| 35 | DO | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 587 | 171 | 170 | 4 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36 | BP | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1114 | 692 | 227 | 193 | 2 | | | |
| 36 | DP | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1114 | 692 | 227 | 193 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37 | BQ | 134 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1064 | 680 | 201 | 178 | 5 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37 | DQ | 134 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1064 | 680 | 201 | 178 | 5 | | | |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 38 | BR | 117 | Total | C | N | O | 0 | 0 | 0 |
| | | | 960 | 599 | 202 | 159 | | | |
| 38 | DR | 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 | BS | 98 | Total | C | N | O | 0 | 0 | 0 |
| | | | 770 | 486 | 154 | 130 | | | |
| 39 | DS | 98 | Total | C | N | O | 0 | 0 | 0 |
| | | | 770 | 486 | 154 | 130 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 40 | BT | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1143 | 713 | 234 | 195 | 1 | | | |
| 40 | DT | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1143 | 713 | 234 | 195 | 1 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 41 | BU | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 964 | 610 | 202 | 151 | 1 | | | |
| 41 | DU | 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 | BV | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 779 | 501 | 142 | 135 | 1 | | | |
| 42 | DV | 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 |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 43 | BW | 112 | Total 890 | C 560 | N 175 | O 153 | S 2 | 0 | 0 | 0 |
| 43 | DW | 112 | Total 890 | C 560 | N 175 | O 153 | S 2 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|---------|---------|-------|
| | | | Total | C | N | O | | | |
| 44 | BX | 92 | Total 725 | C 471 | N 131 | O 123 | 0 | 0 | 0 |
| 44 | DX | 92 | Total 725 | C 471 | N 131 | O 123 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 45 | BY | 100 | Total 775 | C 500 | N 148 | O 123 | S 4 | 0 | 0 | 0 |
| 45 | DY | 100 | Total 775 | C 500 | N 148 | O 123 | S 4 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 46 | BZ | 187 | Total 1482 | C 945 | N 264 | O 271 | S 2 | 0 | 0 | 0 |
| 46 | DZ | 187 | Total 1482 | C 945 | N 264 | O 271 | S 2 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 47 | B0 | 76 | Total 605 | C 376 | N 126 | O 102 | S 1 | 0 | 0 | 0 |
| 47 | D0 | 76 | Total 605 | C 376 | N 126 | O 102 | S 1 | 0 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 48 | B1 | 88 | Total | C | N | O | 0 | 0 | 0 |
| | | | 694 | 435 | 141 | 118 | | | |
| 48 | D1 | 88 | Total | C | N | O | 0 | 0 | 0 |
| | | | 694 | 435 | 141 | 118 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 49 | B2 | 62 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 520 | 325 | 102 | 91 | 2 | | | |
| 49 | D2 | 62 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 520 | 325 | 102 | 91 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 50 | B3 | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 467 | 298 | 90 | 78 | 1 | | | |
| 50 | D3 | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 467 | 298 | 90 | 78 | 1 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 51 | B4 | 30 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 225 | 142 | 36 | 43 | 4 | | | |
| 51 | D4 | 30 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 225 | 142 | 36 | 43 | 4 | | | |

There are 54 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| B4 | 1 | MET | - | insertion | UNP Q72JR0 |
| B4 | 2 | PRO | - | insertion | UNP Q72JR0 |
| B4 | 3 | LEU | - | insertion | UNP Q72JR0 |
| B4 | 4 | GLY | - | insertion | UNP Q72JR0 |
| B4 | 5 | VAL | - | insertion | UNP Q72JR0 |
| B4 | 6 | HIS | - | insertion | UNP Q72JR0 |
| B4 | 7 | PRO | - | insertion | UNP Q72JR0 |
| B4 | 8 | LEU | - | insertion | UNP Q72JR0 |
| B4 | 9 | TYR | - | insertion | UNP Q72JR0 |
| B4 | 10 | THR | - | insertion | UNP Q72JR0 |
| B4 | 11 | LYS | - | insertion | UNP Q72JR0 |

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| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| B4 | 12 | ARG | - | insertion | UNP Q72JR0 |
| B4 | 13 | TRP | - | insertion | UNP Q72JR0 |
| B4 | 14 | LEU | - | insertion | UNP Q72JR0 |
| B4 | 15 | ALA | - | insertion | UNP Q72JR0 |
| B4 | 16 | HIS | - | insertion | UNP Q72JR0 |
| B4 | 17 | GLY | - | insertion | UNP Q72JR0 |
| B4 | 18 | GLN | - | insertion | UNP Q72JR0 |
| B4 | 19 | ASP | - | insertion | UNP Q72JR0 |
| B4 | 20 | ARG | - | insertion | UNP Q72JR0 |
| B4 | 21 | ALA | - | insertion | UNP Q72JR0 |
| B4 | 22 | LYS | - | insertion | UNP Q72JR0 |
| B4 | 23 | LYS | - | insertion | UNP Q72JR0 |
| B4 | 24 | GLU | - | insertion | UNP Q72JR0 |
| B4 | 25 | ALA | - | insertion | UNP Q72JR0 |
| B4 | 26 | ASN | - | insertion | UNP Q72JR0 |
| B4 | 27 | VAL | - | insertion | UNP Q72JR0 |
| D4 | 1 | MET | - | insertion | UNP Q72JR0 |
| D4 | 2 | PRO | - | insertion | UNP Q72JR0 |
| D4 | 3 | LEU | - | insertion | UNP Q72JR0 |
| D4 | 4 | GLY | - | insertion | UNP Q72JR0 |
| D4 | 5 | VAL | - | insertion | UNP Q72JR0 |
| D4 | 6 | HIS | - | insertion | UNP Q72JR0 |
| D4 | 7 | PRO | - | insertion | UNP Q72JR0 |
| D4 | 8 | LEU | - | insertion | UNP Q72JR0 |
| D4 | 9 | TYR | - | insertion | UNP Q72JR0 |
| D4 | 10 | THR | - | insertion | UNP Q72JR0 |
| D4 | 11 | LYS | - | insertion | UNP Q72JR0 |
| D4 | 12 | ARG | - | insertion | UNP Q72JR0 |
| D4 | 13 | TRP | - | insertion | UNP Q72JR0 |
| D4 | 14 | LEU | - | insertion | UNP Q72JR0 |
| D4 | 15 | ALA | - | insertion | UNP Q72JR0 |
| D4 | 16 | HIS | - | insertion | UNP Q72JR0 |
| D4 | 17 | GLY | - | insertion | UNP Q72JR0 |
| D4 | 18 | GLN | - | insertion | UNP Q72JR0 |
| D4 | 19 | ASP | - | insertion | UNP Q72JR0 |
| D4 | 20 | ARG | - | insertion | UNP Q72JR0 |
| D4 | 21 | ALA | - | insertion | UNP Q72JR0 |
| D4 | 22 | LYS | - | insertion | UNP Q72JR0 |
| D4 | 23 | LYS | - | insertion | UNP Q72JR0 |
| D4 | 24 | GLU | - | insertion | UNP Q72JR0 |
| D4 | 25 | ALA | - | insertion | UNP Q72JR0 |
| D4 | 26 | ASN | - | insertion | UNP Q72JR0 |

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| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------|------------|
| D4 | 27 | VAL | - | insertion | UNP Q72JR0 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 52 | B5 | 52 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 404 | 255 | 79 | 65 | 5 | | | |
| 52 | D5 | 52 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 404 | 255 | 79 | 65 | 5 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 53 | B6 | 44 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 380 | 235 | 77 | 64 | 4 | | | |
| 53 | D6 | 44 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 380 | 235 | 77 | 64 | 4 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 54 | B7 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 418 | 257 | 104 | 55 | 2 | | | |
| 54 | D7 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 418 | 257 | 104 | 55 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 55 | B8 | 63 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 507 | 326 | 101 | 78 | 2 | | | |
| 55 | D8 | 63 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 507 | 326 | 101 | 78 | 2 | | | |

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

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|-----|---------|---------|
| 56 | AA | 428 | Total | Mg | 0 | 0 |
| | | | 428 | 428 | | |
| 56 | AZ | 15 | Total | Mg | 0 | 0 |
| | | | 15 | 15 | | |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56 | AV | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | AY | 26 | Total 26 | Mg 26 | 0 | 0 |
| 56 | AB | 7 | Total 7 | Mg 7 | 0 | 0 |
| 56 | AC | 4 | Total 4 | Mg 4 | 0 | 0 |
| 56 | AD | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | AE | 8 | Total 8 | Mg 8 | 0 | 0 |
| 56 | AF | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | AG | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | AH | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | AI | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | AJ | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | AK | 7 | Total 7 | Mg 7 | 0 | 0 |
| 56 | AL | 4 | Total 4 | Mg 4 | 0 | 0 |
| 56 | AM | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | AN | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | AO | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | AQ | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | AR | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | AT | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | AX | 14 | Total 14 | Mg 14 | 0 | 0 |
| 56 | BA | 923 | Total 923 | Mg 923 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|----------|---------|---------|
| 56 | BB | 35 | Total 35 | Mg 35 | 0 | 0 |
| 56 | BD | 7 | Total 7 | Mg 7 | 0 | 0 |
| 56 | BE | 6 | Total 6 | Mg 6 | 0 | 0 |
| 56 | BF | 6 | Total 6 | Mg 6 | 0 | 0 |
| 56 | BG | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | BH | 4 | Total 4 | Mg 4 | 0 | 0 |
| 56 | BI | 6 | Total 6 | Mg 6 | 0 | 0 |
| 56 | BK | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | BN | 4 | Total 4 | Mg 4 | 0 | 0 |
| 56 | BO | 5 | Total 5 | Mg 5 | 0 | 0 |
| 56 | BP | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | BQ | 6 | Total 6 | Mg 6 | 0 | 0 |
| 56 | BR | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | BS | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | BT | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | BU | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | BV | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | BW | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | BX | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | BY | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | BZ | 1 | Total 1 | Mg 1 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56 | B0 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | B1 | 7 | Total 7 | Mg 7 | 0 | 0 |
| 56 | B2 | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | B4 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | B5 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | B6 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | B8 | 4 | Total 4 | Mg 4 | 0 | 0 |
| 56 | CA | 222 | Total 222 | Mg 222 | 0 | 0 |
| 56 | CZ | 14 | Total 14 | Mg 14 | 0 | 0 |
| 56 | CY | 14 | Total 14 | Mg 14 | 0 | 0 |
| 56 | CB | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | CC | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | CF | 5 | Total 5 | Mg 5 | 0 | 0 |
| 56 | CG | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | CH | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | CK | 3 | Total 3 | Mg 3 | 0 | 0 |
| 56 | CL | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | CO | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | CQ | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | CS | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | CT | 1 | Total 1 | Mg 1 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56 | DA | 491 | Total 491 | Mg 491 | 0 | 0 |
| 56 | DB | 12 | Total 12 | Mg 12 | 0 | 0 |
| 56 | DD | 9 | Total 9 | Mg 9 | 0 | 0 |
| 56 | DE | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DF | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DG | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | DI | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DN | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DO | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | DP | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DQ | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | DR | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DT | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DU | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | DY | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | D1 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 56 | D6 | 1 | Total 1 | Mg 1 | 0 | 0 |
| 56 | D8 | 1 | Total 1 | Mg 1 | 0 | 0 |

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

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 57 | AD | 1 | Total 1 | Zn 1 | 0 | 0 |

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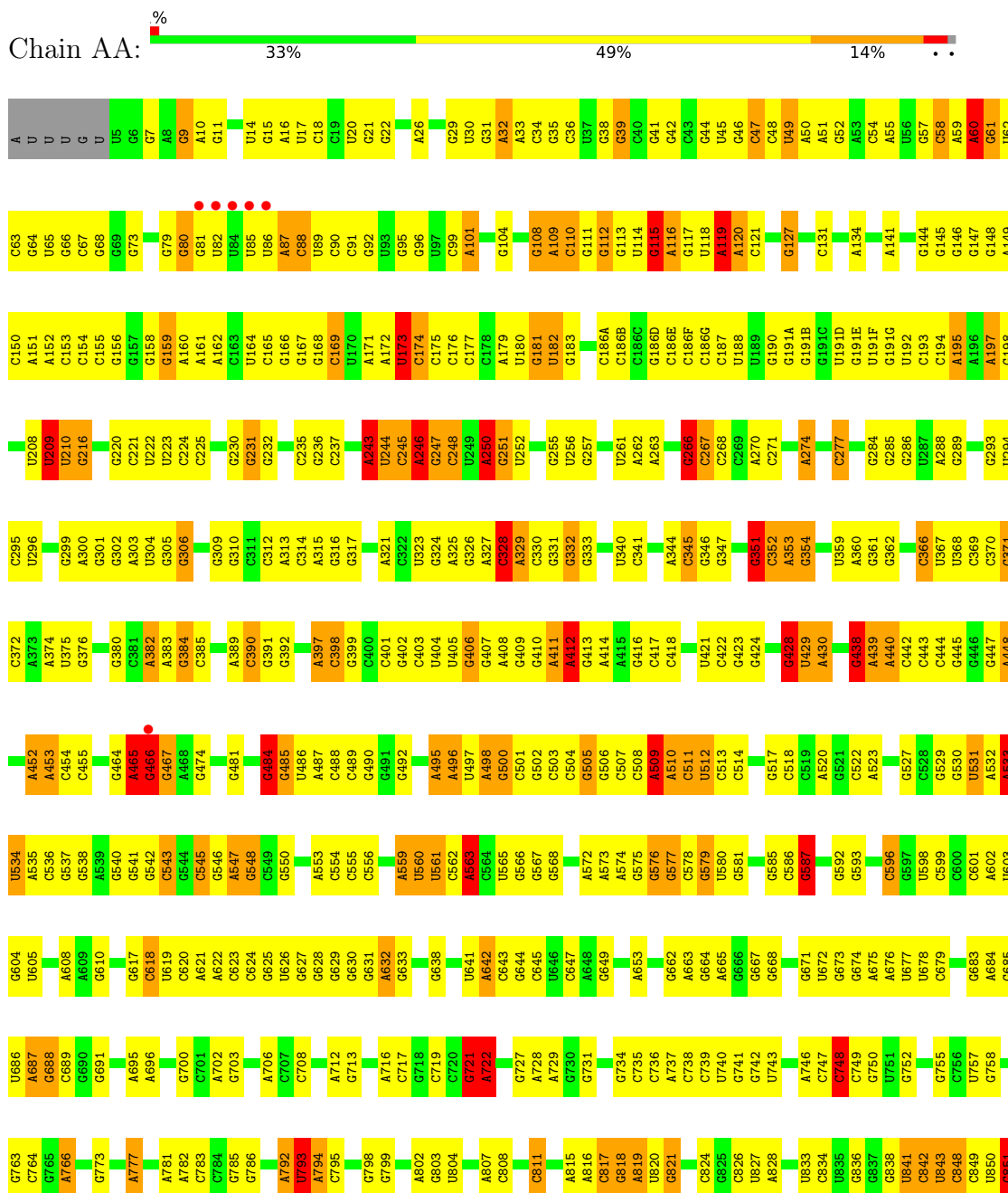
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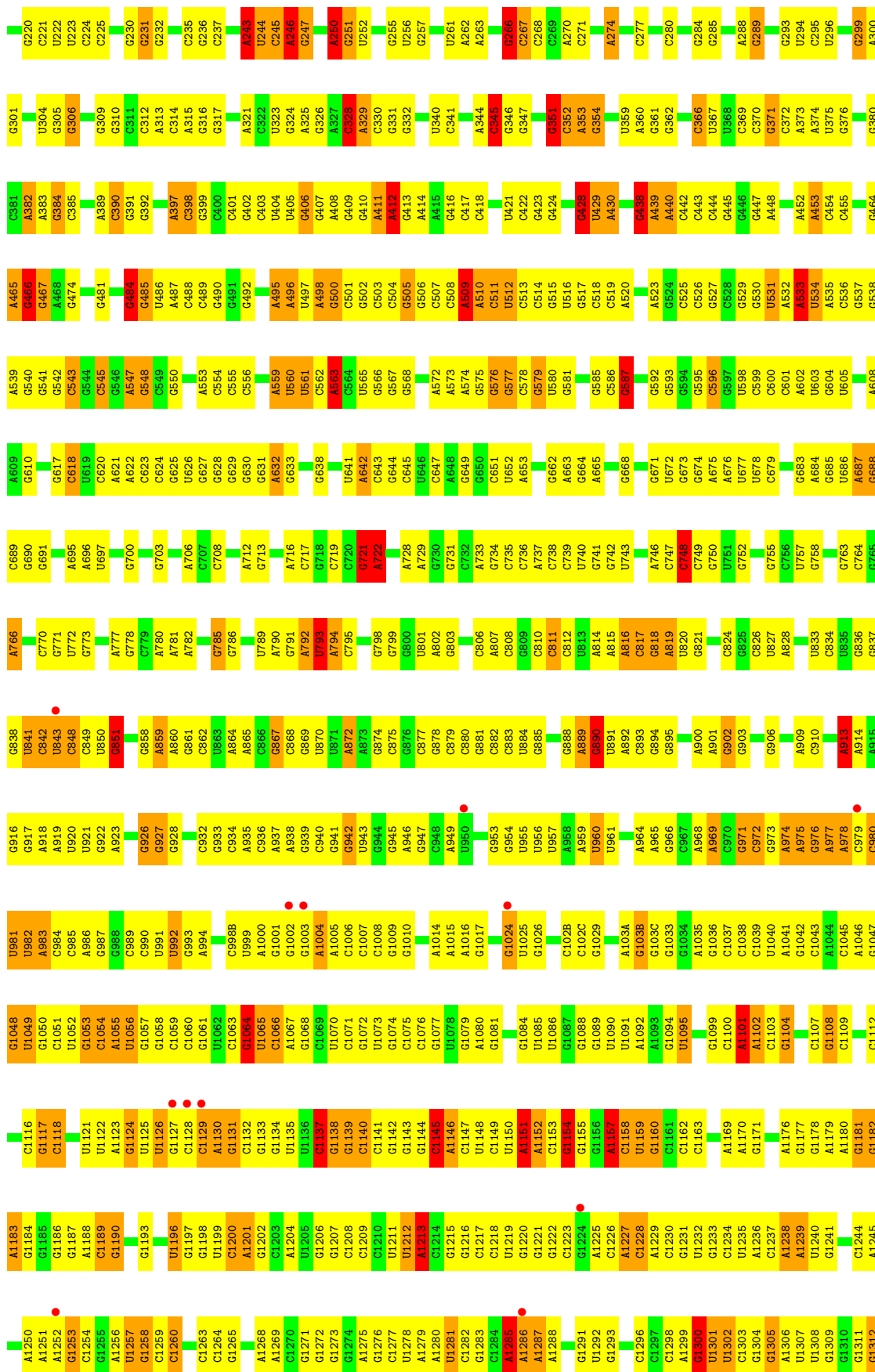
| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|------------|--------------|-----------------|--------------|---------|----------------|----------------|
| 57 | AN | 1 | Total 1 | Zn 1 | 0 | 0 |
| 57 | CD | 1 | Total 1 | Zn 1 | 0 | 0 |
| 57 | CN | 1 | Total 1 | Zn 1 | 0 | 0 |

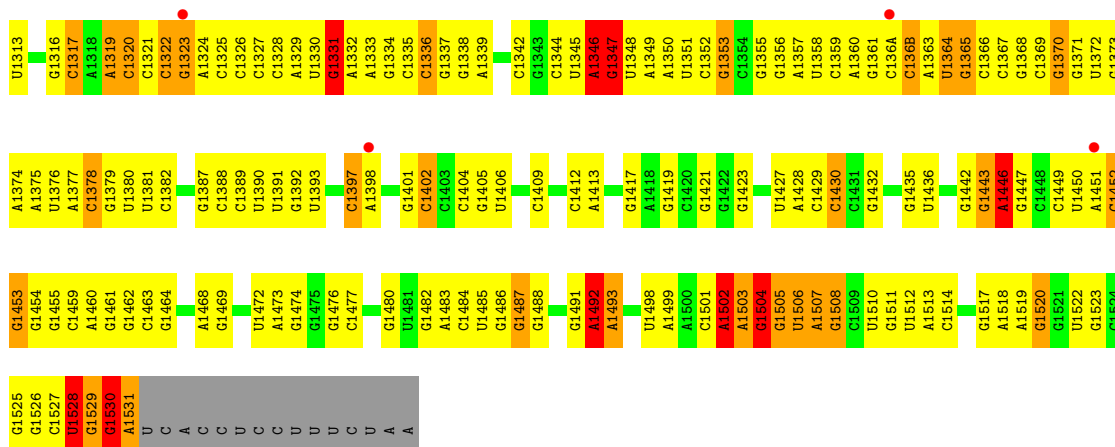
3 Residue-property plots

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.

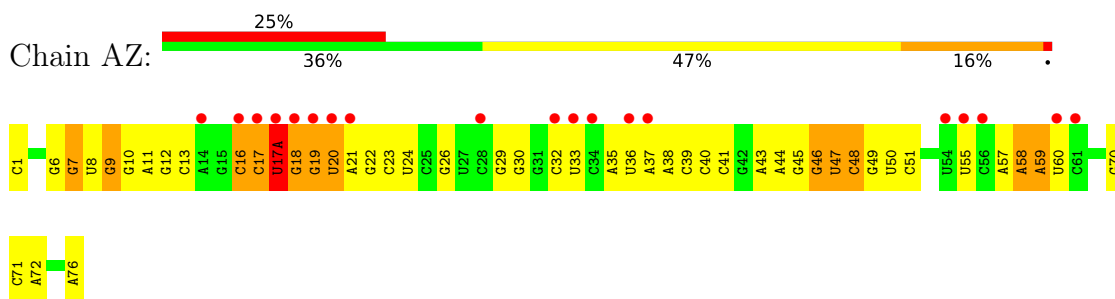
- Molecule 1: 16S rRNA



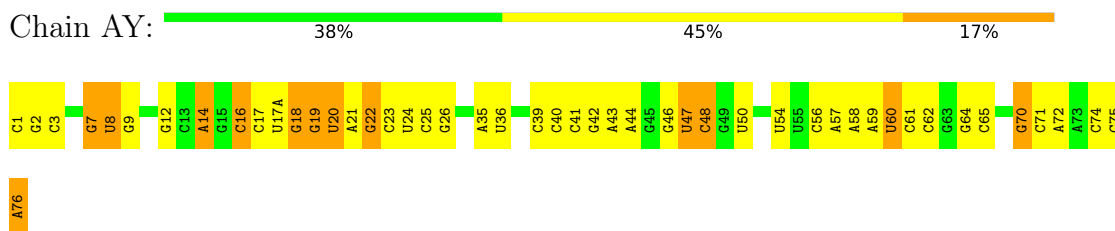




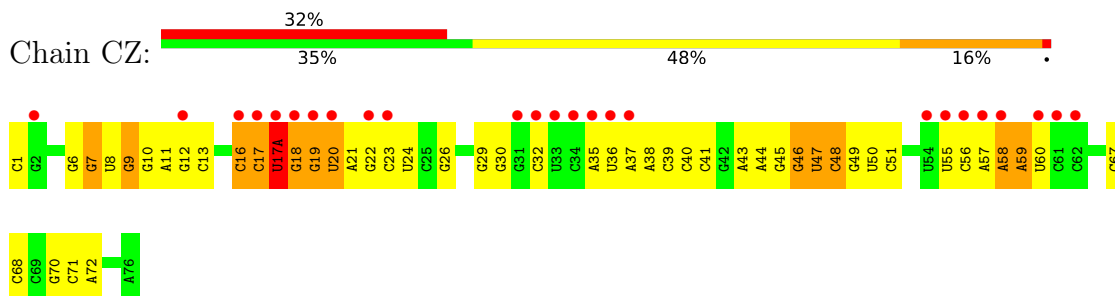
● Molecule 2: P AND E-SITE TRNA(FMET)



● Molecule 2: P AND E-SITE TRNA(FMET)

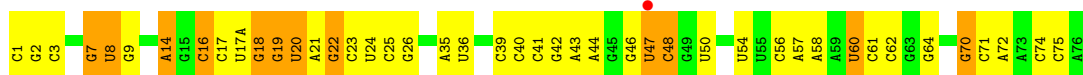


● Molecule 2: P AND E-SITE TRNA(FMET)



● Molecule 2: P AND E-SITE TRNA(FMET)

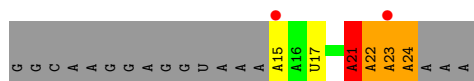




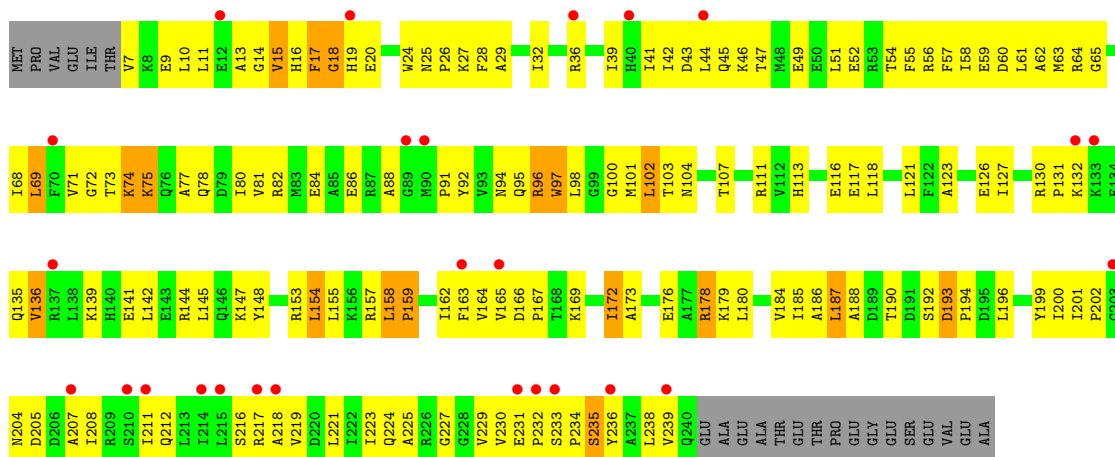
● Molecule 3: MRNA



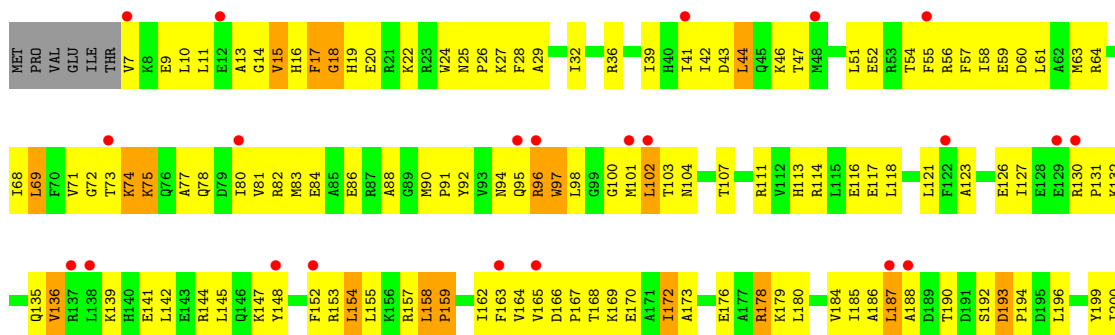
● Molecule 3: MRNA



● Molecule 4: 30S ribosomal protein S2

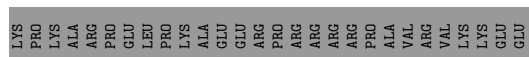
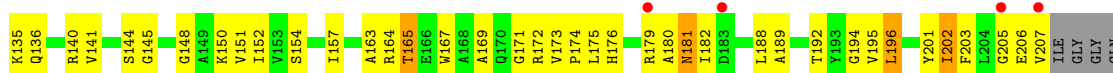
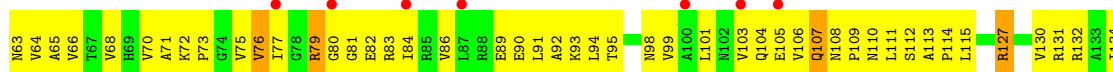
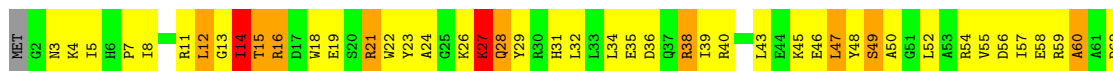


● Molecule 4: 30S ribosomal protein S2

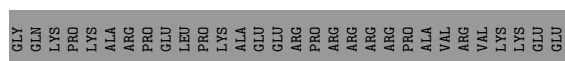
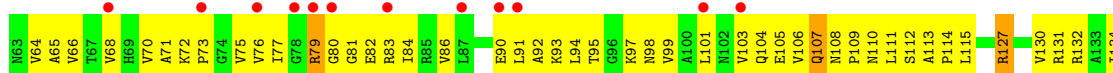




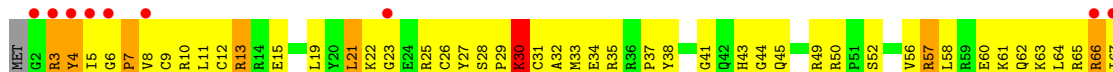
- Molecule 5: 30S ribosomal protein S3

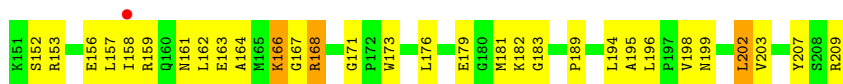


- Molecule 5: 30S ribosomal protein S3

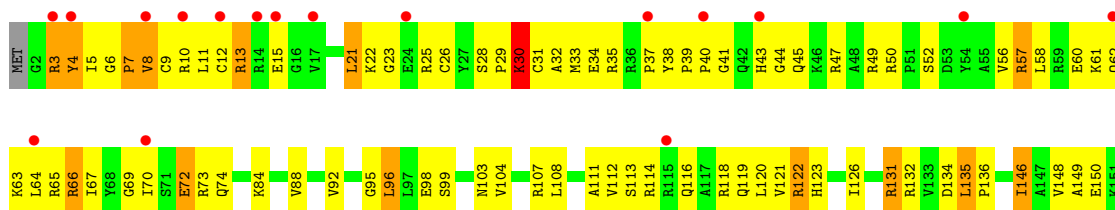


- Molecule 6: 30S ribosomal protein S4

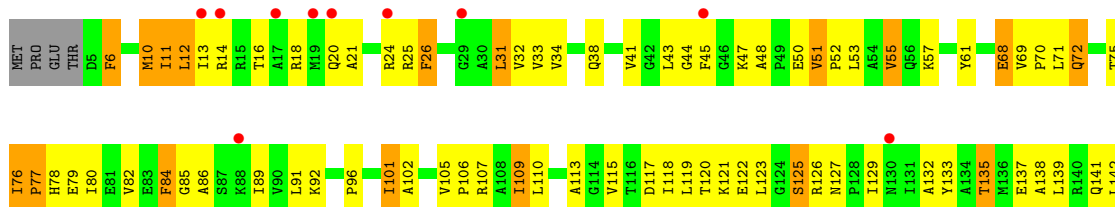
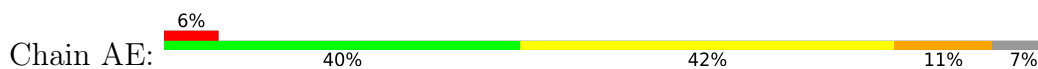




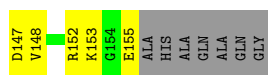
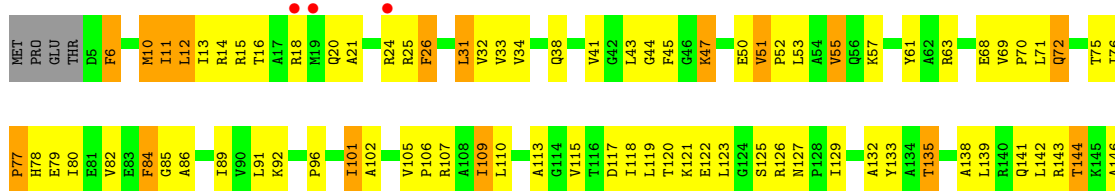
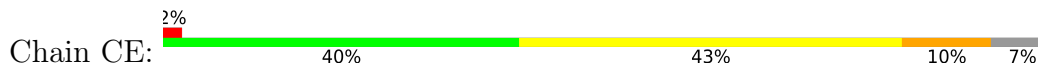
• Molecule 6: 30S ribosomal protein S4



• Molecule 7: 30S ribosomal protein S5

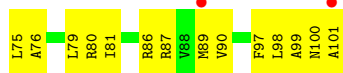
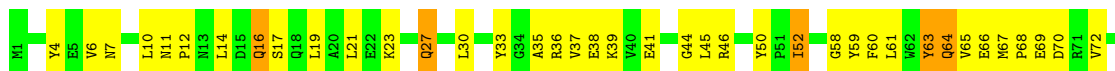


• Molecule 7: 30S ribosomal protein S5

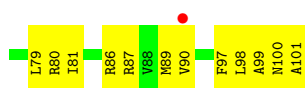
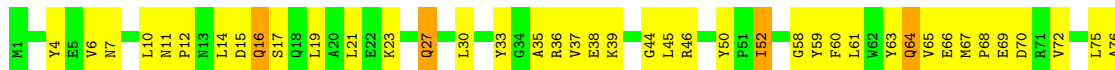


• Molecule 8: 30S ribosomal protein S6

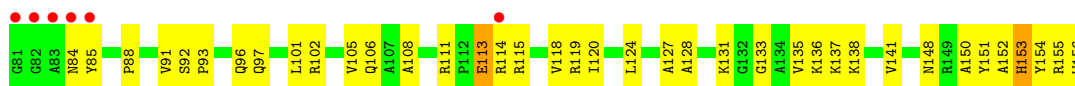




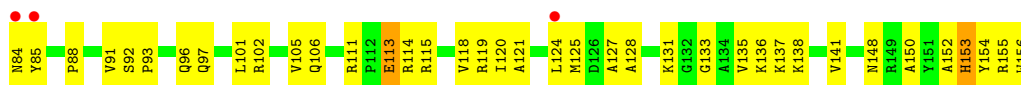
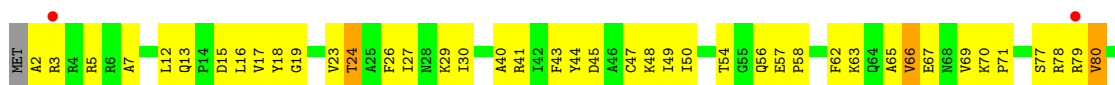
- Molecule 8: 30S ribosomal protein S6



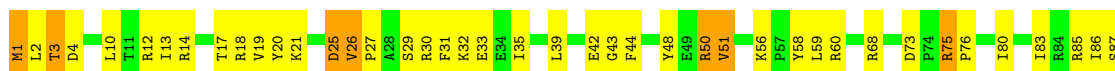
- Molecule 9: 30S ribosomal protein S7



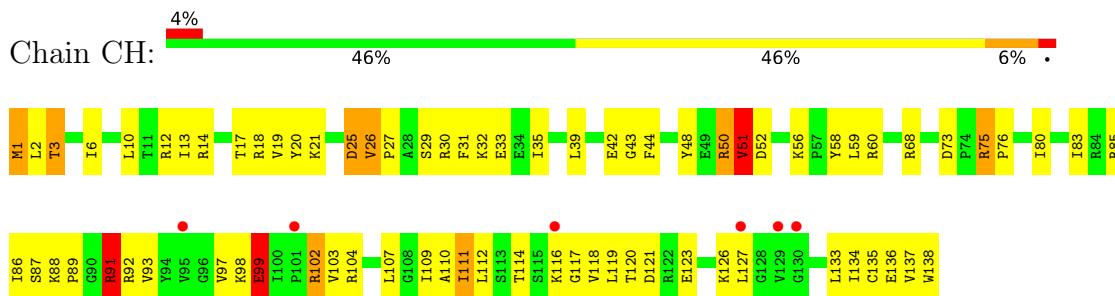
- Molecule 9: 30S ribosomal protein S7



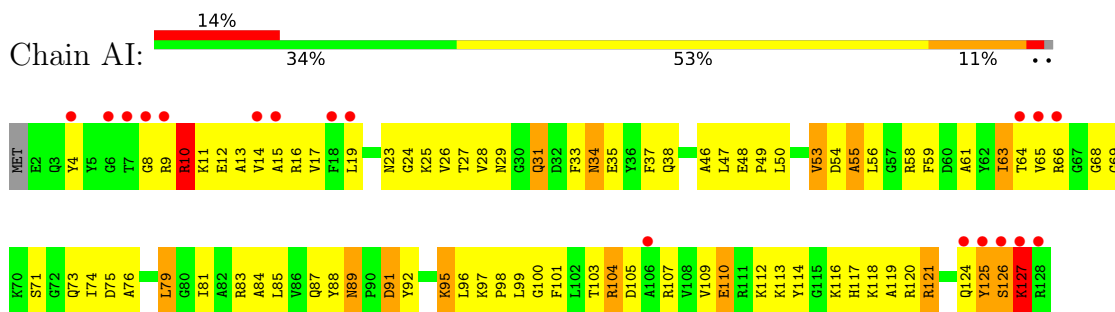
- Molecule 10: 30S ribosomal protein S8



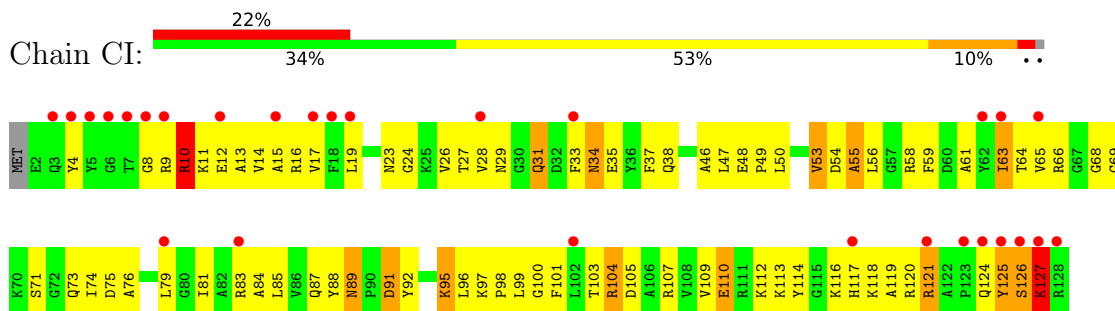
• Molecule 10: 30S ribosomal protein S8



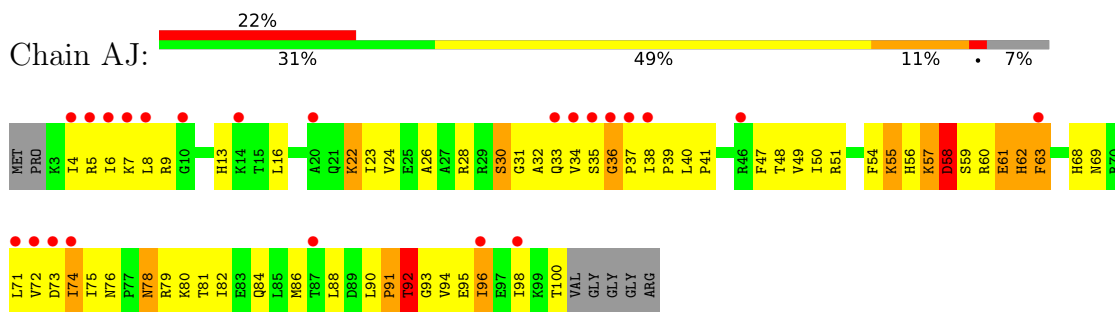
• Molecule 11: 30S ribosomal protein S9



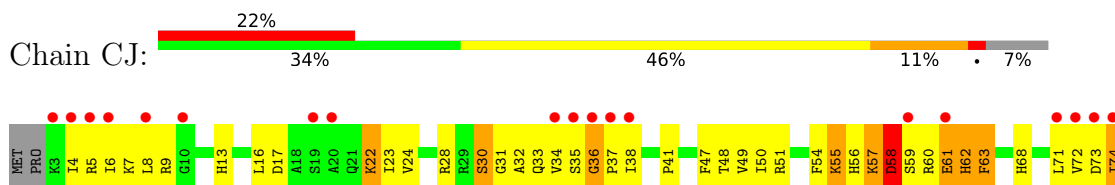
• Molecule 11: 30S ribosomal protein S9

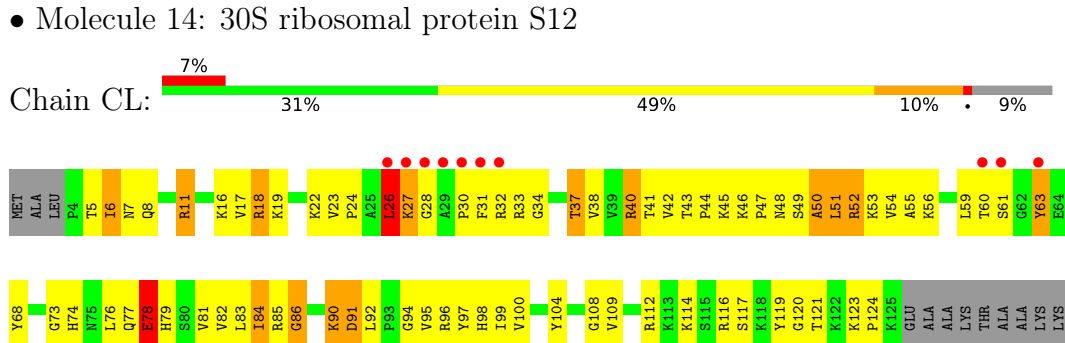
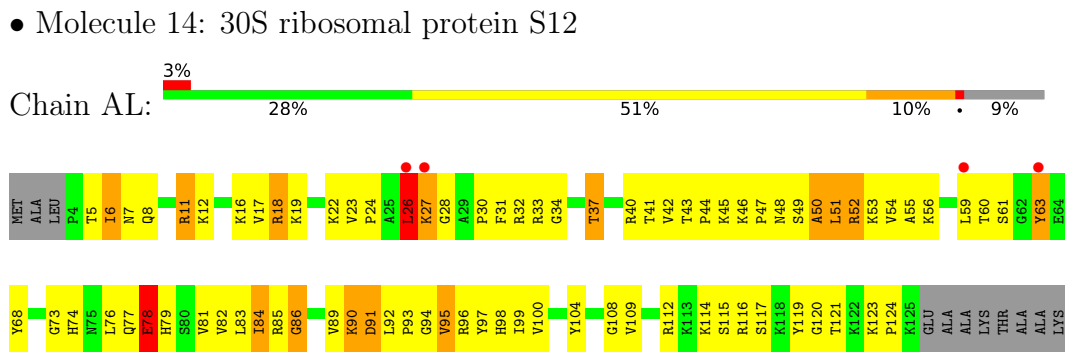
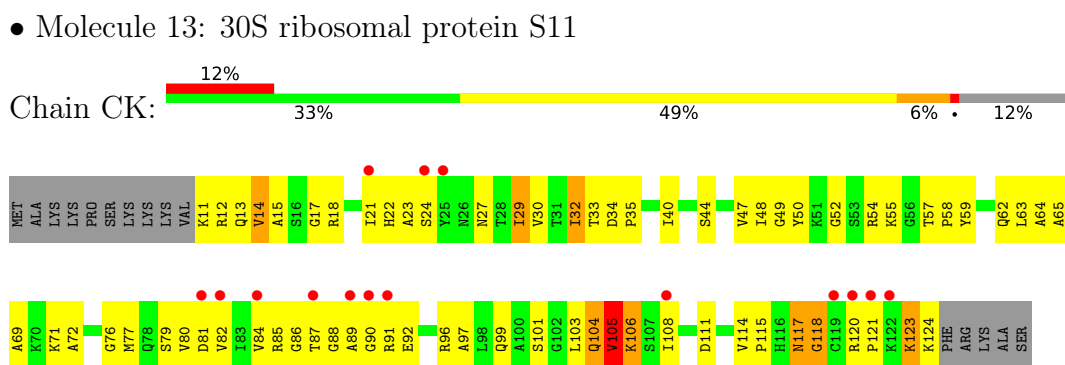
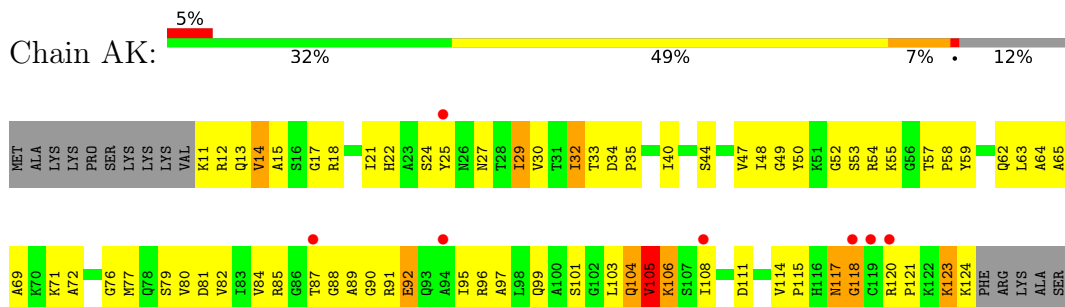
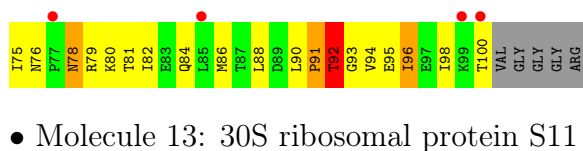


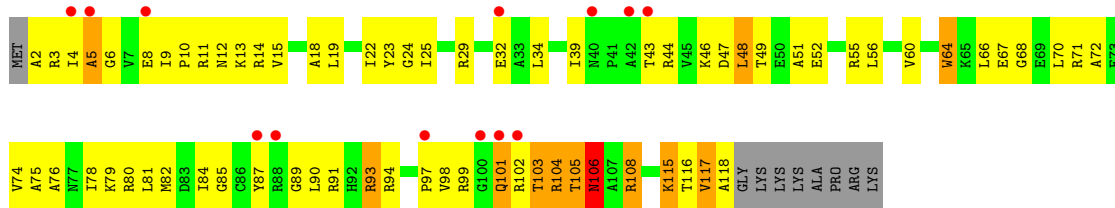
• Molecule 12: 30S ribosomal protein S10



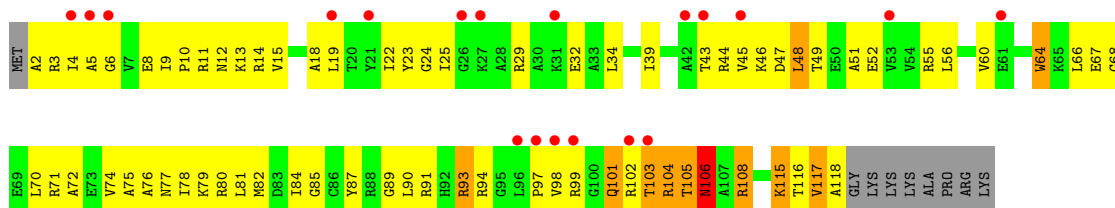
• Molecule 12: 30S ribosomal protein S10







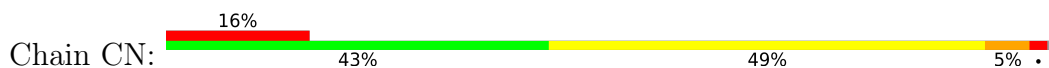
• Molecule 15: 30S ribosomal protein S13



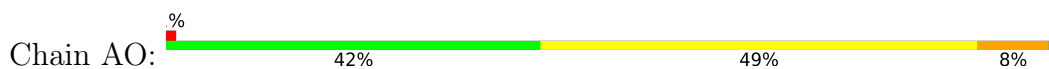
• Molecule 16: 30S ribosomal protein S14



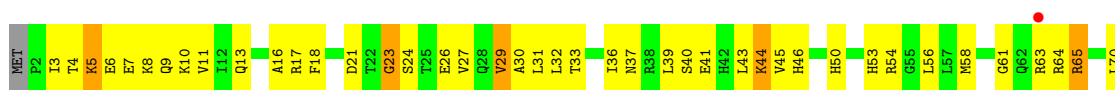
• Molecule 16: 30S ribosomal protein S14



• Molecule 17: 30S ribosomal protein S15

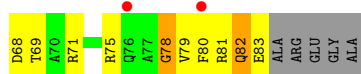
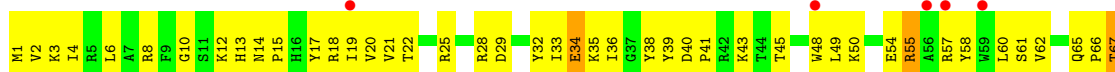


• Molecule 17: 30S ribosomal protein S15

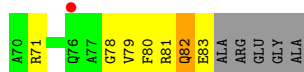
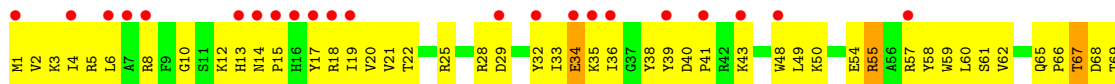




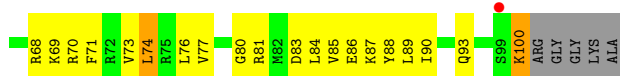
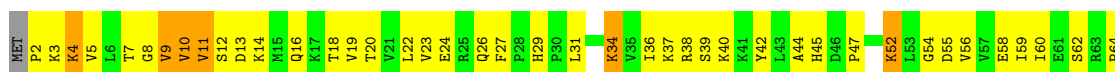
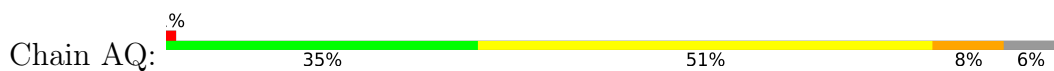
- Molecule 18: 30S ribosomal protein S16



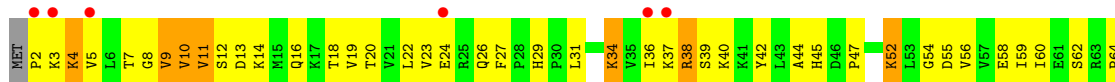
- Molecule 18: 30S ribosomal protein S16



- Molecule 19: 30S ribosomal protein S17

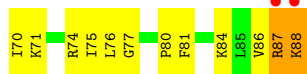
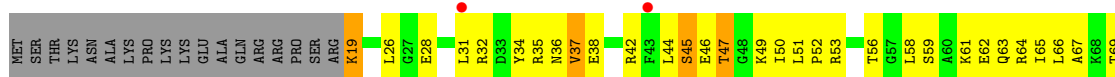


- Molecule 19: 30S ribosomal protein S17

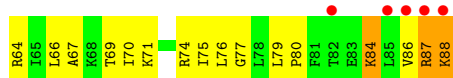


- Molecule 20: 30S ribosomal protein S18

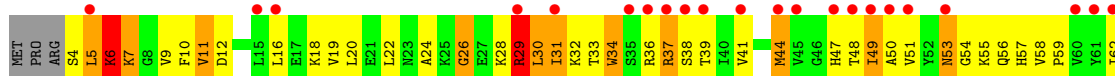
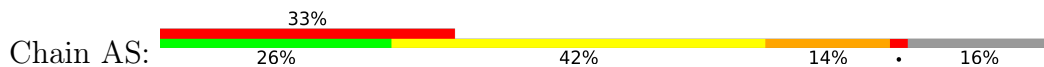




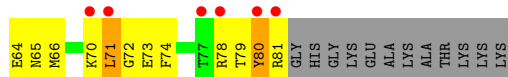
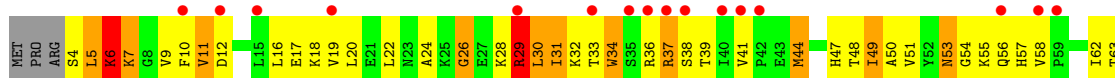
• Molecule 20: 30S ribosomal protein S18



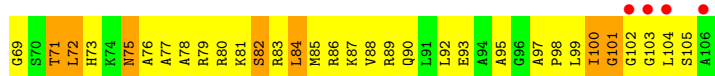
• Molecule 21: 30S ribosomal protein S19



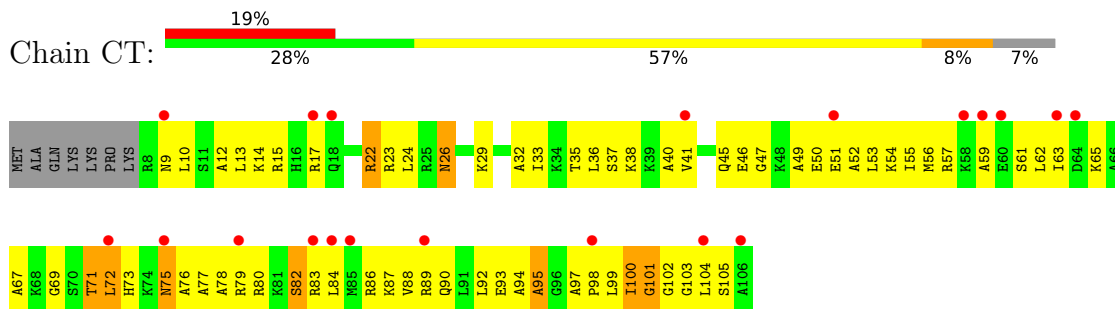
• Molecule 21: 30S ribosomal protein S19



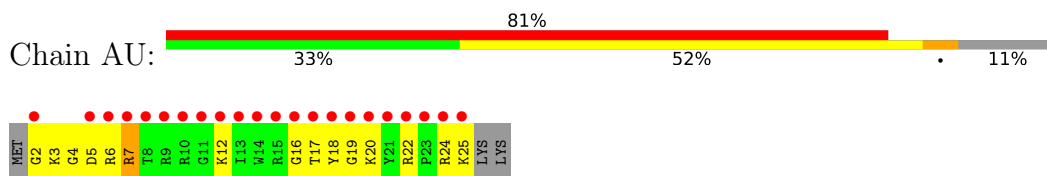
• Molecule 22: 30S ribosomal protein S20



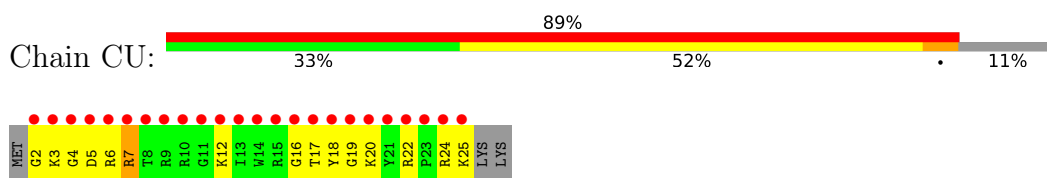
• Molecule 22: 30S ribosomal protein S20



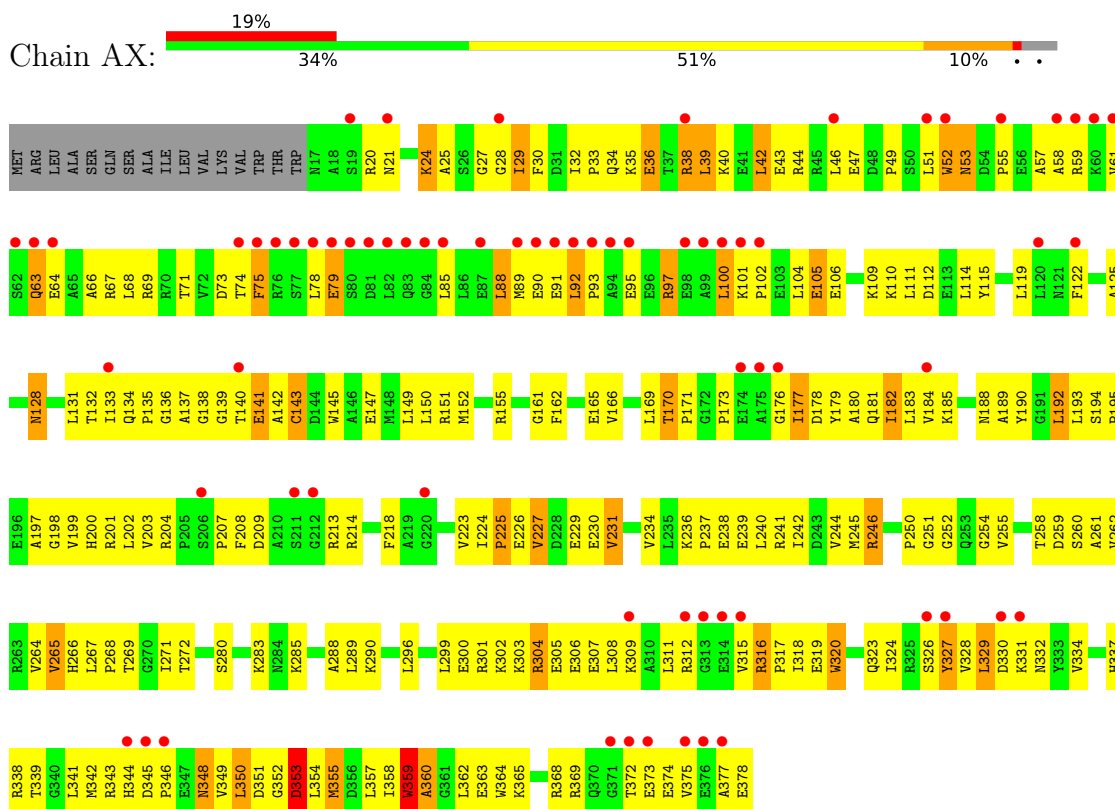
• Molecule 23: 30S ribosomal protein Thx



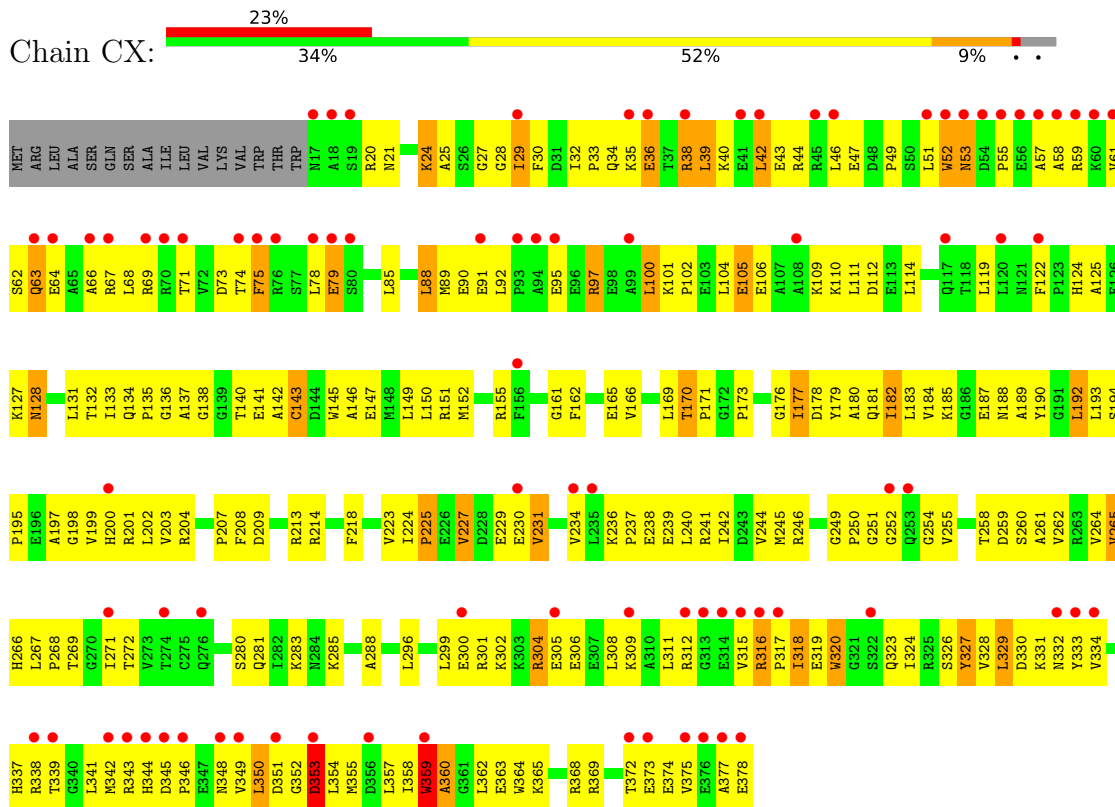
• Molecule 23: 30S ribosomal protein Thx



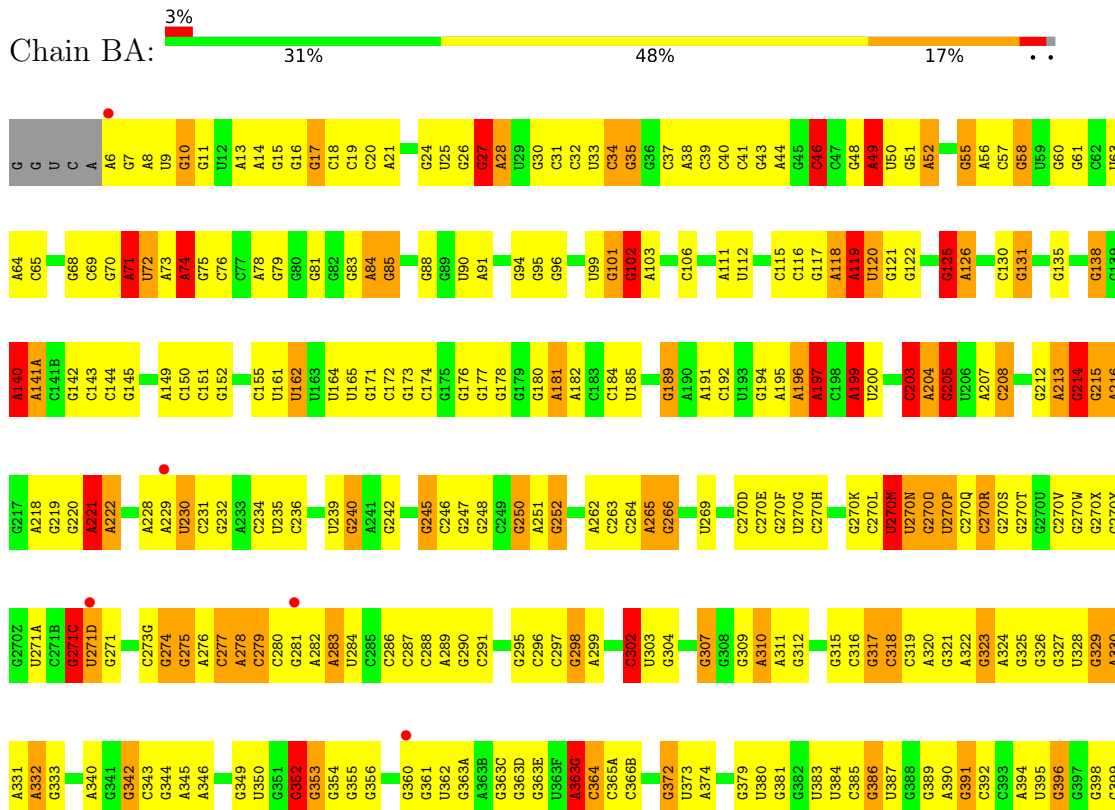
• Molecule 24: Bacterial peptide chain release factor 2 (RF-2)

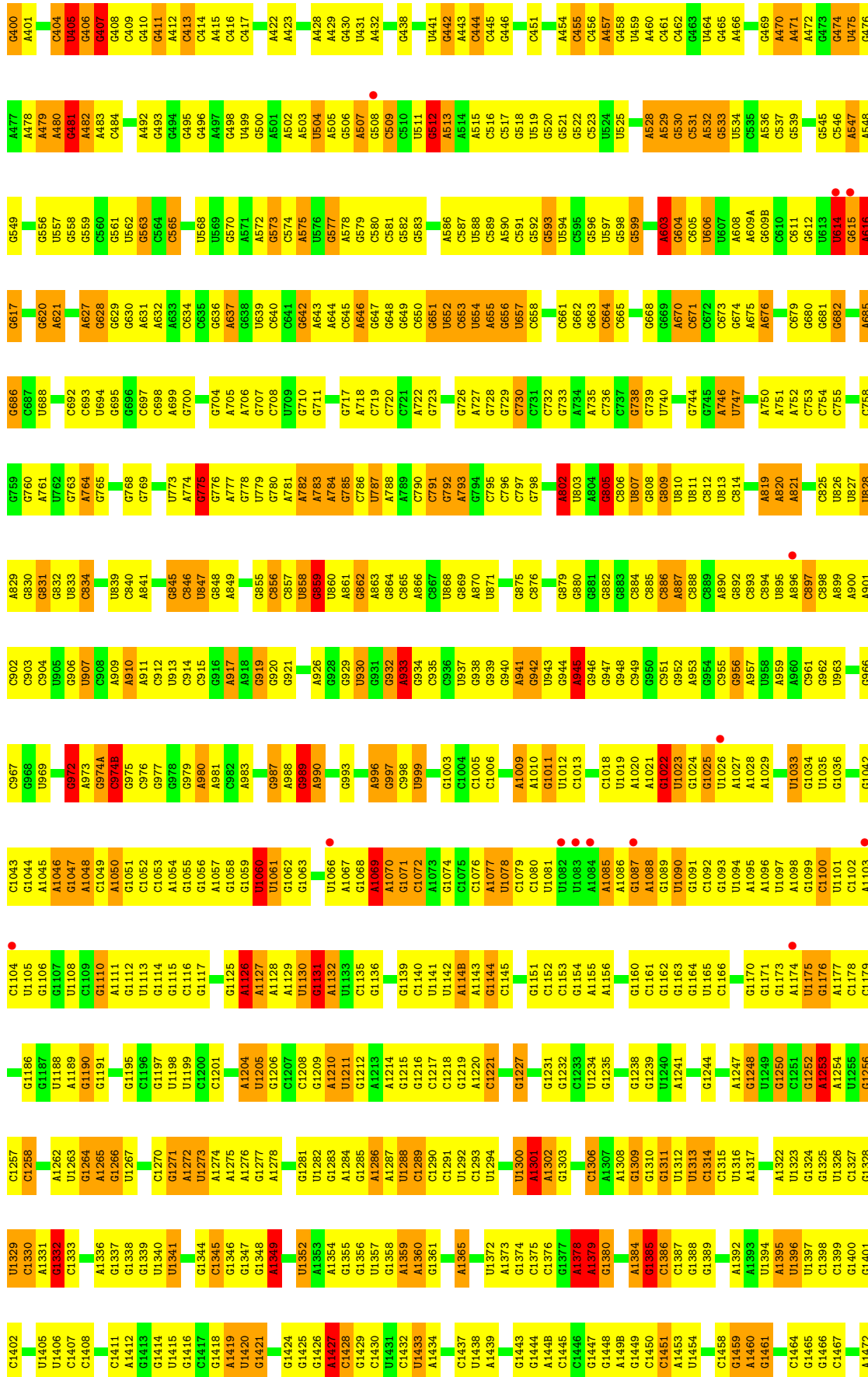


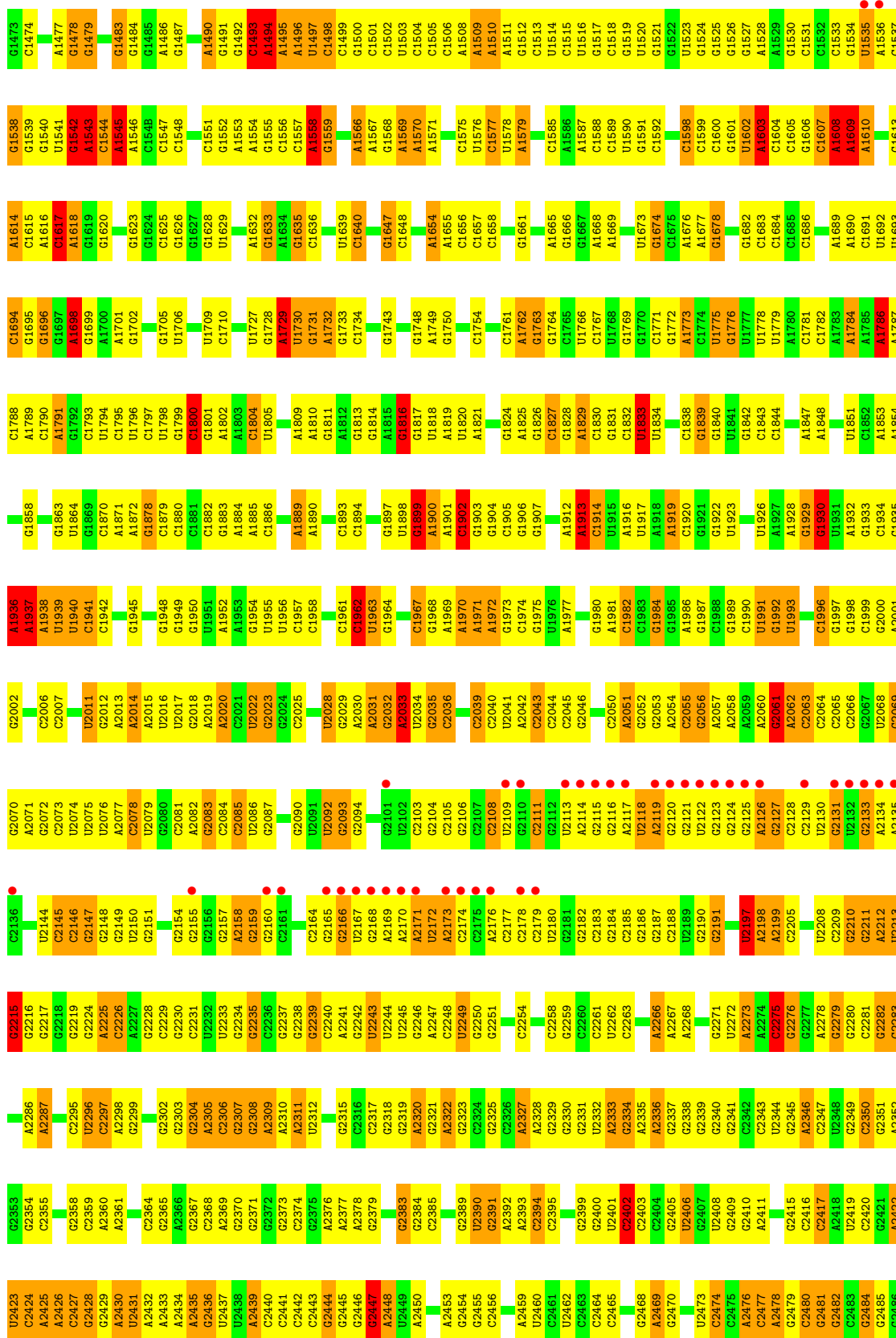
- Molecule 24: Bacterial peptide chain release factor 2 (RF-2)

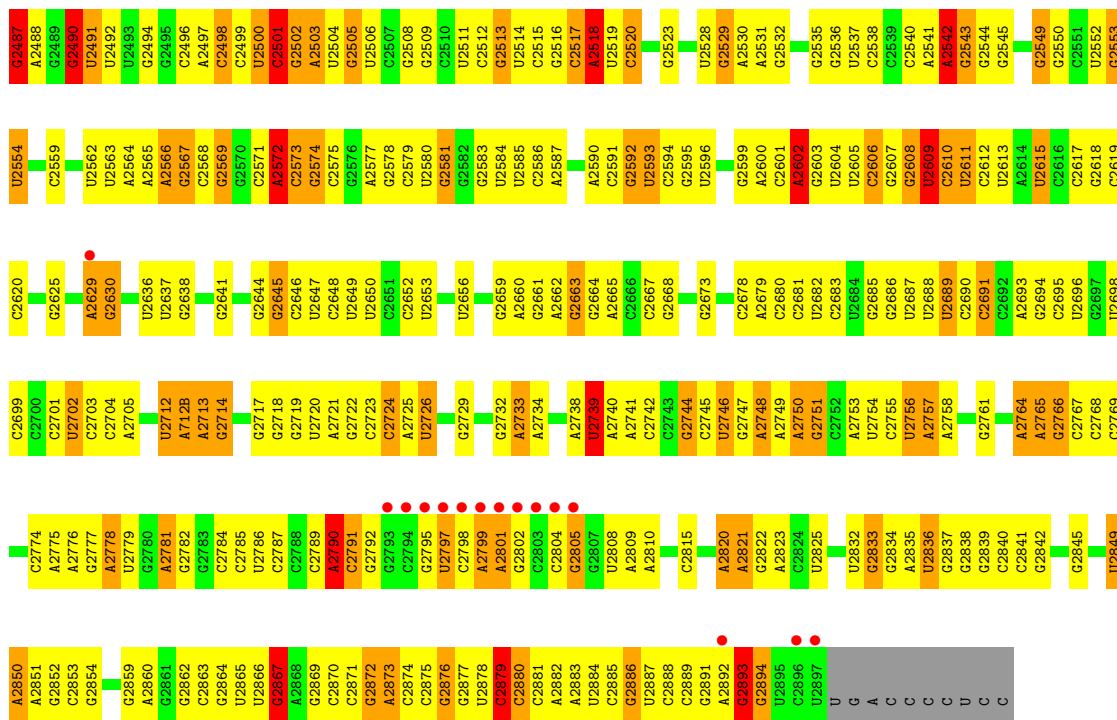


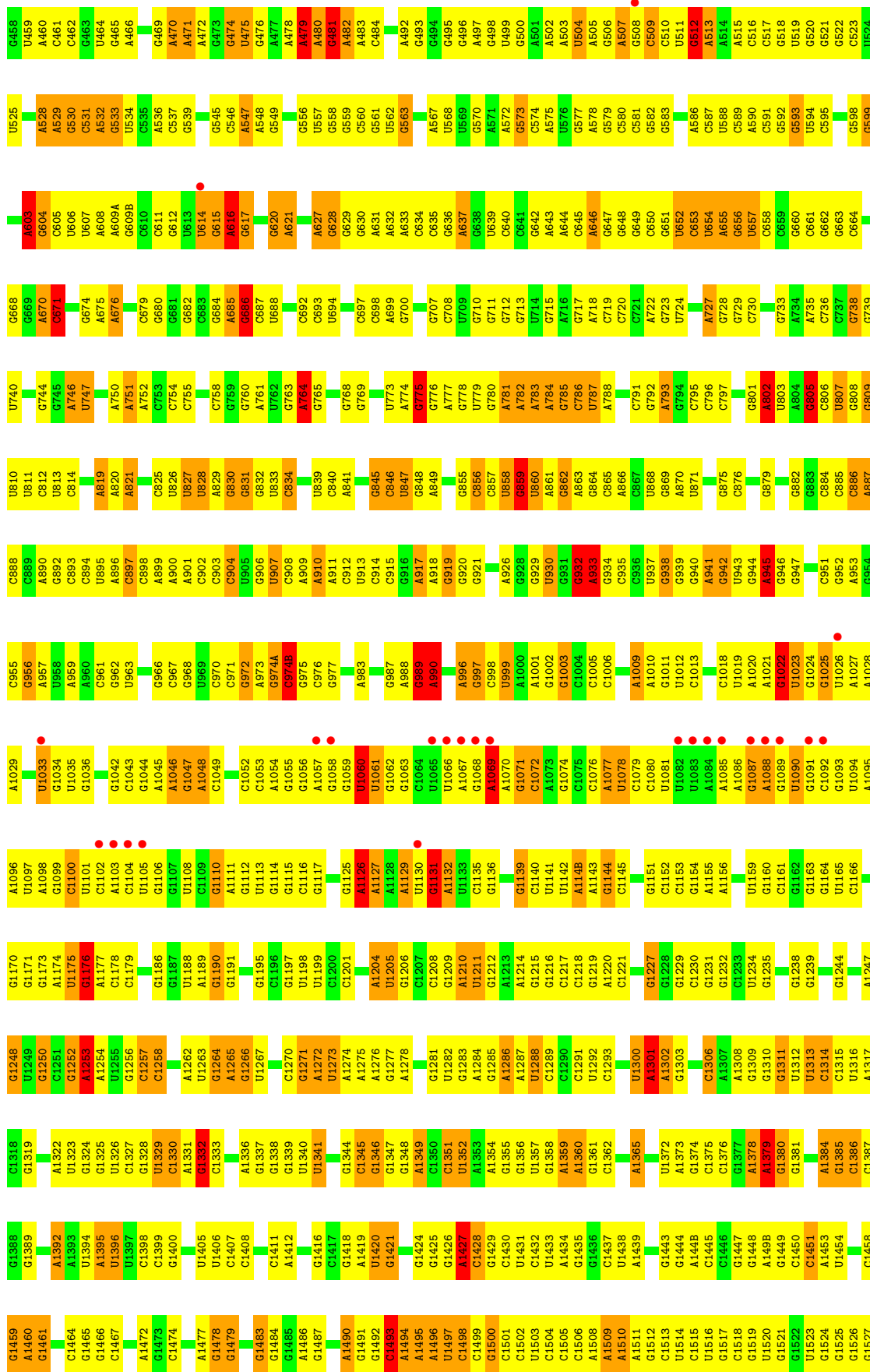
- Molecule 25: 23S RRNA

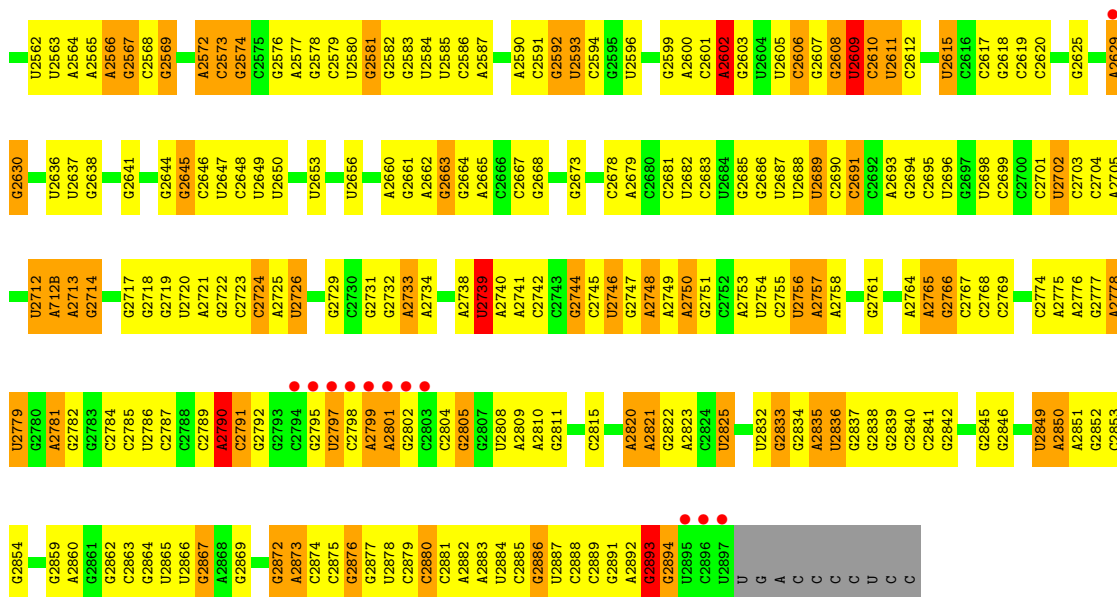




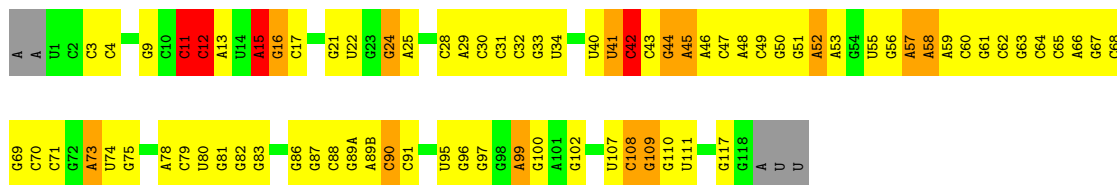




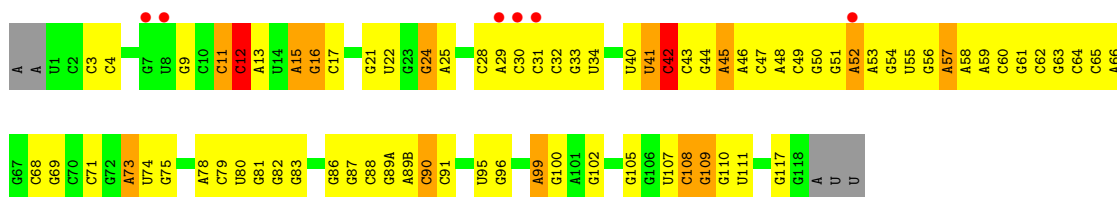




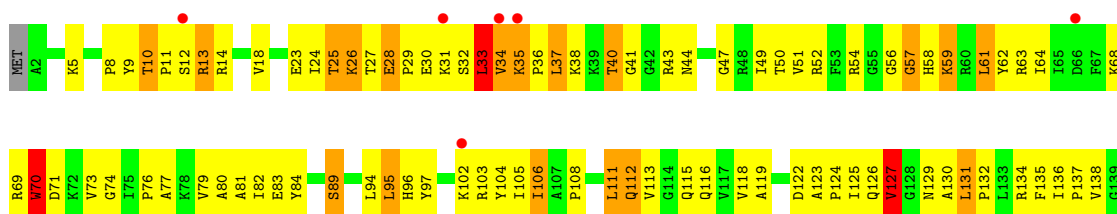
• Molecule 26: 5S rRNA

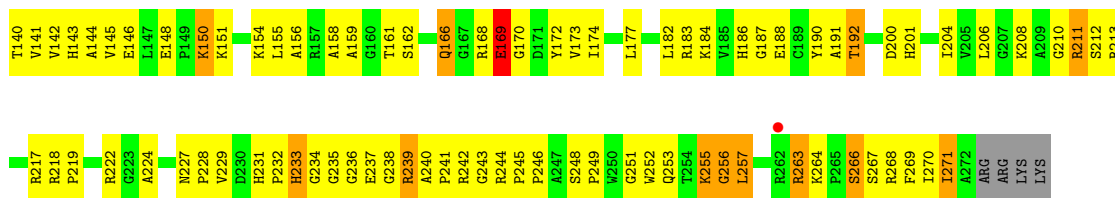


• Molecule 26: 5S rRNA

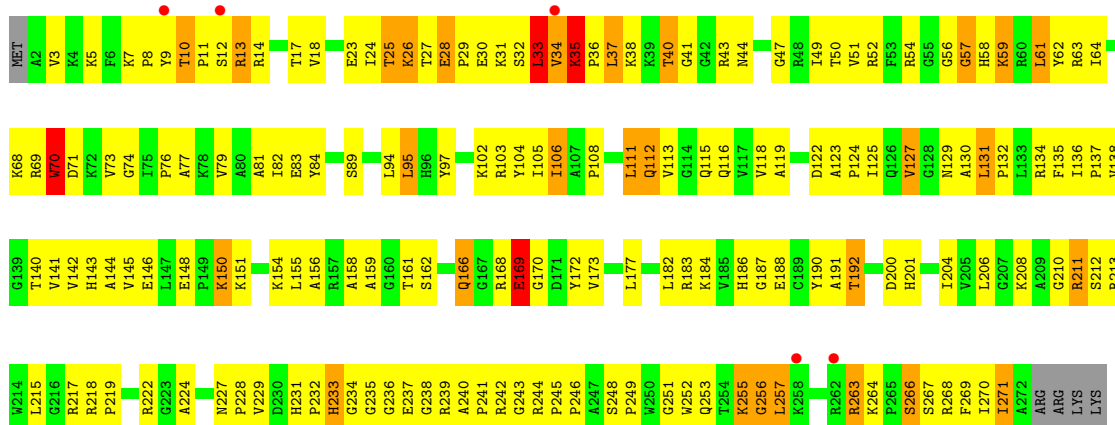


• Molecule 27: 50S ribosomal protein L2

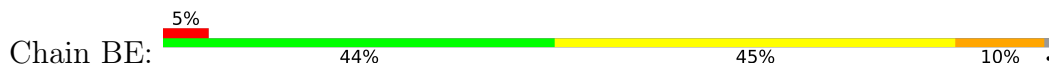




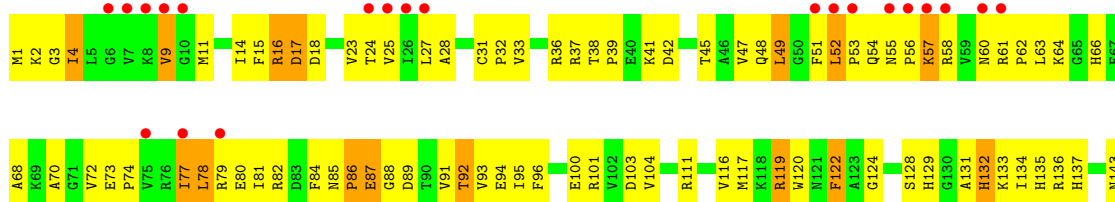
• Molecule 27: 50S ribosomal protein L2



• Molecule 28: 50S ribosomal protein L3

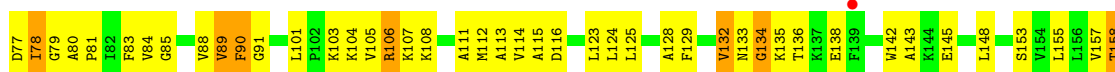
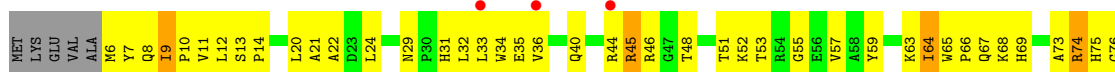


• Molecule 28: 50S ribosomal protein L3

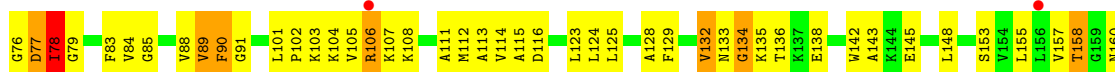
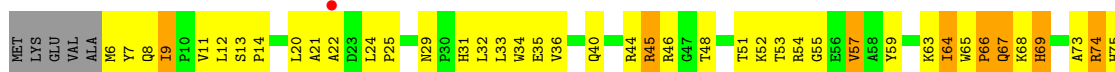




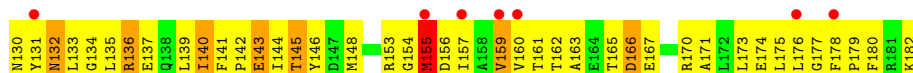
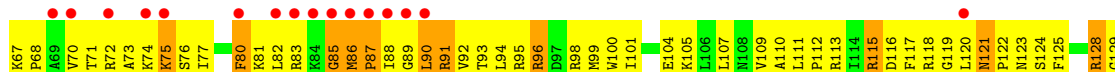
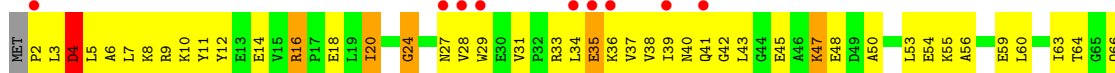
• Molecule 29: 50S ribosomal protein L4



• Molecule 29: 50S ribosomal protein L4

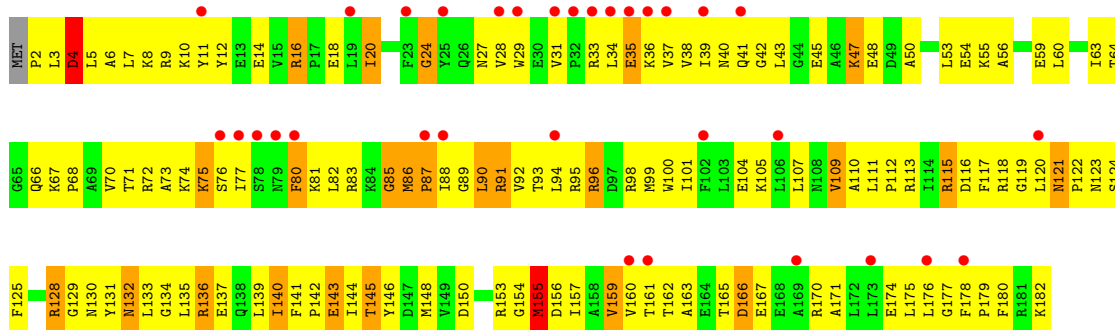


• Molecule 30: 50S ribosomal protein L5

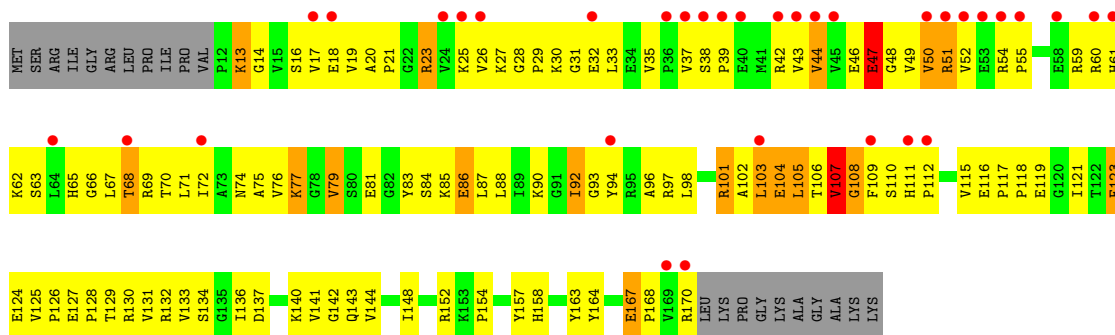


• Molecule 30: 50S ribosomal protein L5

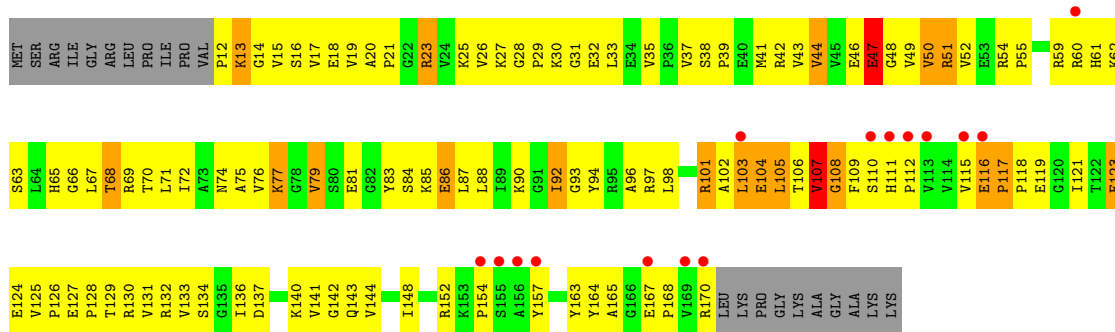




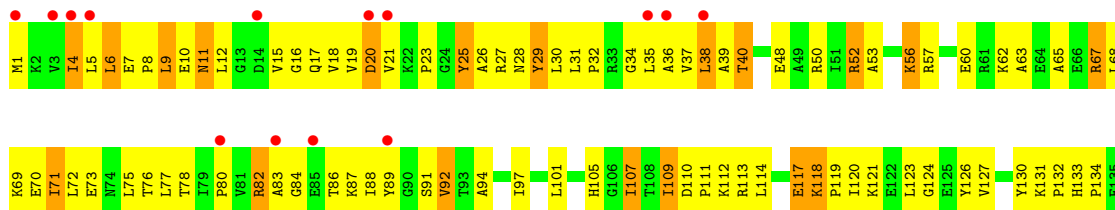
• Molecule 31: 50S ribosomal protein L6



• Molecule 31: 50S ribosomal protein L6

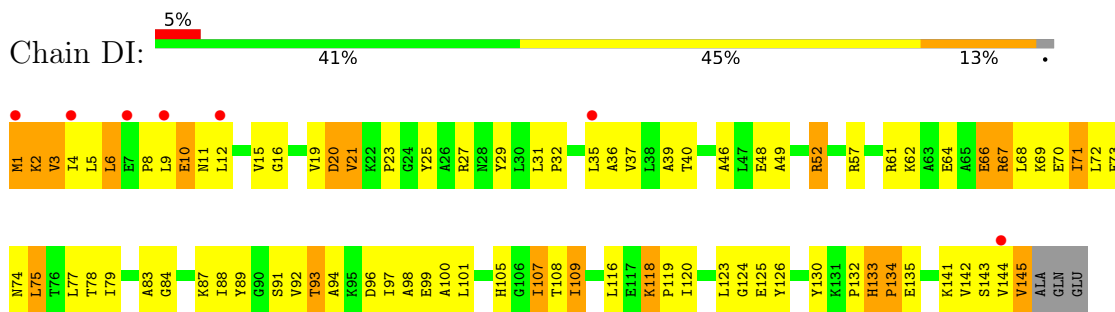


• Molecule 32: 50S ribosomal protein L9

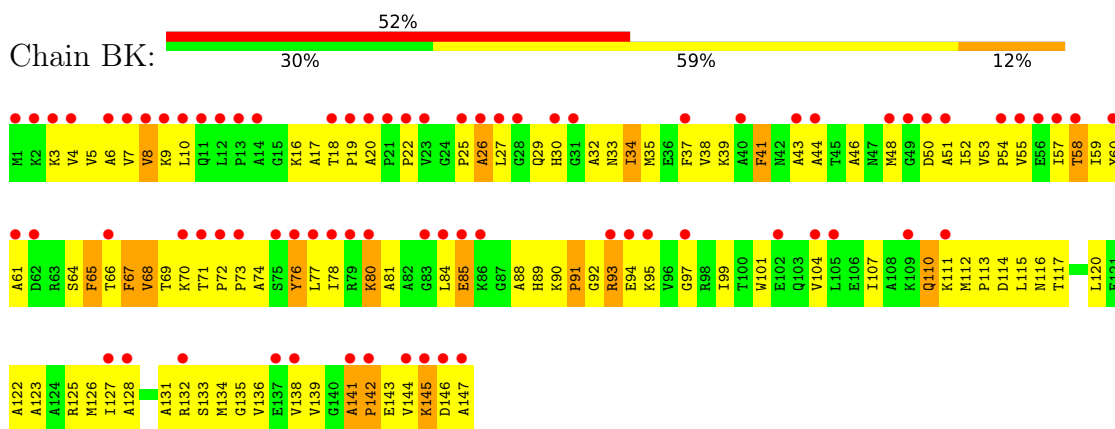




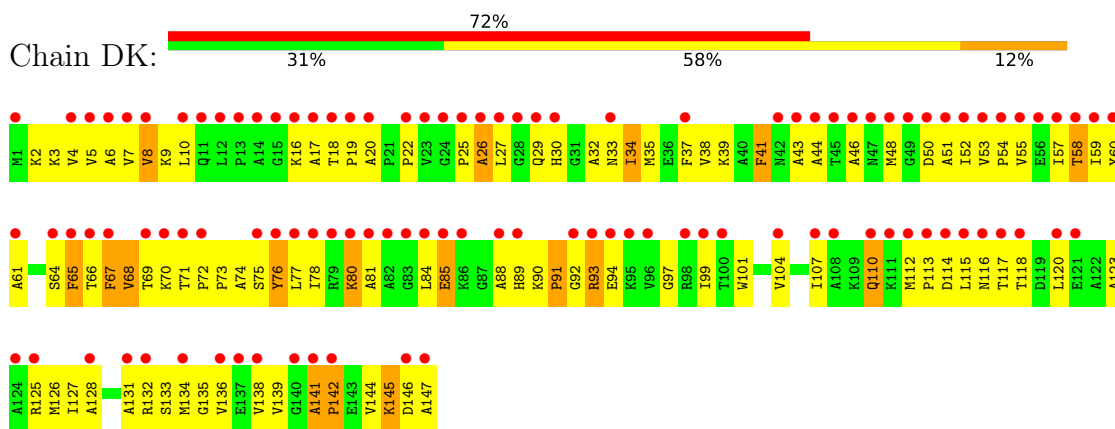
• Molecule 32: 50S ribosomal protein L9



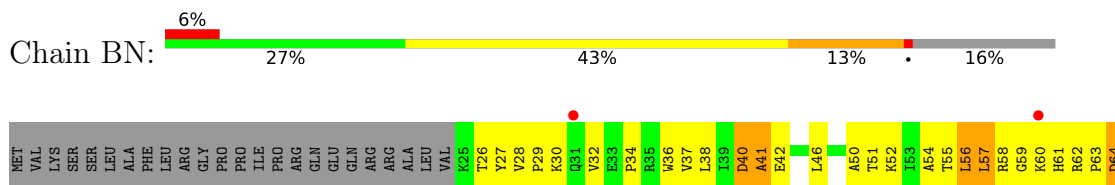
• Molecule 33: 50S ribosomal protein L11

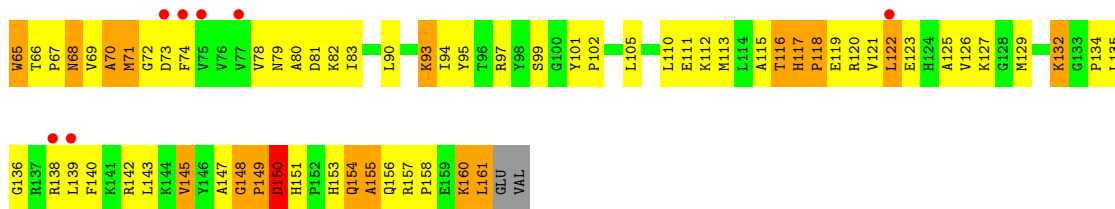


• Molecule 33: 50S ribosomal protein L11

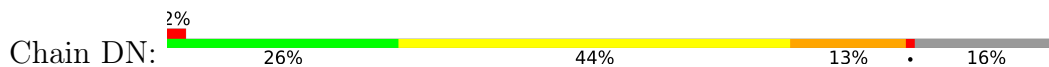


• Molecule 34: 50S ribosomal protein L13





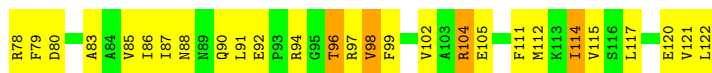
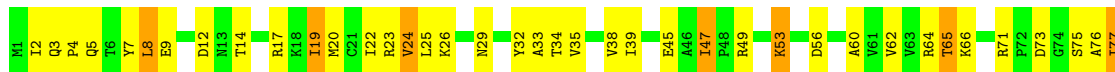
• Molecule 34: 50S ribosomal protein L13



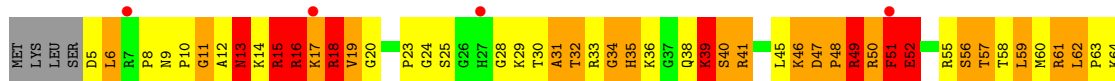
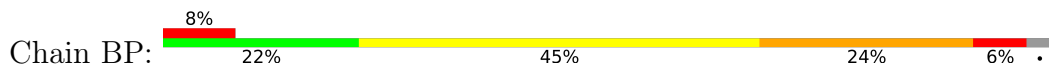
• Molecule 35: 50S ribosomal protein L14

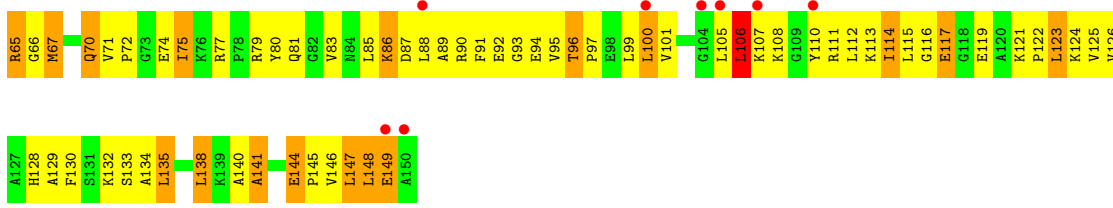


• Molecule 35: 50S ribosomal protein L14

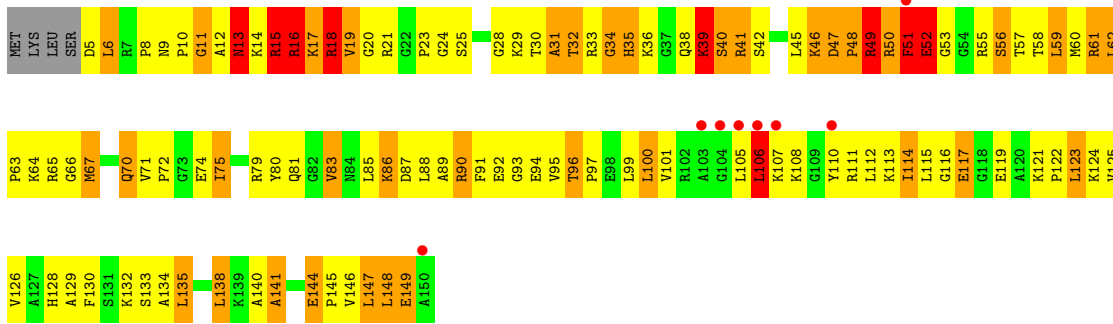
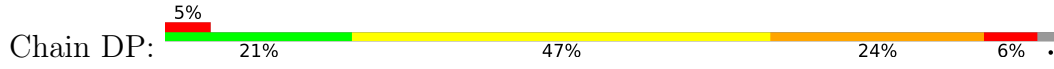


• Molecule 36: 50S ribosomal protein L15

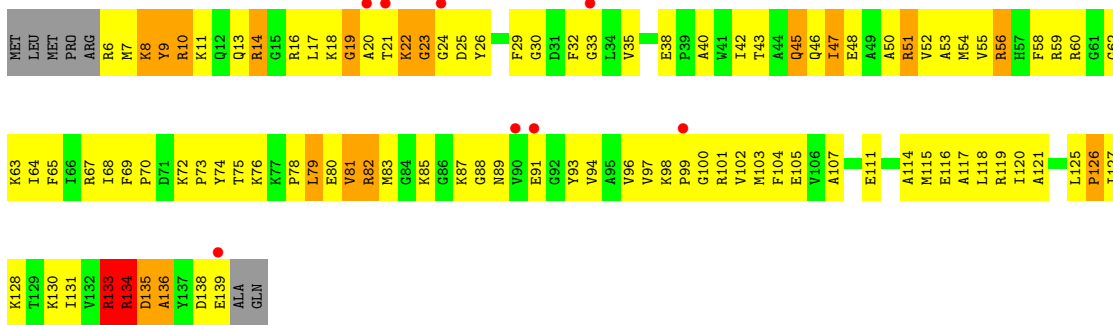




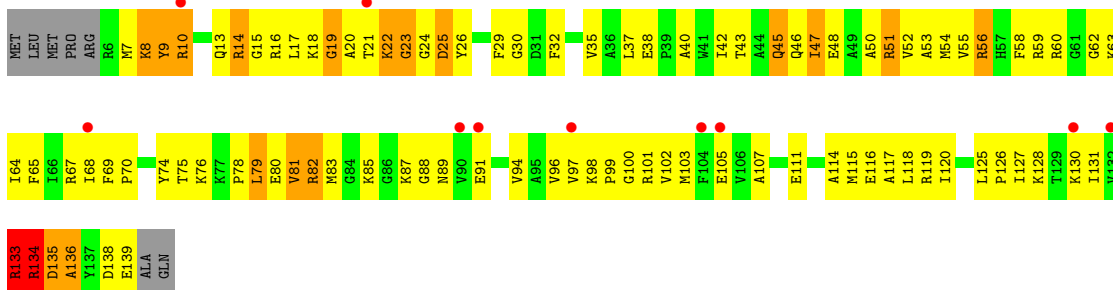
• Molecule 36: 50S ribosomal protein L15



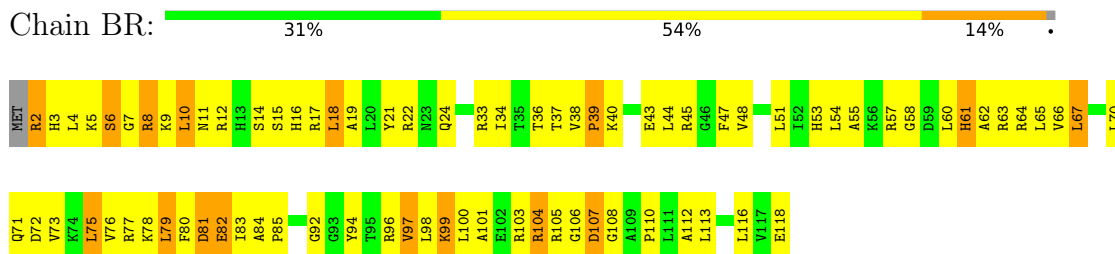
• Molecule 37: 50S ribosomal protein L16



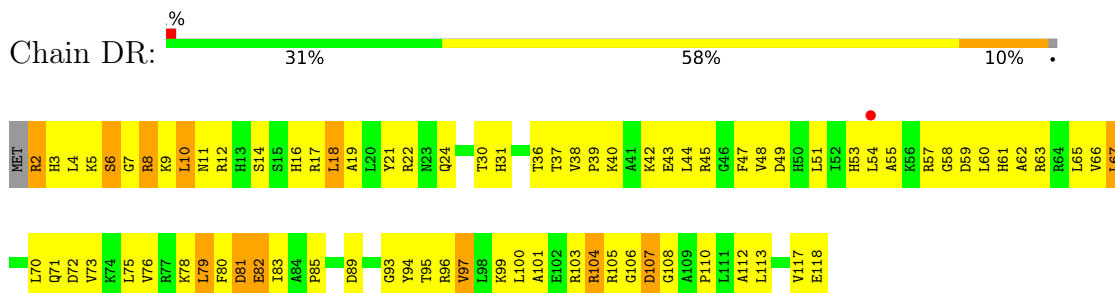
• Molecule 37: 50S ribosomal protein L16



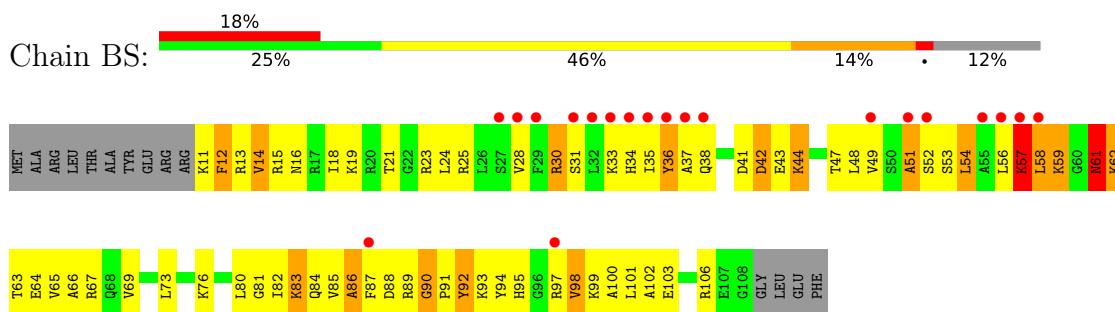
- Molecule 38: 50S ribosomal protein L17



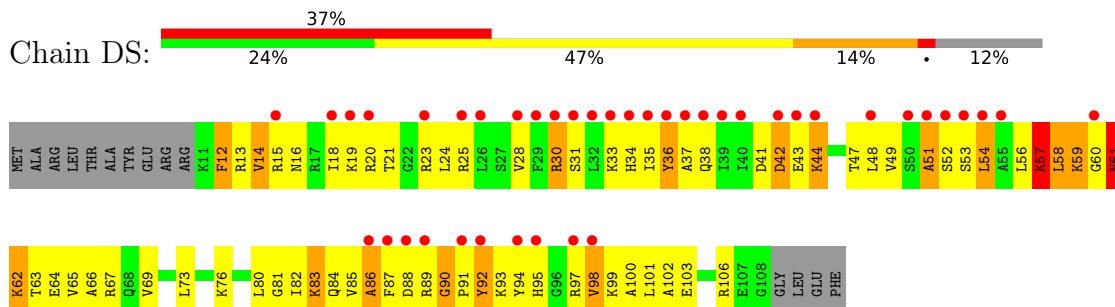
- Molecule 38: 50S ribosomal protein L17



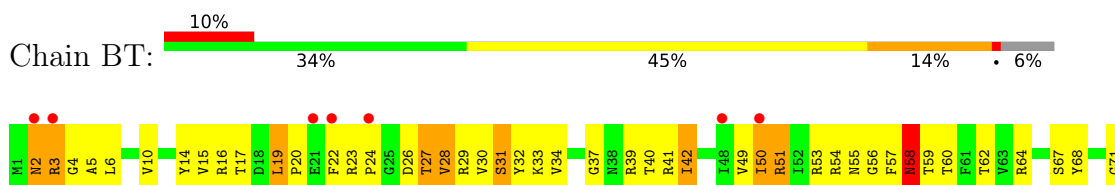
- Molecule 39: 50S ribosomal protein L18

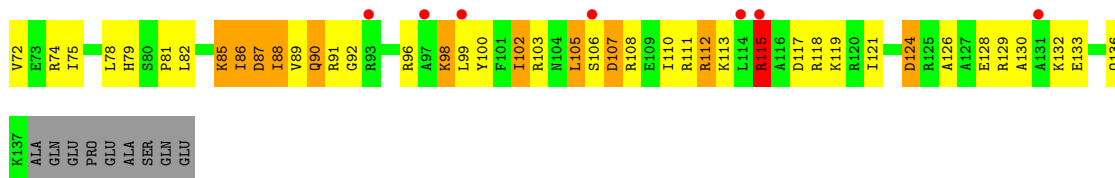


- Molecule 39: 50S ribosomal protein L18

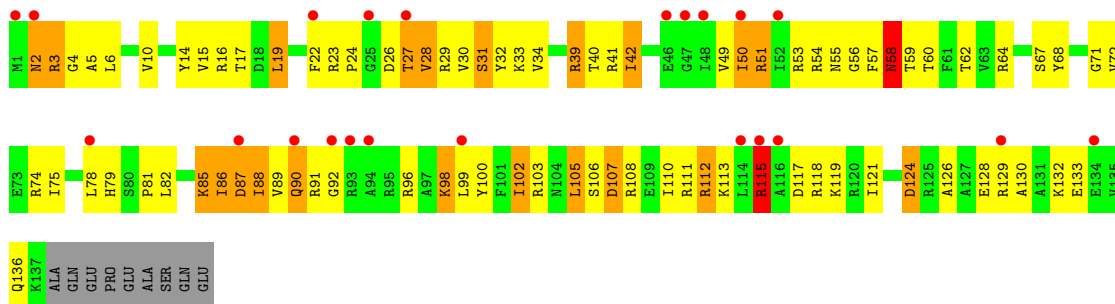


- Molecule 40: 50S ribosomal protein L19

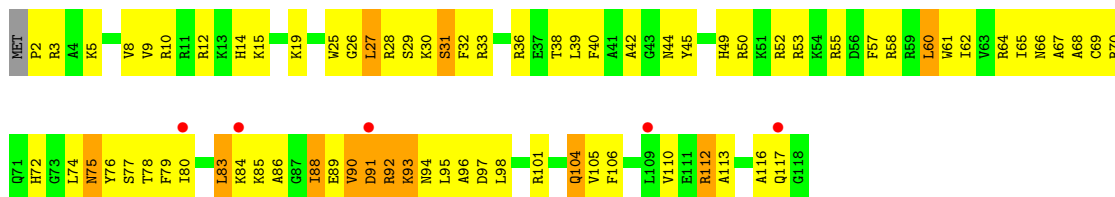




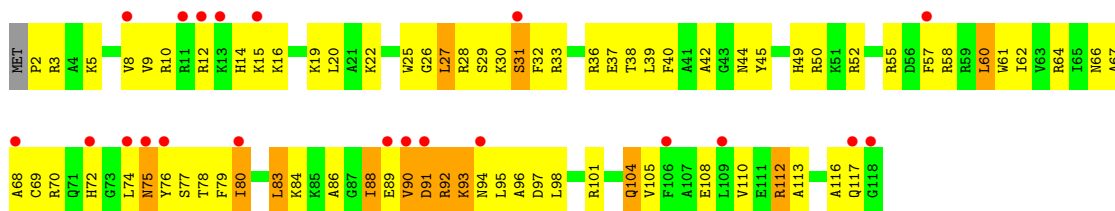
• Molecule 40: 50S ribosomal protein L19



• Molecule 41: 50S ribosomal protein L20

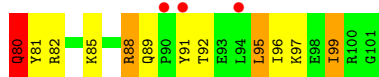


• Molecule 41: 50S ribosomal protein L20

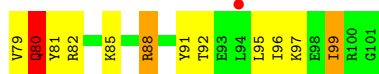


• Molecule 42: 50S ribosomal protein L21

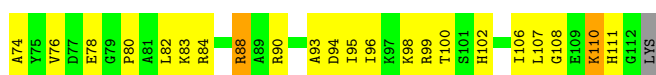




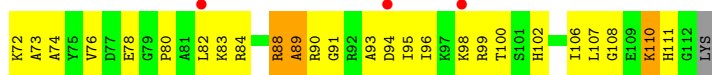
- Molecule 42: 50S ribosomal protein L21



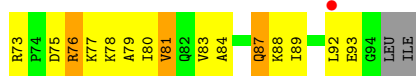
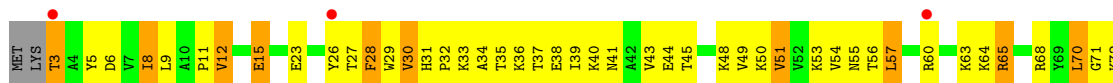
- Molecule 43: 50S ribosomal protein L22



- Molecule 43: 50S ribosomal protein L22

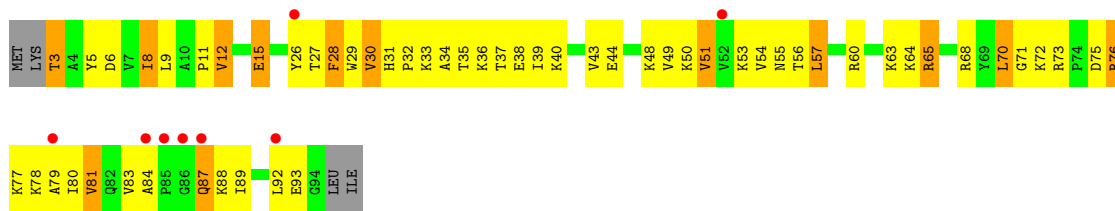


- Molecule 44: 50S ribosomal protein L23

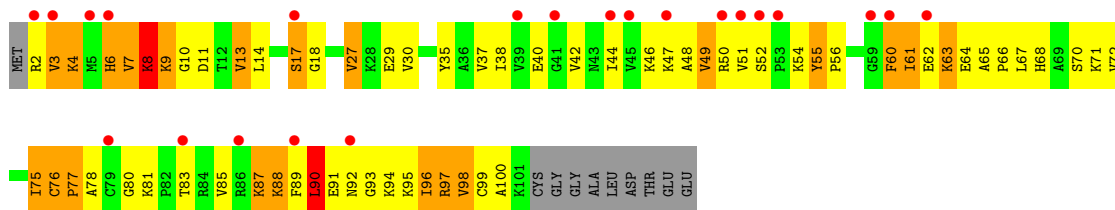


- Molecule 44: 50S ribosomal protein L23

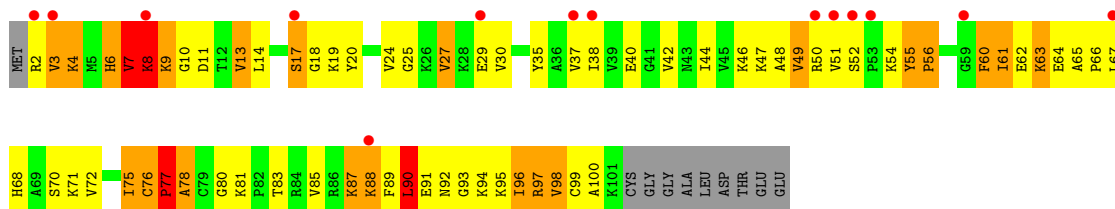




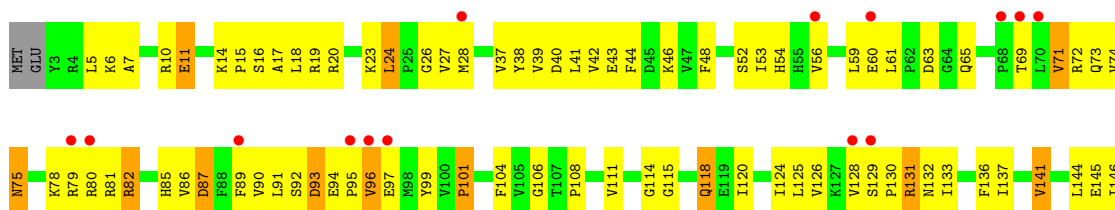
● Molecule 45: 50S ribosomal protein L24



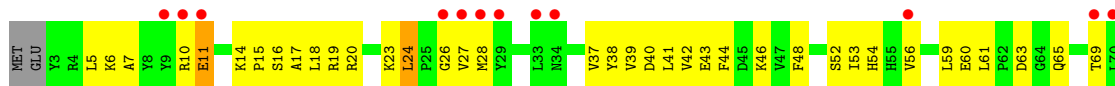
● Molecule 45: 50S ribosomal protein L24



● Molecule 46: 50S ribosomal protein L25



● Molecule 46: 50S ribosomal protein L25

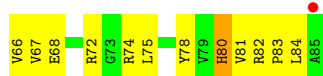




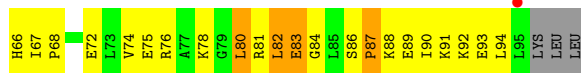
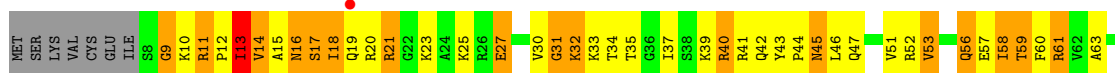
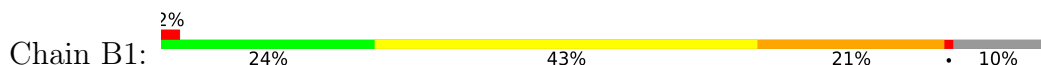
• Molecule 47: 50S ribosomal protein L27



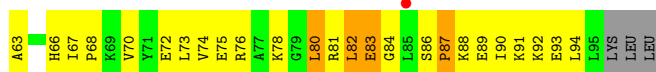
• Molecule 47: 50S ribosomal protein L27



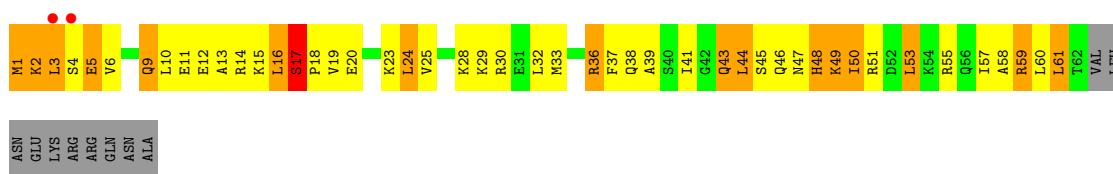
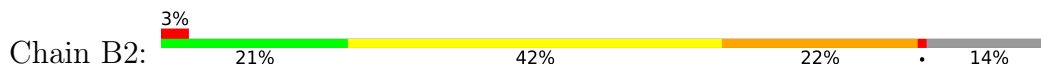
• Molecule 48: 50S ribosomal protein L28



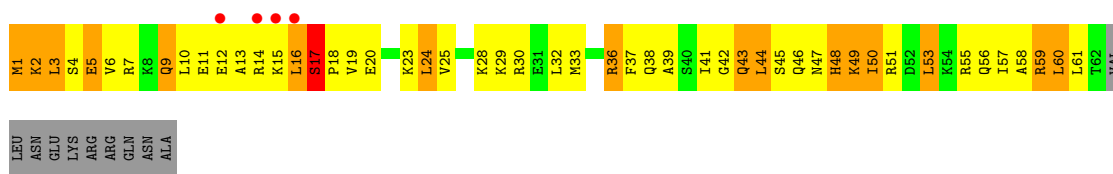
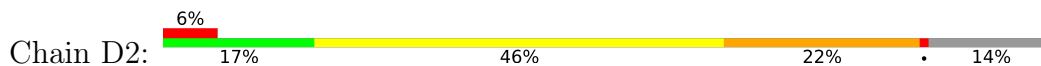
• Molecule 48: 50S ribosomal protein L28



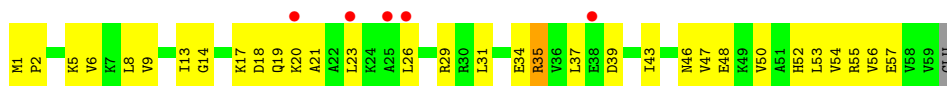
- Molecule 49: 50S ribosomal protein L29



- Molecule 49: 50S ribosomal protein L29



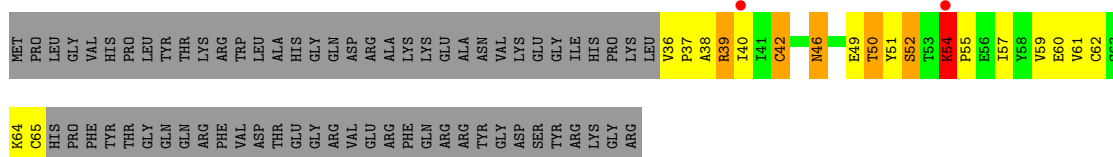
- Molecule 50: 50S ribosomal protein L30



- Molecule 50: 50S ribosomal protein L30

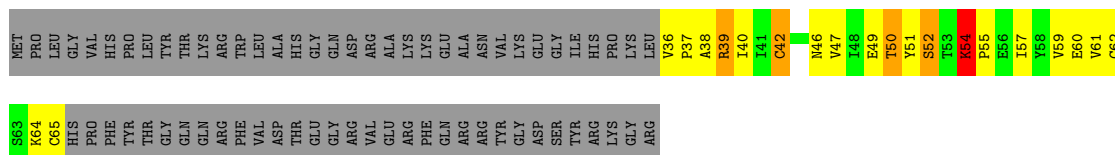


- Molecule 51: 50S ribosomal protein L31



- Molecule 51: 50S ribosomal protein L31

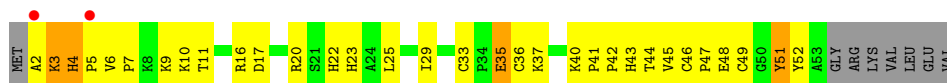




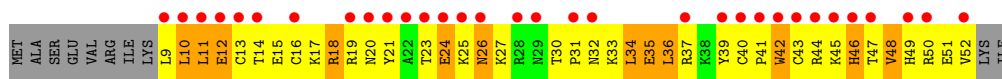
- Molecule 52: 50S ribosomal protein L32



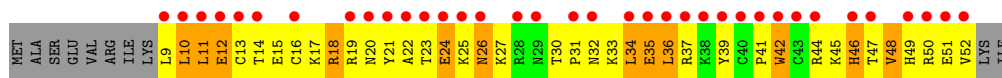
- Molecule 52: 50S ribosomal protein L32



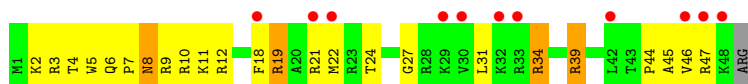
- Molecule 53: 50S ribosomal protein L33



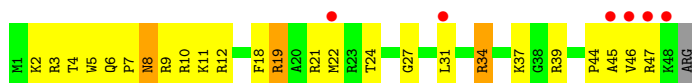
- Molecule 53: 50S ribosomal protein L33



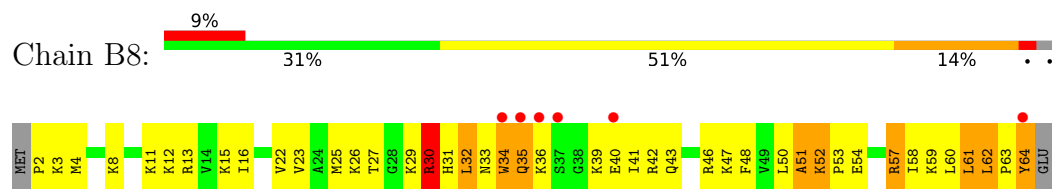
- Molecule 54: 50S ribosomal protein L34



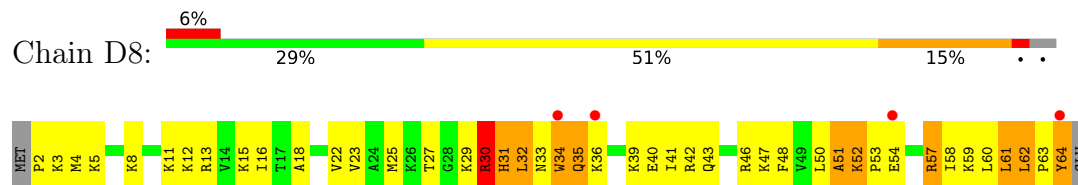
- Molecule 54: 50S ribosomal protein L34



- Molecule 55: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L35



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 211.24Å 456.78Å 618.71Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 49.95 – 3.00 50.99 – 2.99 | Depositor EDS |
| % Data completeness (in resolution range) | 97.3 (49.95-3.00) 97.2 (50.99-2.99) | Depositor EDS |
| R_{merge} | (Not available) | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 1.31 (at 3.01Å) | Xtrriage |
| Refinement program | PHENIX (phenix.refine), CNS 1.2 | Depositor |
| R, R_{free} | 0.280 , 0.316 0.274 , 0.309 | Depositor DCC |
| R_{free} test set | 10573 reflections (0.91%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 56.2 | Xtrriage |
| Anisotropy | 0.291 | Xtrriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.18 , 49.3 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$ | Xtrriage |
| Estimated twinning fraction | No twinning to report. | Xtrriage |
| F_o, F_c correlation | 0.89 | EDS |
| Total number of atoms | 301148 | wwPDB-VP |
| Average B, all atoms (Å ²) | 95.0 | wwPDB-VP |

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.24% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------|-------------|------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 1 | AA | 0.56 | 1/36194 (0.0%) | 1.11 | 109/56493 (0.2%) |
| 1 | CA | 0.55 | 1/36194 (0.0%) | 1.10 | 110/56493 (0.2%) |
| 2 | AY | 0.54 | 0/1832 | 1.03 | 2/2855 (0.1%) |
| 2 | AZ | 0.46 | 0/1832 | 0.95 | 1/2855 (0.0%) |
| 2 | CY | 0.54 | 0/1832 | 1.03 | 2/2855 (0.1%) |
| 2 | CZ | 0.45 | 0/1832 | 0.94 | 1/2855 (0.0%) |
| 3 | AV | 0.66 | 0/241 | 1.33 | 2/374 (0.5%) |
| 3 | CV | 0.64 | 0/241 | 1.30 | 1/374 (0.3%) |
| 4 | AB | 0.27 | 0/1935 | 0.46 | 0/2609 |
| 4 | CB | 0.27 | 0/1935 | 0.47 | 0/2609 |
| 5 | AC | 0.27 | 0/1636 | 0.46 | 0/2205 |
| 5 | CC | 0.28 | 0/1636 | 0.46 | 0/2205 |
| 6 | AD | 0.32 | 0/1733 | 0.50 | 0/2318 |
| 6 | CD | 0.30 | 0/1733 | 0.49 | 0/2318 |
| 7 | AE | 0.30 | 0/1171 | 0.50 | 0/1576 |
| 7 | CE | 0.29 | 0/1171 | 0.50 | 0/1576 |
| 8 | AF | 0.30 | 0/856 | 0.49 | 0/1154 |
| 8 | CF | 0.30 | 0/856 | 0.49 | 0/1154 |
| 9 | AG | 0.30 | 0/1276 | 0.47 | 0/1709 |
| 9 | CG | 0.28 | 0/1276 | 0.46 | 0/1709 |
| 10 | AH | 0.31 | 0/1136 | 0.52 | 0/1527 |
| 10 | CH | 0.29 | 0/1136 | 0.50 | 0/1527 |
| 11 | AI | 0.26 | 0/1029 | 0.45 | 0/1378 |
| 11 | CI | 0.26 | 0/1029 | 0.45 | 0/1378 |
| 12 | AJ | 0.29 | 0/807 | 0.49 | 0/1085 |
| 12 | CJ | 0.27 | 0/807 | 0.48 | 0/1085 |
| 13 | AK | 0.31 | 0/856 | 0.51 | 0/1157 |
| 13 | CK | 0.38 | 0/856 | 0.53 | 0/1157 |
| 14 | AL | 0.36 | 0/972 | 0.58 | 0/1301 |
| 14 | CL | 0.33 | 0/972 | 0.57 | 0/1301 |
| 15 | AM | 0.26 | 0/943 | 0.49 | 0/1265 |
| 15 | CM | 0.25 | 0/943 | 0.49 | 0/1265 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------|-------------|-------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 16 | AN | 0.28 | 0/501 | 0.47 | 0/664 |
| 16 | CN | 0.30 | 0/501 | 0.47 | 0/664 |
| 17 | AO | 0.33 | 0/745 | 0.48 | 0/992 |
| 17 | CO | 0.32 | 0/745 | 0.48 | 0/992 |
| 18 | AP | 0.33 | 0/716 | 0.50 | 0/963 |
| 18 | CP | 0.27 | 0/716 | 0.47 | 0/963 |
| 19 | AQ | 0.32 | 0/836 | 0.50 | 0/1117 |
| 19 | CQ | 0.30 | 0/836 | 0.48 | 0/1117 |
| 20 | AR | 0.32 | 0/579 | 0.49 | 0/768 |
| 20 | CR | 0.32 | 0/579 | 0.50 | 0/768 |
| 21 | AS | 0.25 | 0/642 | 0.46 | 0/865 |
| 21 | CS | 0.25 | 0/642 | 0.46 | 0/865 |
| 22 | AT | 0.30 | 0/764 | 0.48 | 0/1006 |
| 22 | CT | 0.27 | 0/764 | 0.47 | 0/1006 |
| 23 | AU | 0.24 | 0/212 | 0.47 | 0/277 |
| 23 | CU | 0.25 | 0/212 | 0.45 | 0/277 |
| 24 | AX | 0.30 | 0/2926 | 0.49 | 0/3953 |
| 24 | CX | 0.27 | 0/2926 | 0.48 | 0/3953 |
| 25 | BA | 0.65 | 0/69437 | 1.22 | 337/108401 (0.3%) |
| 25 | DA | 0.66 | 2/69437 (0.0%) | 1.22 | 323/108401 (0.3%) |
| 26 | BB | 0.53 | 0/2853 | 1.12 | 10/4451 (0.2%) |
| 26 | DB | 0.52 | 0/2853 | 1.11 | 8/4451 (0.2%) |
| 27 | BD | 0.46 | 0/2154 | 0.67 | 1/2905 (0.0%) |
| 27 | DD | 0.47 | 0/2154 | 0.67 | 1/2905 (0.0%) |
| 28 | BE | 0.35 | 0/1596 | 0.58 | 0/2153 |
| 28 | DE | 0.34 | 0/1596 | 0.57 | 0/2153 |
| 29 | BF | 0.37 | 0/1621 | 0.57 | 0/2194 |
| 29 | DF | 0.38 | 0/1621 | 0.57 | 0/2194 |
| 30 | BG | 0.28 | 0/1500 | 0.50 | 0/2017 |
| 30 | DG | 0.27 | 0/1500 | 0.49 | 0/2017 |
| 31 | BH | 0.26 | 0/1245 | 0.48 | 0/1682 |
| 31 | DH | 0.28 | 0/1245 | 0.49 | 0/1682 |
| 32 | BI | 0.31 | 0/1147 | 0.53 | 0/1552 |
| 32 | DI | 0.32 | 0/1147 | 0.55 | 0/1552 |
| 33 | BK | 0.24 | 0/1108 | 0.45 | 0/1500 |
| 33 | DK | 0.24 | 0/1108 | 0.45 | 0/1500 |
| 34 | BN | 0.32 | 0/1123 | 0.55 | 0/1515 |
| 34 | DN | 0.33 | 0/1123 | 0.55 | 0/1515 |
| 35 | BO | 0.38 | 0/942 | 0.56 | 0/1268 |
| 35 | DO | 0.35 | 0/942 | 0.55 | 0/1268 |
| 36 | BP | 0.38 | 0/1131 | 0.71 | 1/1504 (0.1%) |
| 36 | DP | 0.40 | 0/1131 | 0.72 | 2/1504 (0.1%) |
| 37 | BQ | 0.38 | 0/1084 | 0.60 | 0/1449 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-----------------|-------------|-------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 37 | DQ | 0.36 | 0/1084 | 0.59 | 0/1449 |
| 38 | BR | 0.38 | 0/974 | 0.59 | 0/1302 |
| 38 | DR | 0.36 | 0/974 | 0.57 | 0/1302 |
| 39 | BS | 0.28 | 0/778 | 0.50 | 0/1036 |
| 39 | DS | 0.26 | 0/778 | 0.48 | 0/1036 |
| 40 | BT | 0.37 | 0/1157 | 0.53 | 0/1544 |
| 40 | DT | 0.32 | 0/1157 | 0.51 | 0/1544 |
| 41 | BU | 0.37 | 0/982 | 0.53 | 0/1306 |
| 41 | DU | 0.42 | 0/982 | 0.54 | 0/1306 |
| 42 | BV | 0.35 | 0/790 | 0.57 | 0/1057 |
| 42 | DV | 0.37 | 0/790 | 0.59 | 0/1057 |
| 43 | BW | 0.36 | 0/901 | 0.56 | 0/1209 |
| 43 | DW | 0.37 | 0/901 | 0.56 | 0/1209 |
| 44 | BX | 0.40 | 0/739 | 0.55 | 0/993 |
| 44 | DX | 0.42 | 0/739 | 0.56 | 0/993 |
| 45 | BY | 0.33 | 0/788 | 0.57 | 0/1051 |
| 45 | DY | 0.39 | 0/788 | 0.59 | 0/1051 |
| 46 | BZ | 0.28 | 0/1514 | 0.50 | 0/2056 |
| 46 | DZ | 0.28 | 0/1514 | 0.49 | 0/2056 |
| 47 | B0 | 0.34 | 0/613 | 0.54 | 0/816 |
| 47 | D0 | 0.32 | 0/613 | 0.54 | 0/816 |
| 48 | B1 | 0.44 | 0/701 | 0.71 | 1/932 (0.1%) |
| 48 | D1 | 0.42 | 0/701 | 0.70 | 1/932 (0.1%) |
| 49 | B2 | 0.37 | 0/522 | 0.62 | 0/690 |
| 49 | D2 | 0.40 | 0/522 | 0.63 | 0/690 |
| 50 | B3 | 0.30 | 0/472 | 0.48 | 0/634 |
| 50 | D3 | 0.31 | 0/472 | 0.49 | 0/634 |
| 51 | B4 | 0.28 | 0/228 | 0.52 | 0/309 |
| 51 | D4 | 0.26 | 0/228 | 0.52 | 0/309 |
| 52 | B5 | 0.32 | 0/418 | 0.55 | 0/567 |
| 52 | D5 | 0.33 | 0/418 | 0.58 | 0/567 |
| 53 | B6 | 0.30 | 0/387 | 0.51 | 0/518 |
| 53 | D6 | 0.29 | 0/387 | 0.50 | 0/518 |
| 54 | B7 | 0.41 | 0/426 | 0.58 | 0/561 |
| 54 | D7 | 0.44 | 0/426 | 0.64 | 0/561 |
| 55 | B8 | 0.46 | 0/515 | 0.66 | 0/679 |
| 55 | D8 | 0.42 | 0/515 | 0.65 | 0/679 |
| All | All | 0.55 | 4/324432 (0.0%) | 1.04 | 913/484634 (0.2%) |

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 |
|-----|-------|---------------------|---------------------|
| 27 | BD | 0 | 1 |
| 27 | DD | 0 | 1 |
| 36 | BP | 0 | 3 |
| 36 | DP | 0 | 3 |
| All | All | 0 | 8 |

All (4) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|------|-------------|----------|
| 25 | DA | 74 | A | C3'-O3' | 5.67 | 1.50 | 1.42 |
| 25 | DA | 2447 | G | C3'-O3' | 5.48 | 1.49 | 1.42 |
| 1 | AA | 1064 | G | C3'-O3' | 5.40 | 1.49 | 1.42 |
| 1 | CA | 115 | G | C3'-O3' | 5.06 | 1.49 | 1.42 |

The worst 5 of 913 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|--------|-------------|----------|
| 25 | BA | 1913 | A | C1'-O4'-C4' | -12.89 | 99.59 | 109.90 |
| 25 | DA | 1559 | G | C1'-O4'-C4' | -12.85 | 99.62 | 109.90 |
| 25 | DA | 945 | A | C1'-O4'-C4' | -12.85 | 99.62 | 109.90 |
| 25 | BA | 1559 | G | C1'-O4'-C4' | -12.81 | 99.65 | 109.90 |
| 25 | DA | 1786 | A | C1'-O4'-C4' | -12.74 | 99.70 | 109.90 |

There are no chirality outliers.

5 of 8 planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 27 | BD | 40 | THR | Peptide |
| 36 | BP | 51 | PHE | Peptide |
| 36 | BP | 52 | GLU | Peptide |
| 36 | BP | 9 | ASN | Peptide |
| 27 | DD | 40 | THR | Peptide |

5.2 Too-close contacts

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

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | AA | 32332 | 0 | 16318 | 1066 | 0 |
| 1 | CA | 32332 | 0 | 16318 | 1109 | 0 |
| 2 | AY | 1640 | 0 | 837 | 39 | 0 |
| 2 | AZ | 1640 | 0 | 837 | 49 | 0 |
| 2 | CY | 1640 | 0 | 837 | 33 | 0 |
| 2 | CZ | 1640 | 0 | 837 | 48 | 0 |
| 3 | AV | 214 | 0 | 110 | 6 | 0 |
| 3 | CV | 214 | 0 | 110 | 4 | 0 |
| 4 | AB | 1900 | 0 | 1951 | 159 | 0 |
| 4 | CB | 1900 | 0 | 1951 | 160 | 0 |
| 5 | AC | 1612 | 0 | 1677 | 125 | 0 |
| 5 | CC | 1612 | 0 | 1677 | 129 | 0 |
| 6 | AD | 1703 | 0 | 1763 | 112 | 0 |
| 6 | CD | 1703 | 0 | 1763 | 105 | 0 |
| 7 | AE | 1155 | 0 | 1213 | 91 | 0 |
| 7 | CE | 1155 | 0 | 1213 | 84 | 0 |
| 8 | AF | 843 | 0 | 857 | 49 | 0 |
| 8 | CF | 843 | 0 | 857 | 48 | 0 |
| 9 | AG | 1257 | 0 | 1296 | 81 | 0 |
| 9 | CG | 1257 | 0 | 1296 | 79 | 0 |
| 10 | AH | 1116 | 0 | 1177 | 77 | 0 |
| 10 | CH | 1116 | 0 | 1177 | 80 | 0 |
| 11 | AI | 1011 | 0 | 1043 | 104 | 0 |
| 11 | CI | 1011 | 0 | 1043 | 106 | 0 |
| 12 | AJ | 794 | 0 | 840 | 102 | 0 |
| 12 | CJ | 794 | 0 | 840 | 97 | 0 |
| 13 | AK | 842 | 0 | 859 | 72 | 0 |
| 13 | CK | 842 | 0 | 859 | 74 | 0 |
| 14 | AL | 956 | 0 | 1046 | 112 | 0 |
| 14 | CL | 956 | 0 | 1046 | 109 | 0 |
| 15 | AM | 933 | 0 | 992 | 97 | 0 |
| 15 | CM | 933 | 0 | 992 | 108 | 0 |
| 16 | AN | 492 | 0 | 531 | 36 | 0 |
| 16 | CN | 492 | 0 | 532 | 41 | 0 |
| 17 | AO | 734 | 0 | 771 | 50 | 0 |
| 17 | CO | 734 | 0 | 771 | 51 | 0 |
| 18 | AP | 700 | 0 | 720 | 52 | 0 |
| 18 | CP | 700 | 0 | 720 | 59 | 0 |
| 19 | AQ | 823 | 0 | 893 | 54 | 0 |
| 19 | CQ | 823 | 0 | 893 | 52 | 0 |
| 20 | AR | 574 | 0 | 644 | 53 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 20 | CR | 574 | 0 | 644 | 51 | 0 |
| 21 | AS | 629 | 0 | 652 | 77 | 0 |
| 21 | CS | 629 | 0 | 652 | 76 | 0 |
| 22 | AT | 762 | 0 | 859 | 68 | 0 |
| 22 | CT | 762 | 0 | 859 | 64 | 0 |
| 23 | AU | 208 | 0 | 221 | 12 | 0 |
| 23 | CU | 208 | 0 | 221 | 12 | 0 |
| 24 | AX | 2876 | 0 | 2867 | 244 | 0 |
| 24 | CX | 2876 | 0 | 2867 | 242 | 0 |
| 25 | BA | 61997 | 0 | 31250 | 2146 | 0 |
| 25 | DA | 61997 | 0 | 31250 | 2152 | 1 |
| 26 | BB | 2551 | 0 | 1295 | 95 | 0 |
| 26 | DB | 2551 | 0 | 1295 | 93 | 1 |
| 27 | BD | 2104 | 0 | 2182 | 225 | 0 |
| 27 | DD | 2104 | 0 | 2182 | 228 | 0 |
| 28 | BE | 1563 | 0 | 1629 | 138 | 0 |
| 28 | DE | 1563 | 0 | 1629 | 129 | 0 |
| 29 | BF | 1586 | 0 | 1632 | 141 | 0 |
| 29 | DF | 1586 | 0 | 1632 | 144 | 0 |
| 30 | BG | 1475 | 0 | 1537 | 154 | 0 |
| 30 | DG | 1475 | 0 | 1537 | 151 | 0 |
| 31 | BH | 1222 | 0 | 1282 | 112 | 0 |
| 31 | DH | 1222 | 0 | 1282 | 114 | 0 |
| 32 | BI | 1132 | 0 | 1220 | 104 | 0 |
| 32 | DI | 1132 | 0 | 1220 | 91 | 0 |
| 33 | BK | 1088 | 0 | 1138 | 107 | 0 |
| 33 | DK | 1088 | 0 | 1138 | 107 | 0 |
| 34 | BN | 1096 | 0 | 1168 | 96 | 0 |
| 34 | DN | 1096 | 0 | 1168 | 93 | 0 |
| 35 | BO | 932 | 0 | 994 | 64 | 0 |
| 35 | DO | 932 | 0 | 994 | 61 | 0 |
| 36 | BP | 1114 | 0 | 1187 | 226 | 0 |
| 36 | DP | 1114 | 0 | 1187 | 229 | 0 |
| 37 | BQ | 1064 | 0 | 1114 | 141 | 0 |
| 37 | DQ | 1064 | 0 | 1114 | 129 | 0 |
| 38 | BR | 960 | 0 | 1021 | 106 | 0 |
| 38 | DR | 960 | 0 | 1021 | 101 | 0 |
| 39 | BS | 770 | 0 | 832 | 96 | 0 |
| 39 | DS | 770 | 0 | 832 | 98 | 0 |
| 40 | BT | 1143 | 0 | 1211 | 100 | 0 |
| 40 | DT | 1143 | 0 | 1211 | 98 | 0 |
| 41 | BU | 964 | 0 | 1022 | 92 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 41 | DU | 964 | 0 | 1022 | 102 | 0 |
| 42 | BV | 779 | 0 | 852 | 77 | 0 |
| 42 | DV | 779 | 0 | 852 | 78 | 0 |
| 43 | BW | 890 | 0 | 951 | 68 | 0 |
| 43 | DW | 890 | 0 | 951 | 70 | 0 |
| 44 | BX | 725 | 0 | 778 | 69 | 0 |
| 44 | DX | 725 | 0 | 778 | 71 | 0 |
| 45 | BY | 775 | 0 | 870 | 106 | 0 |
| 45 | DY | 775 | 0 | 870 | 110 | 0 |
| 46 | BZ | 1482 | 0 | 1507 | 106 | 0 |
| 46 | DZ | 1482 | 0 | 1507 | 106 | 0 |
| 47 | B0 | 605 | 0 | 628 | 45 | 0 |
| 47 | D0 | 605 | 0 | 628 | 49 | 0 |
| 48 | B1 | 694 | 0 | 764 | 92 | 0 |
| 48 | D1 | 694 | 0 | 764 | 91 | 0 |
| 49 | B2 | 520 | 0 | 575 | 76 | 0 |
| 49 | D2 | 520 | 0 | 575 | 77 | 0 |
| 50 | B3 | 467 | 0 | 523 | 29 | 0 |
| 50 | D3 | 467 | 0 | 523 | 29 | 0 |
| 51 | B4 | 225 | 0 | 225 | 19 | 0 |
| 51 | D4 | 225 | 0 | 225 | 22 | 0 |
| 52 | B5 | 404 | 0 | 420 | 54 | 0 |
| 52 | D5 | 404 | 0 | 420 | 53 | 0 |
| 53 | B6 | 380 | 0 | 391 | 55 | 0 |
| 53 | D6 | 380 | 0 | 391 | 56 | 0 |
| 54 | B7 | 418 | 0 | 467 | 36 | 0 |
| 54 | D7 | 418 | 0 | 467 | 38 | 0 |
| 55 | B8 | 507 | 0 | 576 | 68 | 0 |
| 55 | D8 | 507 | 0 | 576 | 79 | 0 |
| 56 | AA | 428 | 0 | 0 | 0 | 0 |
| 56 | AB | 7 | 0 | 0 | 0 | 0 |
| 56 | AC | 4 | 0 | 0 | 0 | 0 |
| 56 | AD | 3 | 0 | 0 | 0 | 0 |
| 56 | AE | 8 | 0 | 0 | 0 | 0 |
| 56 | AF | 2 | 0 | 0 | 0 | 0 |
| 56 | AG | 2 | 0 | 0 | 0 | 0 |
| 56 | AH | 2 | 0 | 0 | 0 | 0 |
| 56 | AI | 1 | 0 | 0 | 0 | 0 |
| 56 | AJ | 1 | 0 | 0 | 0 | 0 |
| 56 | AK | 7 | 0 | 0 | 0 | 0 |
| 56 | AL | 4 | 0 | 0 | 0 | 0 |
| 56 | AM | 3 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 56 | AN | 1 | 0 | 0 | 0 | 0 |
| 56 | AO | 2 | 0 | 0 | 0 | 0 |
| 56 | AQ | 1 | 0 | 0 | 0 | 0 |
| 56 | AR | 1 | 0 | 0 | 0 | 0 |
| 56 | AT | 2 | 0 | 0 | 0 | 0 |
| 56 | AV | 3 | 0 | 0 | 0 | 0 |
| 56 | AX | 14 | 0 | 0 | 0 | 0 |
| 56 | AY | 26 | 0 | 0 | 0 | 0 |
| 56 | AZ | 15 | 0 | 0 | 0 | 0 |
| 56 | B0 | 3 | 0 | 0 | 0 | 0 |
| 56 | B1 | 7 | 0 | 0 | 0 | 0 |
| 56 | B2 | 3 | 0 | 0 | 0 | 0 |
| 56 | B4 | 2 | 0 | 0 | 0 | 0 |
| 56 | B5 | 2 | 0 | 0 | 0 | 0 |
| 56 | B6 | 2 | 0 | 0 | 0 | 0 |
| 56 | B8 | 4 | 0 | 0 | 0 | 0 |
| 56 | BA | 923 | 0 | 0 | 0 | 0 |
| 56 | BB | 35 | 0 | 0 | 0 | 0 |
| 56 | BD | 7 | 0 | 0 | 0 | 0 |
| 56 | BE | 6 | 0 | 0 | 0 | 0 |
| 56 | BF | 6 | 0 | 0 | 0 | 0 |
| 56 | BG | 2 | 0 | 0 | 0 | 0 |
| 56 | BH | 4 | 0 | 0 | 0 | 0 |
| 56 | BI | 6 | 0 | 0 | 0 | 0 |
| 56 | BK | 3 | 0 | 0 | 0 | 0 |
| 56 | BN | 4 | 0 | 0 | 0 | 0 |
| 56 | BO | 5 | 0 | 0 | 0 | 0 |
| 56 | BP | 2 | 0 | 0 | 0 | 0 |
| 56 | BQ | 6 | 0 | 0 | 0 | 0 |
| 56 | BR | 2 | 0 | 0 | 0 | 0 |
| 56 | BS | 3 | 0 | 0 | 0 | 0 |
| 56 | BT | 1 | 0 | 0 | 0 | 0 |
| 56 | BU | 1 | 0 | 0 | 0 | 0 |
| 56 | BV | 3 | 0 | 0 | 0 | 0 |
| 56 | BW | 2 | 0 | 0 | 0 | 0 |
| 56 | BX | 2 | 0 | 0 | 0 | 0 |
| 56 | BY | 3 | 0 | 0 | 0 | 0 |
| 56 | BZ | 1 | 0 | 0 | 0 | 0 |
| 56 | CA | 222 | 0 | 0 | 0 | 0 |
| 56 | CB | 2 | 0 | 0 | 0 | 0 |
| 56 | CC | 1 | 0 | 0 | 0 | 0 |
| 56 | CF | 5 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 56 | CG | 2 | 0 | 0 | 0 | 0 |
| 56 | CH | 2 | 0 | 0 | 0 | 0 |
| 56 | CK | 3 | 0 | 0 | 0 | 0 |
| 56 | CL | 1 | 0 | 0 | 0 | 0 |
| 56 | CO | 1 | 0 | 0 | 0 | 0 |
| 56 | CQ | 1 | 0 | 0 | 0 | 0 |
| 56 | CS | 1 | 0 | 0 | 0 | 0 |
| 56 | CT | 1 | 0 | 0 | 0 | 0 |
| 56 | CY | 14 | 0 | 0 | 0 | 0 |
| 56 | CZ | 14 | 0 | 0 | 0 | 0 |
| 56 | D1 | 2 | 0 | 0 | 0 | 0 |
| 56 | D6 | 1 | 0 | 0 | 0 | 0 |
| 56 | D8 | 1 | 0 | 0 | 0 | 0 |
| 56 | DA | 491 | 0 | 0 | 0 | 0 |
| 56 | DB | 12 | 0 | 0 | 0 | 0 |
| 56 | DD | 9 | 0 | 0 | 0 | 0 |
| 56 | DE | 1 | 0 | 0 | 0 | 0 |
| 56 | DF | 1 | 0 | 0 | 0 | 0 |
| 56 | DG | 2 | 0 | 0 | 0 | 0 |
| 56 | DI | 1 | 0 | 0 | 0 | 0 |
| 56 | DN | 1 | 0 | 0 | 0 | 0 |
| 56 | DO | 2 | 0 | 0 | 0 | 0 |
| 56 | DP | 1 | 0 | 0 | 0 | 0 |
| 56 | DQ | 2 | 0 | 0 | 0 | 0 |
| 56 | DR | 1 | 0 | 0 | 0 | 0 |
| 56 | DT | 1 | 0 | 0 | 0 | 0 |
| 56 | DU | 1 | 0 | 0 | 0 | 0 |
| 56 | DY | 1 | 0 | 0 | 0 | 0 |
| 57 | AD | 1 | 0 | 0 | 0 | 0 |
| 57 | AN | 1 | 0 | 0 | 0 | 0 |
| 57 | CD | 1 | 0 | 0 | 0 | 0 |
| 57 | CN | 1 | 0 | 0 | 0 | 0 |
| All | All | 301148 | 0 | 204431 | 14693 | 1 |

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 29.

The worst 5 of 14693 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) |
|------------------|-------------------|--------------------------|-------------------|
| 55:B8:57:ARG:HB2 | 55:B8:57:ARG:HH11 | 1.11 | 1.16 |

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| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 48:B1:11:ARG:HB3 | 48:B1:12:PRO:HD2 | 1.14 | 1.13 |
| 48:D1:11:ARG:HB3 | 48:D1:12:PRO:HD2 | 1.18 | 1.12 |
| 36:BP:23:PRO:HD2 | 36:BP:33:ARG:NH2 | 1.67 | 1.09 |
| 25:BA:2630:G:H1' | 25:BA:2894:G:H1' | 1.35 | 1.09 |

All (1) 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) |
|------------------|-----------------------|--------------------------|-------------------|
| 25:DA:1411:C:O3' | 26:DB:53:A:O2'[1_655] | 2.14 | 0.06 |

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 | |
|-----|-------|---------------|-----------|----------|----------|-------------|----|
| 4 | AB | 232/256 (91%) | 175 (75%) | 47 (20%) | 10 (4%) | 2 | 15 |
| 4 | CB | 232/256 (91%) | 174 (75%) | 48 (21%) | 10 (4%) | 2 | 15 |
| 5 | AC | 204/239 (85%) | 138 (68%) | 51 (25%) | 15 (7%) | 1 | 5 |
| 5 | CC | 204/239 (85%) | 138 (68%) | 52 (26%) | 14 (7%) | 1 | 6 |
| 6 | AD | 206/209 (99%) | 166 (81%) | 30 (15%) | 10 (5%) | 2 | 13 |
| 6 | CD | 206/209 (99%) | 169 (82%) | 26 (13%) | 11 (5%) | 2 | 11 |
| 7 | AE | 149/162 (92%) | 117 (78%) | 26 (17%) | 6 (4%) | 3 | 17 |
| 7 | CE | 149/162 (92%) | 117 (78%) | 26 (17%) | 6 (4%) | 3 | 17 |
| 8 | AF | 99/101 (98%) | 87 (88%) | 11 (11%) | 1 (1%) | 15 | 53 |
| 8 | CF | 99/101 (98%) | 87 (88%) | 11 (11%) | 1 (1%) | 15 | 53 |
| 9 | AG | 153/156 (98%) | 124 (81%) | 28 (18%) | 1 (1%) | 22 | 60 |
| 9 | CG | 153/156 (98%) | 125 (82%) | 27 (18%) | 1 (1%) | 22 | 60 |
| 10 | AH | 136/138 (99%) | 112 (82%) | 18 (13%) | 6 (4%) | 2 | 15 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|----|
| 10 | CH | 136/138 (99%) | 112 (82%) | 18 (13%) | 6 (4%) | 2 | 15 |
| 11 | AI | 125/128 (98%) | 93 (74%) | 22 (18%) | 10 (8%) | 1 | 4 |
| 11 | CI | 125/128 (98%) | 93 (74%) | 23 (18%) | 9 (7%) | 1 | 5 |
| 12 | AJ | 96/105 (91%) | 76 (79%) | 14 (15%) | 6 (6%) | 1 | 7 |
| 12 | CJ | 96/105 (91%) | 77 (80%) | 13 (14%) | 6 (6%) | 1 | 7 |
| 13 | AK | 112/129 (87%) | 94 (84%) | 12 (11%) | 6 (5%) | 2 | 11 |
| 13 | CK | 112/129 (87%) | 94 (84%) | 12 (11%) | 6 (5%) | 2 | 11 |
| 14 | AL | 120/134 (90%) | 87 (72%) | 22 (18%) | 11 (9%) | 1 | 3 |
| 14 | CL | 120/134 (90%) | 87 (72%) | 22 (18%) | 11 (9%) | 1 | 3 |
| 15 | AM | 115/126 (91%) | 91 (79%) | 19 (16%) | 5 (4%) | 2 | 15 |
| 15 | CM | 115/126 (91%) | 91 (79%) | 20 (17%) | 4 (4%) | 3 | 20 |
| 16 | AN | 58/61 (95%) | 46 (79%) | 11 (19%) | 1 (2%) | 9 | 39 |
| 16 | CN | 58/61 (95%) | 46 (79%) | 11 (19%) | 1 (2%) | 9 | 39 |
| 17 | AO | 86/89 (97%) | 70 (81%) | 13 (15%) | 3 (4%) | 3 | 20 |
| 17 | CO | 86/89 (97%) | 69 (80%) | 14 (16%) | 3 (4%) | 3 | 20 |
| 18 | AP | 81/88 (92%) | 59 (73%) | 19 (24%) | 3 (4%) | 3 | 19 |
| 18 | CP | 81/88 (92%) | 60 (74%) | 18 (22%) | 3 (4%) | 3 | 19 |
| 19 | AQ | 97/105 (92%) | 79 (81%) | 16 (16%) | 2 (2%) | 7 | 33 |
| 19 | CQ | 97/105 (92%) | 79 (81%) | 16 (16%) | 2 (2%) | 7 | 33 |
| 20 | AR | 68/88 (77%) | 45 (66%) | 18 (26%) | 5 (7%) | 1 | 5 |
| 20 | CR | 68/88 (77%) | 46 (68%) | 17 (25%) | 5 (7%) | 1 | 5 |
| 21 | AS | 76/93 (82%) | 50 (66%) | 18 (24%) | 8 (10%) | 0 | 2 |
| 21 | CS | 76/93 (82%) | 50 (66%) | 18 (24%) | 8 (10%) | 0 | 2 |
| 22 | AT | 97/106 (92%) | 72 (74%) | 17 (18%) | 8 (8%) | 1 | 4 |
| 22 | CT | 97/106 (92%) | 72 (74%) | 18 (19%) | 7 (7%) | 1 | 5 |
| 23 | AU | 22/27 (82%) | 12 (54%) | 8 (36%) | 2 (9%) | 1 | 3 |
| 23 | CU | 22/27 (82%) | 12 (54%) | 8 (36%) | 2 (9%) | 1 | 3 |
| 24 | AX | 360/378 (95%) | 288 (80%) | 57 (16%) | 15 (4%) | 3 | 16 |
| 24 | CX | 360/378 (95%) | 288 (80%) | 58 (16%) | 14 (4%) | 3 | 17 |
| 27 | BD | 269/276 (98%) | 208 (77%) | 41 (15%) | 20 (7%) | 1 | 5 |
| 27 | DD | 269/276 (98%) | 204 (76%) | 46 (17%) | 19 (7%) | 1 | 5 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|----|
| 28 | BE | 202/206 (98%) | 157 (78%) | 37 (18%) | 8 (4%) | 3 | 17 |
| 28 | DE | 202/206 (98%) | 157 (78%) | 37 (18%) | 8 (4%) | 3 | 17 |
| 29 | BF | 200/210 (95%) | 162 (81%) | 28 (14%) | 10 (5%) | 2 | 12 |
| 29 | DF | 200/210 (95%) | 162 (81%) | 26 (13%) | 12 (6%) | 1 | 9 |
| 30 | BG | 179/182 (98%) | 128 (72%) | 39 (22%) | 12 (7%) | 1 | 6 |
| 30 | DG | 179/182 (98%) | 127 (71%) | 39 (22%) | 13 (7%) | 1 | 5 |
| 31 | BH | 157/180 (87%) | 120 (76%) | 30 (19%) | 7 (4%) | 2 | 14 |
| 31 | DH | 157/180 (87%) | 121 (77%) | 28 (18%) | 8 (5%) | 2 | 12 |
| 32 | BI | 143/148 (97%) | 107 (75%) | 29 (20%) | 7 (5%) | 2 | 13 |
| 32 | DI | 143/148 (97%) | 121 (85%) | 19 (13%) | 3 (2%) | 7 | 33 |
| 33 | BK | 145/147 (99%) | 101 (70%) | 35 (24%) | 9 (6%) | 1 | 8 |
| 33 | DK | 145/147 (99%) | 101 (70%) | 35 (24%) | 9 (6%) | 1 | 8 |
| 34 | BN | 135/163 (83%) | 103 (76%) | 17 (13%) | 15 (11%) | 0 | 2 |
| 34 | DN | 135/163 (83%) | 101 (75%) | 19 (14%) | 15 (11%) | 0 | 2 |
| 35 | BO | 120/122 (98%) | 102 (85%) | 14 (12%) | 4 (3%) | 4 | 21 |
| 35 | DO | 120/122 (98%) | 101 (84%) | 15 (12%) | 4 (3%) | 4 | 21 |
| 36 | BP | 144/150 (96%) | 86 (60%) | 35 (24%) | 23 (16%) | 0 | 1 |
| 36 | DP | 144/150 (96%) | 88 (61%) | 34 (24%) | 22 (15%) | 0 | 1 |
| 37 | BQ | 132/141 (94%) | 96 (73%) | 22 (17%) | 14 (11%) | 0 | 2 |
| 37 | DQ | 132/141 (94%) | 93 (70%) | 24 (18%) | 15 (11%) | 0 | 2 |
| 38 | BR | 115/118 (98%) | 89 (77%) | 19 (16%) | 7 (6%) | 1 | 8 |
| 38 | DR | 115/118 (98%) | 91 (79%) | 19 (16%) | 5 (4%) | 2 | 15 |
| 39 | BS | 96/112 (86%) | 56 (58%) | 29 (30%) | 11 (12%) | 0 | 2 |
| 39 | DS | 96/112 (86%) | 56 (58%) | 29 (30%) | 11 (12%) | 0 | 2 |
| 40 | BT | 135/146 (92%) | 91 (67%) | 30 (22%) | 14 (10%) | 0 | 2 |
| 40 | DT | 135/146 (92%) | 91 (67%) | 31 (23%) | 13 (10%) | 0 | 3 |
| 41 | BU | 115/118 (98%) | 92 (80%) | 19 (16%) | 4 (4%) | 3 | 20 |
| 41 | DU | 115/118 (98%) | 91 (79%) | 19 (16%) | 5 (4%) | 2 | 15 |
| 42 | BV | 99/101 (98%) | 74 (75%) | 15 (15%) | 10 (10%) | 0 | 2 |
| 42 | DV | 99/101 (98%) | 74 (75%) | 15 (15%) | 10 (10%) | 0 | 2 |
| 43 | BW | 110/113 (97%) | 88 (80%) | 18 (16%) | 4 (4%) | 3 | 19 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-------------------|------------|------------|----------|-------------|-----|
| 43 | DW | 110/113 (97%) | 87 (79%) | 18 (16%) | 5 (4%) | 2 | 14 |
| 44 | BX | 90/96 (94%) | 73 (81%) | 15 (17%) | 2 (2%) | 6 | 31 |
| 44 | DX | 90/96 (94%) | 73 (81%) | 15 (17%) | 2 (2%) | 6 | 31 |
| 45 | BY | 98/110 (89%) | 64 (65%) | 18 (18%) | 16 (16%) | 0 | 1 |
| 45 | DY | 98/110 (89%) | 65 (66%) | 17 (17%) | 16 (16%) | 0 | 1 |
| 46 | BZ | 185/206 (90%) | 146 (79%) | 31 (17%) | 8 (4%) | 2 | 15 |
| 46 | DZ | 185/206 (90%) | 145 (78%) | 32 (17%) | 8 (4%) | 2 | 15 |
| 47 | B0 | 74/85 (87%) | 61 (82%) | 10 (14%) | 3 (4%) | 3 | 16 |
| 47 | D0 | 74/85 (87%) | 61 (82%) | 10 (14%) | 3 (4%) | 3 | 16 |
| 48 | B1 | 86/98 (88%) | 59 (69%) | 16 (19%) | 11 (13%) | 0 | 1 |
| 48 | D1 | 86/98 (88%) | 59 (69%) | 16 (19%) | 11 (13%) | 0 | 1 |
| 49 | B2 | 60/72 (83%) | 43 (72%) | 12 (20%) | 5 (8%) | 1 | 4 |
| 49 | D2 | 60/72 (83%) | 44 (73%) | 11 (18%) | 5 (8%) | 1 | 4 |
| 50 | B3 | 57/60 (95%) | 50 (88%) | 5 (9%) | 2 (4%) | 3 | 20 |
| 50 | D3 | 57/60 (95%) | 50 (88%) | 5 (9%) | 2 (4%) | 3 | 20 |
| 51 | B4 | 28/97 (29%) | 18 (64%) | 6 (21%) | 4 (14%) | 0 | 1 |
| 51 | D4 | 28/97 (29%) | 18 (64%) | 6 (21%) | 4 (14%) | 0 | 1 |
| 52 | B5 | 50/60 (83%) | 40 (80%) | 7 (14%) | 3 (6%) | 1 | 9 |
| 52 | D5 | 50/60 (83%) | 40 (80%) | 7 (14%) | 3 (6%) | 1 | 9 |
| 53 | B6 | 42/54 (78%) | 27 (64%) | 10 (24%) | 5 (12%) | 0 | 1 |
| 53 | D6 | 42/54 (78%) | 27 (64%) | 10 (24%) | 5 (12%) | 0 | 1 |
| 54 | B7 | 46/49 (94%) | 43 (94%) | 3 (6%) | 0 | 100 | 100 |
| 54 | D7 | 46/49 (94%) | 42 (91%) | 4 (9%) | 0 | 100 | 100 |
| 55 | B8 | 61/65 (94%) | 42 (69%) | 12 (20%) | 7 (12%) | 0 | 2 |
| 55 | D8 | 61/65 (94%) | 42 (69%) | 12 (20%) | 7 (12%) | 0 | 2 |
| All | All | 12130/13206 (92%) | 9225 (76%) | 2153 (18%) | 752 (6%) | 1 | 8 |

5 of 752 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 5 | AC | 45 | LYS |
| 5 | AC | 47 | LEU |
| 6 | AD | 5 | ILE |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 6 | AD | 44 | GLY |
| 7 | AE | 85 | GLY |

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 | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 4 | AB | 202/220 (92%) | 186 (92%) | 16 (8%) | 12 | 41 |
| 4 | CB | 202/220 (92%) | 185 (92%) | 17 (8%) | 11 | 38 |
| 5 | AC | 160/188 (85%) | 138 (86%) | 22 (14%) | 3 | 17 |
| 5 | CC | 160/188 (85%) | 138 (86%) | 22 (14%) | 3 | 17 |
| 6 | AD | 180/181 (99%) | 160 (89%) | 20 (11%) | 6 | 25 |
| 6 | CD | 180/181 (99%) | 161 (89%) | 19 (11%) | 6 | 26 |
| 7 | AE | 116/123 (94%) | 99 (85%) | 17 (15%) | 3 | 15 |
| 7 | CE | 116/123 (94%) | 99 (85%) | 17 (15%) | 3 | 15 |
| 8 | AF | 90/90 (100%) | 80 (89%) | 10 (11%) | 6 | 25 |
| 8 | CF | 90/90 (100%) | 81 (90%) | 9 (10%) | 7 | 29 |
| 9 | AG | 126/127 (99%) | 119 (94%) | 7 (6%) | 21 | 56 |
| 9 | CG | 126/127 (99%) | 119 (94%) | 7 (6%) | 21 | 56 |
| 10 | AH | 119/119 (100%) | 106 (89%) | 13 (11%) | 6 | 25 |
| 10 | CH | 119/119 (100%) | 106 (89%) | 13 (11%) | 6 | 25 |
| 11 | AI | 98/99 (99%) | 85 (87%) | 13 (13%) | 4 | 17 |
| 11 | CI | 98/99 (99%) | 86 (88%) | 12 (12%) | 5 | 21 |
| 12 | AJ | 88/92 (96%) | 75 (85%) | 13 (15%) | 3 | 14 |
| 12 | CJ | 88/92 (96%) | 75 (85%) | 13 (15%) | 3 | 14 |
| 13 | AK | 86/99 (87%) | 74 (86%) | 12 (14%) | 3 | 16 |
| 13 | CK | 86/99 (87%) | 74 (86%) | 12 (14%) | 3 | 16 |
| 14 | AL | 103/110 (94%) | 91 (88%) | 12 (12%) | 5 | 22 |
| 14 | CL | 103/110 (94%) | 91 (88%) | 12 (12%) | 5 | 22 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|-------------|----|
| 15 | AM | 94/101 (93%) | 85 (90%) | 9 (10%) | 8 | 32 |
| 15 | CM | 94/101 (93%) | 85 (90%) | 9 (10%) | 8 | 32 |
| 16 | AN | 49/50 (98%) | 44 (90%) | 5 (10%) | 7 | 28 |
| 16 | CN | 49/50 (98%) | 44 (90%) | 5 (10%) | 7 | 28 |
| 17 | AO | 79/80 (99%) | 70 (89%) | 9 (11%) | 5 | 24 |
| 17 | CO | 79/80 (99%) | 70 (89%) | 9 (11%) | 5 | 24 |
| 18 | AP | 72/74 (97%) | 65 (90%) | 7 (10%) | 8 | 31 |
| 18 | CP | 72/74 (97%) | 66 (92%) | 6 (8%) | 11 | 39 |
| 19 | AQ | 94/97 (97%) | 86 (92%) | 8 (8%) | 10 | 38 |
| 19 | CQ | 94/97 (97%) | 86 (92%) | 8 (8%) | 10 | 38 |
| 20 | AR | 61/77 (79%) | 53 (87%) | 8 (13%) | 4 | 18 |
| 20 | CR | 61/77 (79%) | 52 (85%) | 9 (15%) | 3 | 14 |
| 21 | AS | 69/80 (86%) | 58 (84%) | 11 (16%) | 2 | 12 |
| 21 | CS | 69/80 (86%) | 58 (84%) | 11 (16%) | 2 | 12 |
| 22 | AT | 76/82 (93%) | 67 (88%) | 9 (12%) | 5 | 22 |
| 22 | CT | 76/82 (93%) | 68 (90%) | 8 (10%) | 7 | 27 |
| 23 | AU | 19/22 (86%) | 18 (95%) | 1 (5%) | 22 | 58 |
| 23 | CU | 19/22 (86%) | 18 (95%) | 1 (5%) | 22 | 58 |
| 24 | AX | 305/319 (96%) | 258 (85%) | 47 (15%) | 2 | 13 |
| 24 | CX | 305/319 (96%) | 260 (85%) | 45 (15%) | 3 | 14 |
| 27 | BD | 213/218 (98%) | 181 (85%) | 32 (15%) | 3 | 14 |
| 27 | DD | 213/218 (98%) | 181 (85%) | 32 (15%) | 3 | 14 |
| 28 | BE | 165/166 (99%) | 144 (87%) | 21 (13%) | 4 | 19 |
| 28 | DE | 165/166 (99%) | 144 (87%) | 21 (13%) | 4 | 19 |
| 29 | BF | 161/166 (97%) | 142 (88%) | 19 (12%) | 5 | 22 |
| 29 | DF | 161/166 (97%) | 140 (87%) | 21 (13%) | 4 | 19 |
| 30 | BG | 155/156 (99%) | 135 (87%) | 20 (13%) | 4 | 19 |
| 30 | DG | 155/156 (99%) | 135 (87%) | 20 (13%) | 4 | 19 |
| 31 | BH | 132/148 (89%) | 115 (87%) | 17 (13%) | 4 | 19 |
| 31 | DH | 132/148 (89%) | 115 (87%) | 17 (13%) | 4 | 19 |
| 32 | BI | 122/124 (98%) | 101 (83%) | 21 (17%) | 2 | 10 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 32 | DI | 122/124 (98%) | 103 (84%) | 19 (16%) | 2 | 13 |
| 33 | BK | 111/111 (100%) | 95 (86%) | 16 (14%) | 3 | 15 |
| 33 | DK | 111/111 (100%) | 95 (86%) | 16 (14%) | 3 | 15 |
| 34 | BN | 116/139 (84%) | 98 (84%) | 18 (16%) | 2 | 13 |
| 34 | DN | 116/139 (84%) | 98 (84%) | 18 (16%) | 2 | 13 |
| 35 | BO | 100/100 (100%) | 86 (86%) | 14 (14%) | 3 | 16 |
| 35 | DO | 100/100 (100%) | 85 (85%) | 15 (15%) | 3 | 14 |
| 36 | BP | 112/116 (97%) | 80 (71%) | 32 (29%) | 0 | 2 |
| 36 | DP | 112/116 (97%) | 79 (70%) | 33 (30%) | 0 | 1 |
| 37 | BQ | 105/111 (95%) | 91 (87%) | 14 (13%) | 4 | 17 |
| 37 | DQ | 105/111 (95%) | 91 (87%) | 14 (13%) | 4 | 17 |
| 38 | BR | 100/101 (99%) | 90 (90%) | 10 (10%) | 7 | 29 |
| 38 | DR | 100/101 (99%) | 91 (91%) | 9 (9%) | 9 | 35 |
| 39 | BS | 77/88 (88%) | 66 (86%) | 11 (14%) | 3 | 15 |
| 39 | DS | 77/88 (88%) | 66 (86%) | 11 (14%) | 3 | 15 |
| 40 | BT | 121/128 (94%) | 101 (84%) | 20 (16%) | 2 | 11 |
| 40 | DT | 121/128 (94%) | 101 (84%) | 20 (16%) | 2 | 11 |
| 41 | BU | 93/94 (99%) | 82 (88%) | 11 (12%) | 5 | 22 |
| 41 | DU | 93/94 (99%) | 83 (89%) | 10 (11%) | 6 | 26 |
| 42 | BV | 82/82 (100%) | 68 (83%) | 14 (17%) | 2 | 10 |
| 42 | DV | 82/82 (100%) | 69 (84%) | 13 (16%) | 2 | 12 |
| 43 | BW | 91/92 (99%) | 80 (88%) | 11 (12%) | 5 | 21 |
| 43 | DW | 91/92 (99%) | 80 (88%) | 11 (12%) | 5 | 21 |
| 44 | BX | 74/78 (95%) | 58 (78%) | 16 (22%) | 1 | 5 |
| 44 | DX | 74/78 (95%) | 59 (80%) | 15 (20%) | 1 | 6 |
| 45 | BY | 84/91 (92%) | 72 (86%) | 12 (14%) | 3 | 15 |
| 45 | DY | 84/91 (92%) | 70 (83%) | 14 (17%) | 2 | 11 |
| 46 | BZ | 162/179 (90%) | 151 (93%) | 11 (7%) | 16 | 48 |
| 46 | DZ | 162/179 (90%) | 150 (93%) | 12 (7%) | 13 | 44 |
| 47 | B0 | 61/67 (91%) | 53 (87%) | 8 (13%) | 4 | 18 |
| 47 | D0 | 61/67 (91%) | 53 (87%) | 8 (13%) | 4 | 18 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-------------------|------------|------------|-------------|----|
| 48 | B1 | 73/83 (88%) | 58 (80%) | 15 (20%) | 1 | 6 |
| 48 | D1 | 73/83 (88%) | 57 (78%) | 16 (22%) | 1 | 5 |
| 49 | B2 | 58/67 (87%) | 45 (78%) | 13 (22%) | 1 | 4 |
| 49 | D2 | 58/67 (87%) | 45 (78%) | 13 (22%) | 1 | 4 |
| 50 | B3 | 51/52 (98%) | 49 (96%) | 2 (4%) | 32 | 69 |
| 50 | D3 | 51/52 (98%) | 49 (96%) | 2 (4%) | 32 | 69 |
| 51 | B4 | 27/84 (32%) | 21 (78%) | 6 (22%) | 1 | 4 |
| 51 | D4 | 27/84 (32%) | 22 (82%) | 5 (18%) | 1 | 8 |
| 52 | B5 | 45/52 (86%) | 41 (91%) | 4 (9%) | 9 | 35 |
| 52 | D5 | 45/52 (86%) | 42 (93%) | 3 (7%) | 16 | 49 |
| 53 | B6 | 43/52 (83%) | 34 (79%) | 9 (21%) | 1 | 5 |
| 53 | D6 | 43/52 (83%) | 34 (79%) | 9 (21%) | 1 | 5 |
| 54 | B7 | 41/42 (98%) | 35 (85%) | 6 (15%) | 3 | 15 |
| 54 | D7 | 41/42 (98%) | 35 (85%) | 6 (15%) | 3 | 15 |
| 55 | B8 | 53/55 (96%) | 47 (89%) | 6 (11%) | 6 | 24 |
| 55 | D8 | 53/55 (96%) | 47 (89%) | 6 (11%) | 6 | 24 |
| All | All | 10228/10944 (94%) | 8877 (87%) | 1351 (13%) | 4 | 18 |

5 of 1351 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 24 | CX | 231 | VAL |
| 36 | DP | 114 | ILE |
| 27 | DD | 95 | LEU |
| 24 | CX | 227 | VAL |
| 31 | DH | 77 | LYS |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 287 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 36 | DP | 13 | ASN |
| 51 | D4 | 46 | ASN |
| 38 | DR | 16 | HIS |
| 44 | DX | 55 | ASN |
| 38 | BR | 91 | GLN |

5.3.3 RNA [i](#)

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | AA | 1503/1525 (98%) | 287 (19%) | 107 (7%) |
| 1 | CA | 1503/1525 (98%) | 282 (18%) | 106 (7%) |
| 2 | AY | 76/77 (98%) | 15 (19%) | 6 (7%) |
| 2 | AZ | 76/77 (98%) | 15 (19%) | 5 (6%) |
| 2 | CY | 76/77 (98%) | 14 (18%) | 6 (7%) |
| 2 | CZ | 76/77 (98%) | 15 (19%) | 5 (6%) |
| 25 | BA | 2878/2894 (99%) | 589 (20%) | 178 (6%) |
| 25 | DA | 2878/2894 (99%) | 594 (20%) | 173 (6%) |
| 26 | BB | 118/124 (95%) | 17 (14%) | 6 (5%) |
| 26 | DB | 118/124 (95%) | 18 (15%) | 6 (5%) |
| 3 | AV | 10/27 (37%) | 3 (30%) | 3 (30%) |
| 3 | CV | 10/27 (37%) | 3 (30%) | 3 (30%) |
| All | All | 9322/9448 (98%) | 1852 (19%) | 604 (6%) |

5 of 1852 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | AA | 9 | G |
| 1 | AA | 22 | G |
| 1 | AA | 31 | G |
| 1 | AA | 32 | A |
| 1 | AA | 39 | G |

5 of 604 RNA pucker outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|------|------|
| 25 | DA | 547 | A |
| 25 | DA | 2427 | C |
| 25 | DA | 827 | U |
| 25 | DA | 532 | A |
| 25 | DA | 1458 | C |

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2392 ligands modelled in this entry, 2392 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](#)

There are no chain breaks in this entry.

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 | AA | 1504/1525 (98%) | -0.34 | 19 (1%) 77 51 | 35, 78, 175, 261 | 0 |
| 1 | CA | 1504/1525 (98%) | -0.09 | 31 (2%) 63 34 | 34, 99, 199, 271 | 0 |
| 2 | AY | 77/77 (100%) | -0.48 | 0 100 100 | 60, 90, 124, 194 | 0 |
| 2 | AZ | 77/77 (100%) | 1.27 | 19 (24%) 0 0 | 146, 211, 242, 260 | 0 |
| 2 | CY | 77/77 (100%) | -0.31 | 1 (1%) 77 51 | 59, 91, 127, 196 | 0 |
| 2 | CZ | 77/77 (100%) | 1.88 | 25 (32%) 0 0 | 175, 231, 266, 276 | 0 |
| 3 | AV | 10/27 (37%) | 0.18 | 0 100 100 | 62, 77, 118, 184 | 0 |
| 3 | CV | 10/27 (37%) | 0.74 | 2 (20%) 1 0 | 63, 104, 143, 196 | 0 |
| 4 | AB | 234/256 (91%) | 0.38 | 26 (11%) 5 1 | 85, 126, 167, 194 | 0 |
| 4 | CB | 234/256 (91%) | 0.51 | 29 (12%) 4 1 | 91, 127, 174, 204 | 0 |
| 5 | AC | 206/239 (86%) | 0.04 | 11 (5%) 26 10 | 86, 121, 159, 183 | 0 |
| 5 | CC | 206/239 (86%) | 0.26 | 16 (7%) 13 4 | 87, 126, 164, 178 | 0 |
| 6 | AD | 208/209 (99%) | 0.12 | 13 (6%) 20 6 | 50, 79, 127, 164 | 0 |
| 6 | CD | 208/209 (99%) | 0.51 | 20 (9%) 8 2 | 81, 115, 151, 184 | 0 |
| 7 | AE | 151/162 (93%) | 0.01 | 10 (6%) 18 5 | 65, 90, 130, 192 | 0 |
| 7 | CE | 151/162 (93%) | 0.07 | 3 (1%) 65 36 | 71, 100, 145, 173 | 0 |
| 8 | AF | 101/101 (100%) | -0.02 | 2 (1%) 65 36 | 69, 98, 137, 176 | 0 |
| 8 | CF | 101/101 (100%) | -0.12 | 1 (0%) 82 59 | 64, 94, 131, 149 | 0 |
| 9 | AG | 155/156 (99%) | 0.02 | 10 (6%) 18 5 | 82, 113, 154, 172 | 0 |
| 9 | CG | 155/156 (99%) | 0.13 | 5 (3%) 47 20 | 87, 125, 158, 181 | 0 |
| 10 | AH | 138/138 (100%) | 0.04 | 4 (2%) 51 23 | 64, 90, 135, 146 | 0 |
| 10 | CH | 138/138 (100%) | 0.22 | 6 (4%) 35 13 | 80, 107, 145, 171 | 0 |
| 11 | AI | 127/128 (99%) | 0.77 | 18 (14%) 2 1 | 90, 134, 168, 182 | 0 |
| 11 | CI | 127/128 (99%) | 1.37 | 28 (22%) 0 0 | 105, 140, 173, 227 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 12 | AJ | 98/105 (93%) | 1.18 | 23 (23%) 0 0 | 87, 125, 166, 184 | 0 |
| 12 | CJ | 98/105 (93%) | 1.42 | 23 (23%) 0 0 | 106, 144, 175, 186 | 0 |
| 13 | AK | 114/129 (88%) | 0.12 | 7 (6%) 21 7 | 59, 88, 123, 160 | 0 |
| 13 | CK | 114/129 (88%) | 0.42 | 15 (13%) 3 1 | 64, 91, 135, 175 | 0 |
| 14 | AL | 122/134 (91%) | -0.05 | 4 (3%) 46 20 | 47, 67, 114, 144 | 0 |
| 14 | CL | 122/134 (91%) | 0.23 | 10 (8%) 11 3 | 57, 89, 131, 185 | 0 |
| 15 | AM | 117/126 (92%) | 0.43 | 13 (11%) 5 1 | 93, 122, 159, 171 | 0 |
| 15 | CM | 117/126 (92%) | 0.86 | 19 (16%) 1 0 | 98, 142, 172, 188 | 0 |
| 16 | AN | 60/61 (98%) | 0.69 | 8 (13%) 3 1 | 75, 109, 141, 193 | 0 |
| 16 | CN | 60/61 (98%) | 0.93 | 10 (16%) 1 0 | 80, 113, 158, 175 | 0 |
| 17 | AO | 88/89 (98%) | 0.13 | 1 (1%) 80 56 | 57, 90, 123, 145 | 0 |
| 17 | CO | 88/89 (98%) | 0.07 | 2 (2%) 60 31 | 60, 91, 130, 145 | 0 |
| 18 | AP | 83/88 (94%) | 0.52 | 7 (8%) 11 3 | 58, 75, 119, 184 | 0 |
| 18 | CP | 83/88 (94%) | 1.34 | 23 (27%) 0 0 | 90, 123, 155, 202 | 0 |
| 19 | AQ | 99/105 (94%) | -0.07 | 1 (1%) 82 59 | 56, 79, 118, 142 | 0 |
| 19 | CQ | 99/105 (94%) | 0.53 | 8 (8%) 12 3 | 76, 105, 140, 159 | 0 |
| 20 | AR | 70/88 (79%) | 0.65 | 4 (5%) 23 8 | 68, 103, 147, 165 | 0 |
| 20 | CR | 70/88 (79%) | 0.83 | 11 (15%) 2 1 | 64, 87, 139, 147 | 0 |
| 21 | AS | 78/93 (83%) | 1.82 | 31 (39%) 0 0 | 98, 136, 170, 193 | 0 |
| 21 | CS | 78/93 (83%) | 1.31 | 22 (28%) 0 0 | 114, 150, 184, 205 | 0 |
| 22 | AT | 99/106 (93%) | 0.25 | 5 (5%) 28 10 | 51, 84, 138, 166 | 0 |
| 22 | CT | 99/106 (93%) | 0.96 | 20 (20%) 1 0 | 87, 117, 160, 184 | 0 |
| 23 | AU | 24/27 (88%) | 4.59 | 22 (91%) 0 0 | 93, 122, 162, 191 | 0 |
| 23 | CU | 24/27 (88%) | 5.68 | 24 (100%) 0 0 | 100, 137, 178, 187 | 0 |
| 24 | AX | 362/378 (95%) | 0.83 | 70 (19%) 1 0 | 61, 129, 207, 244 | 0 |
| 24 | CX | 362/378 (95%) | 1.26 | 86 (23%) 0 0 | 94, 150, 244, 273 | 0 |
| 25 | BA | 2879/2894 (99%) | -0.33 | 74 (2%) 56 27 | 14, 64, 186, 278 | 0 |
| 25 | DA | 2879/2894 (99%) | -0.22 | 89 (3%) 49 21 | 10, 67, 204, 287 | 0 |
| 26 | BB | 119/124 (95%) | -0.27 | 0 100 100 | 69, 100, 144, 222 | 0 |
| 26 | DB | 119/124 (95%) | 0.31 | 6 (5%) 28 10 | 87, 147, 205, 258 | 0 |
| 27 | BD | 271/276 (98%) | -0.07 | 7 (2%) 56 27 | 27, 51, 99, 162 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|---------------|-----------------------|-------|
| 27 | DD | 271/276 (98%) | -0.10 | 5 (1%) 68 40 | 26, 51, 92, 146 | 0 |
| 28 | BE | 204/206 (99%) | 0.04 | 10 (4%) 29 11 | 36, 69, 126, 159 | 0 |
| 28 | DE | 204/206 (99%) | 0.46 | 29 (14%) 2 1 | 45, 85, 137, 186 | 0 |
| 29 | BF | 202/210 (96%) | -0.16 | 7 (3%) 44 18 | 38, 71, 131, 153 | 0 |
| 29 | DF | 202/210 (96%) | 0.06 | 6 (2%) 50 22 | 34, 66, 124, 190 | 0 |
| 30 | BG | 181/182 (99%) | 0.60 | 32 (17%) 1 0 | 88, 121, 164, 179 | 0 |
| 30 | DG | 181/182 (99%) | 0.82 | 32 (17%) 1 0 | 113, 153, 182, 206 | 0 |
| 31 | BH | 159/180 (88%) | 0.87 | 34 (21%) 0 0 | 97, 139, 185, 202 | 0 |
| 31 | DH | 159/180 (88%) | 0.14 | 15 (9%) 8 3 | 79, 111, 154, 174 | 0 |
| 32 | BI | 145/148 (97%) | 0.26 | 14 (9%) 7 2 | 54, 106, 147, 198 | 0 |
| 32 | DI | 145/148 (97%) | 0.14 | 7 (4%) 30 11 | 58, 94, 129, 147 | 0 |
| 33 | BK | 147/147 (100%) | 2.36 | 76 (51%) 0 0 | 177, 205, 225, 240 | 0 |
| 33 | DK | 147/147 (100%) | 4.19 | 106 (72%) 0 0 | 207, 236, 257, 274 | 0 |
| 34 | BN | 137/163 (84%) | 0.33 | 9 (6%) 18 5 | 55, 87, 131, 153 | 0 |
| 34 | DN | 137/163 (84%) | 0.06 | 4 (2%) 51 23 | 59, 80, 130, 164 | 0 |
| 35 | BO | 122/122 (100%) | -0.41 | 0 100 100 | 32, 61, 101, 118 | 0 |
| 35 | DO | 122/122 (100%) | -0.41 | 0 100 100 | 47, 72, 108, 129 | 0 |
| 36 | BP | 146/150 (97%) | 0.41 | 12 (8%) 11 3 | 35, 89, 148, 203 | 0 |
| 36 | DP | 146/150 (97%) | 0.27 | 8 (5%) 25 9 | 21, 93, 146, 183 | 0 |
| 37 | BQ | 134/141 (95%) | 0.24 | 8 (5%) 21 7 | 44, 79, 136, 188 | 0 |
| 37 | DQ | 134/141 (95%) | 0.22 | 10 (7%) 14 4 | 56, 91, 148, 192 | 0 |
| 38 | BR | 117/118 (99%) | -0.17 | 0 100 100 | 31, 63, 114, 165 | 0 |
| 38 | DR | 117/118 (99%) | 0.04 | 1 (0%) 84 63 | 48, 73, 130, 148 | 0 |
| 39 | BS | 98/112 (87%) | 0.67 | 20 (20%) 1 0 | 66, 105, 140, 169 | 0 |
| 39 | DS | 98/112 (87%) | 1.85 | 41 (41%) 0 0 | 106, 144, 177, 218 | 0 |
| 40 | BT | 137/146 (93%) | 0.40 | 14 (10%) 6 2 | 41, 76, 136, 156 | 0 |
| 40 | DT | 137/146 (93%) | 0.82 | 22 (16%) 1 0 | 66, 100, 155, 189 | 0 |
| 41 | BU | 117/118 (99%) | 0.43 | 5 (4%) 35 13 | 45, 78, 124, 159 | 0 |
| 41 | DU | 117/118 (99%) | 0.84 | 21 (17%) 1 0 | 39, 68, 120, 194 | 0 |
| 42 | BV | 101/101 (100%) | 0.22 | 6 (5%) 22 7 | 63, 99, 144, 220 | 0 |
| 42 | DV | 101/101 (100%) | 0.46 | 8 (7%) 12 4 | 46, 91, 143, 206 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-------------------|--------|----------------|-----------------------|-------|
| 43 | BW | 112/113 (99%) | -0.15 | 1 (0%) 84 63 | 39, 64, 111, 163 | 0 |
| 43 | DW | 112/113 (99%) | 0.08 | 5 (4%) 33 12 | 31, 61, 119, 155 | 0 |
| 44 | BX | 92/96 (95%) | 0.10 | 4 (4%) 35 13 | 50, 79, 122, 149 | 0 |
| 44 | DX | 92/96 (95%) | 0.45 | 8 (8%) 10 3 | 38, 65, 114, 150 | 0 |
| 45 | BY | 100/110 (90%) | 1.22 | 22 (22%) 0 0 | 75, 112, 179, 200 | 0 |
| 45 | DY | 100/110 (90%) | 0.79 | 14 (14%) 2 1 | 53, 86, 160, 186 | 0 |
| 46 | BZ | 187/206 (90%) | 0.32 | 16 (8%) 10 3 | 83, 119, 156, 196 | 0 |
| 46 | DZ | 187/206 (90%) | 0.79 | 30 (16%) 1 1 | 107, 139, 176, 201 | 0 |
| 47 | B0 | 76/85 (89%) | -0.13 | 0 100 100 | 56, 78, 115, 150 | 0 |
| 47 | D0 | 76/85 (89%) | 0.02 | 2 (2%) 56 27 | 73, 99, 139, 160 | 0 |
| 48 | B1 | 88/98 (89%) | -0.02 | 2 (2%) 60 31 | 31, 66, 119, 177 | 0 |
| 48 | D1 | 88/98 (89%) | 0.14 | 3 (3%) 45 19 | 34, 68, 143, 172 | 0 |
| 49 | B2 | 62/72 (86%) | 0.13 | 2 (3%) 47 20 | 55, 90, 131, 165 | 0 |
| 49 | D2 | 62/72 (86%) | 0.03 | 4 (6%) 18 5 | 37, 75, 147, 177 | 0 |
| 50 | B3 | 59/60 (98%) | 0.38 | 5 (8%) 10 3 | 65, 85, 145, 166 | 0 |
| 50 | D3 | 59/60 (98%) | 0.14 | 1 (1%) 70 41 | 57, 83, 129, 170 | 0 |
| 51 | B4 | 30/97 (30%) | 0.30 | 2 (6%) 17 5 | 101, 135, 178, 183 | 0 |
| 51 | D4 | 30/97 (30%) | 0.05 | 0 100 100 | 115, 149, 178, 183 | 0 |
| 52 | B5 | 52/60 (86%) | 0.18 | 3 (5%) 23 7 | 49, 79, 147, 166 | 0 |
| 52 | D5 | 52/60 (86%) | -0.29 | 2 (3%) 40 16 | 42, 80, 147, 167 | 0 |
| 53 | B6 | 44/54 (81%) | 4.64 | 32 (72%) 0 0 | 106, 136, 175, 224 | 0 |
| 53 | D6 | 44/54 (81%) | 5.17 | 36 (81%) 0 0 | 111, 140, 175, 192 | 0 |
| 54 | B7 | 48/49 (97%) | 1.28 | 11 (22%) 0 0 | 38, 57, 119, 143 | 0 |
| 54 | D7 | 48/49 (97%) | 0.70 | 6 (12%) 3 1 | 31, 44, 96, 161 | 0 |
| 55 | B8 | 63/65 (96%) | 0.37 | 6 (9%) 8 3 | 42, 59, 117, 156 | 0 |
| 55 | D8 | 63/65 (96%) | 0.36 | 4 (6%) 20 6 | 48, 72, 133, 168 | 0 |
| All | All | 21662/22654 (95%) | 0.20 | 1727 (7%) 12 4 | 10, 90, 190, 287 | 0 |

The worst 5 of 1727 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 29 | DF | 207 | GLY | 20.4 |
| 53 | B6 | 13 | CYS | 17.1 |

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| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-------|------|------|
| 11 | CI | 8 | GLY | 15.6 |
| 53 | B6 | 23 | THR | 13.8 |
| 2 | CZ | 17(A) | U | 13.1 |

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

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

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 | AA | 1919 | 1/1 | 0.09 | 0.15 | 88,88,88,88 | 0 |
| 56 | MG | CA | 1679 | 1/1 | 0.22 | 0.94 | 90,90,90,90 | 0 |
| 56 | MG | AA | 1605 | 1/1 | 0.28 | 0.41 | 88,88,88,88 | 0 |
| 56 | MG | AA | 1915 | 1/1 | 0.31 | 0.20 | 109,109,109,109 | 0 |
| 56 | MG | AA | 1651 | 1/1 | 0.33 | 0.31 | 106,106,106,106 | 0 |
| 56 | MG | BA | 3623 | 1/1 | 0.34 | 0.21 | 103,103,103,103 | 0 |
| 56 | MG | AA | 1790 | 1/1 | 0.35 | 0.16 | 97,97,97,97 | 0 |
| 56 | MG | BA | 3437 | 1/1 | 0.36 | 0.41 | 117,117,117,117 | 0 |
| 56 | MG | BA | 3093 | 1/1 | 0.37 | 0.60 | 80,80,80,80 | 0 |
| 56 | MG | BB | 205 | 1/1 | 0.38 | 0.42 | 100,100,100,100 | 0 |
| 56 | MG | DA | 3320 | 1/1 | 0.38 | 0.71 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3899 | 1/1 | 0.40 | 0.99 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3874 | 1/1 | 0.41 | 0.66 | 103,103,103,103 | 0 |
| 56 | MG | CZ | 106 | 1/1 | 0.43 | 0.16 | 82,82,82,82 | 0 |
| 56 | MG | AA | 1684 | 1/1 | 0.43 | 0.47 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3061 | 1/1 | 0.46 | 0.11 | 76,76,76,76 | 0 |
| 56 | MG | CA | 1738 | 1/1 | 0.46 | 0.32 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1678 | 1/1 | 0.47 | 0.49 | 92,92,92,92 | 0 |
| 56 | MG | CA | 1769 | 1/1 | 0.47 | 0.20 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3260 | 1/1 | 0.48 | 0.26 | 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 | AA | 1938 | 1/1 | 0.49 | 0.36 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1653 | 1/1 | 0.49 | 0.43 | 95,95,95,95 | 0 |
| 56 | MG | BA | 3445 | 1/1 | 0.49 | 0.28 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1821 | 1/1 | 0.49 | 0.28 | 90,90,90,90 | 0 |
| 56 | MG | BA | 3073 | 1/1 | 0.51 | 0.33 | 57,57,57,57 | 0 |
| 56 | MG | BI | 201 | 1/1 | 0.52 | 0.14 | 78,78,78,78 | 0 |
| 56 | MG | BA | 3252 | 1/1 | 0.53 | 0.11 | 80,80,80,80 | 0 |
| 56 | MG | AA | 1652 | 1/1 | 0.53 | 0.37 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3643 | 1/1 | 0.53 | 0.38 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3117 | 1/1 | 0.53 | 0.53 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1949 | 1/1 | 0.54 | 0.31 | 90,90,90,90 | 0 |
| 56 | MG | BA | 3400 | 1/1 | 0.55 | 0.09 | 101,101,101,101 | 0 |
| 56 | MG | B2 | 101 | 1/1 | 0.56 | 0.35 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3367 | 1/1 | 0.56 | 0.33 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3048 | 1/1 | 0.56 | 0.88 | 58,58,58,58 | 0 |
| 56 | MG | BB | 235 | 1/1 | 0.56 | 0.13 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3454 | 1/1 | 0.56 | 0.32 | 63,63,63,63 | 0 |
| 56 | MG | BT | 201 | 1/1 | 0.56 | 0.68 | 81,81,81,81 | 0 |
| 56 | MG | BA | 3884 | 1/1 | 0.58 | 0.24 | 80,80,80,80 | 0 |
| 56 | MG | BA | 3505 | 1/1 | 0.58 | 0.16 | 92,92,92,92 | 0 |
| 56 | MG | AA | 1958 | 1/1 | 0.58 | 0.69 | 87,87,87,87 | 0 |
| 56 | MG | BA | 3176 | 1/1 | 0.58 | 0.43 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3758 | 1/1 | 0.58 | 0.53 | 94,94,94,94 | 0 |
| 56 | MG | AZ | 106 | 1/1 | 0.58 | 0.48 | 93,93,93,93 | 0 |
| 56 | MG | BA | 3077 | 1/1 | 0.59 | 0.23 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3210 | 1/1 | 0.59 | 0.38 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3653 | 1/1 | 0.59 | 0.51 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1951 | 1/1 | 0.60 | 0.36 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3624 | 1/1 | 0.60 | 0.17 | 89,89,89,89 | 0 |
| 56 | MG | BA | 3332 | 1/1 | 0.60 | 0.15 | 90,90,90,90 | 0 |
| 56 | MG | BB | 207 | 1/1 | 0.60 | 0.30 | 84,84,84,84 | 0 |
| 56 | MG | BB | 230 | 1/1 | 0.60 | 0.39 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3579 | 1/1 | 0.61 | 0.14 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3306 | 1/1 | 0.62 | 0.43 | 52,52,52,52 | 0 |
| 56 | MG | AV | 5502 | 1/1 | 0.62 | 0.59 | 89,89,89,89 | 0 |
| 56 | MG | AA | 1875 | 1/1 | 0.62 | 0.55 | 83,83,83,83 | 0 |
| 56 | MG | BW | 201 | 1/1 | 0.63 | 0.42 | 80,80,80,80 | 0 |
| 56 | MG | DA | 3304 | 1/1 | 0.63 | 0.33 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3704 | 1/1 | 0.63 | 0.17 | 88,88,88,88 | 0 |
| 56 | MG | BA | 3362 | 1/1 | 0.64 | 0.65 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3020 | 1/1 | 0.64 | 0.36 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3239 | 1/1 | 0.64 | 0.47 | 69,69,69,69 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | CA | 1713 | 1/1 | 0.64 | 0.58 | 80,80,80,80 | 0 |
| 56 | MG | BA | 3431 | 1/1 | 0.64 | 0.17 | 63,63,63,63 | 0 |
| 56 | MG | BB | 212 | 1/1 | 0.65 | 0.17 | 82,82,82,82 | 0 |
| 56 | MG | CA | 1783 | 1/1 | 0.65 | 0.23 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3661 | 1/1 | 0.65 | 0.38 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3374 | 1/1 | 0.65 | 0.47 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3329 | 1/1 | 0.65 | 0.17 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3068 | 1/1 | 0.65 | 0.20 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3373 | 1/1 | 0.65 | 0.28 | 92,92,92,92 | 0 |
| 56 | MG | AA | 1953 | 1/1 | 0.66 | 0.14 | 87,87,87,87 | 0 |
| 56 | MG | AA | 1950 | 1/1 | 0.66 | 0.15 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3382 | 1/1 | 0.66 | 0.08 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3193 | 1/1 | 0.66 | 0.55 | 83,83,83,83 | 0 |
| 56 | MG | AA | 1969 | 1/1 | 0.66 | 0.09 | 46,46,46,46 | 0 |
| 56 | MG | BB | 220 | 1/1 | 0.66 | 0.58 | 84,84,84,84 | 0 |
| 56 | MG | CA | 1696 | 1/1 | 0.66 | 0.29 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1638 | 1/1 | 0.66 | 0.46 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3800 | 1/1 | 0.67 | 0.40 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1964 | 1/1 | 0.67 | 0.41 | 79,79,79,79 | 0 |
| 56 | MG | AX | 405 | 1/1 | 0.67 | 0.09 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3340 | 1/1 | 0.67 | 0.61 | 73,73,73,73 | 0 |
| 56 | MG | BU | 201 | 1/1 | 0.67 | 0.41 | 83,83,83,83 | 0 |
| 56 | MG | AA | 1947 | 1/1 | 0.67 | 0.12 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3600 | 1/1 | 0.67 | 0.43 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1819 | 1/1 | 0.67 | 0.27 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3795 | 1/1 | 0.67 | 0.35 | 84,84,84,84 | 0 |
| 56 | MG | BA | 3198 | 1/1 | 0.68 | 0.46 | 76,76,76,76 | 0 |
| 56 | MG | AA | 1622 | 1/1 | 0.68 | 0.33 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3470 | 1/1 | 0.68 | 0.35 | 77,77,77,77 | 0 |
| 56 | MG | AA | 1885 | 1/1 | 0.68 | 0.32 | 58,58,58,58 | 0 |
| 56 | MG | BD | 5007 | 1/1 | 0.68 | 0.21 | 55,55,55,55 | 0 |
| 56 | MG | CA | 1781 | 1/1 | 0.68 | 0.21 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3598 | 1/1 | 0.69 | 0.48 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3170 | 1/1 | 0.69 | 0.34 | 80,80,80,80 | 0 |
| 56 | MG | CA | 1758 | 1/1 | 0.69 | 0.19 | 78,78,78,78 | 0 |
| 56 | MG | AZ | 102 | 1/1 | 0.69 | 0.13 | 71,71,71,71 | 0 |
| 56 | MG | AA | 1770 | 1/1 | 0.69 | 0.43 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3496 | 1/1 | 0.69 | 0.25 | 63,63,63,63 | 0 |
| 56 | MG | BB | 201 | 1/1 | 0.69 | 0.40 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3101 | 1/1 | 0.69 | 0.65 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3296 | 1/1 | 0.69 | 0.43 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3506 | 1/1 | 0.69 | 0.25 | 59,59,59,59 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BA | 3535 | 1/1 | 0.69 | 0.28 | 62,62,62,62 | 0 |
| 56 | MG | AA | 1989 | 1/1 | 0.69 | 0.69 | 81,81,81,81 | 0 |
| 56 | MG | AA | 1619 | 1/1 | 0.70 | 0.44 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3794 | 1/1 | 0.70 | 0.12 | 65,65,65,65 | 0 |
| 56 | MG | BB | 211 | 1/1 | 0.70 | 0.17 | 81,81,81,81 | 0 |
| 56 | MG | BA | 3637 | 1/1 | 0.70 | 0.29 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3343 | 1/1 | 0.70 | 0.64 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3171 | 1/1 | 0.70 | 0.68 | 77,77,77,77 | 0 |
| 56 | MG | AA | 1899 | 1/1 | 0.70 | 0.35 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3318 | 1/1 | 0.70 | 0.33 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3156 | 1/1 | 0.70 | 0.48 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3751 | 1/1 | 0.70 | 0.34 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3698 | 1/1 | 0.71 | 0.20 | 94,94,94,94 | 0 |
| 56 | MG | AA | 1664 | 1/1 | 0.71 | 0.19 | 73,73,73,73 | 0 |
| 56 | MG | CG | 202 | 1/1 | 0.71 | 0.23 | 82,82,82,82 | 0 |
| 56 | MG | AA | 2014 | 1/1 | 0.71 | 0.18 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3540 | 1/1 | 0.71 | 0.26 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3057 | 1/1 | 0.71 | 0.16 | 80,80,80,80 | 0 |
| 56 | MG | CA | 1762 | 1/1 | 0.71 | 0.29 | 69,69,69,69 | 0 |
| 56 | MG | BZ | 301 | 1/1 | 0.71 | 0.16 | 81,81,81,81 | 0 |
| 56 | MG | BA | 3680 | 1/1 | 0.71 | 0.16 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3013 | 1/1 | 0.72 | 0.63 | 103,103,103,103 | 0 |
| 56 | MG | AA | 1878 | 1/1 | 0.72 | 0.25 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3474 | 1/1 | 0.72 | 0.48 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3113 | 1/1 | 0.72 | 0.23 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3031 | 1/1 | 0.72 | 0.39 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1769 | 1/1 | 0.72 | 0.69 | 87,87,87,87 | 0 |
| 56 | MG | BA | 3389 | 1/1 | 0.72 | 1.02 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1750 | 1/1 | 0.72 | 0.16 | 97,97,97,97 | 0 |
| 56 | MG | BA | 3412 | 1/1 | 0.72 | 0.19 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3422 | 1/1 | 0.72 | 0.36 | 59,59,59,59 | 0 |
| 56 | MG | CA | 1811 | 1/1 | 0.72 | 0.37 | 79,79,79,79 | 0 |
| 56 | MG | BF | 301 | 1/1 | 0.72 | 0.13 | 63,63,63,63 | 0 |
| 56 | MG | BF | 303 | 1/1 | 0.72 | 0.92 | 50,50,50,50 | 0 |
| 56 | MG | AY | 113 | 1/1 | 0.72 | 0.84 | 89,89,89,89 | 0 |
| 56 | MG | DA | 3114 | 1/1 | 0.72 | 0.33 | 83,83,83,83 | 0 |
| 56 | MG | BO | 205 | 1/1 | 0.72 | 0.33 | 86,86,86,86 | 0 |
| 56 | MG | AA | 1752 | 1/1 | 0.72 | 0.23 | 66,66,66,66 | 0 |
| 56 | MG | DA | 3314 | 1/1 | 0.72 | 0.36 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3864 | 1/1 | 0.72 | 0.29 | 78,78,78,78 | 0 |
| 56 | MG | AX | 411 | 1/1 | 0.72 | 0.46 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3628 | 1/1 | 0.72 | 0.15 | 71,71,71,71 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BA | 3278 | 1/1 | 0.73 | 0.28 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3375 | 1/1 | 0.73 | 0.20 | 76,76,76,76 | 0 |
| 56 | MG | AE | 204 | 1/1 | 0.73 | 0.09 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3189 | 1/1 | 0.73 | 0.30 | 96,96,96,96 | 0 |
| 56 | MG | BE | 302 | 1/1 | 0.73 | 0.40 | 67,67,67,67 | 0 |
| 56 | MG | AZ | 103 | 1/1 | 0.73 | 0.09 | 66,66,66,66 | 0 |
| 56 | MG | AA | 1998 | 1/1 | 0.73 | 0.20 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3876 | 1/1 | 0.73 | 0.45 | 88,88,88,88 | 0 |
| 56 | MG | BA | 3233 | 1/1 | 0.73 | 0.41 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1639 | 1/1 | 0.73 | 0.16 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3923 | 1/1 | 0.73 | 0.29 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3436 | 1/1 | 0.73 | 0.55 | 47,47,47,47 | 0 |
| 56 | MG | AY | 103 | 1/1 | 0.73 | 0.10 | 87,87,87,87 | 0 |
| 56 | MG | B1 | 105 | 1/1 | 0.73 | 0.34 | 87,87,87,87 | 0 |
| 56 | MG | DA | 3313 | 1/1 | 0.73 | 0.39 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3742 | 1/1 | 0.73 | 0.15 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3745 | 1/1 | 0.73 | 0.75 | 70,70,70,70 | 0 |
| 56 | MG | CA | 1685 | 1/1 | 0.73 | 0.50 | 68,68,68,68 | 0 |
| 56 | MG | AA | 1793 | 1/1 | 0.73 | 0.31 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3839 | 1/1 | 0.74 | 0.38 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3222 | 1/1 | 0.74 | 0.34 | 39,39,39,39 | 0 |
| 56 | MG | CA | 1763 | 1/1 | 0.74 | 1.37 | 77,77,77,77 | 0 |
| 56 | MG | AK | 206 | 1/1 | 0.74 | 0.30 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3350 | 1/1 | 0.74 | 0.26 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3609 | 1/1 | 0.74 | 0.38 | 39,39,39,39 | 0 |
| 56 | MG | CA | 1785 | 1/1 | 0.74 | 0.31 | 83,83,83,83 | 0 |
| 56 | MG | BA | 3709 | 1/1 | 0.74 | 0.29 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3273 | 1/1 | 0.74 | 0.62 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3399 | 1/1 | 0.74 | 0.10 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3524 | 1/1 | 0.74 | 0.08 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3757 | 1/1 | 0.74 | 0.43 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3630 | 1/1 | 0.74 | 0.18 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3525 | 1/1 | 0.74 | 0.10 | 77,77,77,77 | 0 |
| 56 | MG | AA | 1935 | 1/1 | 0.74 | 0.11 | 53,53,53,53 | 0 |
| 56 | MG | BB | 226 | 1/1 | 0.74 | 0.32 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3401 | 1/1 | 0.74 | 0.33 | 86,86,86,86 | 0 |
| 56 | MG | BA | 3801 | 1/1 | 0.74 | 0.19 | 51,51,51,51 | 0 |
| 56 | MG | BD | 5003 | 1/1 | 0.74 | 0.15 | 57,57,57,57 | 0 |
| 56 | MG | DD | 5005 | 1/1 | 0.74 | 0.64 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3753 | 1/1 | 0.75 | 0.38 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3471 | 1/1 | 0.75 | 0.36 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1661 | 1/1 | 0.75 | 0.13 | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BQ | 205 | 1/1 | 0.75 | 0.25 | 57,57,57,57 | 0 |
| 56 | MG | CA | 1686 | 1/1 | 0.75 | 0.25 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3792 | 1/1 | 0.75 | 0.31 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3250 | 1/1 | 0.75 | 0.23 | 81,81,81,81 | 0 |
| 56 | MG | BA | 3747 | 1/1 | 0.75 | 0.43 | 64,64,64,64 | 0 |
| 56 | MG | DA | 3370 | 1/1 | 0.75 | 0.21 | 71,71,71,71 | 0 |
| 56 | MG | CY | 111 | 1/1 | 0.75 | 0.52 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1902 | 1/1 | 0.75 | 0.51 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3738 | 1/1 | 0.76 | 1.02 | 57,57,57,57 | 0 |
| 56 | MG | CA | 1705 | 1/1 | 0.76 | 0.85 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1711 | 1/1 | 0.76 | 0.84 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3550 | 1/1 | 0.76 | 0.32 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3231 | 1/1 | 0.76 | 0.23 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3581 | 1/1 | 0.76 | 0.11 | 69,69,69,69 | 0 |
| 56 | MG | AA | 1881 | 1/1 | 0.76 | 0.48 | 98,98,98,98 | 0 |
| 56 | MG | AY | 101 | 1/1 | 0.76 | 0.51 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3441 | 1/1 | 0.76 | 0.60 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3614 | 1/1 | 0.76 | 0.21 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3133 | 1/1 | 0.76 | 0.34 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3055 | 1/1 | 0.76 | 0.20 | 73,73,73,73 | 0 |
| 56 | MG | AA | 1667 | 1/1 | 0.76 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3265 | 1/1 | 0.76 | 0.24 | 42,42,42,42 | 0 |
| 56 | MG | CY | 107 | 1/1 | 0.76 | 0.27 | 60,60,60,60 | 0 |
| 56 | MG | AX | 414 | 1/1 | 0.76 | 0.36 | 97,97,97,97 | 0 |
| 56 | MG | BA | 3009 | 1/1 | 0.76 | 0.60 | 59,59,59,59 | 0 |
| 56 | MG | CK | 202 | 1/1 | 0.76 | 0.21 | 91,91,91,91 | 0 |
| 56 | MG | BA | 3847 | 1/1 | 0.76 | 0.44 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3295 | 1/1 | 0.76 | 0.20 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3011 | 1/1 | 0.76 | 0.22 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1923 | 1/1 | 0.76 | 0.33 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3683 | 1/1 | 0.76 | 0.32 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3891 | 1/1 | 0.76 | 0.32 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3697 | 1/1 | 0.76 | 0.43 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3403 | 1/1 | 0.76 | 0.24 | 98,98,98,98 | 0 |
| 56 | MG | AA | 1929 | 1/1 | 0.76 | 0.21 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3109 | 1/1 | 0.76 | 0.18 | 70,70,70,70 | 0 |
| 56 | MG | CA | 1695 | 1/1 | 0.76 | 0.15 | 59,59,59,59 | 0 |
| 56 | MG | CA | 1694 | 1/1 | 0.77 | 0.13 | 60,60,60,60 | 0 |
| 56 | MG | CY | 104 | 1/1 | 0.77 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | AA | 1897 | 1/1 | 0.77 | 0.36 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3146 | 1/1 | 0.77 | 0.17 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3263 | 1/1 | 0.77 | 0.55 | 47,47,47,47 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BA | 3790 | 1/1 | 0.77 | 0.23 | 86,86,86,86 | 0 |
| 56 | MG | AA | 1723 | 1/1 | 0.77 | 0.32 | 76,76,76,76 | 0 |
| 56 | MG | BB | 227 | 1/1 | 0.77 | 0.31 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3204 | 1/1 | 0.77 | 0.33 | 43,43,43,43 | 0 |
| 56 | MG | CA | 1743 | 1/1 | 0.77 | 0.10 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3014 | 1/1 | 0.77 | 0.37 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3114 | 1/1 | 0.77 | 0.15 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3914 | 1/1 | 0.77 | 0.16 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1764 | 1/1 | 0.77 | 0.43 | 72,72,72,72 | 0 |
| 56 | MG | CA | 1669 | 1/1 | 0.77 | 0.56 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3119 | 1/1 | 0.77 | 0.24 | 54,54,54,54 | 0 |
| 56 | MG | BE | 306 | 1/1 | 0.77 | 0.14 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3461 | 1/1 | 0.77 | 0.21 | 69,69,69,69 | 0 |
| 56 | MG | AA | 1636 | 1/1 | 0.78 | 0.12 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3113 | 1/1 | 0.78 | 0.22 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3210 | 1/1 | 0.78 | 0.14 | 69,69,69,69 | 0 |
| 56 | MG | DA | 3121 | 1/1 | 0.78 | 0.22 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3334 | 1/1 | 0.78 | 0.13 | 77,77,77,77 | 0 |
| 56 | MG | AA | 1864 | 1/1 | 0.78 | 0.12 | 71,71,71,71 | 0 |
| 56 | MG | CA | 1815 | 1/1 | 0.78 | 0.27 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3300 | 1/1 | 0.78 | 0.39 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3593 | 1/1 | 0.78 | 0.47 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3597 | 1/1 | 0.78 | 0.73 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3511 | 1/1 | 0.78 | 0.12 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1867 | 1/1 | 0.78 | 0.12 | 51,51,51,51 | 0 |
| 56 | MG | CH | 202 | 1/1 | 0.78 | 0.15 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3397 | 1/1 | 0.78 | 0.09 | 52,52,52,52 | 0 |
| 56 | MG | CA | 1788 | 1/1 | 0.79 | 0.27 | 94,94,94,94 | 0 |
| 56 | MG | CA | 1796 | 1/1 | 0.79 | 0.20 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3691 | 1/1 | 0.79 | 0.15 | 73,73,73,73 | 0 |
| 56 | MG | AY | 123 | 1/1 | 0.79 | 0.28 | 42,42,42,42 | 0 |
| 56 | MG | AA | 1853 | 1/1 | 0.79 | 0.15 | 24,24,24,24 | 0 |
| 56 | MG | AA | 1955 | 1/1 | 0.79 | 0.48 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3234 | 1/1 | 0.79 | 0.24 | 55,55,55,55 | 0 |
| 56 | MG | CA | 1689 | 1/1 | 0.79 | 0.46 | 81,81,81,81 | 0 |
| 56 | MG | BA | 3859 | 1/1 | 0.79 | 0.34 | 80,80,80,80 | 0 |
| 56 | MG | BA | 3712 | 1/1 | 0.79 | 0.41 | 77,77,77,77 | 0 |
| 56 | MG | AX | 404 | 1/1 | 0.79 | 0.37 | 92,92,92,92 | 0 |
| 56 | MG | BA | 3024 | 1/1 | 0.79 | 0.33 | 87,87,87,87 | 0 |
| 56 | MG | AA | 1813 | 1/1 | 0.79 | 0.31 | 67,67,67,67 | 0 |
| 56 | MG | CA | 1712 | 1/1 | 0.79 | 0.27 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3746 | 1/1 | 0.79 | 0.45 | 71,71,71,71 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | DA | 3129 | 1/1 | 0.79 | 0.59 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3043 | 1/1 | 0.79 | 0.15 | 58,58,58,58 | 0 |
| 56 | MG | BO | 201 | 1/1 | 0.79 | 0.25 | 62,62,62,62 | 0 |
| 56 | MG | DA | 3297 | 1/1 | 0.79 | 1.17 | 89,89,89,89 | 0 |
| 56 | MG | DA | 3300 | 1/1 | 0.79 | 0.42 | 78,78,78,78 | 0 |
| 56 | MG | AA | 1715 | 1/1 | 0.79 | 0.25 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1789 | 1/1 | 0.79 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | AY | 118 | 1/1 | 0.79 | 0.12 | 83,83,83,83 | 0 |
| 56 | MG | BA | 3583 | 1/1 | 0.79 | 0.09 | 71,71,71,71 | 0 |
| 56 | MG | CA | 1775 | 1/1 | 0.79 | 0.39 | 91,91,91,91 | 0 |
| 56 | MG | BA | 3409 | 1/1 | 0.79 | 0.11 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3477 | 1/1 | 0.79 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | DA | 3396 | 1/1 | 0.79 | 0.19 | 66,66,66,66 | 0 |
| 56 | MG | DA | 3400 | 1/1 | 0.79 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3688 | 1/1 | 0.79 | 0.14 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3543 | 1/1 | 0.80 | 0.27 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3880 | 1/1 | 0.80 | 0.16 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3209 | 1/1 | 0.80 | 0.30 | 54,54,54,54 | 0 |
| 56 | MG | BX | 101 | 1/1 | 0.80 | 0.27 | 67,67,67,67 | 0 |
| 56 | MG | AA | 1699 | 1/1 | 0.80 | 0.41 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1932 | 1/1 | 0.80 | 0.15 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1846 | 1/1 | 0.80 | 0.39 | 68,68,68,68 | 0 |
| 56 | MG | CA | 1640 | 1/1 | 0.80 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3730 | 1/1 | 0.80 | 0.52 | 86,86,86,86 | 0 |
| 56 | MG | AA | 1936 | 1/1 | 0.80 | 0.20 | 97,97,97,97 | 0 |
| 56 | MG | BA | 3449 | 1/1 | 0.80 | 0.84 | 73,73,73,73 | 0 |
| 56 | MG | AB | 306 | 1/1 | 0.80 | 0.29 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1691 | 1/1 | 0.80 | 0.15 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3147 | 1/1 | 0.80 | 0.47 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3072 | 1/1 | 0.80 | 0.31 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3163 | 1/1 | 0.80 | 0.31 | 91,91,91,91 | 0 |
| 56 | MG | AA | 1773 | 1/1 | 0.80 | 0.35 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1698 | 1/1 | 0.80 | 0.23 | 53,53,53,53 | 0 |
| 56 | MG | DA | 3217 | 1/1 | 0.80 | 0.07 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3251 | 1/1 | 0.80 | 0.27 | 51,51,51,51 | 0 |
| 56 | MG | DA | 3290 | 1/1 | 0.80 | 0.37 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3172 | 1/1 | 0.80 | 0.16 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1978 | 1/1 | 0.80 | 0.17 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3509 | 1/1 | 0.80 | 0.17 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3648 | 1/1 | 0.80 | 0.22 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3095 | 1/1 | 0.80 | 0.13 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3516 | 1/1 | 0.80 | 0.19 | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3100 | 1/1 | 0.80 | 0.18 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3036 | 1/1 | 0.80 | 0.35 | 88,88,88,88 | 0 |
| 56 | MG | BN | 203 | 1/1 | 0.80 | 0.32 | 72,72,72,72 | 0 |
| 56 | MG | DA | 3376 | 1/1 | 0.80 | 0.10 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3199 | 1/1 | 0.80 | 0.25 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3690 | 1/1 | 0.80 | 0.32 | 80,80,80,80 | 0 |
| 56 | MG | BA | 3207 | 1/1 | 0.80 | 0.12 | 73,73,73,73 | 0 |
| 56 | MG | AA | 1956 | 1/1 | 0.81 | 0.21 | 58,58,58,58 | 0 |
| 56 | MG | AM | 201 | 1/1 | 0.81 | 0.55 | 86,86,86,86 | 0 |
| 56 | MG | BA | 3731 | 1/1 | 0.81 | 0.28 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3196 | 1/1 | 0.81 | 0.37 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1833 | 1/1 | 0.81 | 0.13 | 60,60,60,60 | 0 |
| 56 | MG | B0 | 101 | 1/1 | 0.81 | 0.62 | 63,63,63,63 | 0 |
| 56 | MG | CZ | 109 | 1/1 | 0.81 | 0.10 | 95,95,95,95 | 0 |
| 56 | MG | AA | 1906 | 1/1 | 0.81 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3615 | 1/1 | 0.81 | 0.15 | 56,56,56,56 | 0 |
| 56 | MG | CY | 108 | 1/1 | 0.81 | 0.22 | 60,60,60,60 | 0 |
| 56 | MG | B2 | 102 | 1/1 | 0.81 | 0.50 | 62,62,62,62 | 0 |
| 56 | MG | CF | 202 | 1/1 | 0.81 | 0.22 | 51,51,51,51 | 0 |
| 56 | MG | B8 | 104 | 1/1 | 0.81 | 0.28 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1609 | 1/1 | 0.81 | 0.13 | 58,58,58,58 | 0 |
| 56 | MG | CK | 201 | 1/1 | 0.81 | 0.34 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3122 | 1/1 | 0.81 | 0.12 | 56,56,56,56 | 0 |
| 56 | MG | CA | 1677 | 1/1 | 0.81 | 0.26 | 103,103,103,103 | 0 |
| 56 | MG | DA | 3107 | 1/1 | 0.81 | 0.09 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1711 | 1/1 | 0.81 | 0.42 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3005 | 1/1 | 0.81 | 0.26 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3229 | 1/1 | 0.81 | 0.26 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3518 | 1/1 | 0.81 | 0.29 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3199 | 1/1 | 0.81 | 0.26 | 59,59,59,59 | 0 |
| 56 | MG | AA | 1882 | 1/1 | 0.81 | 0.32 | 53,53,53,53 | 0 |
| 56 | MG | AA | 1992 | 1/1 | 0.81 | 0.17 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3534 | 1/1 | 0.81 | 0.31 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3230 | 1/1 | 0.81 | 0.13 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1863 | 1/1 | 0.81 | 0.11 | 57,57,57,57 | 0 |
| 56 | MG | AY | 124 | 1/1 | 0.81 | 0.44 | 51,51,51,51 | 0 |
| 56 | MG | BE | 304 | 1/1 | 0.81 | 0.19 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3356 | 1/1 | 0.81 | 0.39 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3443 | 1/1 | 0.81 | 0.19 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3850 | 1/1 | 0.81 | 0.30 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3565 | 1/1 | 0.81 | 0.20 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3315 | 1/1 | 0.81 | 0.34 | 62,62,62,62 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BN | 202 | 1/1 | 0.81 | 0.20 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1645 | 1/1 | 0.81 | 0.26 | 42,42,42,42 | 0 |
| 56 | MG | CA | 1767 | 1/1 | 0.81 | 0.10 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3364 | 1/1 | 0.81 | 0.47 | 40,40,40,40 | 0 |
| 56 | MG | AA | 1623 | 1/1 | 0.81 | 0.46 | 74,74,74,74 | 0 |
| 56 | MG | DA | 3380 | 1/1 | 0.81 | 0.25 | 64,64,64,64 | 0 |
| 56 | MG | DA | 3383 | 1/1 | 0.81 | 1.05 | 71,71,71,71 | 0 |
| 56 | MG | DA | 3388 | 1/1 | 0.81 | 0.11 | 19,19,19,19 | 0 |
| 56 | MG | CA | 1779 | 1/1 | 0.81 | 0.51 | 76,76,76,76 | 0 |
| 56 | MG | DA | 3398 | 1/1 | 0.81 | 0.41 | 55,55,55,55 | 0 |
| 56 | MG | BP | 201 | 1/1 | 0.81 | 0.47 | 68,68,68,68 | 0 |
| 56 | MG | DA | 3403 | 1/1 | 0.81 | 0.22 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3027 | 1/1 | 0.81 | 0.32 | 86,86,86,86 | 0 |
| 56 | MG | BB | 217 | 1/1 | 0.82 | 0.42 | 74,74,74,74 | 0 |
| 56 | MG | BB | 219 | 1/1 | 0.82 | 0.20 | 41,41,41,41 | 0 |
| 56 | MG | BY | 202 | 1/1 | 0.82 | 0.17 | 42,42,42,42 | 0 |
| 56 | MG | AA | 1818 | 1/1 | 0.82 | 0.79 | 74,74,74,74 | 0 |
| 56 | MG | AI | 201 | 1/1 | 0.82 | 0.28 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3076 | 1/1 | 0.82 | 0.46 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1860 | 1/1 | 0.82 | 0.23 | 58,58,58,58 | 0 |
| 56 | MG | AY | 115 | 1/1 | 0.82 | 0.13 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3861 | 1/1 | 0.82 | 0.19 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3281 | 1/1 | 0.82 | 0.27 | 63,63,63,63 | 0 |
| 56 | MG | DA | 3283 | 1/1 | 0.82 | 0.82 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3651 | 1/1 | 0.82 | 0.32 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3292 | 1/1 | 0.82 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3264 | 1/1 | 0.82 | 0.25 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1670 | 1/1 | 0.82 | 0.23 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3049 | 1/1 | 0.82 | 0.24 | 56,56,56,56 | 0 |
| 56 | MG | DA | 3311 | 1/1 | 0.82 | 0.19 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3154 | 1/1 | 0.82 | 0.17 | 41,41,41,41 | 0 |
| 56 | MG | CZ | 105 | 1/1 | 0.82 | 0.05 | 74,74,74,74 | 0 |
| 56 | MG | CA | 1684 | 1/1 | 0.82 | 0.23 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3510 | 1/1 | 0.82 | 0.26 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3275 | 1/1 | 0.82 | 0.32 | 46,46,46,46 | 0 |
| 56 | MG | BF | 305 | 1/1 | 0.82 | 0.11 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1696 | 1/1 | 0.82 | 0.39 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3771 | 1/1 | 0.82 | 0.52 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3776 | 1/1 | 0.82 | 0.23 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3102 | 1/1 | 0.82 | 0.22 | 89,89,89,89 | 0 |
| 56 | MG | AA | 1670 | 1/1 | 0.82 | 0.33 | 67,67,67,67 | 0 |
| 56 | MG | AA | 1643 | 1/1 | 0.82 | 0.35 | 50,50,50,50 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | AA | 1786 | 1/1 | 0.82 | 0.18 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3116 | 1/1 | 0.82 | 0.34 | 44,44,44,44 | 0 |
| 56 | MG | CA | 1742 | 1/1 | 0.82 | 0.19 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3428 | 1/1 | 0.82 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | DB | 210 | 1/1 | 0.82 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | BB | 215 | 1/1 | 0.82 | 0.11 | 103,103,103,103 | 0 |
| 56 | MG | AA | 1823 | 1/1 | 0.83 | 0.23 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3379 | 1/1 | 0.83 | 0.28 | 115,115,115,115 | 0 |
| 56 | MG | BA | 3759 | 1/1 | 0.83 | 0.23 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3480 | 1/1 | 0.83 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3483 | 1/1 | 0.83 | 0.43 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1827 | 1/1 | 0.83 | 0.26 | 44,44,44,44 | 0 |
| 56 | MG | BE | 301 | 1/1 | 0.83 | 0.09 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3384 | 1/1 | 0.83 | 0.18 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1630 | 1/1 | 0.83 | 0.35 | 65,65,65,65 | 0 |
| 56 | MG | AA | 1647 | 1/1 | 0.83 | 0.28 | 64,64,64,64 | 0 |
| 56 | MG | CA | 1718 | 1/1 | 0.83 | 0.21 | 41,41,41,41 | 0 |
| 56 | MG | CA | 1722 | 1/1 | 0.83 | 0.20 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3050 | 1/1 | 0.83 | 0.14 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3231 | 1/1 | 0.83 | 0.18 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3283 | 1/1 | 0.83 | 0.40 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1754 | 1/1 | 0.83 | 0.30 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1983 | 1/1 | 0.83 | 0.43 | 67,67,67,67 | 0 |
| 56 | MG | AA | 1655 | 1/1 | 0.83 | 0.14 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3410 | 1/1 | 0.83 | 0.15 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3684 | 1/1 | 0.83 | 0.18 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3862 | 1/1 | 0.83 | 0.10 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3065 | 1/1 | 0.83 | 0.13 | 78,78,78,78 | 0 |
| 56 | MG | BA | 3010 | 1/1 | 0.83 | 0.96 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3331 | 1/1 | 0.83 | 0.06 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3692 | 1/1 | 0.83 | 0.41 | 52,52,52,52 | 0 |
| 56 | MG | AA | 1633 | 1/1 | 0.83 | 0.19 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3548 | 1/1 | 0.83 | 0.14 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3230 | 1/1 | 0.83 | 0.11 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3560 | 1/1 | 0.83 | 0.28 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3149 | 1/1 | 0.83 | 0.18 | 29,29,29,29 | 0 |
| 56 | MG | AA | 1730 | 1/1 | 0.83 | 0.25 | 72,72,72,72 | 0 |
| 56 | MG | AA | 2012 | 1/1 | 0.83 | 0.27 | 55,55,55,55 | 0 |
| 56 | MG | AE | 203 | 1/1 | 0.83 | 0.29 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3166 | 1/1 | 0.83 | 0.33 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3460 | 1/1 | 0.83 | 0.82 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1771 | 1/1 | 0.83 | 0.26 | 45,45,45,45 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | CY | 110 | 1/1 | 0.83 | 0.29 | 90,90,90,90 | 0 |
| 56 | MG | AA | 1873 | 1/1 | 0.83 | 0.41 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3604 | 1/1 | 0.83 | 0.49 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1739 | 1/1 | 0.83 | 0.24 | 55,55,55,55 | 0 |
| 56 | MG | BB | 224 | 1/1 | 0.83 | 0.18 | 65,65,65,65 | 0 |
| 56 | MG | CA | 1741 | 1/1 | 0.84 | 0.28 | 50,50,50,50 | 0 |
| 56 | MG | BB | 218 | 1/1 | 0.84 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | BA | 3840 | 1/1 | 0.84 | 0.42 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3039 | 1/1 | 0.84 | 0.43 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3131 | 1/1 | 0.84 | 0.30 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1743 | 1/1 | 0.84 | 0.11 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1957 | 1/1 | 0.84 | 0.07 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1675 | 1/1 | 0.84 | 0.17 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3481 | 1/1 | 0.84 | 0.82 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3482 | 1/1 | 0.84 | 0.28 | 63,63,63,63 | 0 |
| 56 | MG | B5 | 101 | 1/1 | 0.84 | 0.28 | 63,63,63,63 | 0 |
| 56 | MG | DA | 3239 | 1/1 | 0.84 | 0.10 | 78,78,78,78 | 0 |
| 56 | MG | AA | 1610 | 1/1 | 0.84 | 0.23 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3428 | 1/1 | 0.84 | 0.60 | 86,86,86,86 | 0 |
| 56 | MG | CA | 1667 | 1/1 | 0.84 | 0.12 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3178 | 1/1 | 0.84 | 0.21 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1612 | 1/1 | 0.84 | 0.41 | 68,68,68,68 | 0 |
| 56 | MG | DA | 3294 | 1/1 | 0.84 | 0.63 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1646 | 1/1 | 0.84 | 0.20 | 38,38,38,38 | 0 |
| 56 | MG | CA | 1814 | 1/1 | 0.84 | 0.15 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3058 | 1/1 | 0.84 | 0.08 | 67,67,67,67 | 0 |
| 56 | MG | CA | 1680 | 1/1 | 0.84 | 0.19 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3906 | 1/1 | 0.84 | 0.24 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3240 | 1/1 | 0.84 | 0.53 | 40,40,40,40 | 0 |
| 56 | MG | CZ | 110 | 1/1 | 0.84 | 0.18 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3918 | 1/1 | 0.84 | 0.56 | 63,63,63,63 | 0 |
| 56 | MG | CY | 105 | 1/1 | 0.84 | 0.18 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3359 | 1/1 | 0.84 | 0.11 | 42,42,42,42 | 0 |
| 56 | MG | BH | 204 | 1/1 | 0.84 | 0.13 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3320 | 1/1 | 0.84 | 0.47 | 84,84,84,84 | 0 |
| 56 | MG | BI | 205 | 1/1 | 0.84 | 0.10 | 45,45,45,45 | 0 |
| 56 | MG | AZ | 101 | 1/1 | 0.84 | 0.15 | 63,63,63,63 | 0 |
| 56 | MG | AE | 205 | 1/1 | 0.84 | 0.12 | 65,65,65,65 | 0 |
| 56 | MG | CF | 203 | 1/1 | 0.84 | 0.27 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3254 | 1/1 | 0.84 | 0.23 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3703 | 1/1 | 0.84 | 0.08 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3617 | 1/1 | 0.84 | 0.24 | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BB | 214 | 1/1 | 0.84 | 0.29 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3205 | 1/1 | 0.84 | 0.56 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3105 | 1/1 | 0.84 | 0.22 | 55,55,55,55 | 0 |
| 56 | MG | AF | 201 | 1/1 | 0.84 | 0.12 | 87,87,87,87 | 0 |
| 56 | MG | DI | 201 | 1/1 | 0.84 | 0.11 | 38,38,38,38 | 0 |
| 56 | MG | AA | 1602 | 1/1 | 0.85 | 0.50 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1785 | 1/1 | 0.85 | 0.26 | 70,70,70,70 | 0 |
| 56 | MG | AC | 301 | 1/1 | 0.85 | 0.19 | 75,75,75,75 | 0 |
| 56 | MG | BI | 203 | 1/1 | 0.85 | 0.14 | 53,53,53,53 | 0 |
| 56 | MG | AX | 408 | 1/1 | 0.85 | 0.10 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3881 | 1/1 | 0.85 | 0.41 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3590 | 1/1 | 0.85 | 0.21 | 32,32,32,32 | 0 |
| 56 | MG | AC | 302 | 1/1 | 0.85 | 0.36 | 88,88,88,88 | 0 |
| 56 | MG | BA | 3725 | 1/1 | 0.85 | 0.12 | 23,23,23,23 | 0 |
| 56 | MG | CA | 1757 | 1/1 | 0.85 | 0.34 | 66,66,66,66 | 0 |
| 56 | MG | AA | 2021 | 1/1 | 0.85 | 0.11 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3181 | 1/1 | 0.85 | 0.20 | 23,23,23,23 | 0 |
| 56 | MG | BA | 3502 | 1/1 | 0.85 | 0.18 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1948 | 1/1 | 0.85 | 0.12 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3192 | 1/1 | 0.85 | 0.31 | 50,50,50,50 | 0 |
| 56 | MG | CA | 1773 | 1/1 | 0.85 | 0.12 | 66,66,66,66 | 0 |
| 56 | MG | DA | 3282 | 1/1 | 0.85 | 0.52 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3612 | 1/1 | 0.85 | 0.10 | 9,9,9,9 | 0 |
| 56 | MG | BA | 3346 | 1/1 | 0.85 | 0.34 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3349 | 1/1 | 0.85 | 0.17 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3752 | 1/1 | 0.85 | 0.81 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3124 | 1/1 | 0.85 | 0.25 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3513 | 1/1 | 0.85 | 0.14 | 28,28,28,28 | 0 |
| 56 | MG | AA | 1847 | 1/1 | 0.85 | 0.18 | 30,30,30,30 | 0 |
| 56 | MG | B4 | 101 | 1/1 | 0.85 | 0.10 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3360 | 1/1 | 0.85 | 0.26 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3519 | 1/1 | 0.85 | 0.15 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3078 | 1/1 | 0.85 | 0.18 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3084 | 1/1 | 0.85 | 0.47 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3528 | 1/1 | 0.85 | 0.27 | 60,60,60,60 | 0 |
| 56 | MG | DA | 3356 | 1/1 | 0.85 | 0.09 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3529 | 1/1 | 0.85 | 0.41 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1725 | 1/1 | 0.85 | 0.50 | 56,56,56,56 | 0 |
| 56 | MG | CA | 1678 | 1/1 | 0.85 | 0.18 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3151 | 1/1 | 0.85 | 0.09 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3676 | 1/1 | 0.85 | 0.14 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3536 | 1/1 | 0.85 | 0.31 | 70,70,70,70 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3537 | 1/1 | 0.85 | 0.18 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3390 | 1/1 | 0.85 | 0.13 | 73,73,73,73 | 0 |
| 56 | MG | AY | 120 | 1/1 | 0.85 | 0.10 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3377 | 1/1 | 0.85 | 0.14 | 73,73,73,73 | 0 |
| 56 | MG | CG | 201 | 1/1 | 0.85 | 0.12 | 70,70,70,70 | 0 |
| 56 | MG | AK | 201 | 1/1 | 0.85 | 0.56 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3157 | 1/1 | 0.85 | 0.39 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3440 | 1/1 | 0.85 | 0.12 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1709 | 1/1 | 0.85 | 0.16 | 54,54,54,54 | 0 |
| 56 | MG | BF | 304 | 1/1 | 0.85 | 0.36 | 65,65,65,65 | 0 |
| 56 | MG | CA | 1706 | 1/1 | 0.85 | 0.27 | 62,62,62,62 | 0 |
| 56 | MG | AA | 1656 | 1/1 | 0.86 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | CZ | 108 | 1/1 | 0.86 | 0.15 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3638 | 1/1 | 0.86 | 0.21 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3642 | 1/1 | 0.86 | 0.14 | 67,67,67,67 | 0 |
| 56 | MG | AA | 2003 | 1/1 | 0.86 | 0.15 | 54,54,54,54 | 0 |
| 56 | MG | BS | 202 | 1/1 | 0.86 | 0.07 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3202 | 1/1 | 0.86 | 0.54 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3123 | 1/1 | 0.86 | 0.07 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3407 | 1/1 | 0.86 | 0.43 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3871 | 1/1 | 0.86 | 0.78 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3872 | 1/1 | 0.86 | 0.26 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3873 | 1/1 | 0.86 | 0.41 | 44,44,44,44 | 0 |
| 56 | MG | AA | 1868 | 1/1 | 0.86 | 0.25 | 38,38,38,38 | 0 |
| 56 | MG | AA | 1828 | 1/1 | 0.86 | 0.28 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3877 | 1/1 | 0.86 | 0.28 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3008 | 1/1 | 0.86 | 0.25 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3416 | 1/1 | 0.86 | 0.38 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3051 | 1/1 | 0.86 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3074 | 1/1 | 0.86 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3421 | 1/1 | 0.86 | 0.27 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1766 | 1/1 | 0.86 | 0.36 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3425 | 1/1 | 0.86 | 0.29 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3901 | 1/1 | 0.86 | 0.37 | 62,62,62,62 | 0 |
| 56 | MG | AA | 1876 | 1/1 | 0.86 | 0.21 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3913 | 1/1 | 0.86 | 0.24 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1672 | 1/1 | 0.86 | 0.35 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3693 | 1/1 | 0.86 | 0.16 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3432 | 1/1 | 0.86 | 0.10 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3341 | 1/1 | 0.86 | 0.27 | 70,70,70,70 | 0 |
| 56 | MG | CA | 1682 | 1/1 | 0.86 | 0.19 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3700 | 1/1 | 0.86 | 0.14 | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3152 | 1/1 | 0.86 | 0.40 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3345 | 1/1 | 0.86 | 0.17 | 42,42,42,42 | 0 |
| 56 | MG | DA | 3238 | 1/1 | 0.86 | 0.14 | 62,62,62,62 | 0 |
| 56 | MG | AA | 1744 | 1/1 | 0.86 | 0.32 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1611 | 1/1 | 0.86 | 0.28 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3556 | 1/1 | 0.86 | 0.30 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1708 | 1/1 | 0.86 | 0.33 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3022 | 1/1 | 0.86 | 0.19 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3458 | 1/1 | 0.86 | 0.33 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3580 | 1/1 | 0.86 | 0.20 | 54,54,54,54 | 0 |
| 56 | MG | BB | 222 | 1/1 | 0.86 | 0.20 | 39,39,39,39 | 0 |
| 56 | MG | DA | 3295 | 1/1 | 0.86 | 0.16 | 33,33,33,33 | 0 |
| 56 | MG | AF | 202 | 1/1 | 0.86 | 0.09 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3092 | 1/1 | 0.86 | 0.40 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3466 | 1/1 | 0.86 | 0.31 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3308 | 1/1 | 0.86 | 0.13 | 46,46,46,46 | 0 |
| 56 | MG | CA | 1729 | 1/1 | 0.86 | 0.35 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3749 | 1/1 | 0.86 | 0.53 | 53,53,53,53 | 0 |
| 56 | MG | BB | 232 | 1/1 | 0.86 | 0.10 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1940 | 1/1 | 0.86 | 0.39 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3255 | 1/1 | 0.86 | 0.16 | 72,72,72,72 | 0 |
| 56 | MG | AA | 1693 | 1/1 | 0.86 | 0.20 | 79,79,79,79 | 0 |
| 56 | MG | DA | 3348 | 1/1 | 0.86 | 0.12 | 60,60,60,60 | 0 |
| 56 | MG | AK | 202 | 1/1 | 0.86 | 0.17 | 95,95,95,95 | 0 |
| 56 | MG | BA | 3603 | 1/1 | 0.86 | 0.25 | 47,47,47,47 | 0 |
| 56 | MG | BE | 303 | 1/1 | 0.86 | 0.09 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3037 | 1/1 | 0.86 | 0.41 | 61,61,61,61 | 0 |
| 56 | MG | AY | 111 | 1/1 | 0.86 | 0.18 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1771 | 1/1 | 0.86 | 0.23 | 80,80,80,80 | 0 |
| 56 | MG | BA | 3381 | 1/1 | 0.86 | 0.20 | 48,48,48,48 | 0 |
| 56 | MG | DA | 3387 | 1/1 | 0.86 | 0.12 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3778 | 1/1 | 0.86 | 0.20 | 63,63,63,63 | 0 |
| 56 | MG | DA | 3389 | 1/1 | 0.86 | 0.17 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1985 | 1/1 | 0.86 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3485 | 1/1 | 0.86 | 0.15 | 71,71,71,71 | 0 |
| 56 | MG | BF | 306 | 1/1 | 0.86 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | BG | 202 | 1/1 | 0.86 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3045 | 1/1 | 0.86 | 0.59 | 56,56,56,56 | 0 |
| 56 | MG | DA | 3424 | 1/1 | 0.86 | 0.39 | 14,14,14,14 | 0 |
| 56 | MG | BA | 3497 | 1/1 | 0.86 | 0.10 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3501 | 1/1 | 0.86 | 0.13 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3456 | 1/1 | 0.86 | 0.19 | 5,5,5,5 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1763 | 1/1 | 0.86 | 0.13 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3837 | 1/1 | 0.86 | 0.48 | 71,71,71,71 | 0 |
| 56 | MG | DD | 5006 | 1/1 | 0.86 | 0.31 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1865 | 1/1 | 0.86 | 0.13 | 73,73,73,73 | 0 |
| 56 | MG | BH | 203 | 1/1 | 0.87 | 0.10 | 56,56,56,56 | 0 |
| 56 | MG | CA | 1818 | 1/1 | 0.87 | 0.43 | 59,59,59,59 | 0 |
| 56 | MG | AK | 204 | 1/1 | 0.87 | 0.12 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3802 | 1/1 | 0.87 | 0.18 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3807 | 1/1 | 0.87 | 0.23 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3812 | 1/1 | 0.87 | 0.17 | 40,40,40,40 | 0 |
| 56 | MG | BK | 202 | 1/1 | 0.87 | 0.18 | 83,83,83,83 | 0 |
| 56 | MG | BN | 201 | 1/1 | 0.87 | 0.14 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3818 | 1/1 | 0.87 | 0.56 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3819 | 1/1 | 0.87 | 0.48 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3828 | 1/1 | 0.87 | 0.23 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3486 | 1/1 | 0.87 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3135 | 1/1 | 0.87 | 0.24 | 43,43,43,43 | 0 |
| 56 | MG | BQ | 203 | 1/1 | 0.87 | 0.19 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1836 | 1/1 | 0.87 | 0.29 | 53,53,53,53 | 0 |
| 56 | MG | AA | 1748 | 1/1 | 0.87 | 0.09 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3247 | 1/1 | 0.87 | 0.34 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3646 | 1/1 | 0.87 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3248 | 1/1 | 0.87 | 0.28 | 43,43,43,43 | 0 |
| 56 | MG | AO | 102 | 1/1 | 0.87 | 0.39 | 48,48,48,48 | 0 |
| 56 | MG | DA | 3050 | 1/1 | 0.87 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1674 | 1/1 | 0.87 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3069 | 1/1 | 0.87 | 0.43 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3390 | 1/1 | 0.87 | 0.10 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3666 | 1/1 | 0.87 | 0.14 | 46,46,46,46 | 0 |
| 56 | MG | DA | 3102 | 1/1 | 0.87 | 0.31 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1727 | 1/1 | 0.87 | 0.33 | 59,59,59,59 | 0 |
| 56 | MG | AX | 407 | 1/1 | 0.87 | 0.47 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3258 | 1/1 | 0.87 | 0.15 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1934 | 1/1 | 0.87 | 0.39 | 65,65,65,65 | 0 |
| 56 | MG | AX | 410 | 1/1 | 0.87 | 0.11 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3160 | 1/1 | 0.87 | 0.18 | 54,54,54,54 | 0 |
| 56 | MG | CA | 1626 | 1/1 | 0.87 | 0.56 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3132 | 1/1 | 0.87 | 0.53 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3153 | 1/1 | 0.87 | 0.22 | 5,5,5,5 | 0 |
| 56 | MG | AA | 1854 | 1/1 | 0.87 | 0.13 | 39,39,39,39 | 0 |
| 56 | MG | CA | 1652 | 1/1 | 0.87 | 0.62 | 44,44,44,44 | 0 |
| 56 | MG | AA | 1659 | 1/1 | 0.87 | 0.17 | 49,49,49,49 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3168 | 1/1 | 0.87 | 0.42 | 52,52,52,52 | 0 |
| 56 | MG | AA | 1937 | 1/1 | 0.87 | 0.27 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3905 | 1/1 | 0.87 | 0.25 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3235 | 1/1 | 0.87 | 0.10 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3279 | 1/1 | 0.87 | 0.20 | 39,39,39,39 | 0 |
| 56 | MG | AA | 1779 | 1/1 | 0.87 | 0.70 | 34,34,34,34 | 0 |
| 56 | MG | AA | 1889 | 1/1 | 0.87 | 0.42 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3917 | 1/1 | 0.87 | 0.15 | 51,51,51,51 | 0 |
| 56 | MG | AB | 302 | 1/1 | 0.87 | 0.10 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3705 | 1/1 | 0.87 | 0.21 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3707 | 1/1 | 0.87 | 0.50 | 77,77,77,77 | 0 |
| 56 | MG | BB | 202 | 1/1 | 0.87 | 0.07 | 50,50,50,50 | 0 |
| 56 | MG | CA | 1690 | 1/1 | 0.87 | 0.22 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3088 | 1/1 | 0.87 | 0.35 | 63,63,63,63 | 0 |
| 56 | MG | AB | 304 | 1/1 | 0.87 | 0.11 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3714 | 1/1 | 0.87 | 0.28 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3307 | 1/1 | 0.87 | 0.14 | 34,34,34,34 | 0 |
| 56 | MG | BB | 213 | 1/1 | 0.87 | 0.20 | 53,53,53,53 | 0 |
| 56 | MG | AA | 1648 | 1/1 | 0.87 | 0.42 | 87,87,87,87 | 0 |
| 56 | MG | BA | 3323 | 1/1 | 0.87 | 0.25 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3442 | 1/1 | 0.87 | 0.15 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1679 | 1/1 | 0.87 | 0.41 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3744 | 1/1 | 0.87 | 0.16 | 72,72,72,72 | 0 |
| 56 | MG | CA | 1723 | 1/1 | 0.87 | 0.42 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3332 | 1/1 | 0.87 | 0.27 | 33,33,33,33 | 0 |
| 56 | MG | AA | 1607 | 1/1 | 0.87 | 0.21 | 62,62,62,62 | 0 |
| 56 | MG | CA | 1737 | 1/1 | 0.87 | 0.16 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3195 | 1/1 | 0.87 | 0.22 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3360 | 1/1 | 0.87 | 0.31 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3453 | 1/1 | 0.87 | 0.30 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3101 | 1/1 | 0.87 | 0.26 | 47,47,47,47 | 0 |
| 56 | MG | AA | 2020 | 1/1 | 0.87 | 0.13 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3103 | 1/1 | 0.87 | 0.57 | 78,78,78,78 | 0 |
| 56 | MG | BA | 3200 | 1/1 | 0.87 | 0.73 | 76,76,76,76 | 0 |
| 56 | MG | BA | 3462 | 1/1 | 0.87 | 0.17 | 35,35,35,35 | 0 |
| 56 | MG | AA | 1767 | 1/1 | 0.87 | 0.11 | 45,45,45,45 | 0 |
| 56 | MG | AA | 2023 | 1/1 | 0.87 | 0.10 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3765 | 1/1 | 0.87 | 0.40 | 60,60,60,60 | 0 |
| 56 | MG | DA | 3391 | 1/1 | 0.87 | 0.11 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3768 | 1/1 | 0.87 | 0.15 | 31,31,31,31 | 0 |
| 56 | MG | AA | 2024 | 1/1 | 0.87 | 0.23 | 53,53,53,53 | 0 |
| 56 | MG | AA | 1911 | 1/1 | 0.87 | 0.11 | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AH | 202 | 1/1 | 0.87 | 0.27 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3781 | 1/1 | 0.87 | 0.21 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3038 | 1/1 | 0.87 | 0.14 | 41,41,41,41 | 0 |
| 56 | MG | AA | 1872 | 1/1 | 0.87 | 0.35 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3449 | 1/1 | 0.87 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3620 | 1/1 | 0.87 | 0.23 | 53,53,53,53 | 0 |
| 56 | MG | DA | 3481 | 1/1 | 0.87 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | DB | 208 | 1/1 | 0.87 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1791 | 1/1 | 0.87 | 0.41 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1916 | 1/1 | 0.87 | 0.09 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1918 | 1/1 | 0.87 | 0.08 | 58,58,58,58 | 0 |
| 56 | MG | DG | 202 | 1/1 | 0.87 | 0.14 | 59,59,59,59 | 0 |
| 56 | MG | BH | 202 | 1/1 | 0.87 | 0.17 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1700 | 1/1 | 0.88 | 0.36 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1668 | 1/1 | 0.88 | 0.08 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3434 | 1/1 | 0.88 | 0.24 | 68,68,68,68 | 0 |
| 56 | MG | CA | 1683 | 1/1 | 0.88 | 0.30 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3657 | 1/1 | 0.88 | 0.48 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1842 | 1/1 | 0.88 | 0.52 | 75,75,75,75 | 0 |
| 56 | MG | BB | 225 | 1/1 | 0.88 | 0.16 | 48,48,48,48 | 0 |
| 56 | MG | DA | 3108 | 1/1 | 0.88 | 0.35 | 59,59,59,59 | 0 |
| 56 | MG | AA | 1628 | 1/1 | 0.88 | 0.18 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3083 | 1/1 | 0.88 | 0.28 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3678 | 1/1 | 0.88 | 0.41 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3162 | 1/1 | 0.88 | 0.24 | 58,58,58,58 | 0 |
| 56 | MG | AA | 2025 | 1/1 | 0.88 | 0.55 | 58,58,58,58 | 0 |
| 56 | MG | CA | 1704 | 1/1 | 0.88 | 0.34 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1904 | 1/1 | 0.88 | 0.44 | 77,77,77,77 | 0 |
| 56 | MG | DA | 3154 | 1/1 | 0.88 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3687 | 1/1 | 0.88 | 0.26 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3542 | 1/1 | 0.88 | 0.17 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3825 | 1/1 | 0.88 | 0.28 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3826 | 1/1 | 0.88 | 0.16 | 28,28,28,28 | 0 |
| 56 | MG | CA | 1714 | 1/1 | 0.88 | 0.35 | 62,62,62,62 | 0 |
| 56 | MG | AA | 1689 | 1/1 | 0.88 | 0.12 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1973 | 1/1 | 0.88 | 0.18 | 56,56,56,56 | 0 |
| 56 | MG | DA | 3237 | 1/1 | 0.88 | 0.20 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1822 | 1/1 | 0.88 | 0.19 | 40,40,40,40 | 0 |
| 56 | MG | AZ | 107 | 1/1 | 0.88 | 0.07 | 78,78,78,78 | 0 |
| 56 | MG | CA | 1736 | 1/1 | 0.88 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3173 | 1/1 | 0.88 | 0.43 | 80,80,80,80 | 0 |
| 56 | MG | AA | 1942 | 1/1 | 0.88 | 0.20 | 34,34,34,34 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3574 | 1/1 | 0.88 | 0.30 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3702 | 1/1 | 0.88 | 0.14 | 83,83,83,83 | 0 |
| 56 | MG | DA | 3291 | 1/1 | 0.88 | 0.22 | 44,44,44,44 | 0 |
| 56 | MG | AA | 1751 | 1/1 | 0.88 | 0.17 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3293 | 1/1 | 0.88 | 0.32 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1856 | 1/1 | 0.88 | 0.48 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3866 | 1/1 | 0.88 | 0.19 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3870 | 1/1 | 0.88 | 0.29 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3184 | 1/1 | 0.88 | 0.15 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3267 | 1/1 | 0.88 | 0.29 | 21,21,21,21 | 0 |
| 56 | MG | AY | 110 | 1/1 | 0.88 | 0.15 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3387 | 1/1 | 0.88 | 0.12 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1858 | 1/1 | 0.88 | 0.10 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3716 | 1/1 | 0.88 | 0.14 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3878 | 1/1 | 0.88 | 0.17 | 44,44,44,44 | 0 |
| 56 | MG | BO | 204 | 1/1 | 0.88 | 0.32 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3277 | 1/1 | 0.88 | 0.18 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3323 | 1/1 | 0.88 | 0.51 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3727 | 1/1 | 0.88 | 0.28 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3392 | 1/1 | 0.88 | 0.13 | 52,52,52,52 | 0 |
| 56 | MG | CA | 1790 | 1/1 | 0.88 | 0.32 | 57,57,57,57 | 0 |
| 56 | MG | AA | 1996 | 1/1 | 0.88 | 0.28 | 56,56,56,56 | 0 |
| 56 | MG | CA | 1794 | 1/1 | 0.88 | 0.17 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3897 | 1/1 | 0.88 | 0.23 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3398 | 1/1 | 0.88 | 0.09 | 56,56,56,56 | 0 |
| 56 | MG | DA | 3375 | 1/1 | 0.88 | 0.14 | 88,88,88,88 | 0 |
| 56 | MG | AX | 403 | 1/1 | 0.88 | 0.10 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3490 | 1/1 | 0.88 | 0.28 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1859 | 1/1 | 0.88 | 0.12 | 76,76,76,76 | 0 |
| 56 | MG | CZ | 103 | 1/1 | 0.88 | 0.10 | 42,42,42,42 | 0 |
| 56 | MG | AA | 1732 | 1/1 | 0.88 | 0.17 | 21,21,21,21 | 0 |
| 56 | MG | AA | 2005 | 1/1 | 0.88 | 0.20 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3404 | 1/1 | 0.88 | 0.15 | 11,11,11,11 | 0 |
| 56 | MG | AY | 121 | 1/1 | 0.88 | 0.13 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3922 | 1/1 | 0.88 | 0.11 | 56,56,56,56 | 0 |
| 56 | MG | AA | 2011 | 1/1 | 0.88 | 0.31 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3625 | 1/1 | 0.88 | 0.21 | 43,43,43,43 | 0 |
| 56 | MG | CY | 106 | 1/1 | 0.88 | 0.36 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3756 | 1/1 | 0.88 | 0.39 | 49,49,49,49 | 0 |
| 56 | MG | B8 | 101 | 1/1 | 0.88 | 0.31 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1952 | 1/1 | 0.88 | 0.14 | 83,83,83,83 | 0 |
| 56 | MG | BA | 3060 | 1/1 | 0.88 | 0.07 | 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 | BB | 210 | 1/1 | 0.88 | 0.34 | 72,72,72,72 | 0 |
| 56 | MG | AA | 1603 | 1/1 | 0.88 | 0.31 | 91,91,91,91 | 0 |
| 56 | MG | BA | 3002 | 1/1 | 0.88 | 0.33 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3221 | 1/1 | 0.88 | 0.45 | 33,33,33,33 | 0 |
| 56 | MG | DD | 5003 | 1/1 | 0.88 | 0.27 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3770 | 1/1 | 0.88 | 0.15 | 30,30,30,30 | 0 |
| 56 | MG | CA | 1671 | 1/1 | 0.88 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3003 | 1/1 | 0.88 | 0.10 | 36,36,36,36 | 0 |
| 56 | MG | AA | 2015 | 1/1 | 0.88 | 0.11 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3791 | 1/1 | 0.89 | 0.70 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1814 | 1/1 | 0.89 | 0.20 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3793 | 1/1 | 0.89 | 0.14 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3610 | 1/1 | 0.89 | 0.17 | 38,38,38,38 | 0 |
| 56 | MG | AY | 122 | 1/1 | 0.89 | 0.16 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3798 | 1/1 | 0.89 | 0.10 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3446 | 1/1 | 0.89 | 0.41 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1729 | 1/1 | 0.89 | 0.32 | 60,60,60,60 | 0 |
| 56 | MG | CZ | 112 | 1/1 | 0.89 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1920 | 1/1 | 0.89 | 0.25 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3619 | 1/1 | 0.89 | 0.20 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3808 | 1/1 | 0.89 | 0.20 | 18,18,18,18 | 0 |
| 56 | MG | AY | 126 | 1/1 | 0.89 | 0.42 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3190 | 1/1 | 0.89 | 0.25 | 77,77,77,77 | 0 |
| 56 | MG | AA | 1879 | 1/1 | 0.89 | 0.17 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1617 | 1/1 | 0.89 | 0.15 | 48,48,48,48 | 0 |
| 56 | MG | CY | 114 | 1/1 | 0.89 | 0.37 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3626 | 1/1 | 0.89 | 0.16 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3337 | 1/1 | 0.89 | 0.24 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3465 | 1/1 | 0.89 | 0.44 | 59,59,59,59 | 0 |
| 56 | MG | AB | 305 | 1/1 | 0.89 | 0.16 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1616 | 1/1 | 0.89 | 0.30 | 47,47,47,47 | 0 |
| 56 | MG | BS | 203 | 1/1 | 0.89 | 0.20 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3843 | 1/1 | 0.89 | 0.20 | 60,60,60,60 | 0 |
| 56 | MG | CO | 101 | 1/1 | 0.89 | 0.21 | 33,33,33,33 | 0 |
| 56 | MG | DA | 3029 | 1/1 | 0.89 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | AB | 307 | 1/1 | 0.89 | 0.08 | 45,45,45,45 | 0 |
| 56 | MG | BV | 202 | 1/1 | 0.89 | 0.65 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3849 | 1/1 | 0.89 | 0.35 | 52,52,52,52 | 0 |
| 56 | MG | AA | 1933 | 1/1 | 0.89 | 0.14 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3108 | 1/1 | 0.89 | 0.14 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1738 | 1/1 | 0.89 | 0.20 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3103 | 1/1 | 0.89 | 0.29 | 62,62,62,62 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | AD | 5003 | 1/1 | 0.89 | 0.07 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3026 | 1/1 | 0.89 | 0.20 | 33,33,33,33 | 0 |
| 56 | MG | B1 | 107 | 1/1 | 0.89 | 0.14 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3357 | 1/1 | 0.89 | 0.16 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1966 | 1/1 | 0.89 | 0.14 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3662 | 1/1 | 0.89 | 0.33 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3029 | 1/1 | 0.89 | 0.30 | 59,59,59,59 | 0 |
| 56 | MG | B5 | 102 | 1/1 | 0.89 | 0.10 | 49,49,49,49 | 0 |
| 56 | MG | B6 | 102 | 1/1 | 0.89 | 0.09 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3149 | 1/1 | 0.89 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | AA | 2026 | 1/1 | 0.89 | 0.11 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3366 | 1/1 | 0.89 | 0.07 | 24,24,24,24 | 0 |
| 56 | MG | AA | 1762 | 1/1 | 0.89 | 0.12 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3373 | 1/1 | 0.89 | 0.19 | 50,50,50,50 | 0 |
| 56 | MG | CA | 1648 | 1/1 | 0.89 | 0.16 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3227 | 1/1 | 0.89 | 0.16 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3685 | 1/1 | 0.89 | 0.17 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3228 | 1/1 | 0.89 | 0.18 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1717 | 1/1 | 0.89 | 0.24 | 75,75,75,75 | 0 |
| 56 | MG | BA | 3889 | 1/1 | 0.89 | 0.19 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3507 | 1/1 | 0.89 | 0.16 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3894 | 1/1 | 0.89 | 0.10 | 70,70,70,70 | 0 |
| 56 | MG | DA | 3241 | 1/1 | 0.89 | 0.14 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3896 | 1/1 | 0.89 | 0.19 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1974 | 1/1 | 0.89 | 0.43 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3126 | 1/1 | 0.89 | 0.12 | 46,46,46,46 | 0 |
| 56 | MG | AZ | 105 | 1/1 | 0.89 | 0.13 | 78,78,78,78 | 0 |
| 56 | MG | DA | 3285 | 1/1 | 0.89 | 0.13 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3286 | 1/1 | 0.89 | 0.24 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3904 | 1/1 | 0.89 | 0.40 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3041 | 1/1 | 0.89 | 0.38 | 98,98,98,98 | 0 |
| 56 | MG | BA | 3385 | 1/1 | 0.89 | 0.09 | 63,63,63,63 | 0 |
| 56 | MG | CA | 1687 | 1/1 | 0.89 | 0.29 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3909 | 1/1 | 0.89 | 0.23 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3140 | 1/1 | 0.89 | 0.20 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3143 | 1/1 | 0.89 | 0.55 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3520 | 1/1 | 0.89 | 0.19 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1741 | 1/1 | 0.89 | 0.17 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1692 | 1/1 | 0.89 | 0.50 | 79,79,79,79 | 0 |
| 56 | MG | AZ | 113 | 1/1 | 0.89 | 0.10 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3150 | 1/1 | 0.89 | 0.19 | 41,41,41,41 | 0 |
| 56 | MG | AV | 5500 | 1/1 | 0.89 | 0.32 | 71,71,71,71 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BB | 204 | 1/1 | 0.89 | 0.11 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1637 | 1/1 | 0.89 | 0.08 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3256 | 1/1 | 0.89 | 0.64 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3053 | 1/1 | 0.89 | 0.28 | 78,78,78,78 | 0 |
| 56 | MG | DA | 3326 | 1/1 | 0.89 | 0.18 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1794 | 1/1 | 0.89 | 0.12 | 19,19,19,19 | 0 |
| 56 | MG | DA | 3334 | 1/1 | 0.89 | 0.49 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3346 | 1/1 | 0.89 | 0.32 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1944 | 1/1 | 0.89 | 0.07 | 48,48,48,48 | 0 |
| 56 | MG | AX | 402 | 1/1 | 0.89 | 0.08 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3161 | 1/1 | 0.89 | 0.42 | 103,103,103,103 | 0 |
| 56 | MG | AY | 107 | 1/1 | 0.89 | 0.08 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3268 | 1/1 | 0.89 | 0.20 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3272 | 1/1 | 0.89 | 0.20 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3561 | 1/1 | 0.89 | 0.29 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1995 | 1/1 | 0.89 | 0.11 | 44,44,44,44 | 0 |
| 56 | MG | CA | 1744 | 1/1 | 0.89 | 0.10 | 36,36,36,36 | 0 |
| 56 | MG | CA | 1748 | 1/1 | 0.89 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3567 | 1/1 | 0.89 | 0.34 | 23,23,23,23 | 0 |
| 56 | MG | BA | 3570 | 1/1 | 0.89 | 0.20 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3572 | 1/1 | 0.89 | 0.15 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3423 | 1/1 | 0.89 | 0.16 | 21,21,21,21 | 0 |
| 56 | MG | AA | 1910 | 1/1 | 0.89 | 0.08 | 88,88,88,88 | 0 |
| 56 | MG | BA | 3426 | 1/1 | 0.89 | 0.28 | 20,20,20,20 | 0 |
| 56 | MG | BA | 3427 | 1/1 | 0.89 | 0.13 | 34,34,34,34 | 0 |
| 56 | MG | CA | 1772 | 1/1 | 0.89 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BB | 233 | 1/1 | 0.89 | 0.09 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1800 | 1/1 | 0.89 | 0.15 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3761 | 1/1 | 0.89 | 0.15 | 29,29,29,29 | 0 |
| 56 | MG | BD | 5006 | 1/1 | 0.89 | 0.14 | 11,11,11,11 | 0 |
| 56 | MG | DA | 3447 | 1/1 | 0.89 | 0.32 | 15,15,15,15 | 0 |
| 56 | MG | BA | 3169 | 1/1 | 0.89 | 0.19 | 67,67,67,67 | 0 |
| 56 | MG | AA | 2002 | 1/1 | 0.89 | 0.15 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3457 | 1/1 | 0.89 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | AX | 409 | 1/1 | 0.89 | 0.19 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1688 | 1/1 | 0.89 | 0.08 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3599 | 1/1 | 0.89 | 0.55 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1852 | 1/1 | 0.89 | 0.16 | 18,18,18,18 | 0 |
| 56 | MG | BA | 3175 | 1/1 | 0.89 | 0.30 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3788 | 1/1 | 0.89 | 0.19 | 69,69,69,69 | 0 |
| 56 | MG | CA | 1813 | 1/1 | 0.89 | 0.13 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3304 | 1/1 | 0.89 | 0.33 | 25,25,25,25 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | CA | 1655 | 1/1 | 0.90 | 0.31 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3041 | 1/1 | 0.90 | 0.07 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3048 | 1/1 | 0.90 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1774 | 1/1 | 0.90 | 0.14 | 39,39,39,39 | 0 |
| 56 | MG | AA | 1614 | 1/1 | 0.90 | 0.38 | 49,49,49,49 | 0 |
| 56 | MG | DA | 3065 | 1/1 | 0.90 | 0.16 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3606 | 1/1 | 0.90 | 0.56 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3607 | 1/1 | 0.90 | 0.19 | 40,40,40,40 | 0 |
| 56 | MG | BB | 203 | 1/1 | 0.90 | 0.05 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1601 | 1/1 | 0.90 | 0.26 | 37,37,37,37 | 0 |
| 56 | MG | AA | 1907 | 1/1 | 0.90 | 0.26 | 76,76,76,76 | 0 |
| 56 | MG | DA | 3104 | 1/1 | 0.90 | 0.40 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3281 | 1/1 | 0.90 | 0.18 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3106 | 1/1 | 0.90 | 0.21 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3023 | 1/1 | 0.90 | 0.15 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3208 | 1/1 | 0.90 | 0.09 | 86,86,86,86 | 0 |
| 56 | MG | BA | 3393 | 1/1 | 0.90 | 0.23 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3395 | 1/1 | 0.90 | 0.13 | 22,22,22,22 | 0 |
| 56 | MG | DA | 3115 | 1/1 | 0.90 | 0.25 | 62,62,62,62 | 0 |
| 56 | MG | DA | 3119 | 1/1 | 0.90 | 0.22 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1807 | 1/1 | 0.90 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | AZ | 104 | 1/1 | 0.90 | 0.11 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3130 | 1/1 | 0.90 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3301 | 1/1 | 0.90 | 0.21 | 31,31,31,31 | 0 |
| 56 | MG | AT | 202 | 1/1 | 0.90 | 0.10 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1810 | 1/1 | 0.90 | 0.56 | 64,64,64,64 | 0 |
| 56 | MG | AB | 301 | 1/1 | 0.90 | 0.12 | 62,62,62,62 | 0 |
| 56 | MG | BB | 221 | 1/1 | 0.90 | 0.43 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3182 | 1/1 | 0.90 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3189 | 1/1 | 0.90 | 0.16 | 5,5,5,5 | 0 |
| 56 | MG | CA | 1703 | 1/1 | 0.90 | 0.11 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3310 | 1/1 | 0.90 | 0.68 | 73,73,73,73 | 0 |
| 56 | MG | BA | 3785 | 1/1 | 0.90 | 0.20 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3311 | 1/1 | 0.90 | 0.23 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3089 | 1/1 | 0.90 | 0.31 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3640 | 1/1 | 0.90 | 0.14 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3641 | 1/1 | 0.90 | 0.33 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3035 | 1/1 | 0.90 | 0.26 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3512 | 1/1 | 0.90 | 0.10 | 62,62,62,62 | 0 |
| 56 | MG | CA | 1721 | 1/1 | 0.90 | 0.32 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1960 | 1/1 | 0.90 | 0.29 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3514 | 1/1 | 0.90 | 0.32 | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3259 | 1/1 | 0.90 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3278 | 1/1 | 0.90 | 0.17 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1724 | 1/1 | 0.90 | 0.15 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3415 | 1/1 | 0.90 | 0.18 | 65,65,65,65 | 0 |
| 56 | MG | CA | 1735 | 1/1 | 0.90 | 0.20 | 31,31,31,31 | 0 |
| 56 | MG | AA | 2004 | 1/1 | 0.90 | 0.14 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3655 | 1/1 | 0.90 | 0.18 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3419 | 1/1 | 0.90 | 0.24 | 50,50,50,50 | 0 |
| 56 | MG | AZ | 108 | 1/1 | 0.90 | 0.09 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1666 | 1/1 | 0.90 | 0.13 | 61,61,61,61 | 0 |
| 56 | MG | AZ | 115 | 1/1 | 0.90 | 0.09 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3668 | 1/1 | 0.90 | 0.15 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3670 | 1/1 | 0.90 | 0.28 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3424 | 1/1 | 0.90 | 0.37 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3339 | 1/1 | 0.90 | 0.20 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3532 | 1/1 | 0.90 | 0.28 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3681 | 1/1 | 0.90 | 0.88 | 59,59,59,59 | 0 |
| 56 | MG | AA | 1788 | 1/1 | 0.90 | 0.46 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3107 | 1/1 | 0.90 | 0.13 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3845 | 1/1 | 0.90 | 0.55 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3044 | 1/1 | 0.90 | 0.23 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1707 | 1/1 | 0.90 | 0.11 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3251 | 1/1 | 0.90 | 0.10 | 41,41,41,41 | 0 |
| 56 | MG | BK | 201 | 1/1 | 0.90 | 0.30 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3856 | 1/1 | 0.90 | 0.09 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3433 | 1/1 | 0.90 | 0.23 | 67,67,67,67 | 0 |
| 56 | MG | AX | 413 | 1/1 | 0.90 | 0.35 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3253 | 1/1 | 0.90 | 0.33 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3352 | 1/1 | 0.90 | 0.11 | 17,17,17,17 | 0 |
| 56 | MG | AA | 1844 | 1/1 | 0.90 | 0.64 | 101,101,101,101 | 0 |
| 56 | MG | AA | 1888 | 1/1 | 0.90 | 0.44 | 39,39,39,39 | 0 |
| 56 | MG | AA | 1753 | 1/1 | 0.90 | 0.21 | 62,62,62,62 | 0 |
| 56 | MG | DA | 3366 | 1/1 | 0.90 | 0.15 | 86,86,86,86 | 0 |
| 56 | MG | DA | 3367 | 1/1 | 0.90 | 0.10 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3369 | 1/1 | 0.90 | 0.21 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3701 | 1/1 | 0.90 | 0.12 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1820 | 1/1 | 0.90 | 0.14 | 46,46,46,46 | 0 |
| 56 | MG | BR | 201 | 1/1 | 0.90 | 0.14 | 34,34,34,34 | 0 |
| 56 | MG | AA | 2022 | 1/1 | 0.90 | 0.10 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3365 | 1/1 | 0.90 | 0.38 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3571 | 1/1 | 0.90 | 0.27 | 39,39,39,39 | 0 |
| 56 | MG | AA | 1848 | 1/1 | 0.90 | 0.29 | 56,56,56,56 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BV | 201 | 1/1 | 0.90 | 0.14 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3059 | 1/1 | 0.90 | 0.10 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3711 | 1/1 | 0.90 | 0.24 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3369 | 1/1 | 0.90 | 0.07 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3372 | 1/1 | 0.90 | 0.05 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3125 | 1/1 | 0.90 | 0.07 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3723 | 1/1 | 0.90 | 0.12 | 7,7,7,7 | 0 |
| 56 | MG | BA | 3724 | 1/1 | 0.90 | 0.20 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3413 | 1/1 | 0.90 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3421 | 1/1 | 0.90 | 0.12 | 35,35,35,35 | 0 |
| 56 | MG | AY | 114 | 1/1 | 0.90 | 0.23 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3588 | 1/1 | 0.90 | 0.09 | 24,24,24,24 | 0 |
| 56 | MG | AA | 1988 | 1/1 | 0.90 | 0.10 | 65,65,65,65 | 0 |
| 56 | MG | BA | 3270 | 1/1 | 0.90 | 0.42 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3737 | 1/1 | 0.90 | 0.15 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3469 | 1/1 | 0.90 | 0.20 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3741 | 1/1 | 0.90 | 0.12 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3467 | 1/1 | 0.90 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3134 | 1/1 | 0.90 | 0.18 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3485 | 1/1 | 0.90 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3743 | 1/1 | 0.90 | 0.27 | 64,64,64,64 | 0 |
| 56 | MG | CH | 201 | 1/1 | 0.90 | 0.41 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3063 | 1/1 | 0.90 | 0.05 | 86,86,86,86 | 0 |
| 56 | MG | BA | 3472 | 1/1 | 0.90 | 0.14 | 10,10,10,10 | 0 |
| 56 | MG | BA | 3919 | 1/1 | 0.90 | 0.28 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3920 | 1/1 | 0.90 | 0.22 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3007 | 1/1 | 0.90 | 0.10 | 25,25,25,25 | 0 |
| 56 | MG | CA | 1635 | 1/1 | 0.91 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | CQ | 201 | 1/1 | 0.91 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3028 | 1/1 | 0.91 | 0.34 | 39,39,39,39 | 0 |
| 56 | MG | CA | 1644 | 1/1 | 0.91 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3033 | 1/1 | 0.91 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3039 | 1/1 | 0.91 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1662 | 1/1 | 0.91 | 0.48 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3495 | 1/1 | 0.91 | 0.09 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1997 | 1/1 | 0.91 | 0.22 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3187 | 1/1 | 0.91 | 0.27 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3062 | 1/1 | 0.91 | 0.32 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1668 | 1/1 | 0.91 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3067 | 1/1 | 0.91 | 0.13 | 17,17,17,17 | 0 |
| 56 | MG | BA | 3104 | 1/1 | 0.91 | 0.12 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3032 | 1/1 | 0.91 | 0.09 | 30,30,30,30 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1657 | 1/1 | 0.91 | 0.11 | 45,45,45,45 | 0 |
| 56 | MG | CA | 1673 | 1/1 | 0.91 | 0.15 | 49,49,49,49 | 0 |
| 56 | MG | CA | 1676 | 1/1 | 0.91 | 0.88 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3760 | 1/1 | 0.91 | 0.35 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1758 | 1/1 | 0.91 | 0.20 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3763 | 1/1 | 0.91 | 0.15 | 52,52,52,52 | 0 |
| 56 | MG | BB | 208 | 1/1 | 0.91 | 0.20 | 63,63,63,63 | 0 |
| 56 | MG | CA | 1681 | 1/1 | 0.91 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3110 | 1/1 | 0.91 | 0.06 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1914 | 1/1 | 0.91 | 0.14 | 70,70,70,70 | 0 |
| 56 | MG | BA | 3297 | 1/1 | 0.91 | 0.17 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3769 | 1/1 | 0.91 | 0.10 | 28,28,28,28 | 0 |
| 56 | MG | AY | 109 | 1/1 | 0.91 | 0.20 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1735 | 1/1 | 0.91 | 0.10 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3125 | 1/1 | 0.91 | 0.20 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3405 | 1/1 | 0.91 | 0.20 | 44,44,44,44 | 0 |
| 56 | MG | BB | 216 | 1/1 | 0.91 | 0.25 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1665 | 1/1 | 0.91 | 0.11 | 38,38,38,38 | 0 |
| 56 | MG | CA | 1691 | 1/1 | 0.91 | 0.16 | 45,45,45,45 | 0 |
| 56 | MG | DA | 3138 | 1/1 | 0.91 | 0.41 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3408 | 1/1 | 0.91 | 0.25 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3784 | 1/1 | 0.91 | 0.21 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3042 | 1/1 | 0.91 | 0.45 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3201 | 1/1 | 0.91 | 0.24 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3309 | 1/1 | 0.91 | 0.23 | 17,17,17,17 | 0 |
| 56 | MG | DA | 3195 | 1/1 | 0.91 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | AX | 401 | 1/1 | 0.91 | 0.12 | 74,74,74,74 | 0 |
| 56 | MG | DA | 3200 | 1/1 | 0.91 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3523 | 1/1 | 0.91 | 0.08 | 62,62,62,62 | 0 |
| 56 | MG | CA | 1709 | 1/1 | 0.91 | 0.13 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3211 | 1/1 | 0.91 | 0.28 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1838 | 1/1 | 0.91 | 0.26 | 18,18,18,18 | 0 |
| 56 | MG | AA | 1658 | 1/1 | 0.91 | 0.13 | 29,29,29,29 | 0 |
| 56 | MG | BB | 228 | 1/1 | 0.91 | 0.30 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3527 | 1/1 | 0.91 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | CA | 1715 | 1/1 | 0.91 | 0.28 | 40,40,40,40 | 0 |
| 56 | MG | CA | 1716 | 1/1 | 0.91 | 0.17 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1797 | 1/1 | 0.91 | 0.34 | 21,21,21,21 | 0 |
| 56 | MG | CA | 1719 | 1/1 | 0.91 | 0.23 | 60,60,60,60 | 0 |
| 56 | MG | DA | 3245 | 1/1 | 0.91 | 0.15 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3324 | 1/1 | 0.91 | 0.32 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1799 | 1/1 | 0.91 | 0.10 | 31,31,31,31 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3128 | 1/1 | 0.91 | 0.26 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3806 | 1/1 | 0.91 | 0.43 | 29,29,29,29 | 0 |
| 56 | MG | CA | 1728 | 1/1 | 0.91 | 0.31 | 57,57,57,57 | 0 |
| 56 | MG | AA | 1695 | 1/1 | 0.91 | 0.20 | 52,52,52,52 | 0 |
| 56 | MG | CA | 1732 | 1/1 | 0.91 | 0.35 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1742 | 1/1 | 0.91 | 0.10 | 67,67,67,67 | 0 |
| 56 | MG | AA | 1851 | 1/1 | 0.91 | 0.36 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3138 | 1/1 | 0.91 | 0.21 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3541 | 1/1 | 0.91 | 0.17 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1632 | 1/1 | 0.91 | 0.11 | 35,35,35,35 | 0 |
| 56 | MG | AA | 1970 | 1/1 | 0.91 | 0.14 | 52,52,52,52 | 0 |
| 56 | MG | BF | 302 | 1/1 | 0.91 | 0.24 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3686 | 1/1 | 0.91 | 0.58 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3836 | 1/1 | 0.91 | 0.22 | 20,20,20,20 | 0 |
| 56 | MG | BA | 3544 | 1/1 | 0.91 | 0.41 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3546 | 1/1 | 0.91 | 0.28 | 40,40,40,40 | 0 |
| 56 | MG | DA | 3310 | 1/1 | 0.91 | 0.17 | 57,57,57,57 | 0 |
| 56 | MG | BG | 201 | 1/1 | 0.91 | 0.34 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3689 | 1/1 | 0.91 | 0.33 | 80,80,80,80 | 0 |
| 56 | MG | CA | 1766 | 1/1 | 0.91 | 0.08 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1887 | 1/1 | 0.91 | 0.14 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3232 | 1/1 | 0.91 | 0.12 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1719 | 1/1 | 0.91 | 0.13 | 13,13,13,13 | 0 |
| 56 | MG | BA | 3347 | 1/1 | 0.91 | 0.08 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1682 | 1/1 | 0.91 | 0.17 | 40,40,40,40 | 0 |
| 56 | MG | AA | 1982 | 1/1 | 0.91 | 0.30 | 51,51,51,51 | 0 |
| 56 | MG | AA | 1772 | 1/1 | 0.91 | 0.31 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3246 | 1/1 | 0.91 | 0.32 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1984 | 1/1 | 0.91 | 0.16 | 39,39,39,39 | 0 |
| 56 | MG | DA | 3353 | 1/1 | 0.91 | 0.06 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3355 | 1/1 | 0.91 | 0.08 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3071 | 1/1 | 0.91 | 0.23 | 35,35,35,35 | 0 |
| 56 | MG | CA | 1787 | 1/1 | 0.91 | 0.11 | 57,57,57,57 | 0 |
| 56 | MG | AA | 1939 | 1/1 | 0.91 | 0.37 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3869 | 1/1 | 0.91 | 0.14 | 7,7,7,7 | 0 |
| 56 | MG | BA | 3576 | 1/1 | 0.91 | 0.15 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3577 | 1/1 | 0.91 | 0.16 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1795 | 1/1 | 0.91 | 0.13 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1987 | 1/1 | 0.91 | 0.07 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3710 | 1/1 | 0.91 | 0.19 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3159 | 1/1 | 0.91 | 0.21 | 61,61,61,61 | 0 |
| 56 | MG | AA | 1749 | 1/1 | 0.91 | 0.12 | 68,68,68,68 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3381 | 1/1 | 0.91 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1660 | 1/1 | 0.91 | 0.11 | 77,77,77,77 | 0 |
| 56 | MG | AZ | 109 | 1/1 | 0.91 | 0.16 | 79,79,79,79 | 0 |
| 56 | MG | CA | 1819 | 1/1 | 0.91 | 0.11 | 36,36,36,36 | 0 |
| 56 | MG | CA | 1821 | 1/1 | 0.91 | 0.22 | 29,29,29,29 | 0 |
| 56 | MG | CZ | 102 | 1/1 | 0.91 | 0.07 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3719 | 1/1 | 0.91 | 0.17 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3394 | 1/1 | 0.91 | 0.17 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3082 | 1/1 | 0.91 | 0.15 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3018 | 1/1 | 0.91 | 0.17 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3886 | 1/1 | 0.91 | 0.17 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3887 | 1/1 | 0.91 | 0.20 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3888 | 1/1 | 0.91 | 0.18 | 53,53,53,53 | 0 |
| 56 | MG | BY | 201 | 1/1 | 0.91 | 0.14 | 68,68,68,68 | 0 |
| 56 | MG | DA | 3423 | 1/1 | 0.91 | 0.56 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3595 | 1/1 | 0.91 | 0.21 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3259 | 1/1 | 0.91 | 0.10 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3432 | 1/1 | 0.91 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3437 | 1/1 | 0.91 | 0.54 | 3,3,3,3 | 0 |
| 56 | MG | AZ | 110 | 1/1 | 0.91 | 0.17 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3376 | 1/1 | 0.91 | 0.18 | 39,39,39,39 | 0 |
| 56 | MG | B1 | 106 | 1/1 | 0.91 | 0.24 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3732 | 1/1 | 0.91 | 0.58 | 68,68,68,68 | 0 |
| 56 | MG | AZ | 111 | 1/1 | 0.91 | 0.15 | 71,71,71,71 | 0 |
| 56 | MG | CY | 113 | 1/1 | 0.91 | 0.19 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3601 | 1/1 | 0.91 | 0.18 | 30,30,30,30 | 0 |
| 56 | MG | DA | 3482 | 1/1 | 0.91 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | AZ | 112 | 1/1 | 0.91 | 0.10 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3091 | 1/1 | 0.91 | 0.17 | 37,37,37,37 | 0 |
| 56 | MG | AA | 1641 | 1/1 | 0.91 | 0.13 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3383 | 1/1 | 0.91 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3025 | 1/1 | 0.91 | 0.23 | 58,58,58,58 | 0 |
| 56 | MG | AG | 201 | 1/1 | 0.91 | 0.18 | 72,72,72,72 | 0 |
| 56 | MG | CA | 1601 | 1/1 | 0.91 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1704 | 1/1 | 0.91 | 0.16 | 48,48,48,48 | 0 |
| 56 | MG | DQ | 201 | 1/1 | 0.91 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | D8 | 101 | 1/1 | 0.91 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3762 | 1/1 | 0.92 | 0.22 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3121 | 1/1 | 0.92 | 0.07 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3627 | 1/1 | 0.92 | 0.12 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3287 | 1/1 | 0.92 | 0.22 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3288 | 1/1 | 0.92 | 0.18 | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3394 | 1/1 | 0.92 | 0.18 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3292 | 1/1 | 0.92 | 0.78 | 36,36,36,36 | 0 |
| 56 | MG | AA | 1685 | 1/1 | 0.92 | 0.14 | 28,28,28,28 | 0 |
| 56 | MG | AA | 1710 | 1/1 | 0.92 | 0.24 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3779 | 1/1 | 0.92 | 0.09 | 22,22,22,22 | 0 |
| 56 | MG | AA | 1870 | 1/1 | 0.92 | 0.24 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3298 | 1/1 | 0.92 | 0.32 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1908 | 1/1 | 0.92 | 0.28 | 85,85,85,85 | 0 |
| 56 | MG | BA | 3787 | 1/1 | 0.92 | 0.22 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1986 | 1/1 | 0.92 | 0.27 | 52,52,52,52 | 0 |
| 56 | MG | AB | 303 | 1/1 | 0.92 | 0.13 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3131 | 1/1 | 0.92 | 0.61 | 72,72,72,72 | 0 |
| 56 | MG | BB | 229 | 1/1 | 0.92 | 0.22 | 33,33,33,33 | 0 |
| 56 | MG | AA | 1945 | 1/1 | 0.92 | 0.12 | 34,34,34,34 | 0 |
| 56 | MG | AA | 1871 | 1/1 | 0.92 | 0.29 | 68,68,68,68 | 0 |
| 56 | MG | DA | 3139 | 1/1 | 0.92 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3659 | 1/1 | 0.92 | 0.26 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3212 | 1/1 | 0.92 | 0.07 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3062 | 1/1 | 0.92 | 0.12 | 56,56,56,56 | 0 |
| 56 | MG | DA | 3169 | 1/1 | 0.92 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3172 | 1/1 | 0.92 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3663 | 1/1 | 0.92 | 0.32 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3665 | 1/1 | 0.92 | 0.10 | 24,24,24,24 | 0 |
| 56 | MG | DA | 3191 | 1/1 | 0.92 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3411 | 1/1 | 0.92 | 0.14 | 51,51,51,51 | 0 |
| 56 | MG | CA | 1726 | 1/1 | 0.92 | 0.09 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3805 | 1/1 | 0.92 | 0.20 | 40,40,40,40 | 0 |
| 56 | MG | AA | 1687 | 1/1 | 0.92 | 0.12 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3207 | 1/1 | 0.92 | 0.58 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3321 | 1/1 | 0.92 | 0.15 | 40,40,40,40 | 0 |
| 56 | MG | AA | 1991 | 1/1 | 0.92 | 0.10 | 84,84,84,84 | 0 |
| 56 | MG | BA | 3677 | 1/1 | 0.92 | 0.14 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3815 | 1/1 | 0.92 | 0.29 | 28,28,28,28 | 0 |
| 56 | MG | AA | 1912 | 1/1 | 0.92 | 0.14 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3327 | 1/1 | 0.92 | 0.16 | 64,64,64,64 | 0 |
| 56 | MG | BA | 3070 | 1/1 | 0.92 | 0.23 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3330 | 1/1 | 0.92 | 0.19 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3827 | 1/1 | 0.92 | 0.21 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1994 | 1/1 | 0.92 | 0.30 | 52,52,52,52 | 0 |
| 56 | MG | CA | 1754 | 1/1 | 0.92 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3246 | 1/1 | 0.92 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | AC | 304 | 1/1 | 0.92 | 0.21 | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1815 | 1/1 | 0.92 | 0.24 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1816 | 1/1 | 0.92 | 0.28 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3279 | 1/1 | 0.92 | 0.40 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3338 | 1/1 | 0.92 | 0.45 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3841 | 1/1 | 0.92 | 0.15 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1712 | 1/1 | 0.92 | 0.23 | 35,35,35,35 | 0 |
| 56 | MG | CA | 1768 | 1/1 | 0.92 | 0.22 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3235 | 1/1 | 0.92 | 0.09 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1680 | 1/1 | 0.92 | 0.47 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3549 | 1/1 | 0.92 | 0.29 | 27,27,27,27 | 0 |
| 56 | MG | AE | 206 | 1/1 | 0.92 | 0.05 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3245 | 1/1 | 0.92 | 0.24 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3858 | 1/1 | 0.92 | 0.24 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1792 | 1/1 | 0.92 | 0.23 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3860 | 1/1 | 0.92 | 0.08 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3699 | 1/1 | 0.92 | 0.05 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3438 | 1/1 | 0.92 | 0.20 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3307 | 1/1 | 0.92 | 0.14 | 39,39,39,39 | 0 |
| 56 | MG | BQ | 204 | 1/1 | 0.92 | 0.18 | 80,80,80,80 | 0 |
| 56 | MG | CA | 1789 | 1/1 | 0.92 | 0.31 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1634 | 1/1 | 0.92 | 0.13 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3085 | 1/1 | 0.92 | 0.24 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3868 | 1/1 | 0.92 | 0.13 | 11,11,11,11 | 0 |
| 56 | MG | AA | 1922 | 1/1 | 0.92 | 0.45 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3444 | 1/1 | 0.92 | 0.30 | 42,42,42,42 | 0 |
| 56 | MG | CA | 1799 | 1/1 | 0.92 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | CA | 1801 | 1/1 | 0.92 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | AH | 201 | 1/1 | 0.92 | 0.20 | 27,27,27,27 | 0 |
| 56 | MG | CA | 1812 | 1/1 | 0.92 | 0.11 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3333 | 1/1 | 0.92 | 0.30 | 4,4,4,4 | 0 |
| 56 | MG | AY | 102 | 1/1 | 0.92 | 0.20 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3336 | 1/1 | 0.92 | 0.15 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3448 | 1/1 | 0.92 | 0.25 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3165 | 1/1 | 0.92 | 0.28 | 21,21,21,21 | 0 |
| 56 | MG | DA | 3350 | 1/1 | 0.92 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | BW | 202 | 1/1 | 0.92 | 0.21 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3354 | 1/1 | 0.92 | 0.09 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3578 | 1/1 | 0.92 | 0.09 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3359 | 1/1 | 0.92 | 0.78 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1757 | 1/1 | 0.92 | 0.12 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3879 | 1/1 | 0.92 | 0.31 | 46,46,46,46 | 0 |
| 56 | MG | DA | 3361 | 1/1 | 0.92 | 0.62 | 78,78,78,78 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | CZ | 104 | 1/1 | 0.92 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3715 | 1/1 | 0.92 | 0.17 | 28,28,28,28 | 0 |
| 56 | MG | AJ | 201 | 1/1 | 0.92 | 0.10 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3717 | 1/1 | 0.92 | 0.13 | 67,67,67,67 | 0 |
| 56 | MG | AA | 2006 | 1/1 | 0.92 | 0.21 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3720 | 1/1 | 0.92 | 0.16 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3585 | 1/1 | 0.92 | 0.17 | 35,35,35,35 | 0 |
| 56 | MG | CY | 102 | 1/1 | 0.92 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | AY | 108 | 1/1 | 0.92 | 0.11 | 59,59,59,59 | 0 |
| 56 | MG | AA | 1745 | 1/1 | 0.92 | 0.07 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1886 | 1/1 | 0.92 | 0.20 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1826 | 1/1 | 0.92 | 0.12 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3371 | 1/1 | 0.92 | 0.17 | 53,53,53,53 | 0 |
| 56 | MG | AM | 203 | 1/1 | 0.92 | 0.31 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3734 | 1/1 | 0.92 | 0.28 | 59,59,59,59 | 0 |
| 56 | MG | CA | 1610 | 1/1 | 0.92 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3902 | 1/1 | 0.92 | 0.20 | 66,66,66,66 | 0 |
| 56 | MG | CB | 301 | 1/1 | 0.92 | 0.14 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3106 | 1/1 | 0.92 | 0.08 | 68,68,68,68 | 0 |
| 56 | MG | AA | 1798 | 1/1 | 0.92 | 0.11 | 25,25,25,25 | 0 |
| 56 | MG | CF | 205 | 1/1 | 0.92 | 0.15 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3740 | 1/1 | 0.92 | 0.29 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3473 | 1/1 | 0.92 | 0.13 | 31,31,31,31 | 0 |
| 56 | MG | CA | 1649 | 1/1 | 0.92 | 0.10 | 35,35,35,35 | 0 |
| 56 | MG | DA | 3425 | 1/1 | 0.92 | 0.16 | 5,5,5,5 | 0 |
| 56 | MG | AA | 1760 | 1/1 | 0.92 | 0.10 | 8,8,8,8 | 0 |
| 56 | MG | CA | 1653 | 1/1 | 0.92 | 0.28 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3269 | 1/1 | 0.92 | 0.11 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3916 | 1/1 | 0.92 | 0.19 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3479 | 1/1 | 0.92 | 0.15 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1971 | 1/1 | 0.92 | 0.42 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3028 | 1/1 | 0.92 | 0.29 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3112 | 1/1 | 0.92 | 0.13 | 40,40,40,40 | 0 |
| 56 | MG | DA | 3466 | 1/1 | 0.92 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | AY | 117 | 1/1 | 0.92 | 0.15 | 68,68,68,68 | 0 |
| 56 | MG | DA | 3468 | 1/1 | 0.92 | 0.46 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1761 | 1/1 | 0.92 | 0.16 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3276 | 1/1 | 0.92 | 0.26 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3047 | 1/1 | 0.92 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3486 | 1/1 | 0.92 | 0.50 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1834 | 1/1 | 0.92 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1975 | 1/1 | 0.92 | 0.30 | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | DD | 5002 | 1/1 | 0.92 | 0.14 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3494 | 1/1 | 0.92 | 0.10 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3386 | 1/1 | 0.92 | 0.13 | 79,79,79,79 | 0 |
| 56 | MG | BA | 3622 | 1/1 | 0.92 | 0.09 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1676 | 1/1 | 0.92 | 0.09 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3120 | 1/1 | 0.92 | 0.37 | 53,53,53,53 | 0 |
| 56 | MG | DO | 202 | 1/1 | 0.92 | 0.10 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3499 | 1/1 | 0.92 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3087 | 1/1 | 0.92 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3846 | 1/1 | 0.93 | 0.16 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1618 | 1/1 | 0.93 | 0.16 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3848 | 1/1 | 0.93 | 0.17 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3478 | 1/1 | 0.93 | 0.17 | 52,52,52,52 | 0 |
| 56 | MG | AD | 5002 | 1/1 | 0.93 | 0.12 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1649 | 1/1 | 0.93 | 0.15 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3592 | 1/1 | 0.93 | 0.20 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3132 | 1/1 | 0.93 | 0.21 | 40,40,40,40 | 0 |
| 56 | MG | AE | 202 | 1/1 | 0.93 | 0.15 | 64,64,64,64 | 0 |
| 56 | MG | CA | 1740 | 1/1 | 0.93 | 0.39 | 41,41,41,41 | 0 |
| 56 | MG | DA | 3164 | 1/1 | 0.93 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3211 | 1/1 | 0.93 | 0.17 | 80,80,80,80 | 0 |
| 56 | MG | DA | 3171 | 1/1 | 0.93 | 0.16 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1968 | 1/1 | 0.93 | 0.27 | 35,35,35,35 | 0 |
| 56 | MG | DA | 3180 | 1/1 | 0.93 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1650 | 1/1 | 0.93 | 0.14 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3718 | 1/1 | 0.93 | 0.39 | 51,51,51,51 | 0 |
| 56 | MG | CA | 1746 | 1/1 | 0.93 | 0.18 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3136 | 1/1 | 0.93 | 0.23 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3492 | 1/1 | 0.93 | 0.14 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3066 | 1/1 | 0.93 | 0.11 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3139 | 1/1 | 0.93 | 0.36 | 59,59,59,59 | 0 |
| 56 | MG | AA | 2007 | 1/1 | 0.93 | 0.24 | 23,23,23,23 | 0 |
| 56 | MG | BO | 202 | 1/1 | 0.93 | 0.08 | 54,54,54,54 | 0 |
| 56 | MG | CA | 1765 | 1/1 | 0.93 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1728 | 1/1 | 0.93 | 0.40 | 46,46,46,46 | 0 |
| 56 | MG | DA | 3219 | 1/1 | 0.93 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3222 | 1/1 | 0.93 | 0.21 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3608 | 1/1 | 0.93 | 0.28 | 40,40,40,40 | 0 |
| 56 | MG | AA | 1817 | 1/1 | 0.93 | 0.24 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3500 | 1/1 | 0.93 | 0.11 | 21,21,21,21 | 0 |
| 56 | MG | DA | 3236 | 1/1 | 0.93 | 0.08 | 53,53,53,53 | 0 |
| 56 | MG | CA | 1770 | 1/1 | 0.93 | 0.12 | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3733 | 1/1 | 0.93 | 0.30 | 38,38,38,38 | 0 |
| 56 | MG | AA | 1624 | 1/1 | 0.93 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3240 | 1/1 | 0.93 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3325 | 1/1 | 0.93 | 0.45 | 66,66,66,66 | 0 |
| 56 | MG | DA | 3242 | 1/1 | 0.93 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3244 | 1/1 | 0.93 | 0.07 | 5,5,5,5 | 0 |
| 56 | MG | BS | 201 | 1/1 | 0.93 | 0.15 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3326 | 1/1 | 0.93 | 0.09 | 45,45,45,45 | 0 |
| 56 | MG | DA | 3247 | 1/1 | 0.93 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1776 | 1/1 | 0.93 | 0.15 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3017 | 1/1 | 0.93 | 0.12 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3508 | 1/1 | 0.93 | 0.14 | 33,33,33,33 | 0 |
| 56 | MG | AG | 202 | 1/1 | 0.93 | 0.11 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3019 | 1/1 | 0.93 | 0.18 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1777 | 1/1 | 0.93 | 0.29 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3244 | 1/1 | 0.93 | 0.38 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3895 | 1/1 | 0.93 | 0.19 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3336 | 1/1 | 0.93 | 0.10 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3420 | 1/1 | 0.93 | 0.25 | 19,19,19,19 | 0 |
| 56 | MG | BA | 3898 | 1/1 | 0.93 | 0.36 | 38,38,38,38 | 0 |
| 56 | MG | AY | 112 | 1/1 | 0.93 | 0.21 | 38,38,38,38 | 0 |
| 56 | MG | B0 | 102 | 1/1 | 0.93 | 0.15 | 37,37,37,37 | 0 |
| 56 | MG | CA | 1808 | 1/1 | 0.93 | 0.48 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1810 | 1/1 | 0.93 | 0.63 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3900 | 1/1 | 0.93 | 0.17 | 51,51,51,51 | 0 |
| 56 | MG | DA | 3299 | 1/1 | 0.93 | 0.18 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3517 | 1/1 | 0.93 | 0.13 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3636 | 1/1 | 0.93 | 0.14 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1976 | 1/1 | 0.93 | 0.16 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1913 | 1/1 | 0.93 | 0.09 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1979 | 1/1 | 0.93 | 0.40 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3908 | 1/1 | 0.93 | 0.18 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3521 | 1/1 | 0.93 | 0.29 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1694 | 1/1 | 0.93 | 0.15 | 52,52,52,52 | 0 |
| 56 | MG | AK | 203 | 1/1 | 0.93 | 0.13 | 49,49,49,49 | 0 |
| 56 | MG | AA | 1946 | 1/1 | 0.93 | 0.12 | 59,59,59,59 | 0 |
| 56 | MG | DA | 3319 | 1/1 | 0.93 | 0.17 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3647 | 1/1 | 0.93 | 0.17 | 48,48,48,48 | 0 |
| 56 | MG | AK | 205 | 1/1 | 0.93 | 0.41 | 61,61,61,61 | 0 |
| 56 | MG | CA | 1615 | 1/1 | 0.93 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1621 | 1/1 | 0.93 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3650 | 1/1 | 0.93 | 0.12 | 5,5,5,5 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | AA | 1782 | 1/1 | 0.93 | 0.33 | 24,24,24,24 | 0 |
| 56 | MG | CA | 1639 | 1/1 | 0.93 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3337 | 1/1 | 0.93 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3338 | 1/1 | 0.93 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3921 | 1/1 | 0.93 | 0.18 | 53,53,53,53 | 0 |
| 56 | MG | DA | 3347 | 1/1 | 0.93 | 0.10 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3652 | 1/1 | 0.93 | 0.19 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3097 | 1/1 | 0.93 | 0.14 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3775 | 1/1 | 0.93 | 0.09 | 36,36,36,36 | 0 |
| 56 | MG | AL | 202 | 1/1 | 0.93 | 0.10 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3033 | 1/1 | 0.93 | 0.18 | 38,38,38,38 | 0 |
| 56 | MG | CA | 1654 | 1/1 | 0.93 | 0.18 | 28,28,28,28 | 0 |
| 56 | MG | DA | 3358 | 1/1 | 0.93 | 0.19 | 54,54,54,54 | 0 |
| 56 | MG | CY | 112 | 1/1 | 0.93 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3034 | 1/1 | 0.93 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | CA | 1656 | 1/1 | 0.93 | 0.24 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3362 | 1/1 | 0.93 | 0.15 | 82,82,82,82 | 0 |
| 56 | MG | BA | 3780 | 1/1 | 0.93 | 0.27 | 32,32,32,32 | 0 |
| 56 | MG | BB | 206 | 1/1 | 0.93 | 0.12 | 51,51,51,51 | 0 |
| 56 | MG | AL | 203 | 1/1 | 0.93 | 0.08 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1720 | 1/1 | 0.93 | 0.18 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3371 | 1/1 | 0.93 | 0.06 | 56,56,56,56 | 0 |
| 56 | MG | AM | 202 | 1/1 | 0.93 | 0.07 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3664 | 1/1 | 0.93 | 0.38 | 23,23,23,23 | 0 |
| 56 | MG | CA | 1675 | 1/1 | 0.93 | 0.31 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3377 | 1/1 | 0.93 | 0.09 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1825 | 1/1 | 0.93 | 0.17 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3363 | 1/1 | 0.93 | 0.21 | 42,42,42,42 | 0 |
| 56 | MG | AN | 102 | 1/1 | 0.93 | 0.23 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3385 | 1/1 | 0.93 | 0.22 | 51,51,51,51 | 0 |
| 56 | MG | CK | 203 | 1/1 | 0.93 | 0.07 | 85,85,85,85 | 0 |
| 56 | MG | CL | 201 | 1/1 | 0.93 | 0.30 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3179 | 1/1 | 0.93 | 0.12 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3673 | 1/1 | 0.93 | 0.28 | 19,19,19,19 | 0 |
| 56 | MG | DA | 3002 | 1/1 | 0.93 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3545 | 1/1 | 0.93 | 0.12 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3019 | 1/1 | 0.93 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3022 | 1/1 | 0.93 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1802 | 1/1 | 0.93 | 0.24 | 39,39,39,39 | 0 |
| 56 | MG | DA | 3401 | 1/1 | 0.93 | 0.21 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3111 | 1/1 | 0.93 | 0.23 | 35,35,35,35 | 0 |
| 56 | MG | DA | 3405 | 1/1 | 0.93 | 0.11 | 4,4,4,4 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | DA | 3031 | 1/1 | 0.93 | 0.49 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3417 | 1/1 | 0.93 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1804 | 1/1 | 0.93 | 0.34 | 56,56,56,56 | 0 |
| 56 | MG | AA | 1722 | 1/1 | 0.93 | 0.08 | 34,34,34,34 | 0 |
| 56 | MG | AA | 1990 | 1/1 | 0.93 | 0.12 | 63,63,63,63 | 0 |
| 56 | MG | AA | 1808 | 1/1 | 0.93 | 0.14 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3047 | 1/1 | 0.93 | 0.21 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3563 | 1/1 | 0.93 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | BA | 3564 | 1/1 | 0.93 | 0.18 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3052 | 1/1 | 0.93 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3194 | 1/1 | 0.93 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | AA | 1928 | 1/1 | 0.93 | 0.13 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3452 | 1/1 | 0.93 | 0.23 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3066 | 1/1 | 0.93 | 0.13 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3568 | 1/1 | 0.93 | 0.16 | 33,33,33,33 | 0 |
| 56 | MG | CA | 1697 | 1/1 | 0.93 | 0.28 | 52,52,52,52 | 0 |
| 56 | MG | BB | 231 | 1/1 | 0.93 | 0.24 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3464 | 1/1 | 0.93 | 0.35 | 75,75,75,75 | 0 |
| 56 | MG | DA | 3098 | 1/1 | 0.93 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3280 | 1/1 | 0.93 | 0.18 | 29,29,29,29 | 0 |
| 56 | MG | AA | 1892 | 1/1 | 0.93 | 0.22 | 30,30,30,30 | 0 |
| 56 | MG | BD | 5002 | 1/1 | 0.93 | 0.30 | 82,82,82,82 | 0 |
| 56 | MG | DB | 203 | 1/1 | 0.93 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DB | 206 | 1/1 | 0.93 | 0.13 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3696 | 1/1 | 0.93 | 0.34 | 69,69,69,69 | 0 |
| 56 | MG | BD | 5004 | 1/1 | 0.93 | 0.17 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1931 | 1/1 | 0.93 | 0.21 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3575 | 1/1 | 0.93 | 0.12 | 53,53,53,53 | 0 |
| 56 | MG | DD | 5004 | 1/1 | 0.93 | 0.26 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3285 | 1/1 | 0.93 | 0.17 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3838 | 1/1 | 0.93 | 0.13 | 29,29,29,29 | 0 |
| 56 | MG | DD | 5008 | 1/1 | 0.93 | 0.13 | 13,13,13,13 | 0 |
| 56 | MG | DD | 5009 | 1/1 | 0.93 | 0.38 | 29,29,29,29 | 0 |
| 56 | MG | AA | 1787 | 1/1 | 0.93 | 0.16 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1812 | 1/1 | 0.93 | 0.20 | 65,65,65,65 | 0 |
| 56 | MG | AA | 1962 | 1/1 | 0.93 | 0.55 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1963 | 1/1 | 0.93 | 0.22 | 56,56,56,56 | 0 |
| 56 | MG | DQ | 202 | 1/1 | 0.93 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3475 | 1/1 | 0.93 | 0.08 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3348 | 1/1 | 0.94 | 0.18 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3557 | 1/1 | 0.94 | 0.20 | 29,29,29,29 | 0 |
| 56 | MG | CA | 1720 | 1/1 | 0.94 | 0.11 | 27,27,27,27 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | AA | 2013 | 1/1 | 0.94 | 0.32 | 40,40,40,40 | 0 |
| 56 | MG | BE | 305 | 1/1 | 0.94 | 0.11 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3835 | 1/1 | 0.94 | 0.17 | 8,8,8,8 | 0 |
| 56 | MG | BA | 3079 | 1/1 | 0.94 | 0.28 | 51,51,51,51 | 0 |
| 56 | MG | BA | 3080 | 1/1 | 0.94 | 0.12 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3148 | 1/1 | 0.94 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3447 | 1/1 | 0.94 | 0.47 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3355 | 1/1 | 0.94 | 0.10 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3566 | 1/1 | 0.94 | 0.14 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3695 | 1/1 | 0.94 | 0.15 | 70,70,70,70 | 0 |
| 56 | MG | DA | 3165 | 1/1 | 0.94 | 0.23 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1809 | 1/1 | 0.94 | 0.23 | 90,90,90,90 | 0 |
| 56 | MG | DA | 3170 | 1/1 | 0.94 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3452 | 1/1 | 0.94 | 0.14 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3569 | 1/1 | 0.94 | 0.28 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3021 | 1/1 | 0.94 | 0.41 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3181 | 1/1 | 0.94 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1980 | 1/1 | 0.94 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3183 | 1/1 | 0.94 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3456 | 1/1 | 0.94 | 0.12 | 24,24,24,24 | 0 |
| 56 | MG | AA | 2016 | 1/1 | 0.94 | 0.29 | 43,43,43,43 | 0 |
| 56 | MG | BI | 204 | 1/1 | 0.94 | 0.21 | 32,32,32,32 | 0 |
| 56 | MG | AA | 2017 | 1/1 | 0.94 | 0.26 | 47,47,47,47 | 0 |
| 56 | MG | AA | 2019 | 1/1 | 0.94 | 0.32 | 70,70,70,70 | 0 |
| 56 | MG | AA | 1824 | 1/1 | 0.94 | 0.49 | 34,34,34,34 | 0 |
| 56 | MG | AA | 1924 | 1/1 | 0.94 | 0.25 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3262 | 1/1 | 0.94 | 0.25 | 7,7,7,7 | 0 |
| 56 | MG | CA | 1759 | 1/1 | 0.94 | 0.30 | 48,48,48,48 | 0 |
| 56 | MG | DA | 3215 | 1/1 | 0.94 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3216 | 1/1 | 0.94 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1726 | 1/1 | 0.94 | 0.23 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3094 | 1/1 | 0.94 | 0.09 | 76,76,76,76 | 0 |
| 56 | MG | AL | 201 | 1/1 | 0.94 | 0.14 | 28,28,28,28 | 0 |
| 56 | MG | DA | 3226 | 1/1 | 0.94 | 0.11 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3228 | 1/1 | 0.94 | 0.12 | 4,4,4,4 | 0 |
| 56 | MG | BO | 203 | 1/1 | 0.94 | 0.21 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3867 | 1/1 | 0.94 | 0.35 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3030 | 1/1 | 0.94 | 0.21 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3587 | 1/1 | 0.94 | 0.15 | 40,40,40,40 | 0 |
| 56 | MG | BQ | 201 | 1/1 | 0.94 | 0.23 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1954 | 1/1 | 0.94 | 0.27 | 74,74,74,74 | 0 |
| 56 | MG | AA | 1901 | 1/1 | 0.94 | 0.24 | 88,88,88,88 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1697 | 1/1 | 0.94 | 0.11 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1903 | 1/1 | 0.94 | 0.48 | 54,54,54,54 | 0 |
| 56 | MG | AA | 2027 | 1/1 | 0.94 | 0.11 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3875 | 1/1 | 0.94 | 0.10 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3722 | 1/1 | 0.94 | 0.76 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3596 | 1/1 | 0.94 | 0.12 | 13,13,13,13 | 0 |
| 56 | MG | BA | 3183 | 1/1 | 0.94 | 0.26 | 57,57,57,57 | 0 |
| 56 | MG | AY | 125 | 1/1 | 0.94 | 0.53 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3254 | 1/1 | 0.94 | 0.16 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3186 | 1/1 | 0.94 | 0.11 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3260 | 1/1 | 0.94 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3262 | 1/1 | 0.94 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1778 | 1/1 | 0.94 | 0.34 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3188 | 1/1 | 0.94 | 0.10 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3602 | 1/1 | 0.94 | 0.34 | 43,43,43,43 | 0 |
| 56 | MG | BX | 102 | 1/1 | 0.94 | 0.19 | 25,25,25,25 | 0 |
| 56 | MG | AT | 201 | 1/1 | 0.94 | 0.19 | 57,57,57,57 | 0 |
| 56 | MG | CA | 1797 | 1/1 | 0.94 | 0.53 | 28,28,28,28 | 0 |
| 56 | MG | AA | 1905 | 1/1 | 0.94 | 0.23 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3288 | 1/1 | 0.94 | 0.20 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3736 | 1/1 | 0.94 | 0.27 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3110 | 1/1 | 0.94 | 0.08 | 65,65,65,65 | 0 |
| 56 | MG | CA | 1809 | 1/1 | 0.94 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3892 | 1/1 | 0.94 | 0.15 | 46,46,46,46 | 0 |
| 56 | MG | B0 | 103 | 1/1 | 0.94 | 0.12 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1640 | 1/1 | 0.94 | 0.18 | 36,36,36,36 | 0 |
| 56 | MG | AA | 1669 | 1/1 | 0.94 | 0.16 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3298 | 1/1 | 0.94 | 0.18 | 9,9,9,9 | 0 |
| 56 | MG | BA | 3493 | 1/1 | 0.94 | 0.07 | 50,50,50,50 | 0 |
| 56 | MG | AA | 1756 | 1/1 | 0.94 | 0.24 | 41,41,41,41 | 0 |
| 56 | MG | CA | 1816 | 1/1 | 0.94 | 0.60 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3305 | 1/1 | 0.94 | 0.13 | 23,23,23,23 | 0 |
| 56 | MG | AA | 1965 | 1/1 | 0.94 | 0.33 | 54,54,54,54 | 0 |
| 56 | MG | B2 | 103 | 1/1 | 0.94 | 0.37 | 36,36,36,36 | 0 |
| 56 | MG | CA | 1820 | 1/1 | 0.94 | 0.23 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1880 | 1/1 | 0.94 | 0.11 | 40,40,40,40 | 0 |
| 56 | MG | CZ | 101 | 1/1 | 0.94 | 0.07 | 72,72,72,72 | 0 |
| 56 | MG | BA | 3046 | 1/1 | 0.94 | 0.15 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3498 | 1/1 | 0.94 | 0.35 | 45,45,45,45 | 0 |
| 56 | MG | B6 | 101 | 1/1 | 0.94 | 0.10 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3396 | 1/1 | 0.94 | 0.24 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3903 | 1/1 | 0.94 | 0.16 | 71,71,71,71 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | CZ | 107 | 1/1 | 0.94 | 0.14 | 57,57,57,57 | 0 |
| 56 | MG | B8 | 102 | 1/1 | 0.94 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | B8 | 103 | 1/1 | 0.94 | 0.13 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3748 | 1/1 | 0.94 | 0.23 | 35,35,35,35 | 0 |
| 56 | MG | CZ | 111 | 1/1 | 0.94 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | AX | 406 | 1/1 | 0.94 | 0.17 | 48,48,48,48 | 0 |
| 56 | MG | CA | 1602 | 1/1 | 0.94 | 0.10 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3621 | 1/1 | 0.94 | 0.17 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3339 | 1/1 | 0.94 | 0.25 | 6,6,6,6 | 0 |
| 56 | MG | AA | 1721 | 1/1 | 0.94 | 0.11 | 44,44,44,44 | 0 |
| 56 | MG | CA | 1618 | 1/1 | 0.94 | 0.25 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1631 | 1/1 | 0.94 | 0.20 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3754 | 1/1 | 0.94 | 0.40 | 44,44,44,44 | 0 |
| 56 | MG | CA | 1628 | 1/1 | 0.94 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1630 | 1/1 | 0.94 | 0.56 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3203 | 1/1 | 0.94 | 0.15 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3204 | 1/1 | 0.94 | 0.09 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3402 | 1/1 | 0.94 | 0.09 | 49,49,49,49 | 0 |
| 56 | MG | AA | 2000 | 1/1 | 0.94 | 0.12 | 46,46,46,46 | 0 |
| 56 | MG | CF | 201 | 1/1 | 0.94 | 0.13 | 40,40,40,40 | 0 |
| 56 | MG | BA | 3051 | 1/1 | 0.94 | 0.09 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3052 | 1/1 | 0.94 | 0.19 | 71,71,71,71 | 0 |
| 56 | MG | BA | 3634 | 1/1 | 0.94 | 0.77 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3406 | 1/1 | 0.94 | 0.30 | 23,23,23,23 | 0 |
| 56 | MG | AA | 1884 | 1/1 | 0.94 | 0.16 | 26,26,26,26 | 0 |
| 56 | MG | AA | 1803 | 1/1 | 0.94 | 0.17 | 55,55,55,55 | 0 |
| 56 | MG | BA | 3317 | 1/1 | 0.94 | 0.15 | 48,48,48,48 | 0 |
| 56 | MG | CA | 1659 | 1/1 | 0.94 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1666 | 1/1 | 0.94 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3515 | 1/1 | 0.94 | 0.11 | 68,68,68,68 | 0 |
| 56 | MG | BA | 3319 | 1/1 | 0.94 | 0.09 | 44,44,44,44 | 0 |
| 56 | MG | BA | 3127 | 1/1 | 0.94 | 0.11 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3056 | 1/1 | 0.94 | 0.21 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3213 | 1/1 | 0.94 | 0.27 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3384 | 1/1 | 0.94 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3003 | 1/1 | 0.94 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3006 | 1/1 | 0.94 | 0.46 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3216 | 1/1 | 0.94 | 0.22 | 54,54,54,54 | 0 |
| 56 | MG | CA | 1674 | 1/1 | 0.94 | 0.38 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3021 | 1/1 | 0.94 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | BB | 209 | 1/1 | 0.94 | 0.14 | 63,63,63,63 | 0 |
| 56 | MG | DA | 3392 | 1/1 | 0.94 | 0.18 | 38,38,38,38 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3023 | 1/1 | 0.94 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3026 | 1/1 | 0.94 | 0.42 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3418 | 1/1 | 0.94 | 0.47 | 54,54,54,54 | 0 |
| 56 | MG | AX | 412 | 1/1 | 0.94 | 0.19 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3783 | 1/1 | 0.94 | 0.14 | 27,27,27,27 | 0 |
| 56 | MG | AA | 1734 | 1/1 | 0.94 | 0.13 | 27,27,27,27 | 0 |
| 56 | MG | DA | 3035 | 1/1 | 0.94 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3038 | 1/1 | 0.94 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3414 | 1/1 | 0.94 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3224 | 1/1 | 0.94 | 0.07 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3786 | 1/1 | 0.94 | 0.36 | 18,18,18,18 | 0 |
| 56 | MG | DA | 3042 | 1/1 | 0.94 | 0.04 | 69,69,69,69 | 0 |
| 56 | MG | BA | 3526 | 1/1 | 0.94 | 0.20 | 49,49,49,49 | 0 |
| 56 | MG | AE | 201 | 1/1 | 0.94 | 0.08 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3049 | 1/1 | 0.94 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | AZ | 114 | 1/1 | 0.94 | 0.10 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1866 | 1/1 | 0.94 | 0.10 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3004 | 1/1 | 0.94 | 0.12 | 27,27,27,27 | 0 |
| 56 | MG | DA | 3443 | 1/1 | 0.94 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3445 | 1/1 | 0.94 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3054 | 1/1 | 0.94 | 0.12 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3055 | 1/1 | 0.94 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1683 | 1/1 | 0.94 | 0.16 | 74,74,74,74 | 0 |
| 56 | MG | DA | 3454 | 1/1 | 0.94 | 0.14 | 45,45,45,45 | 0 |
| 56 | MG | BA | 3007 | 1/1 | 0.94 | 0.51 | 20,20,20,20 | 0 |
| 56 | MG | AV | 5501 | 1/1 | 0.94 | 0.15 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3430 | 1/1 | 0.94 | 0.11 | 45,45,45,45 | 0 |
| 56 | MG | CA | 1692 | 1/1 | 0.94 | 0.14 | 34,34,34,34 | 0 |
| 56 | MG | DA | 3071 | 1/1 | 0.94 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3072 | 1/1 | 0.94 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1654 | 1/1 | 0.94 | 0.14 | 75,75,75,75 | 0 |
| 56 | MG | DA | 3080 | 1/1 | 0.94 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3082 | 1/1 | 0.94 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3669 | 1/1 | 0.94 | 0.35 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3069 | 1/1 | 0.94 | 0.15 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3100 | 1/1 | 0.94 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3804 | 1/1 | 0.94 | 0.15 | 44,44,44,44 | 0 |
| 56 | MG | DB | 211 | 1/1 | 0.94 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | AE | 207 | 1/1 | 0.94 | 0.09 | 38,38,38,38 | 0 |
| 56 | MG | AA | 2008 | 1/1 | 0.94 | 0.25 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3435 | 1/1 | 0.94 | 0.12 | 32,32,32,32 | 0 |
| 56 | MG | AA | 2009 | 1/1 | 0.94 | 0.28 | 47,47,47,47 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | CA | 1708 | 1/1 | 0.94 | 0.15 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3344 | 1/1 | 0.94 | 0.38 | 47,47,47,47 | 0 |
| 56 | MG | AA | 2010 | 1/1 | 0.94 | 0.19 | 33,33,33,33 | 0 |
| 56 | MG | DF | 301 | 1/1 | 0.94 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1977 | 1/1 | 0.94 | 0.27 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1890 | 1/1 | 0.94 | 0.18 | 21,21,21,21 | 0 |
| 56 | MG | DN | 201 | 1/1 | 0.94 | 0.60 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3820 | 1/1 | 0.94 | 0.23 | 59,59,59,59 | 0 |
| 56 | MG | DP | 201 | 1/1 | 0.94 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3821 | 1/1 | 0.94 | 0.12 | 22,22,22,22 | 0 |
| 56 | MG | DA | 3118 | 1/1 | 0.94 | 0.33 | 6,6,6,6 | 0 |
| 56 | MG | DU | 201 | 1/1 | 0.94 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | D1 | 102 | 1/1 | 0.94 | 0.24 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3555 | 1/1 | 0.94 | 0.20 | 7,7,7,7 | 0 |
| 56 | MG | DA | 3157 | 1/1 | 0.95 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3162 | 1/1 | 0.95 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1703 | 1/1 | 0.95 | 0.12 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3613 | 1/1 | 0.95 | 0.11 | 32,32,32,32 | 0 |
| 56 | MG | DA | 3168 | 1/1 | 0.95 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1893 | 1/1 | 0.95 | 0.22 | 52,52,52,52 | 0 |
| 56 | MG | AA | 1894 | 1/1 | 0.95 | 0.30 | 35,35,35,35 | 0 |
| 56 | MG | AA | 1795 | 1/1 | 0.95 | 0.16 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1898 | 1/1 | 0.95 | 0.10 | 27,27,27,27 | 0 |
| 56 | MG | DA | 3176 | 1/1 | 0.95 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3178 | 1/1 | 0.95 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1869 | 1/1 | 0.95 | 0.16 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3257 | 1/1 | 0.95 | 0.08 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3087 | 1/1 | 0.95 | 0.31 | 24,24,24,24 | 0 |
| 56 | MG | AA | 1606 | 1/1 | 0.95 | 0.18 | 35,35,35,35 | 0 |
| 56 | MG | DA | 3184 | 1/1 | 0.95 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3187 | 1/1 | 0.95 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3883 | 1/1 | 0.95 | 0.14 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3190 | 1/1 | 0.95 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BV | 203 | 1/1 | 0.95 | 0.04 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3192 | 1/1 | 0.95 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3194 | 1/1 | 0.95 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1774 | 1/1 | 0.95 | 0.50 | 82,82,82,82 | 0 |
| 56 | MG | DA | 3196 | 1/1 | 0.95 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3198 | 1/1 | 0.95 | 0.36 | 4,4,4,4 | 0 |
| 56 | MG | AY | 119 | 1/1 | 0.95 | 0.09 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3885 | 1/1 | 0.95 | 0.12 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3203 | 1/1 | 0.95 | 0.26 | 15,15,15,15 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | CA | 1780 | 1/1 | 0.95 | 0.08 | 51,51,51,51 | 0 |
| 56 | MG | DA | 3206 | 1/1 | 0.95 | 0.14 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3429 | 1/1 | 0.95 | 0.24 | 51,51,51,51 | 0 |
| 56 | MG | DA | 3208 | 1/1 | 0.95 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3261 | 1/1 | 0.95 | 0.16 | 14,14,14,14 | 0 |
| 56 | MG | AA | 1706 | 1/1 | 0.95 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | CA | 1786 | 1/1 | 0.95 | 0.29 | 67,67,67,67 | 0 |
| 56 | MG | AA | 1620 | 1/1 | 0.95 | 0.18 | 56,56,56,56 | 0 |
| 56 | MG | BY | 203 | 1/1 | 0.95 | 0.18 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3629 | 1/1 | 0.95 | 0.19 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3221 | 1/1 | 0.95 | 0.35 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3197 | 1/1 | 0.95 | 0.32 | 85,85,85,85 | 0 |
| 56 | MG | DA | 3225 | 1/1 | 0.95 | 0.18 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3893 | 1/1 | 0.95 | 0.05 | 62,62,62,62 | 0 |
| 56 | MG | CA | 1792 | 1/1 | 0.95 | 0.53 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3229 | 1/1 | 0.95 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3141 | 1/1 | 0.95 | 0.14 | 68,68,68,68 | 0 |
| 56 | MG | B1 | 104 | 1/1 | 0.95 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3232 | 1/1 | 0.95 | 0.05 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3234 | 1/1 | 0.95 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3353 | 1/1 | 0.95 | 0.24 | 37,37,37,37 | 0 |
| 56 | MG | BA | 3354 | 1/1 | 0.95 | 0.33 | 59,59,59,59 | 0 |
| 56 | MG | AA | 1967 | 1/1 | 0.95 | 0.09 | 28,28,28,28 | 0 |
| 56 | MG | CA | 1800 | 1/1 | 0.95 | 0.42 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3639 | 1/1 | 0.95 | 0.17 | 42,42,42,42 | 0 |
| 56 | MG | CA | 1802 | 1/1 | 0.95 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3530 | 1/1 | 0.95 | 0.16 | 60,60,60,60 | 0 |
| 56 | MG | BA | 3145 | 1/1 | 0.95 | 0.18 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3533 | 1/1 | 0.95 | 0.13 | 2,2,2,2 | 0 |
| 56 | MG | BA | 3440 | 1/1 | 0.95 | 0.33 | 73,73,73,73 | 0 |
| 56 | MG | AA | 1850 | 1/1 | 0.95 | 0.11 | 38,38,38,38 | 0 |
| 56 | MG | AA | 1874 | 1/1 | 0.95 | 0.22 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3248 | 1/1 | 0.95 | 0.13 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3250 | 1/1 | 0.95 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1635 | 1/1 | 0.95 | 0.11 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3252 | 1/1 | 0.95 | 0.36 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3253 | 1/1 | 0.95 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3538 | 1/1 | 0.95 | 0.47 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3766 | 1/1 | 0.95 | 0.22 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1677 | 1/1 | 0.95 | 0.10 | 74,74,74,74 | 0 |
| 56 | MG | BA | 3910 | 1/1 | 0.95 | 0.30 | 40,40,40,40 | 0 |
| 56 | MG | DA | 3268 | 1/1 | 0.95 | 0.17 | 4,4,4,4 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3274 | 1/1 | 0.95 | 0.44 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3912 | 1/1 | 0.95 | 0.10 | 26,26,26,26 | 0 |
| 56 | MG | AA | 1941 | 1/1 | 0.95 | 0.24 | 42,42,42,42 | 0 |
| 56 | MG | CA | 1822 | 1/1 | 0.95 | 0.38 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3015 | 1/1 | 0.95 | 0.20 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1613 | 1/1 | 0.95 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3915 | 1/1 | 0.95 | 0.29 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3016 | 1/1 | 0.95 | 0.10 | 50,50,50,50 | 0 |
| 56 | MG | DA | 3287 | 1/1 | 0.95 | 0.42 | 10,10,10,10 | 0 |
| 56 | MG | CA | 1619 | 1/1 | 0.95 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3772 | 1/1 | 0.95 | 0.10 | 48,48,48,48 | 0 |
| 56 | MG | CA | 1623 | 1/1 | 0.95 | 0.29 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1624 | 1/1 | 0.95 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3656 | 1/1 | 0.95 | 0.26 | 16,16,16,16 | 0 |
| 56 | MG | AA | 1686 | 1/1 | 0.95 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3777 | 1/1 | 0.95 | 0.17 | 32,32,32,32 | 0 |
| 56 | MG | CA | 1632 | 1/1 | 0.95 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3658 | 1/1 | 0.95 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | CY | 103 | 1/1 | 0.95 | 0.17 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3105 | 1/1 | 0.95 | 0.57 | 30,30,30,30 | 0 |
| 56 | MG | AA | 1943 | 1/1 | 0.95 | 0.14 | 56,56,56,56 | 0 |
| 56 | MG | AL | 204 | 1/1 | 0.95 | 0.07 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3306 | 1/1 | 0.95 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1645 | 1/1 | 0.95 | 0.12 | 6,6,6,6 | 0 |
| 56 | MG | AA | 1671 | 1/1 | 0.95 | 0.17 | 59,59,59,59 | 0 |
| 56 | MG | CY | 109 | 1/1 | 0.95 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3455 | 1/1 | 0.95 | 0.11 | 26,26,26,26 | 0 |
| 56 | MG | CA | 1651 | 1/1 | 0.95 | 0.21 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3215 | 1/1 | 0.95 | 0.14 | 27,27,27,27 | 0 |
| 56 | MG | AA | 1855 | 1/1 | 0.95 | 0.24 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3218 | 1/1 | 0.95 | 0.35 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3558 | 1/1 | 0.95 | 0.19 | 10,10,10,10 | 0 |
| 56 | MG | BA | 3559 | 1/1 | 0.95 | 0.14 | 31,31,31,31 | 0 |
| 56 | MG | DA | 3322 | 1/1 | 0.95 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1657 | 1/1 | 0.95 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3324 | 1/1 | 0.95 | 0.52 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3290 | 1/1 | 0.95 | 0.16 | 15,15,15,15 | 0 |
| 56 | MG | DA | 3328 | 1/1 | 0.95 | 0.17 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3330 | 1/1 | 0.95 | 0.22 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3331 | 1/1 | 0.95 | 0.14 | 23,23,23,23 | 0 |
| 56 | MG | CA | 1661 | 1/1 | 0.95 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3675 | 1/1 | 0.95 | 0.24 | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3291 | 1/1 | 0.95 | 0.15 | 9,9,9,9 | 0 |
| 56 | MG | BA | 3562 | 1/1 | 0.95 | 0.12 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3219 | 1/1 | 0.95 | 0.16 | 17,17,17,17 | 0 |
| 56 | MG | BA | 3797 | 1/1 | 0.95 | 0.11 | 52,52,52,52 | 0 |
| 56 | MG | AA | 1608 | 1/1 | 0.95 | 0.12 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3164 | 1/1 | 0.95 | 0.77 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3223 | 1/1 | 0.95 | 0.12 | 36,36,36,36 | 0 |
| 56 | MG | AA | 1857 | 1/1 | 0.95 | 0.16 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3299 | 1/1 | 0.95 | 0.13 | 9,9,9,9 | 0 |
| 56 | MG | BA | 3225 | 1/1 | 0.95 | 0.13 | 27,27,27,27 | 0 |
| 56 | MG | AA | 1713 | 1/1 | 0.95 | 0.24 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3388 | 1/1 | 0.95 | 0.09 | 61,61,61,61 | 0 |
| 56 | MG | BA | 3064 | 1/1 | 0.95 | 0.17 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3008 | 1/1 | 0.95 | 0.23 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3010 | 1/1 | 0.95 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3012 | 1/1 | 0.95 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3810 | 1/1 | 0.95 | 0.27 | 12,12,12,12 | 0 |
| 56 | MG | AA | 1981 | 1/1 | 0.95 | 0.16 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3814 | 1/1 | 0.95 | 0.35 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3391 | 1/1 | 0.95 | 0.15 | 51,51,51,51 | 0 |
| 56 | MG | AC | 303 | 1/1 | 0.95 | 0.07 | 56,56,56,56 | 0 |
| 56 | MG | BA | 3308 | 1/1 | 0.95 | 0.13 | 8,8,8,8 | 0 |
| 56 | MG | AA | 1768 | 1/1 | 0.95 | 0.36 | 37,37,37,37 | 0 |
| 56 | MG | AA | 1673 | 1/1 | 0.95 | 0.18 | 64,64,64,64 | 0 |
| 56 | MG | AA | 1681 | 1/1 | 0.95 | 0.10 | 27,27,27,27 | 0 |
| 56 | MG | BB | 234 | 1/1 | 0.95 | 0.11 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3036 | 1/1 | 0.95 | 0.18 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3484 | 1/1 | 0.95 | 0.18 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3312 | 1/1 | 0.95 | 0.17 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3040 | 1/1 | 0.95 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3584 | 1/1 | 0.95 | 0.27 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3829 | 1/1 | 0.95 | 0.15 | 40,40,40,40 | 0 |
| 56 | MG | DA | 3386 | 1/1 | 0.95 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3044 | 1/1 | 0.95 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3831 | 1/1 | 0.95 | 0.22 | 34,34,34,34 | 0 |
| 56 | MG | CA | 1702 | 1/1 | 0.95 | 0.09 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3832 | 1/1 | 0.95 | 0.26 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3833 | 1/1 | 0.95 | 0.16 | 9,9,9,9 | 0 |
| 56 | MG | BA | 3316 | 1/1 | 0.95 | 0.08 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3487 | 1/1 | 0.95 | 0.19 | 26,26,26,26 | 0 |
| 56 | MG | DA | 3053 | 1/1 | 0.95 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3397 | 1/1 | 0.95 | 0.22 | 24,24,24,24 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | CA | 1707 | 1/1 | 0.95 | 0.14 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3488 | 1/1 | 0.95 | 0.16 | 52,52,52,52 | 0 |
| 56 | MG | DA | 3061 | 1/1 | 0.95 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3589 | 1/1 | 0.95 | 0.10 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3489 | 1/1 | 0.95 | 0.09 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3591 | 1/1 | 0.95 | 0.17 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3708 | 1/1 | 0.95 | 0.17 | 28,28,28,28 | 0 |
| 56 | MG | DA | 3068 | 1/1 | 0.95 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3419 | 1/1 | 0.95 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3420 | 1/1 | 0.95 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3842 | 1/1 | 0.95 | 0.19 | 16,16,16,16 | 0 |
| 56 | MG | BA | 3174 | 1/1 | 0.95 | 0.16 | 83,83,83,83 | 0 |
| 56 | MG | BA | 3844 | 1/1 | 0.95 | 0.15 | 36,36,36,36 | 0 |
| 56 | MG | AY | 104 | 1/1 | 0.95 | 0.09 | 64,64,64,64 | 0 |
| 56 | MG | DA | 3426 | 1/1 | 0.95 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3078 | 1/1 | 0.95 | 0.30 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3429 | 1/1 | 0.95 | 0.47 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3237 | 1/1 | 0.95 | 0.11 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3238 | 1/1 | 0.95 | 0.14 | 20,20,20,20 | 0 |
| 56 | MG | BA | 3713 | 1/1 | 0.95 | 0.17 | 33,33,33,33 | 0 |
| 56 | MG | DA | 3096 | 1/1 | 0.95 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3444 | 1/1 | 0.95 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3322 | 1/1 | 0.95 | 0.20 | 40,40,40,40 | 0 |
| 56 | MG | DA | 3099 | 1/1 | 0.95 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | AY | 106 | 1/1 | 0.95 | 0.11 | 58,58,58,58 | 0 |
| 56 | MG | BA | 3852 | 1/1 | 0.95 | 0.16 | 35,35,35,35 | 0 |
| 56 | MG | BI | 202 | 1/1 | 0.95 | 0.05 | 53,53,53,53 | 0 |
| 56 | MG | CA | 1727 | 1/1 | 0.95 | 0.11 | 53,53,53,53 | 0 |
| 56 | MG | BA | 3855 | 1/1 | 0.95 | 0.14 | 49,49,49,49 | 0 |
| 56 | MG | BA | 3177 | 1/1 | 0.95 | 0.10 | 40,40,40,40 | 0 |
| 56 | MG | CA | 1731 | 1/1 | 0.95 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3857 | 1/1 | 0.95 | 0.23 | 71,71,71,71 | 0 |
| 56 | MG | DA | 3474 | 1/1 | 0.95 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3475 | 1/1 | 0.95 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1733 | 1/1 | 0.95 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3241 | 1/1 | 0.95 | 0.19 | 48,48,48,48 | 0 |
| 56 | MG | AA | 1791 | 1/1 | 0.95 | 0.09 | 81,81,81,81 | 0 |
| 56 | MG | AA | 1702 | 1/1 | 0.95 | 0.32 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3328 | 1/1 | 0.95 | 0.14 | 38,38,38,38 | 0 |
| 56 | MG | DB | 205 | 1/1 | 0.95 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3180 | 1/1 | 0.95 | 0.07 | 36,36,36,36 | 0 |
| 56 | MG | BN | 204 | 1/1 | 0.95 | 0.12 | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1736 | 1/1 | 0.95 | 0.13 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3182 | 1/1 | 0.95 | 0.15 | 20,20,20,20 | 0 |
| 56 | MG | DA | 3127 | 1/1 | 0.95 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3128 | 1/1 | 0.95 | 0.17 | 12,12,12,12 | 0 |
| 56 | MG | BA | 3249 | 1/1 | 0.95 | 0.31 | 58,58,58,58 | 0 |
| 56 | MG | CA | 1745 | 1/1 | 0.95 | 0.14 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3726 | 1/1 | 0.95 | 0.08 | 25,25,25,25 | 0 |
| 56 | MG | AA | 1891 | 1/1 | 0.95 | 0.13 | 61,61,61,61 | 0 |
| 56 | MG | CA | 1751 | 1/1 | 0.95 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | DE | 301 | 1/1 | 0.95 | 0.09 | 5,5,5,5 | 0 |
| 56 | MG | CA | 1753 | 1/1 | 0.95 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3142 | 1/1 | 0.95 | 0.47 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3143 | 1/1 | 0.95 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3144 | 1/1 | 0.95 | 0.26 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3728 | 1/1 | 0.95 | 0.17 | 34,34,34,34 | 0 |
| 56 | MG | CA | 1755 | 1/1 | 0.95 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3150 | 1/1 | 0.95 | 0.15 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3152 | 1/1 | 0.95 | 0.12 | 5,5,5,5 | 0 |
| 56 | MG | DR | 201 | 1/1 | 0.95 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | BP | 202 | 1/1 | 0.95 | 0.12 | 24,24,24,24 | 0 |
| 56 | MG | D1 | 101 | 1/1 | 0.95 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3335 | 1/1 | 0.95 | 0.15 | 52,52,52,52 | 0 |
| 56 | MG | D6 | 101 | 1/1 | 0.95 | 0.11 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3155 | 1/1 | 0.95 | 0.18 | 4,4,4,4 | 0 |
| 57 | ZN | CN | 101 | 1/1 | 0.95 | 0.16 | 100,100,100,100 | 0 |
| 56 | MG | CA | 1631 | 1/1 | 0.96 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | BD | 5005 | 1/1 | 0.96 | 0.14 | 10,10,10,10 | 0 |
| 56 | MG | AA | 1921 | 1/1 | 0.96 | 0.15 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1638 | 1/1 | 0.96 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3463 | 1/1 | 0.96 | 0.14 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3605 | 1/1 | 0.96 | 0.29 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3263 | 1/1 | 0.96 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3264 | 1/1 | 0.96 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1641 | 1/1 | 0.96 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3056 | 1/1 | 0.96 | 0.31 | 63,63,63,63 | 0 |
| 56 | MG | DA | 3058 | 1/1 | 0.96 | 0.19 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3060 | 1/1 | 0.96 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3280 | 1/1 | 0.96 | 0.31 | 34,34,34,34 | 0 |
| 56 | MG | CA | 1643 | 1/1 | 0.96 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3773 | 1/1 | 0.96 | 0.15 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3774 | 1/1 | 0.96 | 0.23 | 42,42,42,42 | 0 |
| 56 | MG | BA | 3271 | 1/1 | 0.96 | 0.18 | 57,57,57,57 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1783 | 1/1 | 0.96 | 0.45 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3220 | 1/1 | 0.96 | 0.23 | 13,13,13,13 | 0 |
| 56 | MG | AA | 1837 | 1/1 | 0.96 | 0.13 | 17,17,17,17 | 0 |
| 56 | MG | DA | 3289 | 1/1 | 0.96 | 0.22 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3694 | 1/1 | 0.96 | 0.06 | 77,77,77,77 | 0 |
| 56 | MG | BA | 3001 | 1/1 | 0.96 | 0.18 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3073 | 1/1 | 0.96 | 0.11 | 6,6,6,6 | 0 |
| 56 | MG | AA | 1714 | 1/1 | 0.96 | 0.19 | 79,79,79,79 | 0 |
| 56 | MG | DA | 3076 | 1/1 | 0.96 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3077 | 1/1 | 0.96 | 0.12 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3296 | 1/1 | 0.96 | 0.60 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3040 | 1/1 | 0.96 | 0.32 | 97,97,97,97 | 0 |
| 56 | MG | DA | 3079 | 1/1 | 0.96 | 0.40 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1925 | 1/1 | 0.96 | 0.10 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3226 | 1/1 | 0.96 | 0.18 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3083 | 1/1 | 0.96 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3084 | 1/1 | 0.96 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3086 | 1/1 | 0.96 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1839 | 1/1 | 0.96 | 0.08 | 18,18,18,18 | 0 |
| 56 | MG | DA | 3088 | 1/1 | 0.96 | 0.15 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3089 | 1/1 | 0.96 | 0.14 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3091 | 1/1 | 0.96 | 0.50 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3312 | 1/1 | 0.96 | 0.07 | 46,46,46,46 | 0 |
| 56 | MG | DA | 3093 | 1/1 | 0.96 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3094 | 1/1 | 0.96 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3095 | 1/1 | 0.96 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3317 | 1/1 | 0.96 | 0.34 | 43,43,43,43 | 0 |
| 56 | MG | BH | 201 | 1/1 | 0.96 | 0.06 | 54,54,54,54 | 0 |
| 56 | MG | BA | 3618 | 1/1 | 0.96 | 0.09 | 19,19,19,19 | 0 |
| 56 | MG | AA | 1755 | 1/1 | 0.96 | 0.12 | 47,47,47,47 | 0 |
| 56 | MG | AA | 1930 | 1/1 | 0.96 | 0.07 | 59,59,59,59 | 0 |
| 56 | MG | BA | 3129 | 1/1 | 0.96 | 0.17 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3547 | 1/1 | 0.96 | 0.22 | 16,16,16,16 | 0 |
| 56 | MG | BA | 3706 | 1/1 | 0.96 | 0.20 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1861 | 1/1 | 0.96 | 0.05 | 47,47,47,47 | 0 |
| 56 | MG | CA | 1803 | 1/1 | 0.96 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3351 | 1/1 | 0.96 | 0.16 | 22,22,22,22 | 0 |
| 56 | MG | AA | 1843 | 1/1 | 0.96 | 0.14 | 41,41,41,41 | 0 |
| 56 | MG | AK | 207 | 1/1 | 0.96 | 0.12 | 65,65,65,65 | 0 |
| 56 | MG | DA | 3109 | 1/1 | 0.96 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3090 | 1/1 | 0.96 | 0.08 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1883 | 1/1 | 0.96 | 0.20 | 42,42,42,42 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3236 | 1/1 | 0.96 | 0.17 | 35,35,35,35 | 0 |
| 56 | MG | AA | 1959 | 1/1 | 0.96 | 0.11 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3340 | 1/1 | 0.96 | 0.11 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3117 | 1/1 | 0.96 | 0.11 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3631 | 1/1 | 0.96 | 0.27 | 67,67,67,67 | 0 |
| 56 | MG | BA | 3137 | 1/1 | 0.96 | 0.11 | 19,19,19,19 | 0 |
| 56 | MG | CA | 1817 | 1/1 | 0.96 | 0.15 | 22,22,22,22 | 0 |
| 56 | MG | DA | 3124 | 1/1 | 0.96 | 0.15 | 14,14,14,14 | 0 |
| 56 | MG | AA | 1663 | 1/1 | 0.96 | 0.06 | 33,33,33,33 | 0 |
| 56 | MG | DA | 3126 | 1/1 | 0.96 | 0.61 | 66,66,66,66 | 0 |
| 56 | MG | BA | 3361 | 1/1 | 0.96 | 0.25 | 16,16,16,16 | 0 |
| 56 | MG | AA | 1845 | 1/1 | 0.96 | 0.09 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3811 | 1/1 | 0.96 | 0.25 | 52,52,52,52 | 0 |
| 56 | MG | CA | 1688 | 1/1 | 0.96 | 0.31 | 54,54,54,54 | 0 |
| 56 | MG | AA | 1775 | 1/1 | 0.96 | 0.16 | 27,27,27,27 | 0 |
| 56 | MG | BA | 3096 | 1/1 | 0.96 | 0.08 | 60,60,60,60 | 0 |
| 56 | MG | DA | 3363 | 1/1 | 0.96 | 0.41 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3135 | 1/1 | 0.96 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | BQ | 202 | 1/1 | 0.96 | 0.15 | 18,18,18,18 | 0 |
| 56 | MG | DA | 3368 | 1/1 | 0.96 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3911 | 1/1 | 0.96 | 0.08 | 22,22,22,22 | 0 |
| 56 | MG | AA | 1716 | 1/1 | 0.96 | 0.12 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3816 | 1/1 | 0.96 | 0.20 | 38,38,38,38 | 0 |
| 56 | MG | BQ | 206 | 1/1 | 0.96 | 0.07 | 13,13,13,13 | 0 |
| 56 | MG | DA | 3374 | 1/1 | 0.96 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3145 | 1/1 | 0.96 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3146 | 1/1 | 0.96 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3147 | 1/1 | 0.96 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3817 | 1/1 | 0.96 | 0.24 | 30,30,30,30 | 0 |
| 56 | MG | CA | 1698 | 1/1 | 0.96 | 0.19 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3382 | 1/1 | 0.96 | 0.07 | 42,42,42,42 | 0 |
| 56 | MG | BR | 202 | 1/1 | 0.96 | 0.28 | 89,89,89,89 | 0 |
| 56 | MG | BA | 3144 | 1/1 | 0.96 | 0.36 | 45,45,45,45 | 0 |
| 56 | MG | AA | 1801 | 1/1 | 0.96 | 0.07 | 55,55,55,55 | 0 |
| 56 | MG | CZ | 113 | 1/1 | 0.96 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | CY | 101 | 1/1 | 0.96 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3156 | 1/1 | 0.96 | 0.40 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3644 | 1/1 | 0.96 | 0.24 | 26,26,26,26 | 0 |
| 56 | MG | DA | 3158 | 1/1 | 0.96 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3368 | 1/1 | 0.96 | 0.21 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3822 | 1/1 | 0.96 | 0.32 | 34,34,34,34 | 0 |
| 56 | MG | BA | 3824 | 1/1 | 0.96 | 0.14 | 17,17,17,17 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | DA | 3395 | 1/1 | 0.96 | 0.23 | 41,41,41,41 | 0 |
| 56 | MG | DA | 3166 | 1/1 | 0.96 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3167 | 1/1 | 0.96 | 0.11 | 6,6,6,6 | 0 |
| 56 | MG | AA | 1690 | 1/1 | 0.96 | 0.10 | 19,19,19,19 | 0 |
| 56 | MG | BA | 3370 | 1/1 | 0.96 | 0.05 | 46,46,46,46 | 0 |
| 56 | MG | BA | 3649 | 1/1 | 0.96 | 0.33 | 30,30,30,30 | 0 |
| 56 | MG | DA | 3402 | 1/1 | 0.96 | 0.15 | 32,32,32,32 | 0 |
| 56 | MG | AA | 1733 | 1/1 | 0.96 | 0.12 | 38,38,38,38 | 0 |
| 56 | MG | BA | 3573 | 1/1 | 0.96 | 0.16 | 62,62,62,62 | 0 |
| 56 | MG | DA | 3406 | 1/1 | 0.96 | 0.15 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3408 | 1/1 | 0.96 | 0.29 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3409 | 1/1 | 0.96 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3411 | 1/1 | 0.96 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3175 | 1/1 | 0.96 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3830 | 1/1 | 0.96 | 0.13 | 12,12,12,12 | 0 |
| 56 | MG | BA | 3148 | 1/1 | 0.96 | 0.35 | 35,35,35,35 | 0 |
| 56 | MG | BA | 3503 | 1/1 | 0.96 | 0.06 | 41,41,41,41 | 0 |
| 56 | MG | AQ | 201 | 1/1 | 0.96 | 0.08 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3314 | 1/1 | 0.96 | 0.26 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3739 | 1/1 | 0.96 | 0.17 | 23,23,23,23 | 0 |
| 56 | MG | BA | 3315 | 1/1 | 0.96 | 0.12 | 28,28,28,28 | 0 |
| 56 | MG | DA | 3185 | 1/1 | 0.96 | 0.25 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3186 | 1/1 | 0.96 | 0.11 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3427 | 1/1 | 0.96 | 0.56 | 3,3,3,3 | 0 |
| 56 | MG | AD | 5004 | 1/1 | 0.96 | 0.19 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3439 | 1/1 | 0.96 | 0.17 | 18,18,18,18 | 0 |
| 56 | MG | CA | 1725 | 1/1 | 0.96 | 0.04 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3434 | 1/1 | 0.96 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3435 | 1/1 | 0.96 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3436 | 1/1 | 0.96 | 0.18 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1831 | 1/1 | 0.96 | 0.15 | 68,68,68,68 | 0 |
| 56 | MG | AA | 1832 | 1/1 | 0.96 | 0.27 | 33,33,33,33 | 0 |
| 56 | MG | DA | 3193 | 1/1 | 0.96 | 0.14 | 7,7,7,7 | 0 |
| 56 | MG | BA | 3380 | 1/1 | 0.96 | 0.07 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3153 | 1/1 | 0.96 | 0.29 | 41,41,41,41 | 0 |
| 56 | MG | BA | 3586 | 1/1 | 0.96 | 0.11 | 18,18,18,18 | 0 |
| 56 | MG | DA | 3448 | 1/1 | 0.96 | 0.12 | 21,21,21,21 | 0 |
| 56 | MG | AA | 2028 | 1/1 | 0.96 | 0.17 | 65,65,65,65 | 0 |
| 56 | MG | AA | 1642 | 1/1 | 0.96 | 0.16 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3453 | 1/1 | 0.96 | 0.46 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1734 | 1/1 | 0.96 | 0.10 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3455 | 1/1 | 0.96 | 0.20 | 27,27,27,27 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3202 | 1/1 | 0.96 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3750 | 1/1 | 0.96 | 0.16 | 45,45,45,45 | 0 |
| 56 | MG | DA | 3461 | 1/1 | 0.96 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3465 | 1/1 | 0.96 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3001 | 1/1 | 0.96 | 0.16 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1999 | 1/1 | 0.96 | 0.11 | 47,47,47,47 | 0 |
| 56 | MG | BA | 3158 | 1/1 | 0.96 | 0.10 | 42,42,42,42 | 0 |
| 56 | MG | DA | 3469 | 1/1 | 0.96 | 0.40 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3470 | 1/1 | 0.96 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3471 | 1/1 | 0.96 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3473 | 1/1 | 0.96 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3672 | 1/1 | 0.96 | 0.06 | 18,18,18,18 | 0 |
| 56 | MG | CA | 1739 | 1/1 | 0.96 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3476 | 1/1 | 0.96 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3477 | 1/1 | 0.96 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3479 | 1/1 | 0.96 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | BB | 223 | 1/1 | 0.96 | 0.08 | 27,27,27,27 | 0 |
| 56 | MG | AA | 1917 | 1/1 | 0.96 | 0.07 | 52,52,52,52 | 0 |
| 56 | MG | BA | 3755 | 1/1 | 0.96 | 0.19 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3015 | 1/1 | 0.96 | 0.08 | 6,6,6,6 | 0 |
| 56 | MG | DA | 3488 | 1/1 | 0.96 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DB | 201 | 1/1 | 0.96 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | DB | 202 | 1/1 | 0.96 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3218 | 1/1 | 0.96 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3016 | 1/1 | 0.96 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3220 | 1/1 | 0.96 | 0.27 | 21,21,21,21 | 0 |
| 56 | MG | DA | 3017 | 1/1 | 0.96 | 0.09 | 3,3,3,3 | 0 |
| 56 | MG | DB | 209 | 1/1 | 0.96 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3674 | 1/1 | 0.96 | 0.15 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3224 | 1/1 | 0.96 | 0.14 | 5,5,5,5 | 0 |
| 56 | MG | DD | 5001 | 1/1 | 0.96 | 0.15 | 33,33,33,33 | 0 |
| 56 | MG | AY | 116 | 1/1 | 0.96 | 0.31 | 40,40,40,40 | 0 |
| 56 | MG | AE | 208 | 1/1 | 0.96 | 0.11 | 42,42,42,42 | 0 |
| 56 | MG | AA | 1972 | 1/1 | 0.96 | 0.11 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3024 | 1/1 | 0.96 | 0.16 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1611 | 1/1 | 0.96 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | DD | 5007 | 1/1 | 0.96 | 0.25 | 11,11,11,11 | 0 |
| 56 | MG | DA | 3027 | 1/1 | 0.96 | 0.15 | 6,6,6,6 | 0 |
| 56 | MG | CA | 1750 | 1/1 | 0.96 | 0.18 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1705 | 1/1 | 0.96 | 0.39 | 50,50,50,50 | 0 |
| 56 | MG | BA | 3679 | 1/1 | 0.96 | 0.24 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3115 | 1/1 | 0.96 | 0.08 | 61,61,61,61 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | BA | 3863 | 1/1 | 0.96 | 0.16 | 62,62,62,62 | 0 |
| 56 | MG | BA | 3214 | 1/1 | 0.96 | 0.36 | 19,19,19,19 | 0 |
| 56 | MG | DA | 3037 | 1/1 | 0.96 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1895 | 1/1 | 0.96 | 0.08 | 52,52,52,52 | 0 |
| 56 | MG | BD | 5001 | 1/1 | 0.96 | 0.35 | 61,61,61,61 | 0 |
| 56 | MG | CA | 1760 | 1/1 | 0.96 | 0.16 | 18,18,18,18 | 0 |
| 56 | MG | CA | 1625 | 1/1 | 0.96 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3459 | 1/1 | 0.96 | 0.18 | 18,18,18,18 | 0 |
| 56 | MG | DY | 201 | 1/1 | 0.96 | 0.10 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1764 | 1/1 | 0.96 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3045 | 1/1 | 0.96 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3046 | 1/1 | 0.96 | 0.25 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3333 | 1/1 | 0.96 | 0.12 | 55,55,55,55 | 0 |
| 57 | ZN | AD | 5001 | 1/1 | 0.96 | 0.24 | 41,41,41,41 | 0 |
| 56 | MG | AA | 1896 | 1/1 | 0.96 | 0.13 | 26,26,26,26 | 0 |
| 56 | MG | CA | 1616 | 1/1 | 0.97 | 0.08 | 5,5,5,5 | 0 |
| 56 | MG | CA | 1617 | 1/1 | 0.97 | 0.11 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1724 | 1/1 | 0.97 | 0.08 | 35,35,35,35 | 0 |
| 56 | MG | AA | 1759 | 1/1 | 0.97 | 0.26 | 15,15,15,15 | 0 |
| 56 | MG | DA | 3325 | 1/1 | 0.97 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3813 | 1/1 | 0.97 | 0.10 | 15,15,15,15 | 0 |
| 56 | MG | DA | 3327 | 1/1 | 0.97 | 0.35 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1961 | 1/1 | 0.97 | 0.38 | 61,61,61,61 | 0 |
| 56 | MG | DA | 3329 | 1/1 | 0.97 | 0.17 | 10,10,10,10 | 0 |
| 56 | MG | AO | 101 | 1/1 | 0.97 | 0.21 | 33,33,33,33 | 0 |
| 56 | MG | BA | 3539 | 1/1 | 0.97 | 0.17 | 12,12,12,12 | 0 |
| 56 | MG | BA | 3318 | 1/1 | 0.97 | 0.07 | 25,25,25,25 | 0 |
| 56 | MG | CA | 1627 | 1/1 | 0.97 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1747 | 1/1 | 0.97 | 0.09 | 41,41,41,41 | 0 |
| 56 | MG | DA | 3335 | 1/1 | 0.97 | 0.63 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3012 | 1/1 | 0.97 | 0.34 | 75,75,75,75 | 0 |
| 56 | MG | AA | 1613 | 1/1 | 0.97 | 0.24 | 45,45,45,45 | 0 |
| 56 | MG | AR | 101 | 1/1 | 0.97 | 0.07 | 32,32,32,32 | 0 |
| 56 | MG | DA | 3004 | 1/1 | 0.97 | 0.40 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3159 | 1/1 | 0.97 | 0.40 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3342 | 1/1 | 0.97 | 0.14 | 7,7,7,7 | 0 |
| 56 | MG | DA | 3344 | 1/1 | 0.97 | 0.36 | 25,25,25,25 | 0 |
| 56 | MG | DA | 3345 | 1/1 | 0.97 | 0.61 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3161 | 1/1 | 0.97 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1633 | 1/1 | 0.97 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3163 | 1/1 | 0.97 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1634 | 1/1 | 0.97 | 0.08 | 6,6,6,6 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | DA | 3351 | 1/1 | 0.97 | 0.25 | 40,40,40,40 | 0 |
| 56 | MG | CA | 1749 | 1/1 | 0.97 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1849 | 1/1 | 0.97 | 0.13 | 10,10,10,10 | 0 |
| 56 | MG | DA | 3011 | 1/1 | 0.97 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3823 | 1/1 | 0.97 | 0.19 | 14,14,14,14 | 0 |
| 56 | MG | AA | 1604 | 1/1 | 0.97 | 0.21 | 43,43,43,43 | 0 |
| 56 | MG | BA | 3907 | 1/1 | 0.97 | 0.34 | 27,27,27,27 | 0 |
| 56 | MG | AA | 1829 | 1/1 | 0.97 | 0.31 | 43,43,43,43 | 0 |
| 56 | MG | CA | 1756 | 1/1 | 0.97 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3378 | 1/1 | 0.97 | 0.11 | 32,32,32,32 | 0 |
| 56 | MG | BI | 206 | 1/1 | 0.97 | 0.27 | 67,67,67,67 | 0 |
| 56 | MG | DA | 3364 | 1/1 | 0.97 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3177 | 1/1 | 0.97 | 0.41 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3274 | 1/1 | 0.97 | 0.15 | 21,21,21,21 | 0 |
| 56 | MG | CA | 1647 | 1/1 | 0.97 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1761 | 1/1 | 0.97 | 0.10 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3491 | 1/1 | 0.97 | 0.23 | 38,38,38,38 | 0 |
| 56 | MG | BK | 203 | 1/1 | 0.97 | 0.15 | 72,72,72,72 | 0 |
| 56 | MG | CA | 1650 | 1/1 | 0.97 | 0.59 | 73,73,73,73 | 0 |
| 56 | MG | DA | 3030 | 1/1 | 0.97 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3554 | 1/1 | 0.97 | 0.28 | 7,7,7,7 | 0 |
| 56 | MG | DA | 3032 | 1/1 | 0.97 | 0.07 | 6,6,6,6 | 0 |
| 56 | MG | DA | 3188 | 1/1 | 0.97 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3379 | 1/1 | 0.97 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3155 | 1/1 | 0.97 | 0.44 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1830 | 1/1 | 0.97 | 0.11 | 55,55,55,55 | 0 |
| 56 | MG | AA | 1737 | 1/1 | 0.97 | 0.26 | 36,36,36,36 | 0 |
| 56 | MG | AA | 1993 | 1/1 | 0.97 | 0.22 | 46,46,46,46 | 0 |
| 56 | MG | AA | 1718 | 1/1 | 0.97 | 0.17 | 79,79,79,79 | 0 |
| 56 | MG | AA | 1796 | 1/1 | 0.97 | 0.16 | 60,60,60,60 | 0 |
| 56 | MG | CA | 1658 | 1/1 | 0.97 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1765 | 1/1 | 0.97 | 0.30 | 11,11,11,11 | 0 |
| 56 | MG | BA | 3282 | 1/1 | 0.97 | 0.12 | 34,34,34,34 | 0 |
| 56 | MG | CA | 1662 | 1/1 | 0.97 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1776 | 1/1 | 0.97 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3201 | 1/1 | 0.97 | 0.15 | 6,6,6,6 | 0 |
| 56 | MG | CA | 1663 | 1/1 | 0.97 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1665 | 1/1 | 0.97 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3054 | 1/1 | 0.97 | 0.28 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3764 | 1/1 | 0.97 | 0.15 | 45,45,45,45 | 0 |
| 56 | MG | CA | 1784 | 1/1 | 0.97 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3284 | 1/1 | 0.97 | 0.17 | 15,15,15,15 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1900 | 1/1 | 0.97 | 0.47 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3767 | 1/1 | 0.97 | 0.16 | 31,31,31,31 | 0 |
| 56 | MG | DA | 3212 | 1/1 | 0.97 | 0.12 | 5,5,5,5 | 0 |
| 56 | MG | DA | 3213 | 1/1 | 0.97 | 0.12 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3214 | 1/1 | 0.97 | 0.30 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3286 | 1/1 | 0.97 | 0.24 | 17,17,17,17 | 0 |
| 56 | MG | CA | 1672 | 1/1 | 0.97 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3504 | 1/1 | 0.97 | 0.09 | 34,34,34,34 | 0 |
| 56 | MG | DA | 3410 | 1/1 | 0.97 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3632 | 1/1 | 0.97 | 0.23 | 51,51,51,51 | 0 |
| 56 | MG | DA | 3059 | 1/1 | 0.97 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3633 | 1/1 | 0.97 | 0.23 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3415 | 1/1 | 0.97 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3242 | 1/1 | 0.97 | 0.19 | 23,23,23,23 | 0 |
| 56 | MG | BA | 3635 | 1/1 | 0.97 | 0.13 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3223 | 1/1 | 0.97 | 0.28 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3063 | 1/1 | 0.97 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3422 | 1/1 | 0.97 | 0.23 | 2,2,2,2 | 0 |
| 56 | MG | BA | 3243 | 1/1 | 0.97 | 0.11 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3289 | 1/1 | 0.97 | 0.17 | 31,31,31,31 | 0 |
| 56 | MG | CA | 1798 | 1/1 | 0.97 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3853 | 1/1 | 0.97 | 0.29 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3854 | 1/1 | 0.97 | 0.45 | 60,60,60,60 | 0 |
| 56 | MG | AA | 1780 | 1/1 | 0.97 | 0.18 | 24,24,24,24 | 0 |
| 56 | MG | AA | 1621 | 1/1 | 0.97 | 0.14 | 25,25,25,25 | 0 |
| 56 | MG | DA | 3431 | 1/1 | 0.97 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3233 | 1/1 | 0.97 | 0.12 | 43,43,43,43 | 0 |
| 56 | MG | AA | 1740 | 1/1 | 0.97 | 0.24 | 30,30,30,30 | 0 |
| 56 | MG | CA | 1805 | 1/1 | 0.97 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3075 | 1/1 | 0.97 | 0.12 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1807 | 1/1 | 0.97 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3438 | 1/1 | 0.97 | 0.21 | 6,6,6,6 | 0 |
| 56 | MG | BA | 3293 | 1/1 | 0.97 | 0.16 | 7,7,7,7 | 0 |
| 56 | MG | DA | 3441 | 1/1 | 0.97 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3167 | 1/1 | 0.97 | 0.36 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3130 | 1/1 | 0.97 | 0.17 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3782 | 1/1 | 0.97 | 0.15 | 21,21,21,21 | 0 |
| 56 | MG | DA | 3446 | 1/1 | 0.97 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3081 | 1/1 | 0.97 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3243 | 1/1 | 0.97 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3457 | 1/1 | 0.97 | 0.25 | 11,11,11,11 | 0 |
| 56 | MG | AA | 2001 | 1/1 | 0.97 | 0.13 | 29,29,29,29 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | AA | 1644 | 1/1 | 0.97 | 0.16 | 54,54,54,54 | 0 |
| 56 | MG | DA | 3085 | 1/1 | 0.97 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3865 | 1/1 | 0.97 | 0.50 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3249 | 1/1 | 0.97 | 0.11 | 6,6,6,6 | 0 |
| 56 | MG | CA | 1693 | 1/1 | 0.97 | 0.18 | 58,58,58,58 | 0 |
| 56 | MG | DA | 3460 | 1/1 | 0.97 | 0.07 | 6,6,6,6 | 0 |
| 56 | MG | AA | 1841 | 1/1 | 0.97 | 0.23 | 8,8,8,8 | 0 |
| 56 | MG | BA | 3098 | 1/1 | 0.97 | 0.09 | 27,27,27,27 | 0 |
| 56 | MG | DA | 3090 | 1/1 | 0.97 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3099 | 1/1 | 0.97 | 0.21 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3257 | 1/1 | 0.97 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | B1 | 102 | 1/1 | 0.97 | 0.08 | 9,9,9,9 | 0 |
| 56 | MG | B1 | 103 | 1/1 | 0.97 | 0.09 | 37,37,37,37 | 0 |
| 56 | MG | CA | 1699 | 1/1 | 0.97 | 0.15 | 8,8,8,8 | 0 |
| 56 | MG | CA | 1700 | 1/1 | 0.97 | 0.09 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3097 | 1/1 | 0.97 | 0.16 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3267 | 1/1 | 0.97 | 0.16 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3789 | 1/1 | 0.97 | 0.09 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3269 | 1/1 | 0.97 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3302 | 1/1 | 0.97 | 0.30 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3480 | 1/1 | 0.97 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3276 | 1/1 | 0.97 | 0.26 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1862 | 1/1 | 0.97 | 0.12 | 41,41,41,41 | 0 |
| 56 | MG | DA | 3483 | 1/1 | 0.97 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3522 | 1/1 | 0.97 | 0.04 | 36,36,36,36 | 0 |
| 56 | MG | BA | 3305 | 1/1 | 0.97 | 0.09 | 18,18,18,18 | 0 |
| 56 | MG | DA | 3487 | 1/1 | 0.97 | 0.32 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1629 | 1/1 | 0.97 | 0.13 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3468 | 1/1 | 0.97 | 0.41 | 22,22,22,22 | 0 |
| 56 | MG | BA | 3796 | 1/1 | 0.97 | 0.14 | 30,30,30,30 | 0 |
| 56 | MG | DA | 3284 | 1/1 | 0.97 | 0.07 | 8,8,8,8 | 0 |
| 56 | MG | DB | 204 | 1/1 | 0.97 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1710 | 1/1 | 0.97 | 0.33 | 46,46,46,46 | 0 |
| 56 | MG | B4 | 102 | 1/1 | 0.97 | 0.17 | 31,31,31,31 | 0 |
| 56 | MG | AA | 1615 | 1/1 | 0.97 | 0.07 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3217 | 1/1 | 0.97 | 0.17 | 12,12,12,12 | 0 |
| 56 | MG | CZ | 114 | 1/1 | 0.97 | 0.24 | 36,36,36,36 | 0 |
| 56 | MG | DA | 3111 | 1/1 | 0.97 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DB | 212 | 1/1 | 0.97 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3112 | 1/1 | 0.97 | 0.10 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3799 | 1/1 | 0.97 | 0.12 | 29,29,29,29 | 0 |
| 56 | MG | AA | 1909 | 1/1 | 0.97 | 0.12 | 55,55,55,55 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56 | MG | AA | 1701 | 1/1 | 0.97 | 0.12 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3116 | 1/1 | 0.97 | 0.08 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1717 | 1/1 | 0.97 | 0.16 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3067 | 1/1 | 0.97 | 0.07 | 48,48,48,48 | 0 |
| 56 | MG | BA | 3803 | 1/1 | 0.97 | 0.14 | 32,32,32,32 | 0 |
| 56 | MG | BA | 3531 | 1/1 | 0.97 | 0.14 | 12,12,12,12 | 0 |
| 56 | MG | BA | 3006 | 1/1 | 0.97 | 0.18 | 11,11,11,11 | 0 |
| 56 | MG | DA | 3301 | 1/1 | 0.97 | 0.21 | 42,42,42,42 | 0 |
| 56 | MG | DG | 201 | 1/1 | 0.97 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3313 | 1/1 | 0.97 | 0.07 | 33,33,33,33 | 0 |
| 56 | MG | CA | 1603 | 1/1 | 0.97 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1604 | 1/1 | 0.97 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1607 | 1/1 | 0.97 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1609 | 1/1 | 0.97 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3309 | 1/1 | 0.97 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3735 | 1/1 | 0.97 | 0.12 | 29,29,29,29 | 0 |
| 56 | MG | BA | 3667 | 1/1 | 0.97 | 0.32 | 48,48,48,48 | 0 |
| 56 | MG | CB | 302 | 1/1 | 0.97 | 0.14 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3133 | 1/1 | 0.97 | 0.10 | 19,19,19,19 | 0 |
| 56 | MG | BA | 3809 | 1/1 | 0.97 | 0.12 | 13,13,13,13 | 0 |
| 56 | MG | DA | 3137 | 1/1 | 0.97 | 0.65 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3316 | 1/1 | 0.97 | 0.13 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1730 | 1/1 | 0.97 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3476 | 1/1 | 0.97 | 0.07 | 18,18,18,18 | 0 |
| 57 | ZN | AN | 101 | 1/1 | 0.97 | 0.12 | 82,82,82,82 | 0 |
| 56 | MG | CF | 204 | 1/1 | 0.97 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3412 | 1/1 | 0.98 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3134 | 1/1 | 0.98 | 0.42 | 21,21,21,21 | 0 |
| 56 | MG | BA | 3729 | 1/1 | 0.98 | 0.28 | 38,38,38,38 | 0 |
| 56 | MG | DA | 3136 | 1/1 | 0.98 | 0.18 | 8,8,8,8 | 0 |
| 56 | MG | DA | 3416 | 1/1 | 0.98 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3064 | 1/1 | 0.98 | 0.32 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3418 | 1/1 | 0.98 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | AY | 105 | 1/1 | 0.98 | 0.08 | 39,39,39,39 | 0 |
| 56 | MG | AA | 1806 | 1/1 | 0.98 | 0.31 | 27,27,27,27 | 0 |
| 56 | MG | DA | 3140 | 1/1 | 0.98 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1877 | 1/1 | 0.98 | 0.19 | 24,24,24,24 | 0 |
| 56 | MG | CS | 101 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | CT | 201 | 1/1 | 0.98 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3303 | 1/1 | 0.98 | 0.26 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3321 | 1/1 | 0.98 | 0.31 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3227 | 1/1 | 0.98 | 0.30 | 3,3,3,3 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | BA | 3616 | 1/1 | 0.98 | 0.08 | 12,12,12,12 | 0 |
| 56 | MG | AA | 1625 | 1/1 | 0.98 | 0.21 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3430 | 1/1 | 0.98 | 0.14 | 6,6,6,6 | 0 |
| 56 | MG | BA | 3654 | 1/1 | 0.98 | 0.20 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3005 | 1/1 | 0.98 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3433 | 1/1 | 0.98 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3582 | 1/1 | 0.98 | 0.07 | 55,55,55,55 | 0 |
| 56 | MG | DA | 3151 | 1/1 | 0.98 | 0.19 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1626 | 1/1 | 0.98 | 0.27 | 20,20,20,20 | 0 |
| 56 | MG | BA | 3551 | 1/1 | 0.98 | 0.17 | 19,19,19,19 | 0 |
| 56 | MG | DA | 3009 | 1/1 | 0.98 | 0.26 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3439 | 1/1 | 0.98 | 0.26 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3552 | 1/1 | 0.98 | 0.07 | 15,15,15,15 | 0 |
| 56 | MG | BA | 3553 | 1/1 | 0.98 | 0.14 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3442 | 1/1 | 0.98 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3660 | 1/1 | 0.98 | 0.26 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3014 | 1/1 | 0.98 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1781 | 1/1 | 0.98 | 0.20 | 28,28,28,28 | 0 |
| 56 | MG | DA | 3160 | 1/1 | 0.98 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3142 | 1/1 | 0.98 | 0.15 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3074 | 1/1 | 0.98 | 0.09 | 26,26,26,26 | 0 |
| 56 | MG | DA | 3018 | 1/1 | 0.98 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3451 | 1/1 | 0.98 | 0.48 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3341 | 1/1 | 0.98 | 0.36 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3358 | 1/1 | 0.98 | 0.18 | 17,17,17,17 | 0 |
| 56 | MG | CA | 1664 | 1/1 | 0.98 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1608 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3075 | 1/1 | 0.98 | 0.42 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3092 | 1/1 | 0.98 | 0.30 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3458 | 1/1 | 0.98 | 0.17 | 6,6,6,6 | 0 |
| 56 | MG | DA | 3459 | 1/1 | 0.98 | 0.41 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1627 | 1/1 | 0.98 | 0.12 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3349 | 1/1 | 0.98 | 0.14 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3462 | 1/1 | 0.98 | 0.24 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3463 | 1/1 | 0.98 | 0.12 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3464 | 1/1 | 0.98 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3025 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | AA | 2018 | 1/1 | 0.98 | 0.23 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3352 | 1/1 | 0.98 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1612 | 1/1 | 0.98 | 0.13 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3255 | 1/1 | 0.98 | 0.23 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3173 | 1/1 | 0.98 | 0.21 | 3,3,3,3 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3174 | 1/1 | 0.98 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3472 | 1/1 | 0.98 | 0.28 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3357 | 1/1 | 0.98 | 0.23 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3594 | 1/1 | 0.98 | 0.20 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3261 | 1/1 | 0.98 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1614 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1777 | 1/1 | 0.98 | 0.23 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3478 | 1/1 | 0.98 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1778 | 1/1 | 0.98 | 0.14 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3265 | 1/1 | 0.98 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3266 | 1/1 | 0.98 | 0.34 | 24,24,24,24 | 0 |
| 56 | MG | DA | 3365 | 1/1 | 0.98 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3413 | 1/1 | 0.98 | 0.08 | 43,43,43,43 | 0 |
| 56 | MG | DA | 3484 | 1/1 | 0.98 | 0.39 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3034 | 1/1 | 0.98 | 0.11 | 6,6,6,6 | 0 |
| 56 | MG | DA | 3270 | 1/1 | 0.98 | 0.22 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3272 | 1/1 | 0.98 | 0.28 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3273 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3489 | 1/1 | 0.98 | 0.20 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3490 | 1/1 | 0.98 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3491 | 1/1 | 0.98 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3671 | 1/1 | 0.98 | 0.11 | 57,57,57,57 | 0 |
| 56 | MG | DA | 3372 | 1/1 | 0.98 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3882 | 1/1 | 0.98 | 0.25 | 42,42,42,42 | 0 |
| 56 | MG | DA | 3277 | 1/1 | 0.98 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3414 | 1/1 | 0.98 | 0.11 | 23,23,23,23 | 0 |
| 56 | MG | AA | 1835 | 1/1 | 0.98 | 0.20 | 37,37,37,37 | 0 |
| 56 | MG | AA | 1811 | 1/1 | 0.98 | 0.21 | 37,37,37,37 | 0 |
| 56 | MG | DA | 3378 | 1/1 | 0.98 | 0.27 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3417 | 1/1 | 0.98 | 0.16 | 8,8,8,8 | 0 |
| 56 | MG | BA | 3185 | 1/1 | 0.98 | 0.14 | 8,8,8,8 | 0 |
| 56 | MG | BA | 3206 | 1/1 | 0.98 | 0.12 | 35,35,35,35 | 0 |
| 56 | MG | DA | 3043 | 1/1 | 0.98 | 0.20 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1746 | 1/1 | 0.98 | 0.17 | 39,39,39,39 | 0 |
| 56 | MG | BA | 3890 | 1/1 | 0.98 | 0.21 | 25,25,25,25 | 0 |
| 56 | MG | BA | 3294 | 1/1 | 0.98 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3450 | 1/1 | 0.98 | 0.14 | 24,24,24,24 | 0 |
| 56 | MG | BA | 3721 | 1/1 | 0.98 | 0.27 | 34,34,34,34 | 0 |
| 56 | MG | AA | 1805 | 1/1 | 0.98 | 0.05 | 22,22,22,22 | 0 |
| 56 | MG | CC | 301 | 1/1 | 0.98 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3120 | 1/1 | 0.98 | 0.39 | 28,28,28,28 | 0 |
| 56 | MG | BA | 3682 | 1/1 | 0.98 | 0.14 | 20,20,20,20 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | DA | 3122 | 1/1 | 0.98 | 0.24 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3393 | 1/1 | 0.98 | 0.06 | 47,47,47,47 | 0 |
| 56 | MG | DA | 3123 | 1/1 | 0.98 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3851 | 1/1 | 0.98 | 0.21 | 17,17,17,17 | 0 |
| 56 | MG | DA | 3205 | 1/1 | 0.98 | 0.22 | 38,38,38,38 | 0 |
| 56 | MG | CA | 1636 | 1/1 | 0.98 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1926 | 1/1 | 0.98 | 0.07 | 30,30,30,30 | 0 |
| 56 | MG | DA | 3399 | 1/1 | 0.98 | 0.35 | 58,58,58,58 | 0 |
| 56 | MG | AA | 1927 | 1/1 | 0.98 | 0.16 | 29,29,29,29 | 0 |
| 56 | MG | DA | 3209 | 1/1 | 0.98 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | DT | 201 | 1/1 | 0.98 | 0.37 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3302 | 1/1 | 0.98 | 0.11 | 44,44,44,44 | 0 |
| 56 | MG | DA | 3303 | 1/1 | 0.98 | 0.06 | 10,10,10,10 | 0 |
| 56 | MG | DA | 3404 | 1/1 | 0.98 | 0.15 | 5,5,5,5 | 0 |
| 56 | MG | BA | 3645 | 1/1 | 0.98 | 0.15 | 30,30,30,30 | 0 |
| 56 | MG | BA | 3118 | 1/1 | 0.98 | 0.08 | 23,23,23,23 | 0 |
| 56 | MG | CA | 1747 | 1/1 | 0.98 | 0.45 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1806 | 1/1 | 0.98 | 0.34 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1642 | 1/1 | 0.98 | 0.43 | 3,3,3,3 | 0 |
| 57 | ZN | CD | 5001 | 1/1 | 0.98 | 0.24 | 63,63,63,63 | 0 |
| 56 | MG | BA | 3191 | 1/1 | 0.98 | 0.12 | 26,26,26,26 | 0 |
| 56 | MG | BA | 3451 | 1/1 | 0.99 | 0.14 | 13,13,13,13 | 0 |
| 56 | MG | DA | 3343 | 1/1 | 0.99 | 0.35 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3271 | 1/1 | 0.99 | 0.21 | 3,3,3,3 | 0 |
| 56 | MG | DB | 207 | 1/1 | 0.99 | 0.18 | 4,4,4,4 | 0 |
| 56 | MG | CA | 1782 | 1/1 | 0.99 | 0.17 | 3,3,3,3 | 0 |
| 56 | MG | AA | 1840 | 1/1 | 0.99 | 0.24 | 26,26,26,26 | 0 |
| 56 | MG | CA | 1701 | 1/1 | 0.99 | 0.14 | 13,13,13,13 | 0 |
| 56 | MG | DA | 3275 | 1/1 | 0.99 | 0.29 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3611 | 1/1 | 0.99 | 0.24 | 8,8,8,8 | 0 |
| 56 | MG | DA | 3179 | 1/1 | 0.99 | 0.47 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3467 | 1/1 | 0.99 | 0.39 | 21,21,21,21 | 0 |
| 56 | MG | DA | 3013 | 1/1 | 0.99 | 0.30 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1646 | 1/1 | 0.99 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1629 | 1/1 | 0.99 | 0.21 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1784 | 1/1 | 0.99 | 0.28 | 25,25,25,25 | 0 |
| 56 | MG | DA | 3070 | 1/1 | 0.99 | 0.27 | 4,4,4,4 | 0 |
| 56 | MG | AA | 1731 | 1/1 | 0.99 | 0.08 | 17,17,17,17 | 0 |
| 56 | MG | B1 | 101 | 1/1 | 0.99 | 0.26 | 31,31,31,31 | 0 |
| 56 | MG | BA | 3081 | 1/1 | 0.99 | 0.19 | 31,31,31,31 | 0 |
| 56 | MG | DA | 3020 | 1/1 | 0.99 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1793 | 1/1 | 0.99 | 0.42 | 3,3,3,3 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56 | MG | CA | 1605 | 1/1 | 0.99 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1606 | 1/1 | 0.99 | 0.33 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1752 | 1/1 | 0.99 | 0.38 | 3,3,3,3 | 0 |
| 56 | MG | DO | 201 | 1/1 | 0.99 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3256 | 1/1 | 0.99 | 0.10 | 6,6,6,6 | 0 |
| 56 | MG | CA | 1620 | 1/1 | 0.99 | 0.17 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3258 | 1/1 | 0.99 | 0.11 | 6,6,6,6 | 0 |
| 56 | MG | CA | 1637 | 1/1 | 0.99 | 0.15 | 4,4,4,4 | 0 |
| 56 | MG | BA | 3086 | 1/1 | 0.99 | 0.15 | 23,23,23,23 | 0 |
| 56 | MG | DA | 3407 | 1/1 | 0.99 | 0.31 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3197 | 1/1 | 0.99 | 0.18 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1622 | 1/1 | 0.99 | 0.22 | 3,3,3,3 | 0 |
| 56 | MG | BA | 3342 | 1/1 | 0.99 | 0.16 | 20,20,20,20 | 0 |
| 56 | MG | BA | 3834 | 1/1 | 0.99 | 0.34 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3450 | 1/1 | 0.99 | 0.27 | 12,12,12,12 | 0 |
| 56 | MG | DA | 3141 | 1/1 | 0.99 | 0.15 | 4,4,4,4 | 0 |
| 56 | MG | DA | 3266 | 1/1 | 0.99 | 0.25 | 3,3,3,3 | 0 |
| 56 | MG | DA | 3057 | 1/1 | 0.99 | 0.29 | 3,3,3,3 | 0 |
| 56 | MG | CA | 1660 | 1/1 | 0.99 | 0.13 | 5,5,5,5 | 0 |
| 56 | MG | CA | 1804 | 1/1 | 0.99 | 0.25 | 4,4,4,4 | 0 |

6.5 Other polymers [i](#)

There are no such residues in this entry.