



wwPDB X-ray Structure Validation Summary Report

Jul 21, 2014 – 02:47 PM EDT

PDB ID : 4V9Q
Title : Crystal Structure of Blasticidin S Bound to Thermus Thermophilus 70S Ribosome.
Authors : Svidritskiy, E.; Ling, C.; Ermolenko, D.N.; Korostelev, A.A.
Deposited on : 2013-06-12
Resolution : 3.40 Å(reported)

This is a wwPDB validation summary report for a publicly released PDB entry.

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

A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

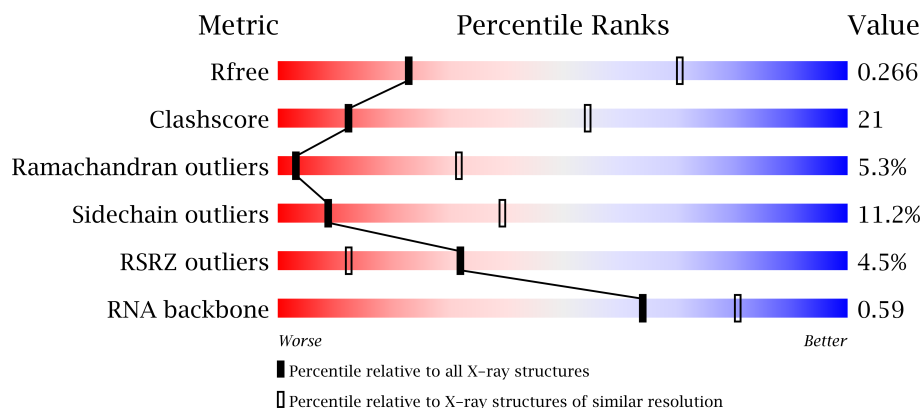
The following versions of software and data (see [references](#)) were used in the production of this report:

| | | |
|--------------------------------|---|--------------------------|
| MolProbity | : | 4.02b-467 |
| Mogul | : | 1.16 November 2013 |
| Xtriage (Phenix) | : | dev-1439 |
| EDS | : | stable23489 |
| Percentile statistics | : | 21963 |
| Refmac | : | 5.8.0049 |
| CCP4 | : | 6.3.0 (Settle) |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et. al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | stable23489 |

1 Overall quality at a glance

The reported resolution of this entry is 3.40 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



| Metric | Whole archive (#Entries) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| R_{free} | 66092 | 1017 (3.52-3.28) |
| Clashscore | 79885 | 1214 (3.50-3.30) |
| Ramachandran outliers | 78287 | 1177 (3.50-3.30) |
| Sidechain outliers | 78261 | 1177 (3.50-3.30) |
| RSRZ outliers | 66119 | 1017 (3.52-3.28) |
| RNA backbone | 1838 | 1002 (4.02-2.76) |

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | AA | 2879 | |
| 1 | CA | 2879 | |
| 2 | AB | 119 | |
| 2 | CB | 119 | |
| 3 | AD | 271 | |
| 3 | CD | 271 | |
| 4 | AE | 204 | |
| 4 | CE | 204 | |
| 5 | AF | 202 | |
| 5 | CF | 202 | |
| 6 | AG | 181 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 6 | CG | 181 | |
| 7 | AH | 159 | |
| 7 | CH | 159 | |
| 8 | AI | 145 | |
| 8 | CI | 145 | |
| 9 | AJ | 137 | |
| 9 | CJ | 137 | |
| 10 | AK | 122 | |
| 10 | CK | 122 | |
| 11 | AL | 146 | |
| 11 | CL | 146 | |
| 12 | AM | 134 | |
| 12 | CM | 134 | |
| 13 | AN | 117 | |
| 13 | CN | 117 | |
| 14 | AO | 98 | |
| 14 | CO | 98 | |
| 15 | AP | 137 | |
| 15 | CP | 137 | |
| 16 | AQ | 117 | |
| 16 | CQ | 117 | |
| 17 | AR | 101 | |
| 17 | CR | 101 | |
| 18 | AS | 112 | |
| 18 | CS | 112 | |
| 19 | AT | 92 | |
| 19 | CT | 92 | |
| 20 | AU | 100 | |
| 20 | CU | 100 | |
| 21 | AV | 187 | |
| 21 | CV | 187 | |
| 22 | AW | 76 | |
| 22 | CW | 76 | |
| 23 | AX | 88 | |
| 23 | CX | 88 | |
| 24 | AY | 62 | |
| 24 | CY | 62 | |
| 25 | AZ | 59 | |
| 25 | CZ | 59 | |
| 26 | A1 | 30 | |
| 26 | C1 | 30 | |
| 27 | A2 | 52 | |

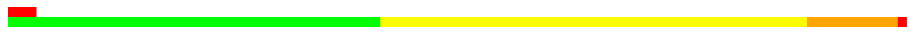


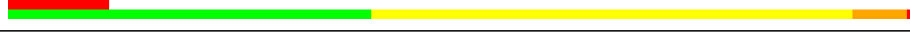
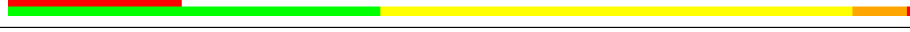
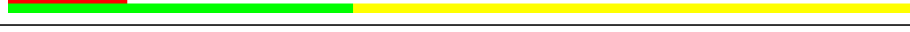



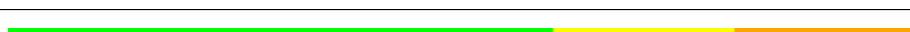

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 27 | C2 | 52 | |
| 28 | A3 | 44 | |
| 28 | C3 | 44 | |
| 29 | A4 | 48 | |
| 29 | C4 | 48 | |
| 30 | A5 | 63 | |
| 30 | C5 | 63 | |
| 31 | BA | 1504 | |
| 31 | DA | 1504 | |
| 32 | BB | 234 | |
| 32 | DB | 234 | |
| 33 | BC | 206 | |
| 33 | DC | 206 | |
| 34 | BD | 208 | |
| 34 | DD | 208 | |
| 35 | BE | 151 | |
| 35 | DE | 151 | |
| 36 | BF | 101 | |
| 36 | DF | 101 | |
| 37 | BG | 155 | |
| 37 | DG | 155 | |
| 38 | BH | 138 | |
| 38 | DH | 138 | |
| 39 | BI | 127 | |
| 39 | DI | 127 | |
| 40 | BJ | 98 | |
| 40 | DJ | 98 | |
| 41 | BK | 114 | |
| 41 | DK | 114 | |
| 42 | BL | 122 | |
| 42 | DL | 122 | |
| 43 | BM | 117 | |
| 43 | DM | 117 | |
| 44 | BN | 60 | |
| 44 | DN | 60 | |
| 45 | BO | 88 | |
| 45 | DO | 88 | |
| 46 | BP | 83 | |
| 46 | DP | 83 | |
| 47 | BQ | 99 | |
| 47 | DQ | 99 | |
| 48 | BR | 70 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 48 | DR | 70 |  |
| 49 | BS | 78 |  |
| 49 | DS | 78 |  |
| 50 | BT | 99 |  |
| 50 | DT | 99 |  |
| 51 | BU | 24 |  |
| 51 | DU | 24 |  |
| 52 | BV | 77 |  |
| 52 | BW | 77 |  |
| 52 | DV | 77 |  |
| 52 | DW | 77 |  |
| 53 | BX | 5 |  |
| 53 | DX | 5 |  |

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 293113 atoms, of which 0 are hydrogen and 0 are deuterium.

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

- Molecule 1 is a RNA chain called 23S ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 1 | AA | 2832 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 60991 | 27143 | 11396 | 19620 | 2832 | | | |
| 1 | CA | 2832 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 60991 | 27143 | 11396 | 19620 | 2832 | | | |

There are 8 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------|---------------|
| AA | 276 | C | A | CONFLICT | GB AE017221.1 |
| AA | 277 | A | C | CONFLICT | GB AE017221.1 |
| AA | 1142 | U | C | CONFLICT | GB AE017221.1 |
| AA | 2825 | U | G | CONFLICT | GB AE017221.1 |
| CA | 276 | C | A | CONFLICT | GB AE017221.1 |
| CA | 277 | A | C | CONFLICT | GB AE017221.1 |
| CA | 1142 | U | C | CONFLICT | GB AE017221.1 |
| CA | 2825 | U | G | CONFLICT | GB AE017221.1 |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
| 2 | AB | 119 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 2555 | 1136 | 471 | 829 | 119 | | | |
| 2 | CB | 119 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 2555 | 1136 | 471 | 829 | 119 | | | |

- Molecule 3 is a protein called 50S ribosomal protein L2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 3 | AD | 271 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2105 | 1329 | 416 | 357 | 3 | | | |
| 3 | CD | 271 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 2105 | 1329 | 416 | 357 | 3 | | | |

- Molecule 4 is a protein called 50S ribosomal protein L3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 4 | AE | 204 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1564 | 988 | 299 | 271 | 6 | | | |
| 4 | CE | 204 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1564 | 988 | 299 | 271 | 6 | | | |

- Molecule 5 is a protein called 50S ribosomal protein L4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 5 | AF | 202 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1587 | 1011 | 297 | 276 | 3 | | | |
| 5 | CF | 202 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1587 | 1011 | 297 | 276 | 3 | | | |

- Molecule 6 is a protein called 50S ribosomal protein L5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | AG | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1475 | 943 | 268 | 260 | 4 | | | |
| 6 | CG | 181 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1475 | 943 | 268 | 260 | 4 | | | |

- Molecule 7 is a protein called 50S ribosomal protein L6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7 | AH | 159 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1223 | 773 | 228 | 221 | 1 | | | |
| 7 | CH | 159 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1223 | 773 | 228 | 221 | 1 | | | |

- Molecule 8 is a protein called 50S ribosomal protein L9.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8 | AI | 145 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1133 | 724 | 200 | 208 | 1 | | | |
| 8 | CI | 145 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1133 | 724 | 200 | 208 | 1 | | | |

- Molecule 9 is a protein called 50S ribosomal protein L13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 9 | AJ | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1097 | 707 | 205 | 182 | 3 | | | |
| 9 | CJ | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1097 | 707 | 205 | 182 | 3 | | | |

- Molecule 10 is a protein called 50S ribosomal protein L14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10 | AK | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 587 | 171 | 170 | 4 | | | |
| 10 | CK | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 932 | 587 | 171 | 170 | 4 | | | |

- Molecule 11 is a protein called 50S ribosomal protein L15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 11 | AL | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1114 | 692 | 227 | 193 | 2 | | | |
| 11 | CL | 146 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1114 | 692 | 227 | 193 | 2 | | | |

- Molecule 12 is a protein called 50S ribosomal protein L16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12 | AM | 134 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1065 | 680 | 201 | 179 | 5 | | | |
| 12 | CM | 134 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1065 | 680 | 201 | 179 | 5 | | | |

- Molecule 13 is a protein called 50S ribosomal protein L17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|--|---------|---------|-------|
| 13 | AN | 117 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 960 | 599 | 202 | 159 | | | | |
| 13 | CN | 117 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 960 | 599 | 202 | 159 | | | | |

- Molecule 14 is a protein called 50S ribosomal protein L18.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|--|---------|---------|-------|
| 14 | AO | 98 | Total | C | N | O | | 0 | 0 | 0 |
| | | | 771 | 486 | 154 | 131 | | | | |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 14 | CO | 98 | Total | C | N | O | 0 | 0 | 0 |
| | | | 771 | 486 | 154 | 131 | | | |

- Molecule 15 is a protein called 50S ribosomal protein L19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 15 | AP | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1144 | 713 | 234 | 196 | 1 | | | |
| 15 | CP | 137 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1144 | 713 | 234 | 196 | 1 | | | |

- Molecule 16 is a protein called 50S ribosomal protein L20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 16 | AQ | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 964 | 610 | 202 | 151 | 1 | | | |
| 16 | CQ | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 964 | 610 | 202 | 151 | 1 | | | |

- Molecule 17 is a protein called 50S ribosomal protein L21.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 17 | AR | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 779 | 501 | 142 | 135 | 1 | | | |
| 17 | CR | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 779 | 501 | 142 | 135 | 1 | | | |

- Molecule 18 is a protein called 50S ribosomal protein L22.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 18 | AS | 112 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 891 | 560 | 175 | 154 | 2 | | | |
| 18 | CS | 112 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 891 | 560 | 175 | 154 | 2 | | | |

- Molecule 19 is a protein called 50S ribosomal protein L23.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 19 | AT | 92 | Total | C | N | O | 0 | 0 | 0 |
| | | | 726 | 471 | 131 | 124 | | | |
| 19 | CT | 92 | Total | C | N | O | 0 | 0 | 0 |
| | | | 726 | 471 | 131 | 124 | | | |

- Molecule 20 is a protein called 50S ribosomal protein L24.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 20 | AU | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 776 | 500 | 148 | 124 | 4 | | | |
| 20 | CU | 100 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 776 | 500 | 148 | 124 | 4 | | | |

- Molecule 21 is a protein called 50S ribosomal protein L25.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 21 | AV | 187 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1483 | 945 | 264 | 272 | 2 | | | |
| 21 | CV | 187 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1483 | 945 | 264 | 272 | 2 | | | |

- Molecule 22 is a protein called 50S ribosomal protein L27.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22 | AW | 76 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 605 | 376 | 126 | 102 | 1 | | | |
| 22 | CW | 76 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 605 | 376 | 126 | 102 | 1 | | | |

- Molecule 23 is a protein called 50S ribosomal protein L28.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 23 | AX | 88 | Total | C | N | O | 0 | 0 | 0 |
| | | | 695 | 435 | 141 | 119 | | | |
| 23 | CX | 88 | Total | C | N | O | 0 | 0 | 0 |
| | | | 695 | 435 | 141 | 119 | | | |

- Molecule 24 is a protein called 50S ribosomal protein L29.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 24 | AY | 62 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 521 | 325 | 102 | 92 | 2 | | | |
| 24 | CY | 62 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 521 | 325 | 102 | 92 | 2 | | | |

- Molecule 25 is a protein called 50S ribosomal protein L30.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 25 | AZ | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 468 | 298 | 90 | 79 | 1 | | | |
| 25 | CZ | 59 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 468 | 298 | 90 | 79 | 1 | | | |

- Molecule 26 is a protein called 50S ribosomal protein L31.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 26 | A1 | 30 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 226 | 142 | 36 | 44 | 4 | | | |
| 26 | C1 | 30 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 226 | 142 | 36 | 44 | 4 | | | |

- Molecule 27 is a protein called 50S ribosomal protein L32.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 27 | A2 | 52 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 405 | 255 | 79 | 66 | 5 | | | |
| 27 | C2 | 52 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 405 | 255 | 79 | 66 | 5 | | | |

- Molecule 28 is a protein called 50S ribosomal protein L33.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 28 | A3 | 44 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 381 | 235 | 77 | 65 | 4 | | | |
| 28 | C3 | 44 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 381 | 235 | 77 | 65 | 4 | | | |

- Molecule 29 is a protein called 50S ribosomal protein L34.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 29 | A4 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 419 | 257 | 104 | 56 | 2 | | | |
| 29 | C4 | 48 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 419 | 257 | 104 | 56 | 2 | | | |

- Molecule 30 is a protein called 50S ribosomal protein L35.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 30 | A5 | 63 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 508 | 326 | 101 | 79 | 2 | | | |

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| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 30 | C5 | 63 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 508 | 326 | 101 | 79 | 2 | | | |

- Molecule 31 is a RNA chain called 16S ribosomal RNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|------|-------|------|---------|---------|-------|
| 31 | BA | 1504 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 32336 | 14391 | 5994 | 10447 | 1504 | | | |
| 31 | DA | 1504 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 32336 | 14391 | 5994 | 10447 | 1504 | | | |

- Molecule 32 is a protein called 30S ribosomal protein S2.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 32 | BB | 234 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1901 | 1213 | 341 | 342 | 5 | | | |
| 32 | DB | 234 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1901 | 1213 | 341 | 342 | 5 | | | |

- Molecule 33 is a protein called 30S ribosomal protein S3.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 33 | BC | 206 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1613 | 1016 | 314 | 282 | 1 | | | |
| 33 | DC | 206 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1613 | 1016 | 314 | 282 | 1 | | | |

- Molecule 34 is a protein called 30S ribosomal protein S4.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 34 | BD | 208 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1703 | 1066 | 339 | 291 | 7 | | | |
| 34 | DD | 208 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1703 | 1066 | 339 | 291 | 7 | | | |

- Molecule 35 is a protein called 30S ribosomal protein S5.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 35 | BE | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1156 | 729 | 218 | 205 | 4 | | | |
| 35 | DE | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1156 | 729 | 218 | 205 | 4 | | | |

- Molecule 36 is a protein called 30S ribosomal protein S6.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36 | BF | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 531 | 155 | 154 | 3 | | | |
| 36 | DF | 101 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 531 | 155 | 154 | 3 | | | |

- Molecule 37 is a protein called 30S ribosomal protein S7.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37 | BG | 155 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1257 | 781 | 252 | 218 | 6 | | | |
| 37 | DG | 155 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1257 | 781 | 252 | 218 | 6 | | | |

- Molecule 38 is a protein called 30S ribosomal protein S8.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 38 | BH | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |
| 38 | DH | 138 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1116 | 705 | 215 | 193 | 3 | | | |

- Molecule 39 is a protein called 30S ribosomal protein S9.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 39 | BI | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1011 | 639 | 198 | 174 | | | |
| 39 | DI | 127 | Total | C | N | O | 0 | 0 | 0 |
| | | | 1011 | 639 | 198 | 174 | | | |

- Molecule 40 is a protein called 30S ribosomal protein S10.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 40 | BJ | 98 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 795 | 499 | 156 | 139 | 1 | | | |
| 40 | DJ | 98 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 795 | 499 | 156 | 139 | 1 | | | |

- Molecule 41 is a protein called 30S ribosomal protein S11.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 41 | BK | 114 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 522 | 159 | 159 | 3 | | | |
| 41 | DK | 114 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 843 | 522 | 159 | 159 | 3 | | | |

- Molecule 42 is a protein called 30S ribosomal protein S12.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 42 | BL | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 957 | 603 | 193 | 160 | 1 | | | |
| 42 | DL | 122 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 957 | 603 | 193 | 160 | 1 | | | |

- Molecule 43 is a protein called 30S ribosomal protein S13.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 43 | BM | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 934 | 577 | 192 | 163 | 2 | | | |
| 43 | DM | 117 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 934 | 577 | 192 | 163 | 2 | | | |

There is a discrepancy between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------------|------------|
| BM | 118 | ALA | - | EXPRESSION TAG | UNP P62655 |

- Molecule 44 is a protein called 30S ribosomal protein S14.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 44 | BN | 60 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 492 | 312 | 104 | 72 | 4 | | | |
| 44 | DN | 60 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 492 | 312 | 104 | 72 | 4 | | | |

- Molecule 45 is a protein called 30S ribosomal protein S15.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 45 | BO | 88 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 734 | 459 | 147 | 126 | 2 | | | |
| 45 | DO | 88 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 734 | 459 | 147 | 126 | 2 | | | |

- Molecule 46 is a protein called 30S ribosomal protein S16.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 46 | BP | 83 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 701 | 443 | 139 | 118 | 1 | | | |
| 46 | DP | 83 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 701 | 443 | 139 | 118 | 1 | | | |

- Molecule 47 is a protein called 30S ribosomal protein S17.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 47 | BQ | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 824 | 528 | 152 | 142 | 2 | | | |
| 47 | DQ | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 824 | 528 | 152 | 142 | 2 | | | |

- Molecule 48 is a protein called 30S ribosomal protein S18.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 48 | BR | 70 | Total | C | N | O | 0 | 0 | 0 |
| | | | 574 | 367 | 112 | 95 | | | |
| 48 | DR | 70 | Total | C | N | O | 0 | 0 | 0 |
| | | | 574 | 367 | 112 | 95 | | | |

- Molecule 49 is a protein called 30S ribosomal protein S19.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 49 | BS | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 630 | 403 | 114 | 111 | 2 | | | |
| 49 | DS | 78 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 630 | 403 | 114 | 111 | 2 | | | |

- Molecule 50 is a protein called 30S ribosomal protein S20.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 50 | BT | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 762 | 469 | 162 | 129 | 2 | | | |
| 50 | DT | 99 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 762 | 469 | 162 | 129 | 2 | | | |

- Molecule 51 is a protein called 30S ribosomal protein Thx.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 51 | BU | 24 | Total | C | N | O | 0 | 0 | 0 |
| | | | 209 | 128 | 50 | 31 | | | |

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| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 51 | DU | 24 | Total | C | N | O | 0 | 0 | 0 |
| | | | 209 | 128 | 50 | 31 | | | |

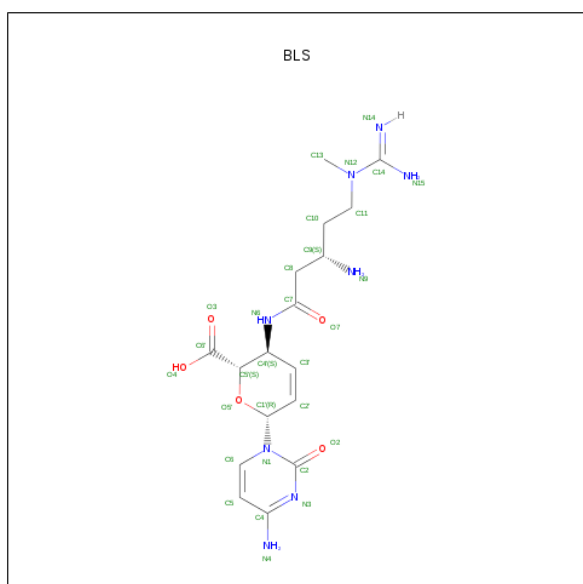
- Molecule 52 is a RNA chain called tRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 52 | BV | 77 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1640 | 732 | 297 | 535 | 76 | | | |
| 52 | BW | 77 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1640 | 732 | 297 | 535 | 76 | | | |
| 52 | DV | 77 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1640 | 732 | 297 | 535 | 76 | | | |
| 52 | DW | 77 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 1640 | 732 | 297 | 535 | 76 | | | |

- Molecule 53 is a RNA chain called mRNA.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|----|----|----|---|---------|---------|-------|
| 53 | BX | 5 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 109 | 49 | 22 | 33 | 5 | | | |
| 53 | DX | 5 | Total | C | N | O | P | 0 | 0 | 0 |
| | | | 109 | 49 | 22 | 33 | 5 | | | |

- Molecule 54 is BLASTICIDIN S (three-letter code: BLS) (formula: C₁₇H₂₆N₈O₅).



| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---|---------|---------|
| 54 | AA | 1 | Total | C | N | O | 0 | 0 |
| | | | 30 | 17 | 8 | 5 | | |
| 54 | CA | 1 | Total | C | N | O | 0 | 0 |
| | | | 30 | 17 | 8 | 5 | | |

- Molecule 55 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|-----|---------|---------|
| 55 | AP | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | DX | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 55 | BA | 570 | Total | Mg | 0 | 0 |
| | | | 570 | 570 | | |
| 55 | AK | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | DQ | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 55 | C5 | 3 | Total | Mg | 0 | 0 |
| | | | 3 | 3 | | |
| 55 | AB | 50 | Total | Mg | 0 | 0 |
| | | | 50 | 50 | | |
| 55 | BL | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | CV | 4 | Total | Mg | 0 | 0 |
| | | | 4 | 4 | | |
| 55 | C3 | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | BE | 5 | Total | Mg | 0 | 0 |
| | | | 5 | 5 | | |
| 55 | CR | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | AN | 4 | Total | Mg | 0 | 0 |
| | | | 4 | 4 | | |
| 55 | BP | 1 | Total | Mg | 0 | 0 |
| | | | 1 | 1 | | |
| 55 | AX | 6 | Total | Mg | 0 | 0 |
| | | | 6 | 6 | | |
| 55 | CN | 3 | Total | Mg | 0 | 0 |
| | | | 3 | 3 | | |
| 55 | DR | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |
| 55 | BI | 2 | Total | Mg | 0 | 0 |
| | | | 2 | 2 | | |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|---------------|------------|---------|---------|
| 55 | AS | 6 | Total 6 | Mg 6 | 0 | 0 |
| 55 | CA | 1504 | Total 1504 | Mg 1504 | 0 | 0 |
| 55 | BB | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | AJ | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | BT | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | C4 | 4 | Total 4 | Mg 4 | 0 | 0 |
| 55 | AE | 4 | Total 4 | Mg 4 | 0 | 0 |
| 55 | DG | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | CF | 7 | Total 7 | Mg 7 | 0 | 0 |
| 55 | DT | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | DL | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | AV | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | CY | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | AA | 1296 | Total 1296 | Mg 1296 | 0 | 0 |
| 55 | BQ | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | CQ | 5 | Total 5 | Mg 5 | 0 | 0 |
| 55 | A5 | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | AR | 5 | Total 5 | Mg 5 | 0 | 0 |
| 55 | DV | 24 | Total 24 | Mg 24 | 0 | 0 |
| 55 | DM | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | BC | 3 | Total 3 | Mg 3 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 55 | AM | 3 | Total 3 | Mg 3 | 0 | 0 |
| 55 | BU | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | DK | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | AD | 4 | Total 4 | Mg 4 | 0 | 0 |
| 55 | DD | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | CT | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | DH | 3 | Total 3 | Mg 3 | 0 | 0 |
| 55 | CG | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | BG | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | DE | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | CJ | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | BR | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | CP | 1 | Total 1 | Mg 1 | 0 | 0 |
| 55 | A4 | 5 | Total 5 | Mg 5 | 0 | 0 |
| 55 | DA | 604 | Total 604 | Mg 604 | 0 | 0 |
| 55 | CE | 6 | Total 6 | Mg 6 | 0 | 0 |
| 55 | DW | 22 | Total 22 | Mg 22 | 0 | 0 |
| 55 | CK | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | AL | 2 | Total 2 | Mg 2 | 0 | 0 |
| 55 | BV | 30 | Total 30 | Mg 30 | 0 | 0 |
| 55 | AG | 2 | Total 2 | Mg 2 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|-------------------|---------|---------|
| 55 | BO | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | CS | 4 | Total Mg 4 4 | 0 | 0 |
| 55 | CX | 3 | Total Mg 3 3 | 0 | 0 |
| 55 | DI | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | CB | 65 | Total Mg 65 65 | 0 | 0 |
| 55 | DJ | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | DO | 2 | Total Mg 2 2 | 0 | 0 |
| 55 | CO | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | CI | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | CW | 4 | Total Mg 4 4 | 0 | 0 |
| 55 | CD | 6 | Total Mg 6 6 | 0 | 0 |
| 55 | CL | 7 | Total Mg 7 7 | 0 | 0 |
| 55 | C2 | 2 | Total Mg 2 2 | 0 | 0 |
| 55 | AO | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | BW | 19 | Total Mg 19 19 | 0 | 0 |
| 55 | AY | 1 | Total Mg 1 1 | 0 | 0 |
| 55 | A3 | 3 | Total Mg 3 3 | 0 | 0 |
| 55 | AF | 6 | Total Mg 6 6 | 0 | 0 |
| 55 | BH | 1 | Total Mg 1 1 | 0 | 0 |

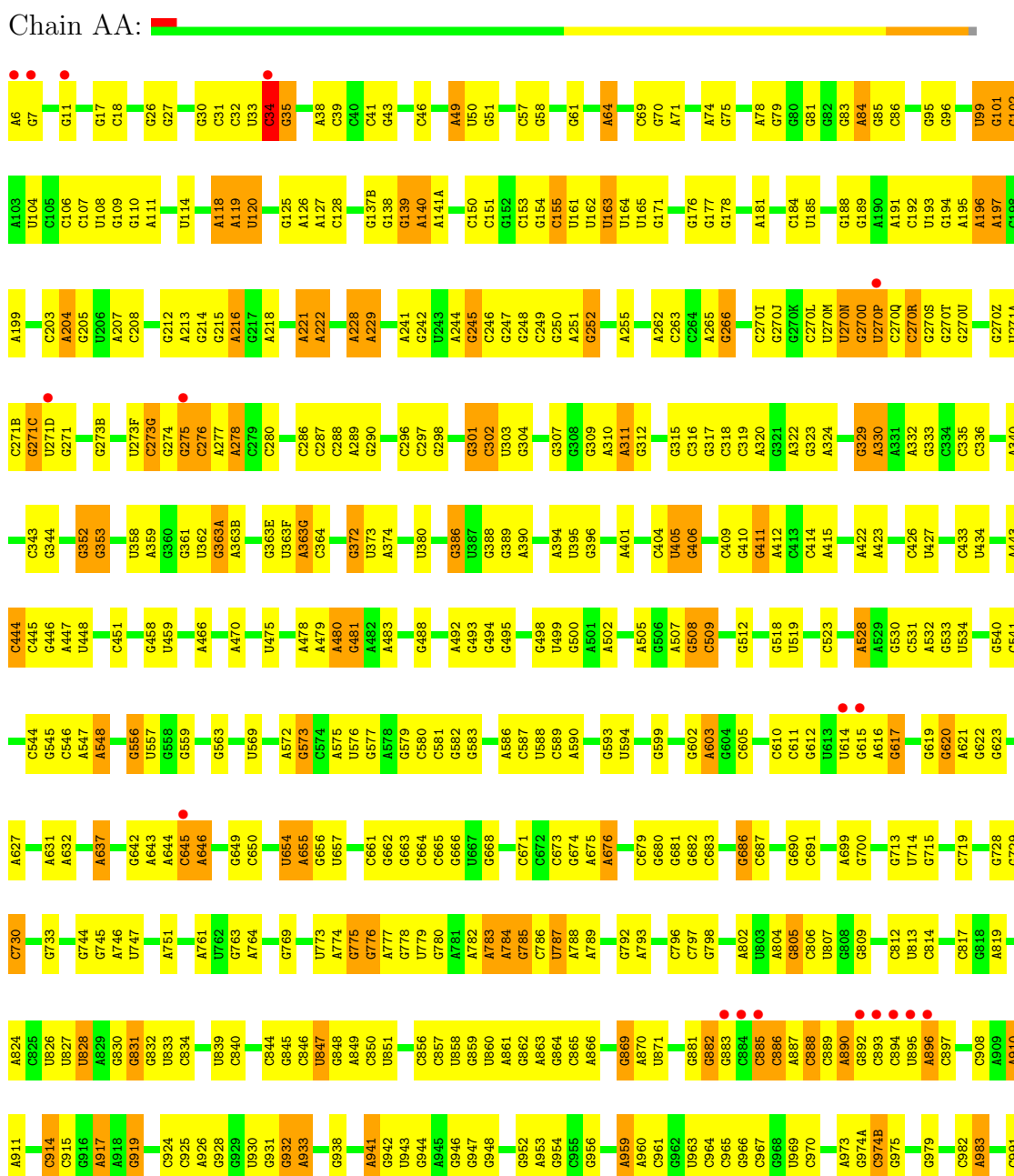
- Molecule 56 is ZINC ION (three-letter code: ZN) (formula: Zn).

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 56 | DN | 1 | Total 1 | Zn 1 | 0 | 0 |
| 56 | BD | 1 | Total 1 | Zn 1 | 0 | 0 |
| 56 | BN | 1 | Total 1 | Zn 1 | 0 | 0 |
| 56 | DD | 1 | Total 1 | Zn 1 | 0 | 0 |

3 Residue-property plots

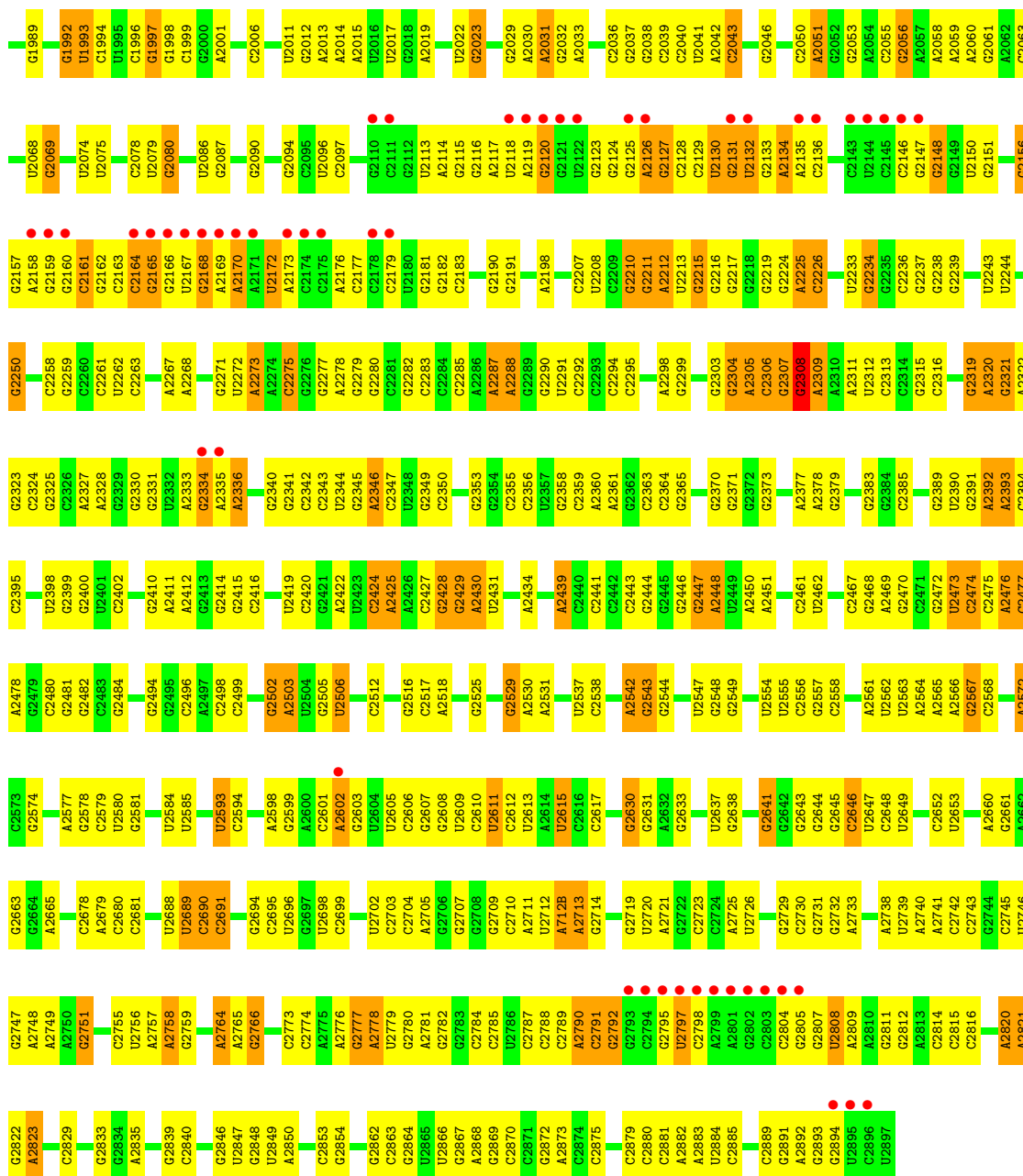
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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: 23S ribosomal RNA



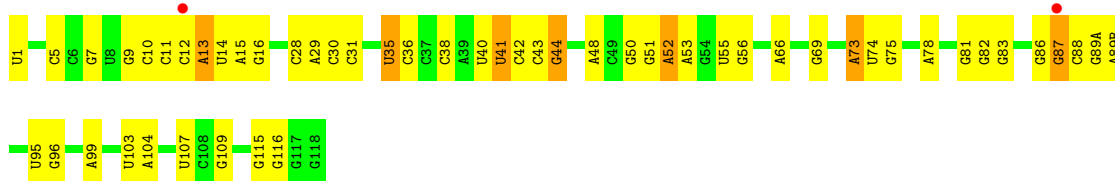
| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|---|-------|
| C2258 | C2160 | U2075 | G1989 | G1899 | A1787 | G1681 | C1583 | U1415 | U1323 | C1217 | A1129 | C | C992 |
| G2259 | C2161 | C2078 | G1992 | A1900 | C1788 | G1686 | C1585 | G1416 | C1327 | C1218 | U1130 | U | G993 |
| G2260 | C2162 | U2079 | G1993 | A1901 | A1789 | C1687 | A1586 | G1417 | G1328 | G1219 | C1135 | A | C994 |
| C2261 | C2163 | G2080 | U1994 | C1902 | C1790 | G1688 | C1587 | G1418 | U1329 | G1220 | G1136 | A | C995 |
| U2262 | C2164 | C2081 | U1995 | G1903 | A1791 | A1689 | C1588 | U1419 | C1330 | C1221 | G | A | A996 |
| C2263 | C2165 | U2086 | C1996 | G1906 | U1794 | A1690 | C1589 | G1421 | U1331 | C1221A | G1139 | A | U999 |
| A2267 | U2167 | G2087 | C1997 | A1913 | C1795 | U1693 | U1590 | A1427 | G1332 | C1222 | U1140 | G | A1000 |
| A2268 | C2168 | G2090 | G1998 | C1914 | U1796 | C1694 | C1591 | A1428 | U1336 | G1227 | U1141 | C | A1001 |
| U2272 | A2169 | C2091 | U1999 | U1915 | C1797 | A1698 | G1593 | G1429 | A1336 | A1142B | A | G | G1002 |
| A2273 | U2170 | G2092 | G2000 | U1916 | U1798 | A1699 | G1594 | A1434 | G1337 | C1230 | G1143 | C | C1005 |
| C2274 | C2171 | C2093 | A2001 | U1917 | G1799 | G1703 | G1595 | A1435 | U1338 | G1231 | G1144 | C | C1006 |
| C2275 | C2172 | C2094 | C2006 | A1918 | C1800 | G1704 | C1598 | C1437 | G1344 | G1232 | G1145 | A | U1009 |
| A2278 | U2173 | U2096 | G2012 | U1919 | G1801 | U1706 | A1603 | U1438 | C1345 | U1234 | G1149 | U | A1010 |
| G2279 | C2174 | C2097 | A2013 | C1920 | U1805 | U1706 | C1603 | A1439 | U1348 | G1235 | C1150 | C | G1011 |
| C2280 | A2176 | U2109 | G2014 | G1921 | G1811 | U1709 | C1607 | G1443 | A1349 | G1236 | G1153 | U | U1012 |
| C2281 | C2177 | C2110 | A2015 | C1922 | A1812 | C1710 | U1608 | G1444 | U1352 | A1241 | G1154 | U | C1013 |
| C2282 | U2178 | C2111 | U2016 | C1925 | A1813 | U1716 | A1609 | A1444B | U1357 | A1242 | A1155 | A | U1019 |
| C2283 | C2179 | C2112 | U2017 | U1926 | G1816 | U1716 | G1610 | C1445 | G1366 | G1252 | G1162 | A | A1020 |
| C2284 | C2180 | C2113 | A2018 | G1929 | G1817 | G1726 | C1615 | A1448B | U1367 | G1253 | G1163 | A | A1021 |
| C2285 | U2181 | U2114 | G2019 | U1930 | A1825 | G1728 | A1616 | G1455 | A1368 | A1254 | G1164 | A | G1022 |
| A2286 | C2182 | G2115 | U2022 | U1931 | A1826 | A1729 | C1617 | G1456 | A1369 | U1255 | U1165 | G | U1023 |
| A2287 | C2183 | G2116 | G2023 | A1932 | G1829 | U1730 | A1618 | G1459 | A1360 | G1256 | G1166 | U | G1024 |
| C2288 | G2191 | U2118 | C2029 | G1933 | C1830 | G1731 | U1618 | G1460 | A1365 | G1266 | G1167 | G | G1025 |
| C2289 | C2196 | G2120 | A2030 | A1936 | A1831 | A1732 | U1639 | G1461 | A1366 | G1267 | G1168 | U | U1026 |
| C2290 | U2197 | U2121 | U2031 | A1937 | C1832 | G1733 | C1640 | C1462 | A1367 | G1268 | G1169 | C | A1027 |
| C2291 | C2198 | U2122 | G2032 | U1938 | U1833 | C1742 | A1641 | G1464 | A1370 | C1270 | G1170 | U | A1028 |
| C2292 | A2198 | G2123 | A2033 | U1939 | C1837 | G1743 | G1642 | G1465 | A1371 | A1271 | G1171 | A | U1033 |
| C2293 | C2207 | G2124 | C2036 | U1940 | G1840 | G1746 | C1646 | G1466 | A1374 | A1272 | G1172 | A | G1034 |
| C2294 | U2208 | G2125 | G2037 | U1946 | G1841 | G1747 | C1647 | C1467 | A1379 | U1273 | U1175 | U | U1035 |
| C2295 | C2209 | G2126 | C2038 | C1947 | A1842 | G1748 | C1648 | A1469 | G1380 | A1275 | G1176 | A | G1036 |
| A2298 | G2210 | G2127 | C2039 | C1947 | C1843 | A1749 | A1545 | G1470 | U1384 | A1278 | G1177 | G | C1040 |
| C2299 | C2211 | C2128 | C2040 | U1951 | C1844 | C1844 | A1546 | A1471 | G1385 | G1279 | C1178 | U | C1041 |
| G2303 | U2213 | U2130 | U2041 | A1952 | C1847 | A1755 | C1546B | A1472 | C1386 | C1279 | C1179 | U | G1042 |
| G2304 | G2215 | G2131 | A2042 | A1953 | A1847 | G1756 | C1547 | A1477 | C1387 | A1287 | C1180 | U | C1043 |
| A2305 | C2216 | U2132 | C2043 | G1954 | A1853 | G1756 | A1655 | A1478 | G1388 | U1288 | C1181 | U | G1044 |
| C2306 | G2217 | G2133 | C2043 | U1955 | A1854 | C1761 | C1657 | G1479 | G1389 | G1291 | G1182 | U | A1045 |
| G2307 | G2218 | A2134 | G2046 | C1961 | A1854 | A1762 | C1658 | G1483 | U1390 | C1291 | G1183 | U | A1046 |
| G2308 | C2219 | C2135 | C2050 | C1962 | G1858 | G1763 | U1658 | G1484 | U1394 | U1292 | C1185 | U | G1047 |
| A2309 | G2224 | C2136 | A2051 | U1963 | A1859 | G1764 | C1659 | A1485 | A1395 | C1293 | G1186 | U | A1048 |
| A2311 | C2226 | C2143 | C2055 | G1967 | U1864 | C1765 | A1665 | A1486 | U1396 | G1297 | G1187 | U | C1049 |
| C2312 | G2234 | U2144 | G2056 | G1968 | A1871 | U1766 | G1666 | A1487 | U1398 | C1298 | G1188 | U | A1050 |
| C2313 | G2235 | C2145 | C2056 | C1969 | A1872 | U1768 | G1667 | G1488 | G1399 | G1299 | A1189 | U | G1051 |
| G2315 | G2236 | G2146 | A2060 | A1970 | A1873 | C1771 | A1668 | U1489 | U1400 | U1300 | G1190 | U | C1052 |
| C2316 | C2237 | U2147 | G2061 | U1971 | G1878 | G1772 | A1669 | A1490 | C1404 | A1301 | C1201 | A | C |
| G2319 | G2238 | C2149 | A2062 | A1972 | C1879 | A1773 | C1670 | C1493 | U1405 | G1202 | G1202 | G | A |
| A2320 | C2239 | G2150 | C2063 | G1973 | A1884 | A1773 | G1674 | A1494 | U1406 | G1203 | G1203 | G | G |
| C2321 | U2068 | G2151 | U2068 | C1974 | A1884 | G1776 | C1675 | A1495 | C1407 | A1204 | U1205 | U | C |
| A2322 | G2069 | G2156 | G2069 | G1980 | G1888 | G1776 | A1676 | A1496 | C1408 | G1309 | G1206 | U | G |
| G2323 | G2070 | G2157 | G2070 | A1981 | C1762 | A1776 | A1677 | U1497 | C1409 | C1314 | G1206 | U | U |
| C2324 | C1982 | G2158 | A1890 | A1982 | A1786 | A1786 | A1678 | C1499 | G1413 | A1317 | A1210 | U | U |
| G2325 | G2159 | G2159 | U2074 | G1982 | A1786 | A1786 | U1680 | G1500 | G1414 | C1318 | A1211 | G | G |

| | | | | | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|------|------|
| G1903 | A1791 | U1693 | C1592 | G1430 | G1337 | G1227 | A1143 | C1005 | G919 | G832 | U747 | A637 |
| G1906 | U1794 | C1694 | G1593 | A1434 | G1344 | G1230 | G1144 | C1006 | C924 | U833 | A751 | A642 |
| G1910 | C1795 | U1796 | G1594 | C1437 | G1345 | G1231 | C1145 | A1009 | C925 | C934 | A761 | A643 |
| A1912 | C1797 | U1798 | G1595 | U1438 | G1348 | G1232 | G1149 | A1010 | A926 | U839 | U762 | A644 |
| A1913 | G1703 | G1704 | C1598 | A1439 | G1349 | U1234 | C1150 | G1011 | G928 | C940 | G763 | C645 |
| C1914 | G1705 | U1706 | U1519 | G1443 | U1352 | G1235 | C1153 | U1012 | U930 | A841 | A764 | A646 |
| U1915 | C1707 | U1708 | C1521 | A1444 | G1356 | G1236 | G1154 | C1013 | G931 | C844 | G769 | A649 |
| A1916 | C1709 | U1709 | G1522 | A1445 | U1357 | G1252 | A1155 | U1019 | G932 | G845 | A773 | C650 |
| U1917 | C1710 | U1710 | U1523 | C1445 | G1358 | A1263 | G1157 | A1020 | A933 | C946 | U774 | U654 |
| A1918 | C1711 | U1711 | G1524 | A1448B | A1359 | G1266 | G1162 | G1022 | U937 | U847 | A775 | A655 |
| A1919 | U1716 | U1716 | G1525 | G1455 | A1360 | G1267 | G1163 | A1021 | G938 | C949 | G776 | A656 |
| G1920 | G1726 | U1726 | A1529 | G1456 | A1365 | G1268 | G1164 | G1025 | A941 | U851 | A777 | U657 |
| G1922 | C1817 | U1727 | C1532 | G1459 | A1373 | U1267 | C1166 | G1026 | U942 | C856 | U779 | C661 |
| C1925 | U1818 | A1728 | U1535 | G1460 | C1374 | A1269 | U1167 | U1027 | U943 | C857 | G780 | G662 |
| U1926 | A1819 | U1730 | A1536 | G1461 | C1375 | C1270 | G1168 | A1028 | G944 | U858 | A781 | G663 |
| G1929 | G1824 | C1731 | C1537 | C1464 | C1376 | A1272 | G1169 | U1033 | G946 | C859 | A782 | C664 |
| C1930 | A1825 | A1732 | G1538 | G1465 | C1377 | U1273 | G1170 | G1034 | G947 | U860 | A783 | C665 |
| U1931 | U1839 | C1733 | G1539 | G1466 | C1378 | G1287 | C1171 | U1035 | G948 | A861 | A784 | G666 |
| A1932 | A1839 | G1734 | G1540 | C1467 | A1379 | U1288 | G1173 | G1036 | G952 | C862 | G785 | U667 |
| G1933 | U1735 | U1735 | U1541 | C1468 | G1380 | A1275 | A1174 | A1045 | A959 | C863 | C786 | G668 |
| A1936 | C1741 | U1741 | G1542 | A1469 | A1384 | A1278 | U1175 | C1046 | A960 | C864 | U787 | C671 |
| A1937 | C1742 | C1742 | C1543 | G1470 | G1385 | G1279 | G1176 | C1040 | G954 | C865 | A788 | C672 |
| A1938 | G1743 | C1743 | C1544 | A1471 | C1386 | U1287 | C1177 | G1042 | G955 | A866 | A789 | C673 |
| U1939 | G1746 | G1746 | A1545 | A1472 | C1387 | A1287 | C1178 | C1043 | G956 | C867 | G792 | C674 |
| U1940 | G1747 | U1747 | A1546 | A1477 | C1388 | U1288 | C1180 | G1044 | A969 | C869 | A793 | A675 |
| C1943 | C1748 | C1748 | C1548 | A1478 | G1389 | C1291 | C1181 | A1045 | A960 | U870 | A793 | A676 |
| C1944 | A1749 | U1749 | C1549 | G1478 | C1389 | U1292 | G1182 | C1046 | C961 | U871 | C796 | C679 |
| A1947 | C1754 | C1754 | A1554 | G1483 | U1394 | C1293 | G1183 | A1048 | U963 | C881 | C797 | C680 |
| U1951 | A1755 | U1755 | C1557 | G1484 | A1395 | G1297 | C1185 | C1050 | C964 | C882 | A802 | C681 |
| A1952 | G1756 | G1756 | A1558 | G1485 | U1396 | C1297 | G1186 | G1051 | C965 | C883 | U803 | C682 |
| A1953 | C1761 | U1761 | G1559 | A1486 | C1399 | G1298 | U1187 | C1052 | C966 | C884 | A804 | C683 |
| G1954 | U1762 | C1762 | G1560 | G1487 | C1400 | U1300 | U1188 | C | U969 | C885 | C805 | C686 |
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| A1960 | U1765 | U1765 | A1567 | A1490 | U1406 | G1309 | C1201 | A | G974A | C889 | G809 | C691 |
| C1961 | C1766 | U1766 | G1568 | C1493 | C1407 | C1314 | G1202 | G | C974B | C890 | C812 | A699 |
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| U1963 | U1768 | U1768 | A1570 | A1495 | C1409 | A1317 | U1205 | U | A983 | C894 | C814 | C713 |
| C1967 | C1771 | C1771 | C1577 | A1496 | G1413 | G1318 | G1206 | G | C991 | C896 | C817 | U714 |
| G1968 | G1772 | U1772 | U1578 | U1497 | G1414 | C1318 | A1210 | U | C992 | C897 | G818 | C719 |
| A1969 | A1773 | A1773 | A1579 | C1498 | U1415 | U1323 | U1211 | C | C993 | C908 | A819 | C719 |
| A1970 | G1776 | U1776 | A1580 | C1499 | U1416 | U1327 | C1217 | U | G994 | A909 | A824 | G729 |
| G1971 | C1782 | U1782 | C1585 | G1500 | G1417 | C1327 | G1328 | A | C995 | A910 | C825 | C730 |
| A1972 | U1783 | U1783 | A1586 | C1504 | A1418 | U1329 | C1218 | G | A996 | A911 | U826 | G733 |
| G1973 | A1884 | U1784 | A1587 | C1505 | U1419 | C1330 | G1219 | A | C997 | C909 | U827 | C733 |
| C1974 | U1886 | U1886 | C1588 | A1508 | G1420 | A1331 | A1220 | A | C998 | C912 | U828 | C733 |
| G1989 | A1787 | U1787 | C1589 | A1508 | G1421 | G1332 | C1221 | G | C999 | C913 | A829 | G744 |
| A1990 | C1788 | U1788 | U1590 | A1509 | A1422 | U1335 | C1221A | C | C999 | C914 | G830 | G745 |
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• Molecule 2: 5S ribosomal RNA

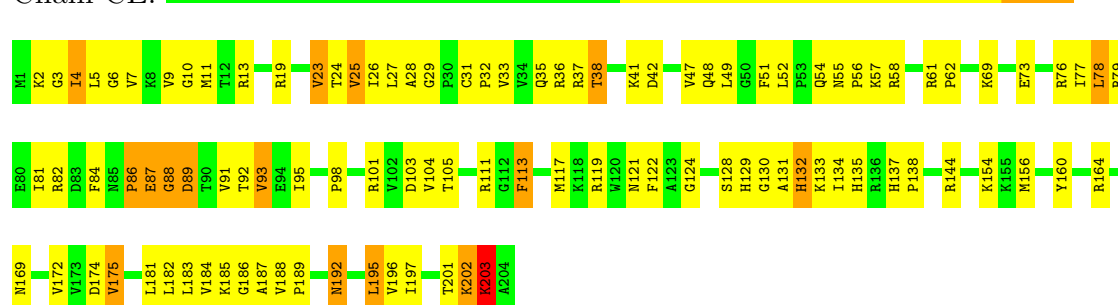
Chain AB:



• Molecule 2: 5S ribosomal RNA

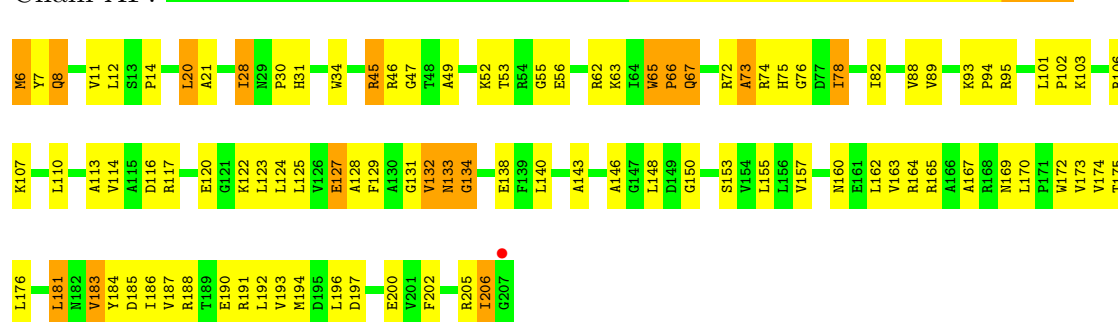
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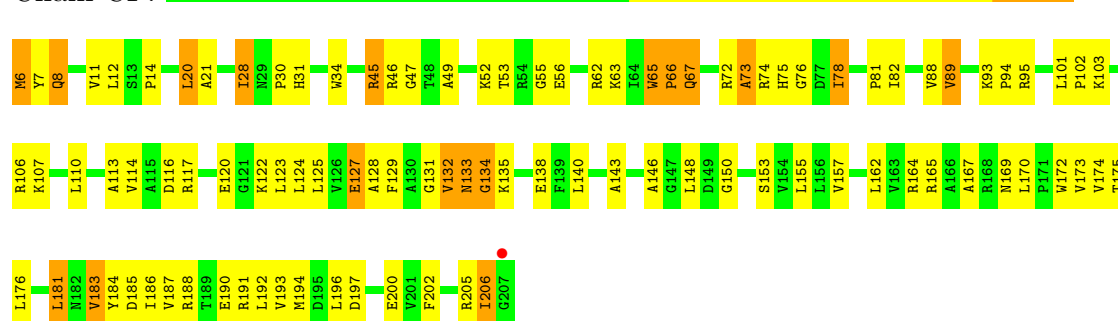
- Molecule 5: 50S ribosomal protein L4

Chain AF:



- Molecule 5: 50S ribosomal protein L4

Chain CF:



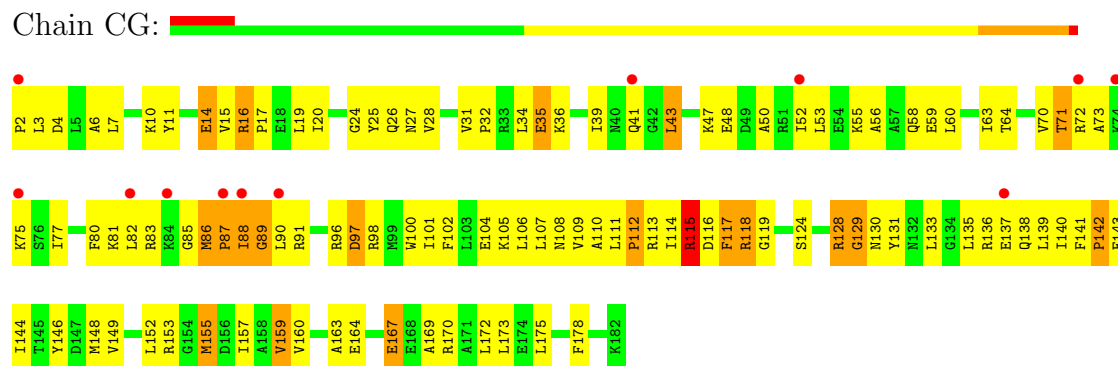
- Molecule 6: 50S ribosomal protein L5

Chain AG:



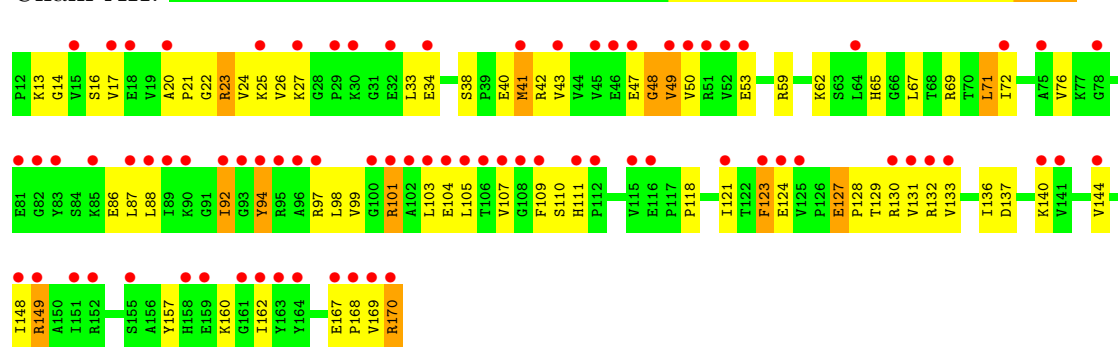
- Molecule 6: 50S ribosomal protein L5

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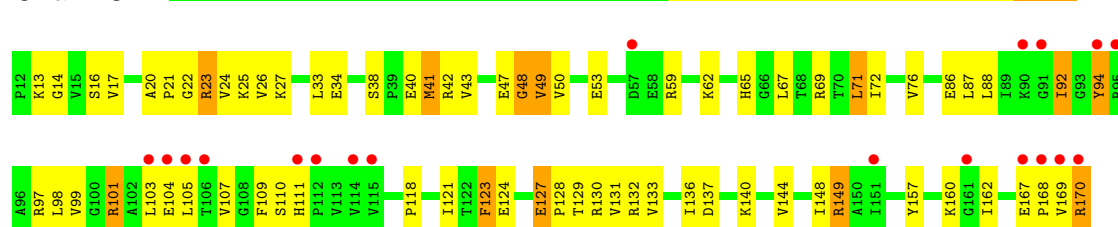
- Molecule 7: 50S ribosomal protein L6

Chain AH:



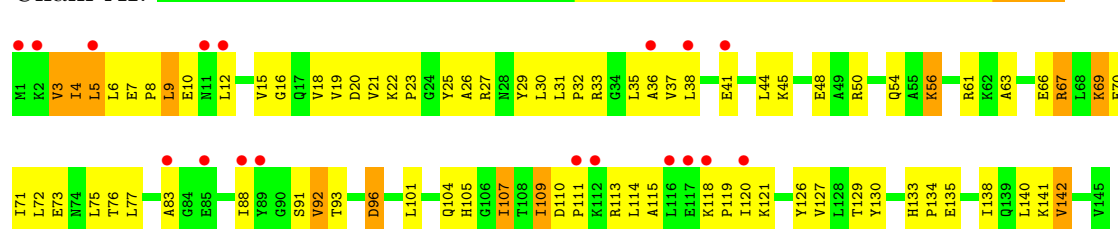
- Molecule 7: 50S ribosomal protein L6

Chain CH:



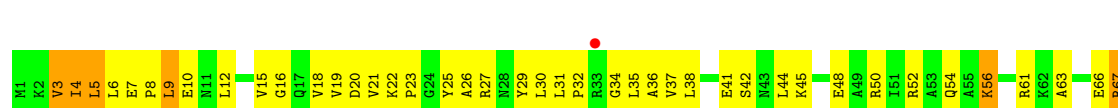
- Molecule 8: 50S ribosomal protein L9

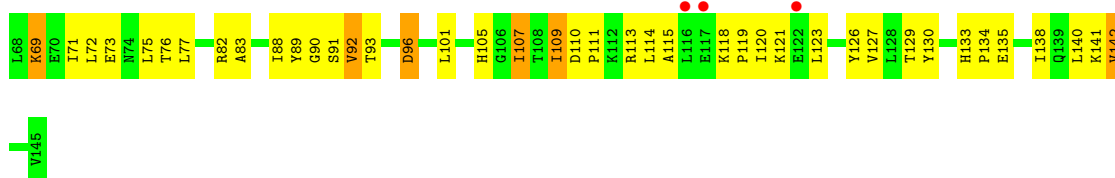
Chain AI:



- Molecule 8: 50S ribosomal protein L9

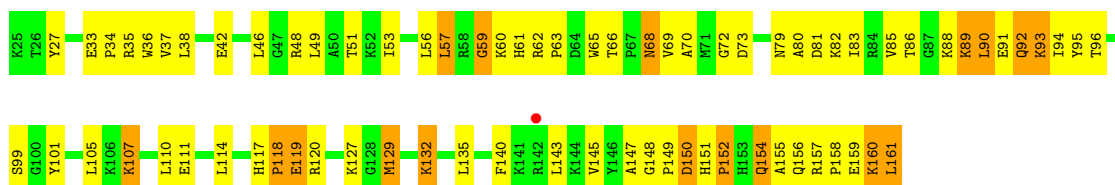
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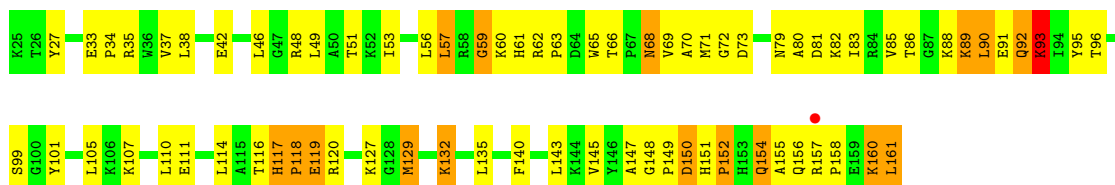
- Molecule 9: 50S ribosomal protein L13

Chain AJ:



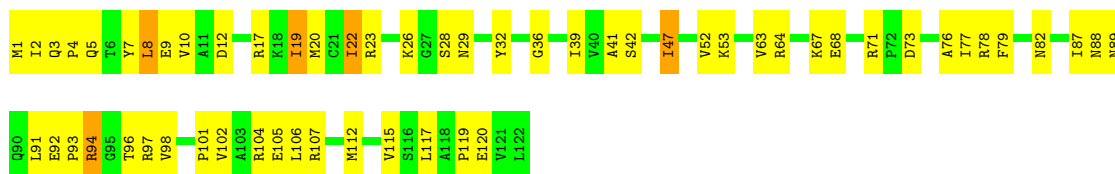
- Molecule 9: 50S ribosomal protein L13

Chain CJ:



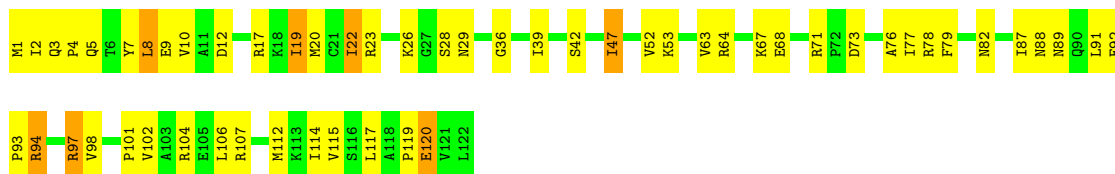
- Molecule 10: 50S ribosomal protein L14

Chain AK:



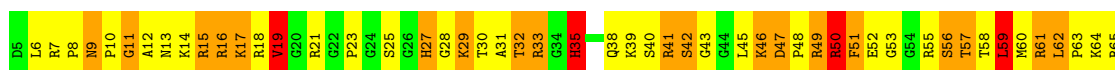
- Molecule 10: 50S ribosomal protein L14

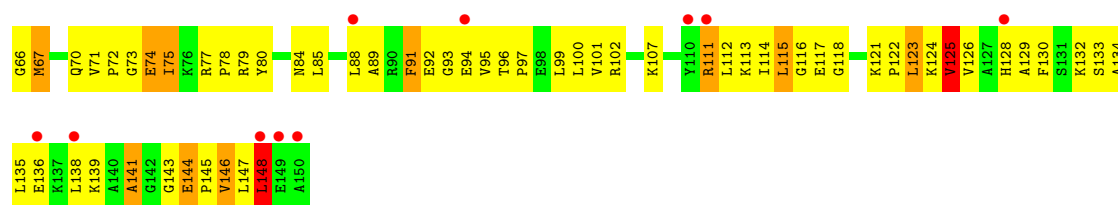
Chain CK:



- Molecule 11: 50S ribosomal protein L15

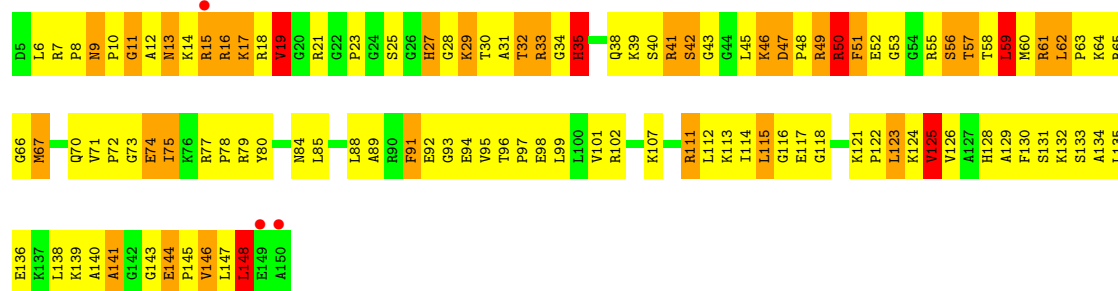
Chain AL:





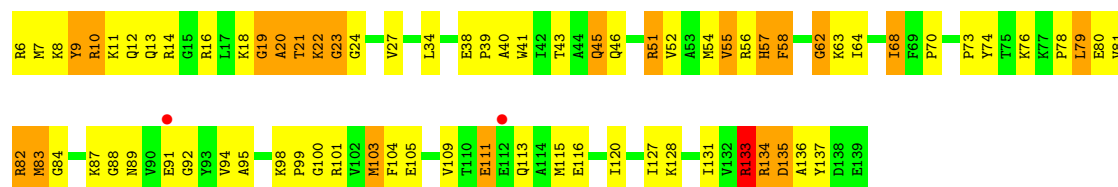
• Molecule 11: 50S ribosomal protein L15

Chain CL:



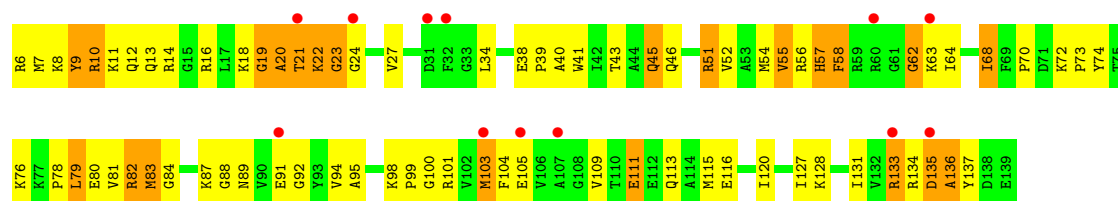
• Molecule 12: 50S ribosomal protein L16

Chain AM:



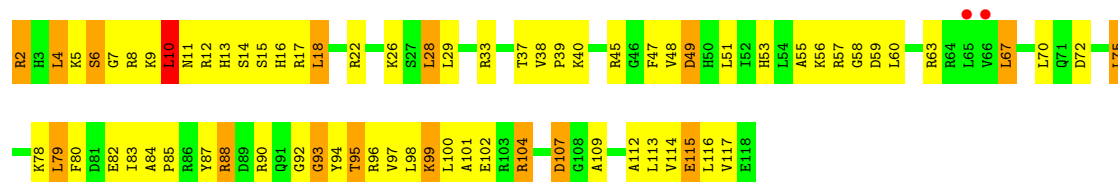
• Molecule 12: 50S ribosomal protein L16

Chain CM:



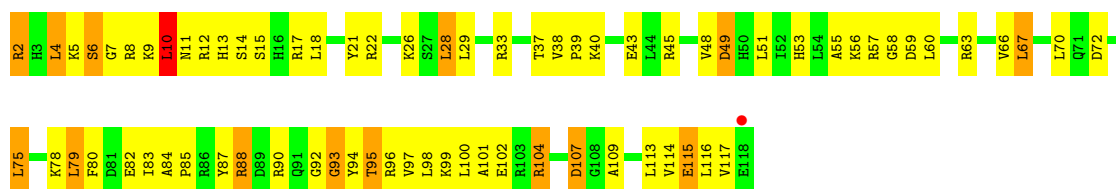
• Molecule 13: 50S ribosomal protein L17

Chain AN:



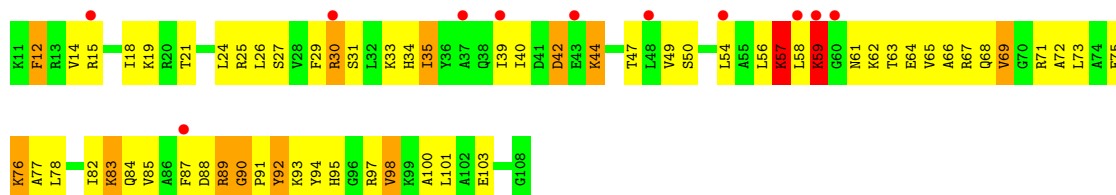
• Molecule 13: 50S ribosomal protein L17

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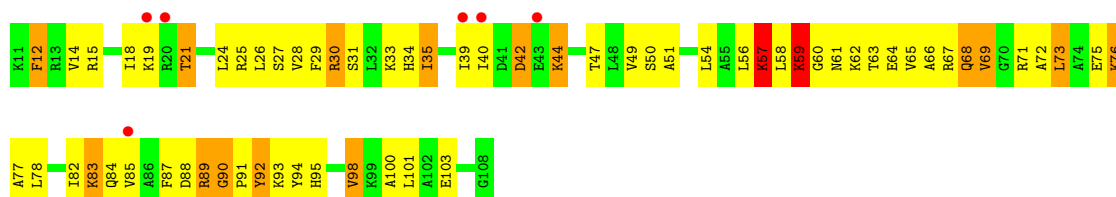
• Molecule 14: 50S ribosomal protein L18

Chain AO:



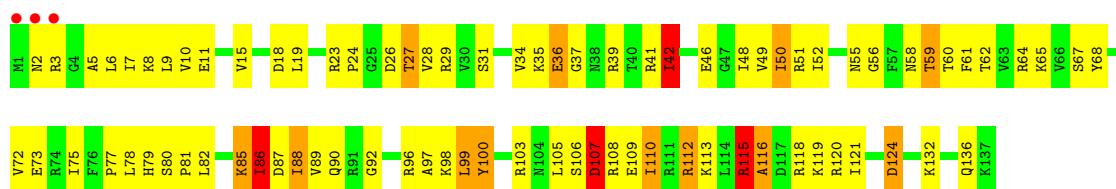
• Molecule 14: 50S ribosomal protein L18

Chain CO:



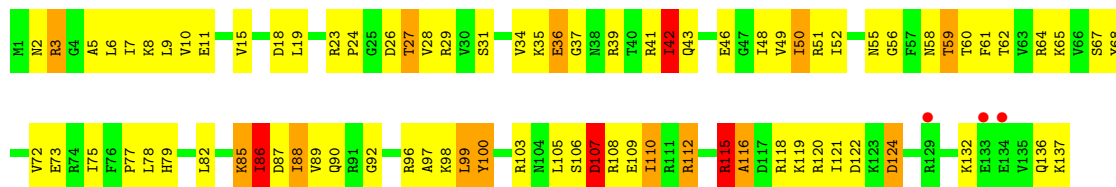
• Molecule 15: 50S ribosomal protein L19

Chain AP:



• Molecule 15: 50S ribosomal protein L19

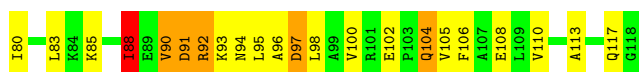
Chain CP:



• Molecule 16: 50S ribosomal protein L20

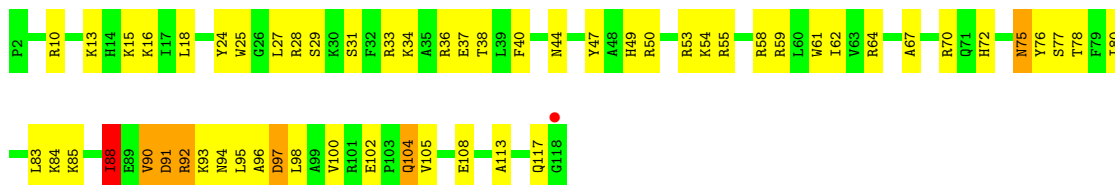
Chain AQ:





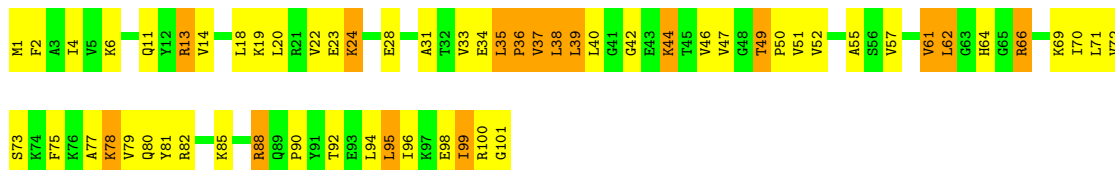
- Molecule 16: 50S ribosomal protein L20

Chain CQ:



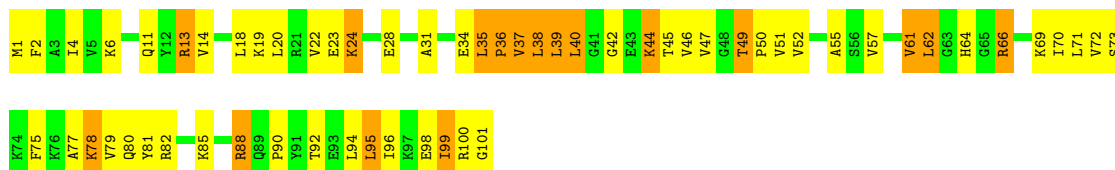
- Molecule 17: 50S ribosomal protein L21

Chain AR:



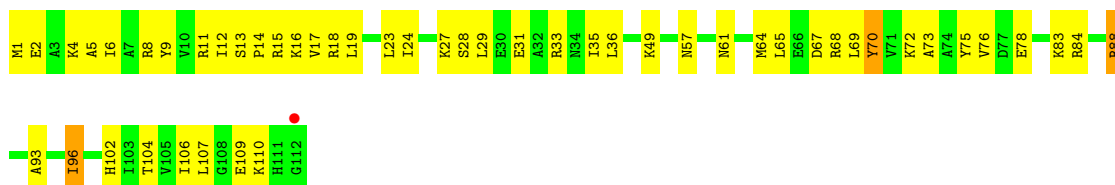
- Molecule 17: 50S ribosomal protein L21

Chain CR:



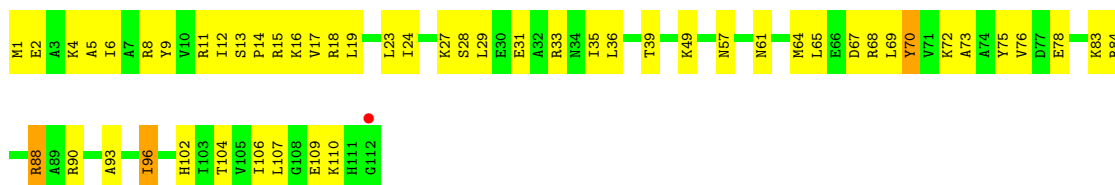
- Molecule 18: 50S ribosomal protein L22

Chain AS:



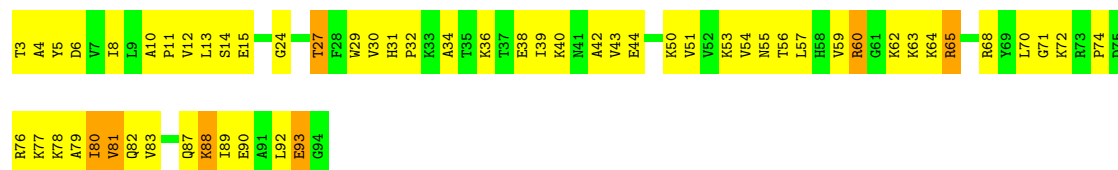
- Molecule 18: 50S ribosomal protein L22

Chain CS:



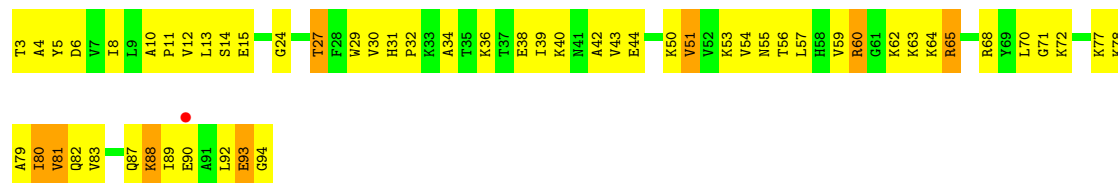
- Molecule 19: 50S ribosomal protein L23

Chain AT:



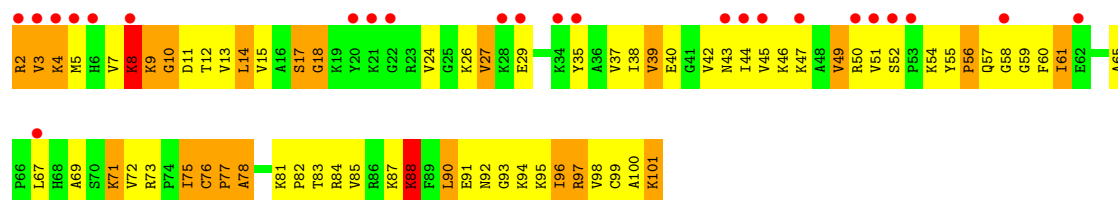
- Molecule 19: 50S ribosomal protein L23

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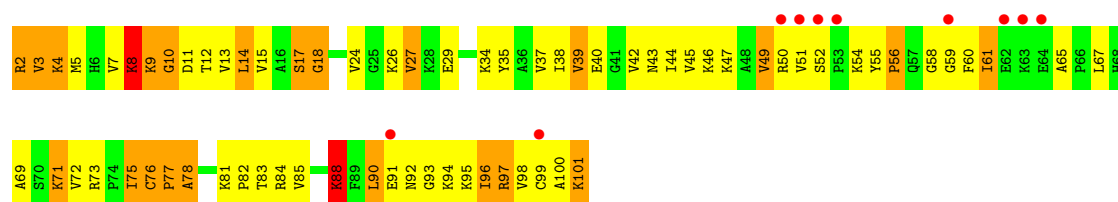
- Molecule 20: 50S ribosomal protein L24

Chain AU:



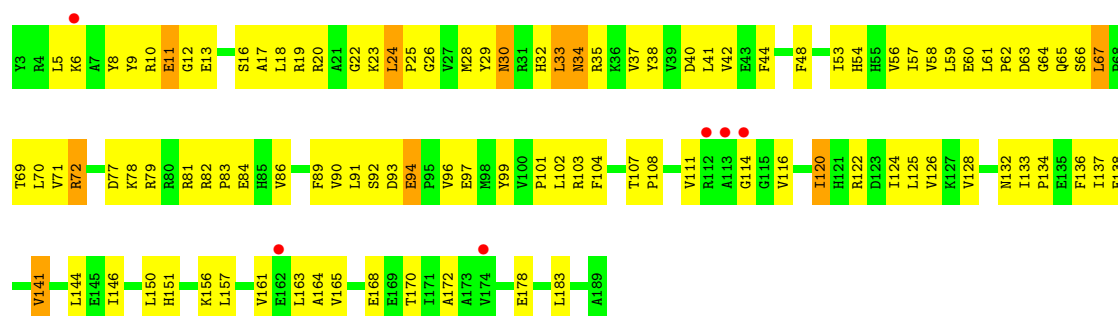
- Molecule 20: 50S ribosomal protein L24

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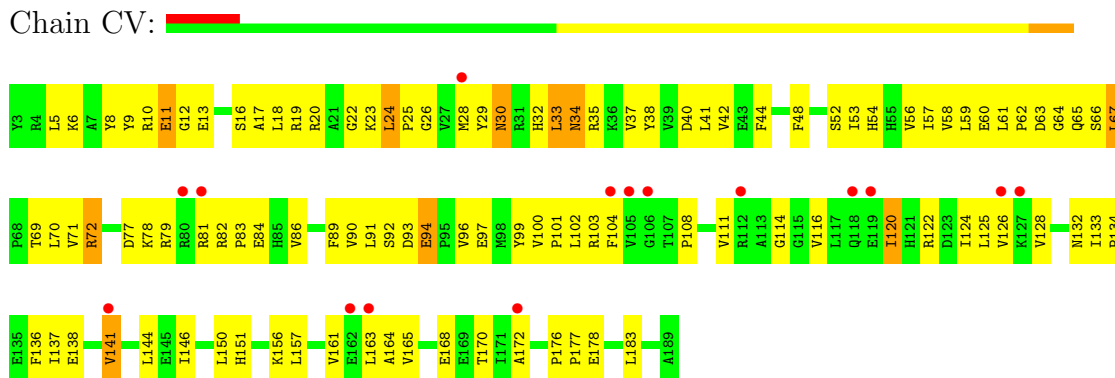
- Molecule 21: 50S ribosomal protein L25

Chain AV:



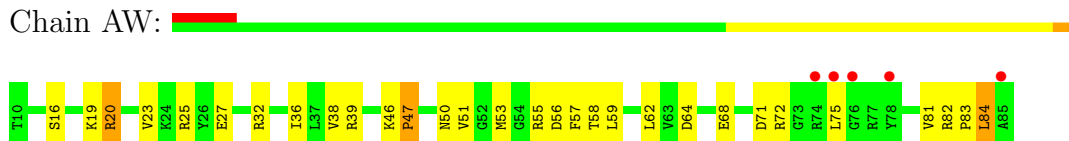
- Molecule 21: 50S ribosomal protein L25

Chain CV:



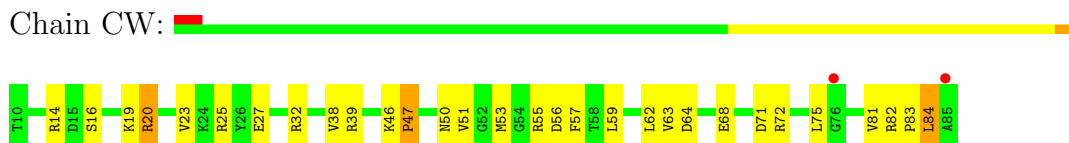
- Molecule 22: 50S ribosomal protein L27

Chain AW:



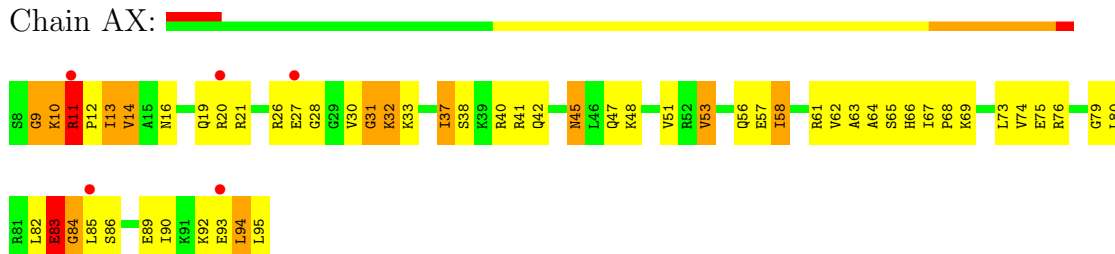
- Molecule 22: 50S ribosomal protein L27

Chain CW:



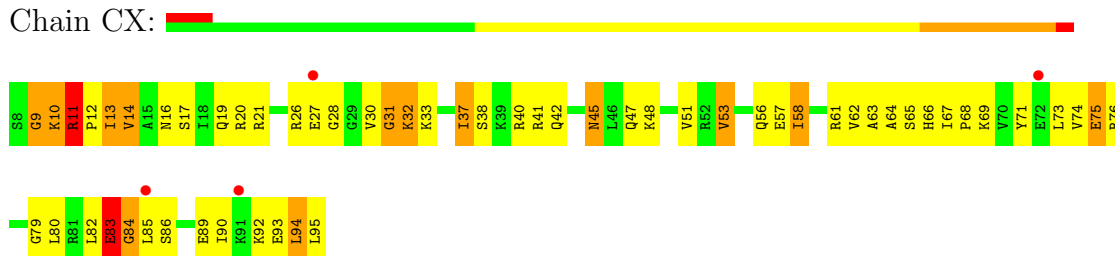
- Molecule 23: 50S ribosomal protein L28

Chain AX:



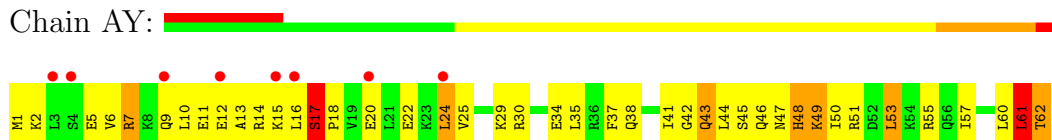
- Molecule 23: 50S ribosomal protein L28

Chain CX:



- Molecule 24: 50S ribosomal protein L29

Chain AY:



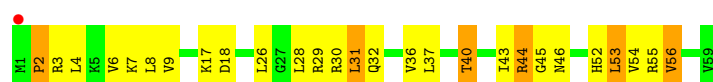
- Molecule 24: 50S ribosomal protein L29

Chain CY:



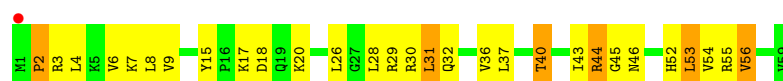
- Molecule 25: 50S ribosomal protein L30

Chain AZ:



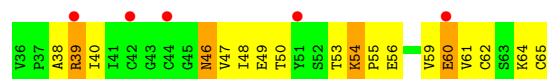
- Molecule 25: 50S ribosomal protein L30

Chain CZ:



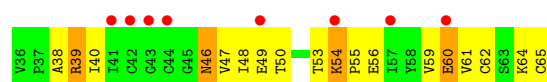
- Molecule 26: 50S ribosomal protein L31

Chain A1:



- Molecule 26: 50S ribosomal protein L31

Chain C1:



- Molecule 27: 50S ribosomal protein L32

Chain A2:



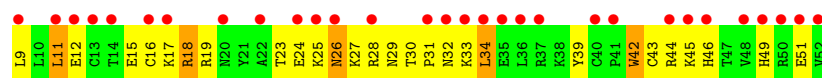
- Molecule 27: 50S ribosomal protein L32

Chain C2:



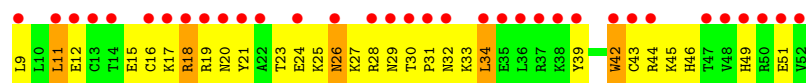
- Molecule 28: 50S ribosomal protein L33

Chain A3:



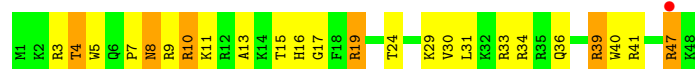
- Molecule 28: 50S ribosomal protein L33

Chain C3:



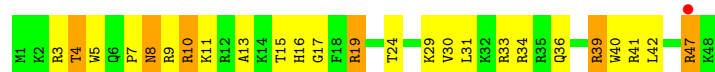
- Molecule 29: 50S ribosomal protein L34

Chain A4:



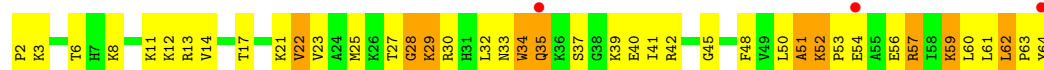
- Molecule 29: 50S ribosomal protein L34

Chain C4:



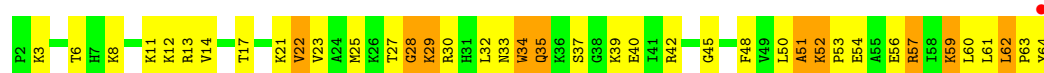
- Molecule 30: 50S ribosomal protein L35

Chain A5:



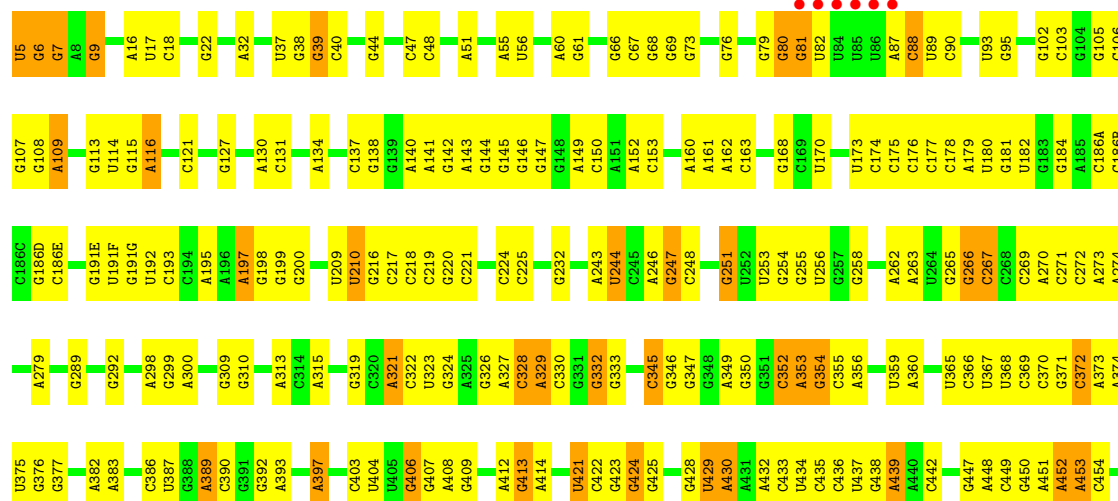
- Molecule 30: 50S ribosomal protein L35

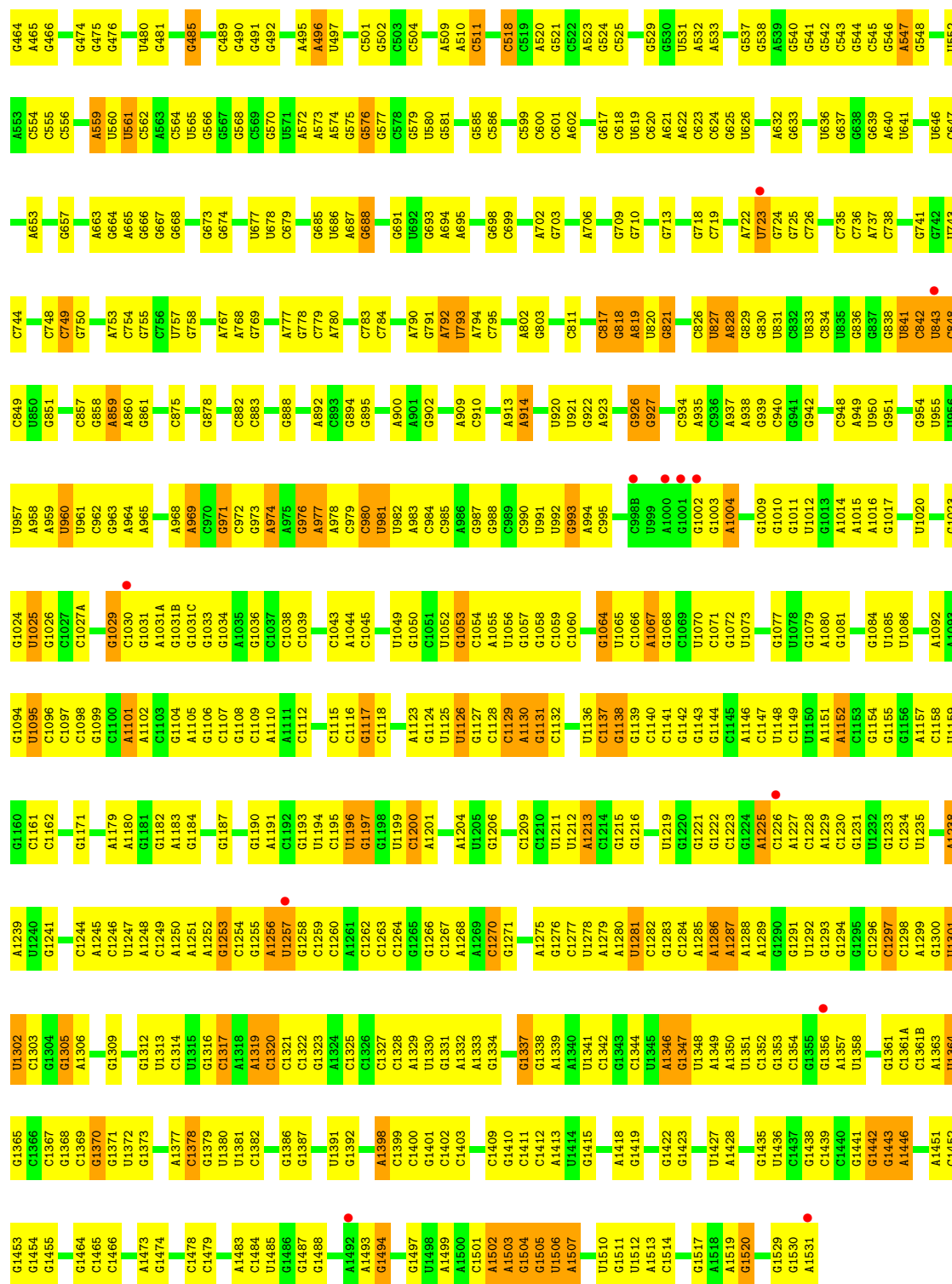
Chain C5:



- Molecule 31: 16S ribosomal RNA

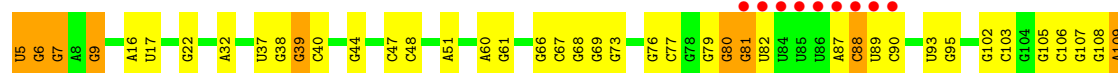
Chain BA:



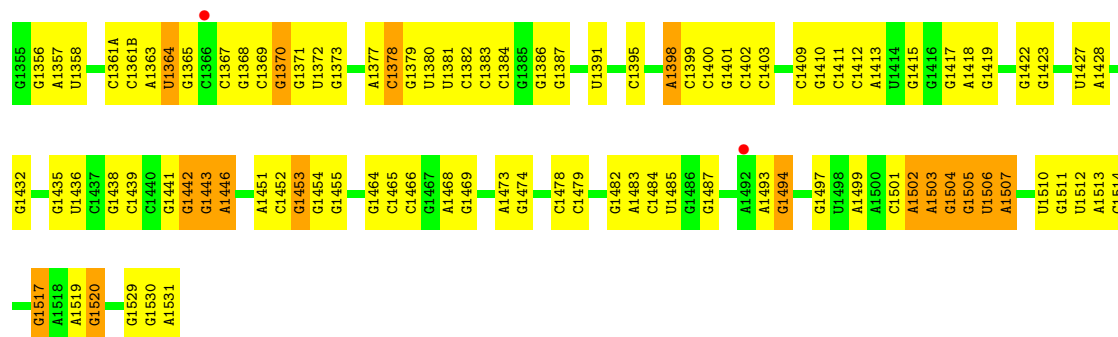


• Molecule 31: 16S ribosomal RNA

Chain DA:

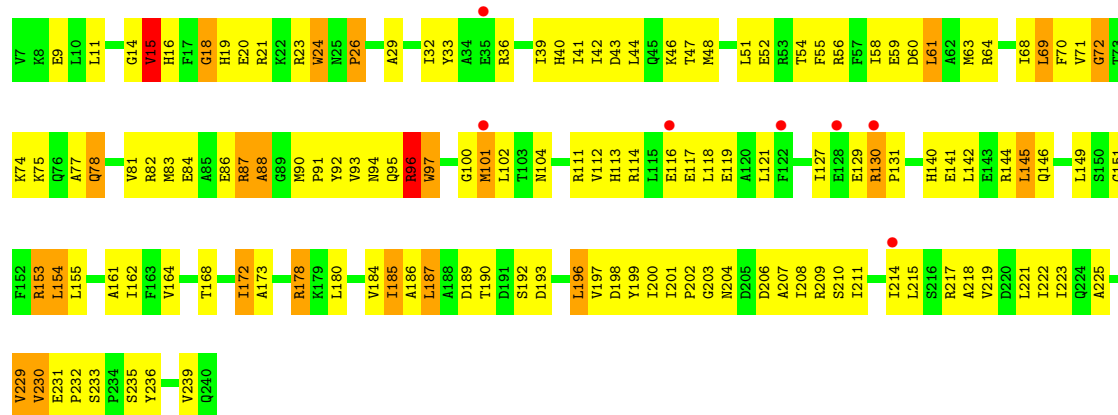






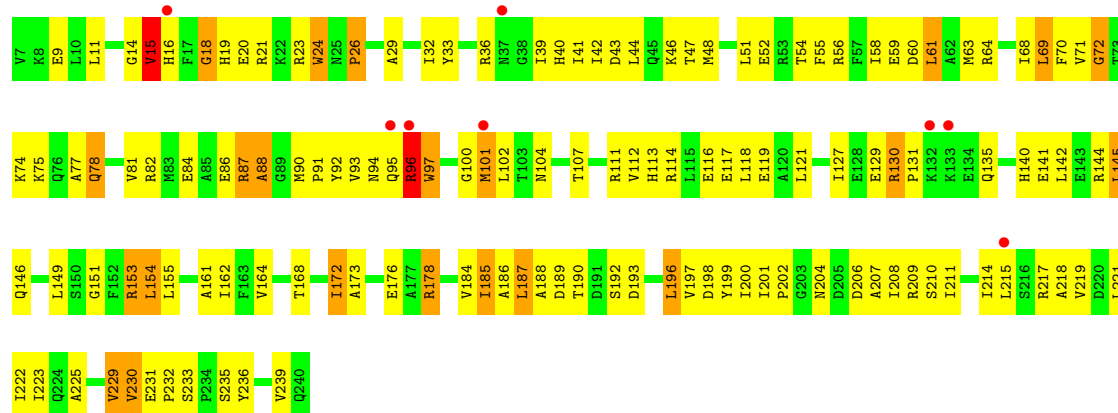
• Molecule 32: 30S ribosomal protein S2

Chain BB:



• Molecule 32: 30S ribosomal protein S2

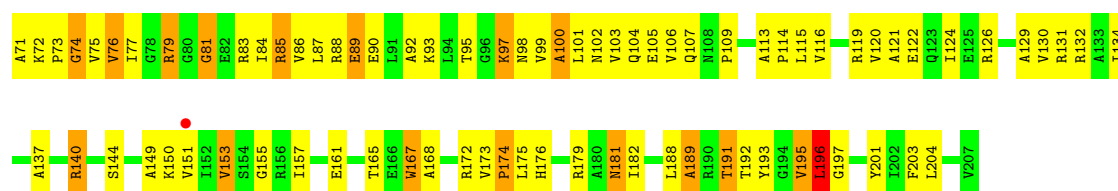
Chain DB:



• Molecule 33: 30S ribosomal protein S3

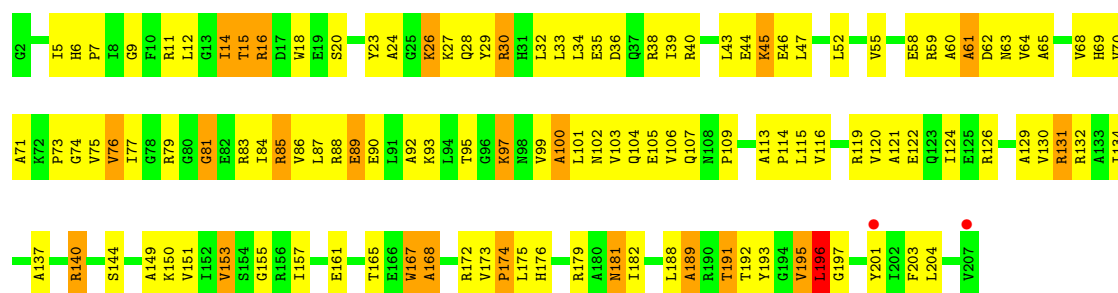
Chain BC:





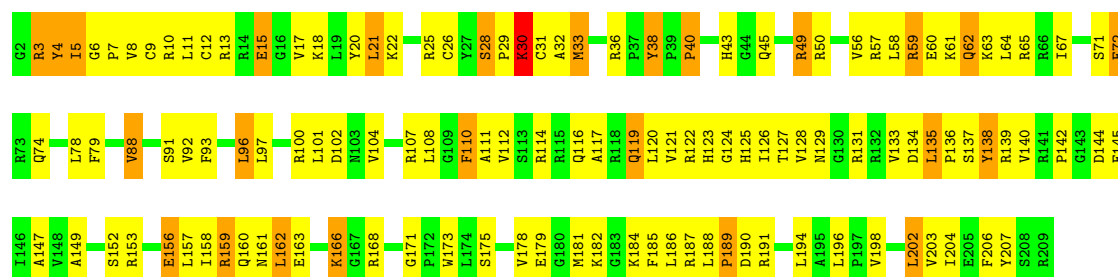
• Molecule 33: 30S ribosomal protein S3

Chain DC:



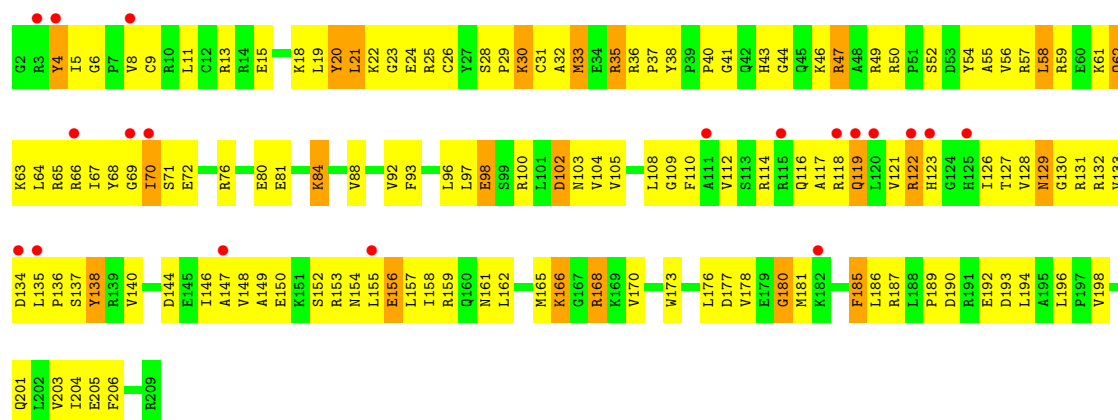
• Molecule 34: 30S ribosomal protein S4

Chain BD:



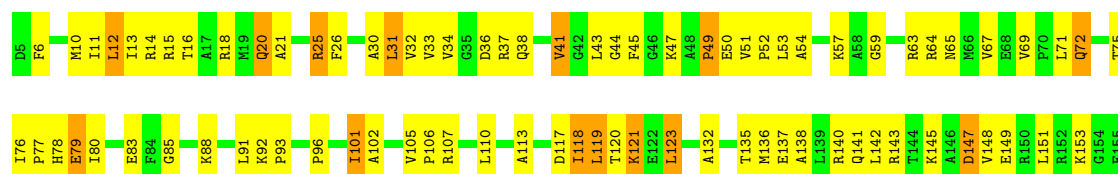
• Molecule 34: 30S ribosomal protein S4

Chain DD:



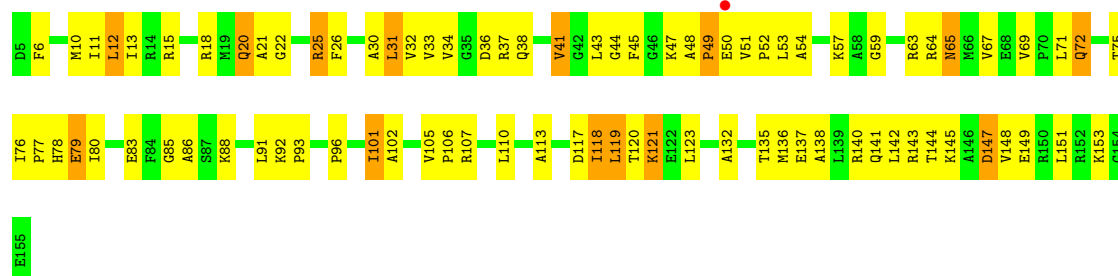
• Molecule 35: 30S ribosomal protein S5

Chain BE:



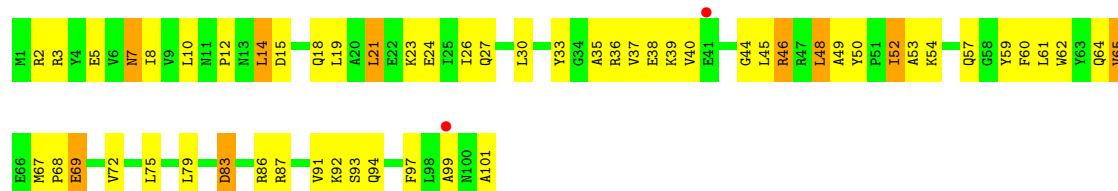
• Molecule 35: 30S ribosomal protein S5

Chain DE:



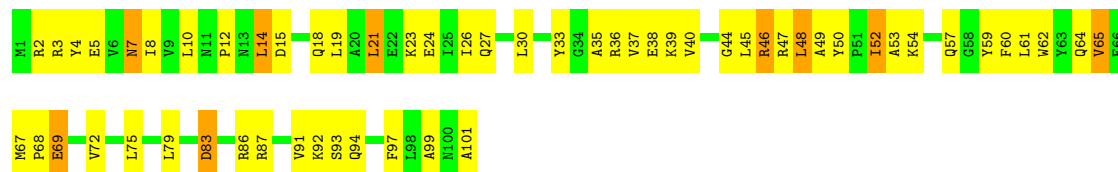
• Molecule 36: 30S ribosomal protein S6

Chain BF:



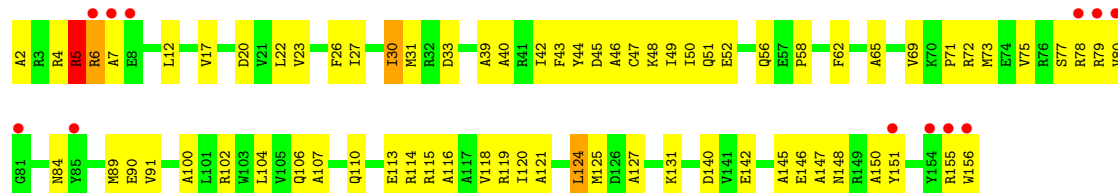
• Molecule 36: 30S ribosomal protein S6

Chain DF:



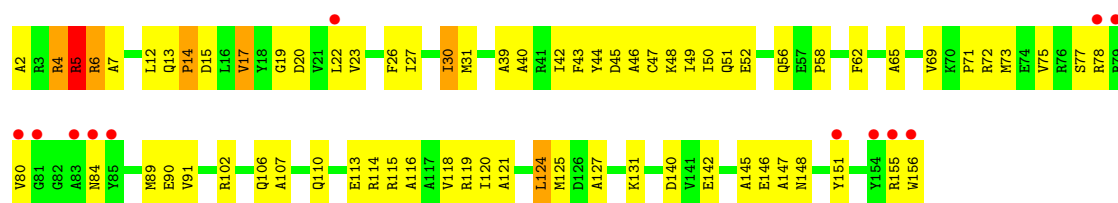
• Molecule 37: 30S ribosomal protein S7

Chain BG:



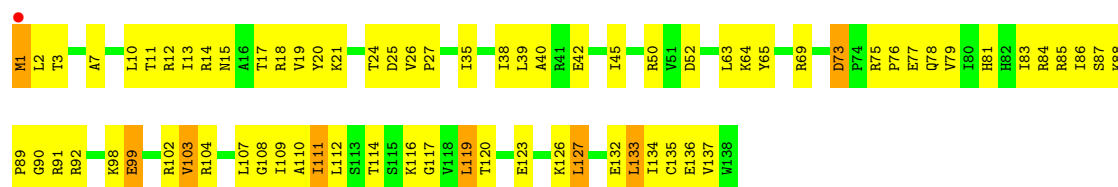
• Molecule 37: 30S ribosomal protein S7

Chain DG:



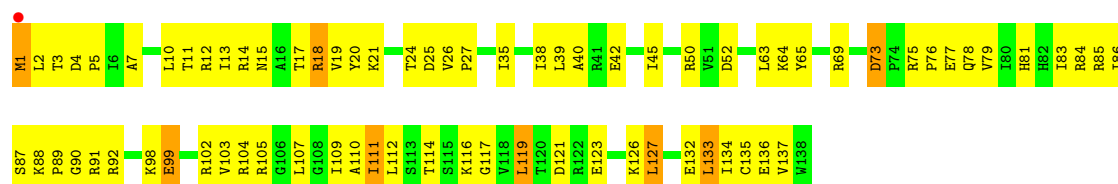
• Molecule 38: 30S ribosomal protein S8

Chain BH:



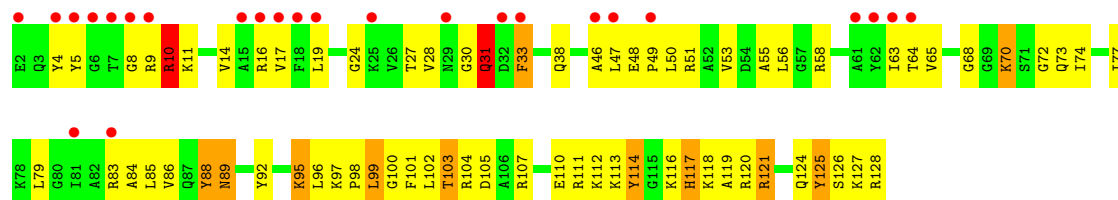
• Molecule 38: 30S ribosomal protein S8

Chain DH:



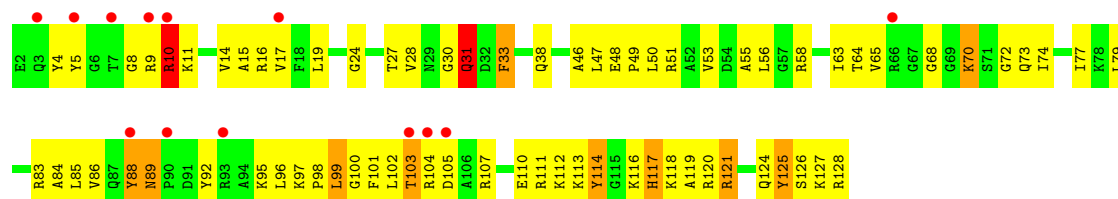
• Molecule 39: 30S ribosomal protein S9

Chain BI:



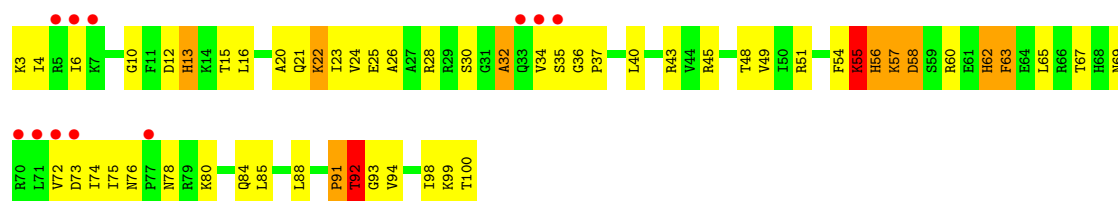
• Molecule 39: 30S ribosomal protein S9

Chain DI:



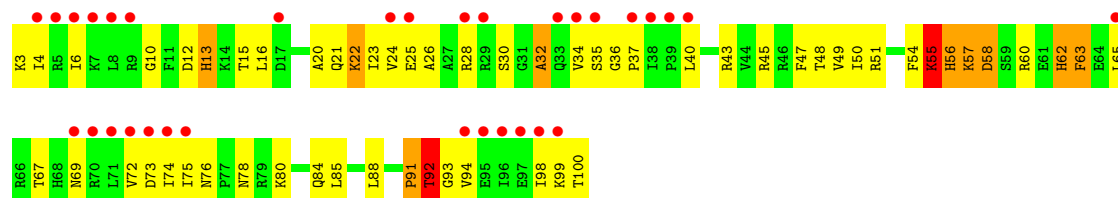
• Molecule 40: 30S ribosomal protein S10

Chain BJ:



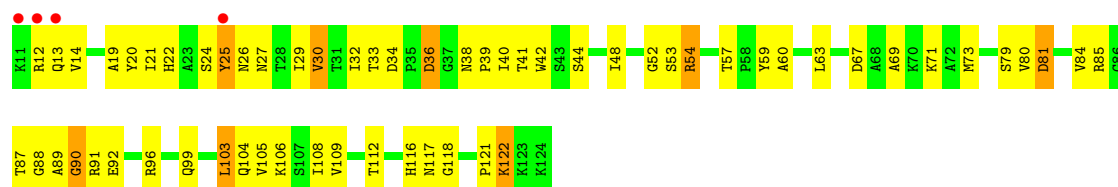
• Molecule 40: 30S ribosomal protein S10

Chain DJ:



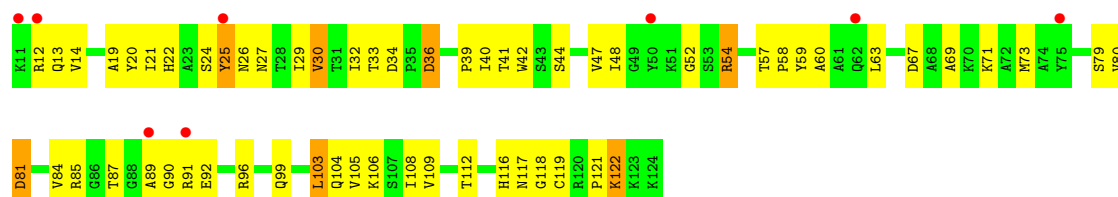
• Molecule 41: 30S ribosomal protein S11

Chain BK:



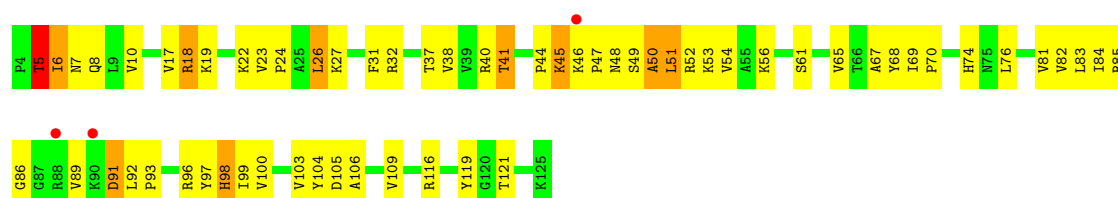
• Molecule 41: 30S ribosomal protein S11

Chain DK:



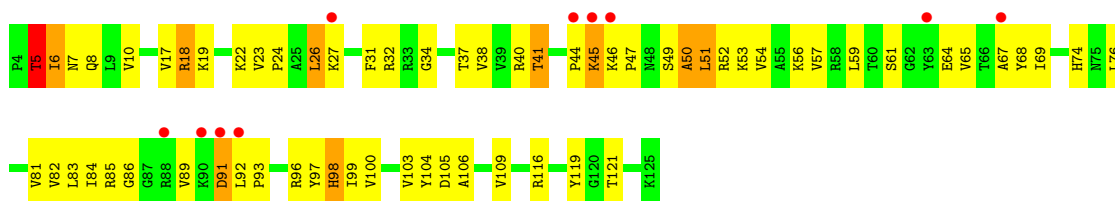
• Molecule 42: 30S ribosomal protein S12

Chain BL:



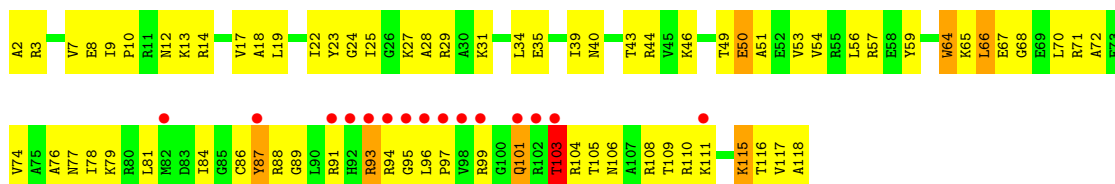
• Molecule 42: 30S ribosomal protein S12

Chain DL:



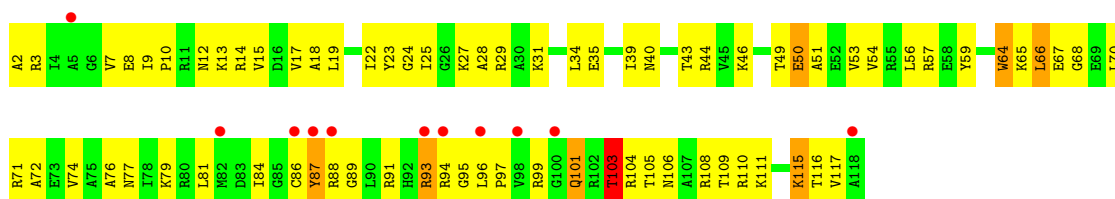
• Molecule 43: 30S ribosomal protein S13

Chain BM:



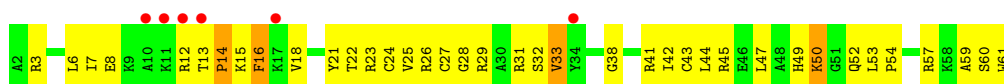
• Molecule 43: 30S ribosomal protein S13

Chain DM:



• Molecule 44: 30S ribosomal protein S14

Chain BN:



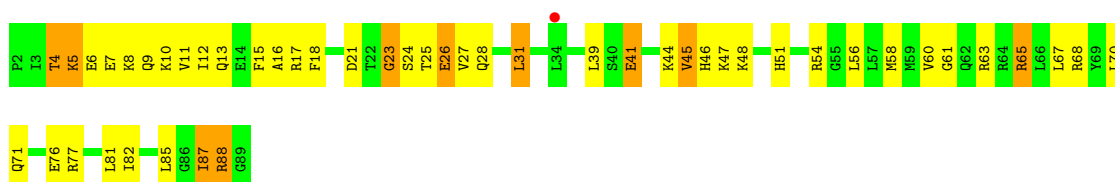
• Molecule 44: 30S ribosomal protein S14

Chain DN:



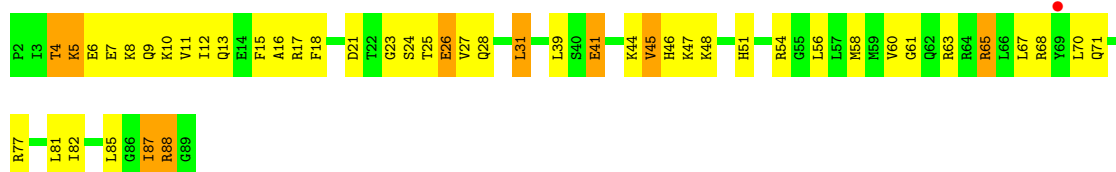
• Molecule 45: 30S ribosomal protein S15

Chain BO:



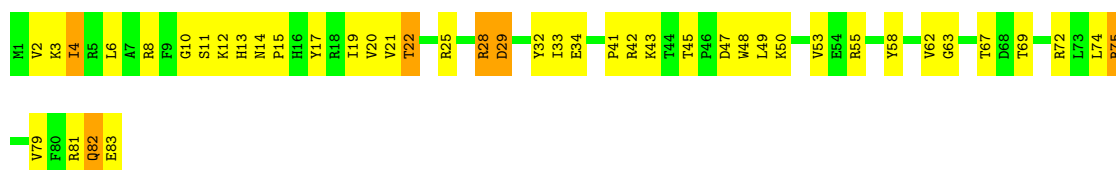
• Molecule 45: 30S ribosomal protein S15

Chain DO:



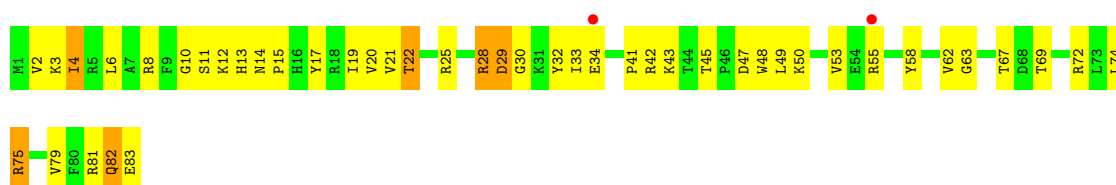
- Molecule 46: 30S ribosomal protein S16

Chain BP:



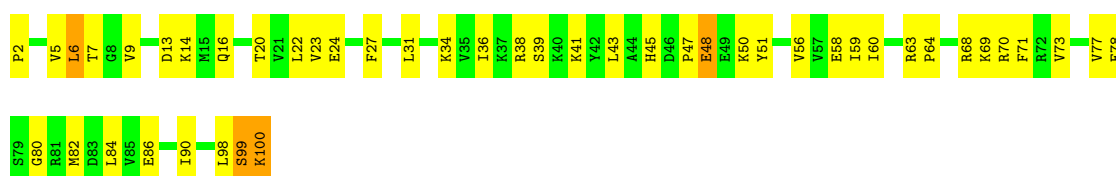
- Molecule 46: 30S ribosomal protein S16

Chain DP:



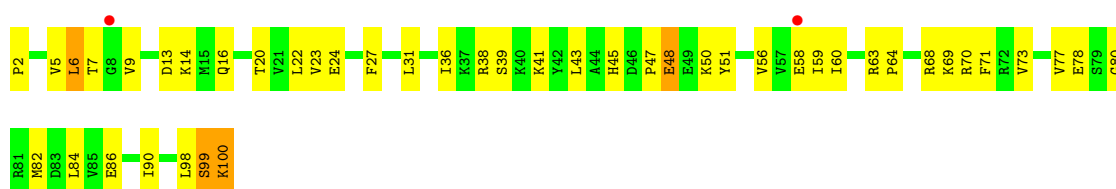
- Molecule 47: 30S ribosomal protein S17

Chain BQ:



- Molecule 47: 30S ribosomal protein S17

Chain DQ:

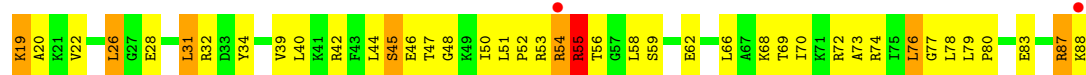


- Molecule 48: 30S ribosomal protein S18

Chain BR:

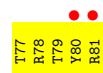
- Molecule 48: 30S ribosomal protein S18

Chain DR:



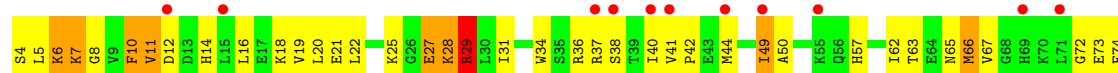
- Molecule 49: 30S ribosomal protein S19

Chain BS:



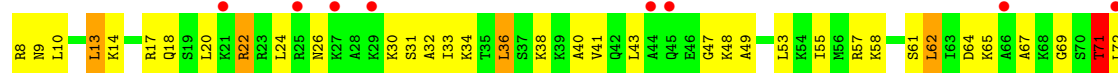
- Molecule 49: 30S ribosomal protein S19

Chain DS:



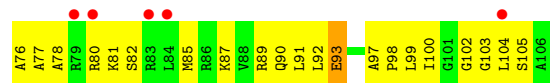
- Molecule 50: 30S ribosomal protein S20

Chain BT:



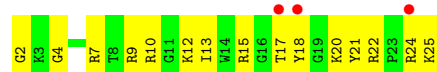
- Molecule 50: 30S ribosomal protein S20

Chain DT:



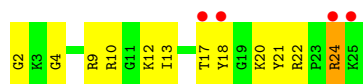
- Molecule 51: 30S ribosomal protein Thx

Chain BU:



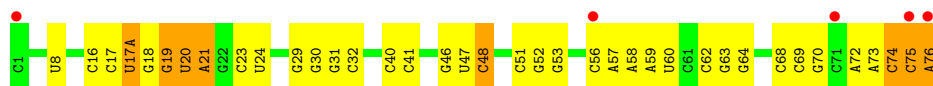
- Molecule 51: 30S ribosomal protein Thx

Chain DU:



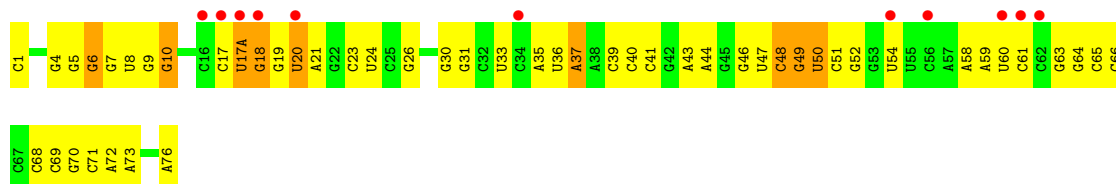
- Molecule 52: tRNA

Chain BV:



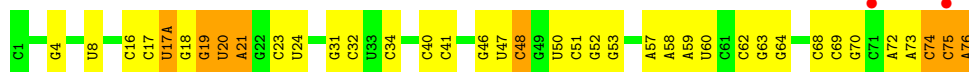
- Molecule 52: tRNA

Chain BW:



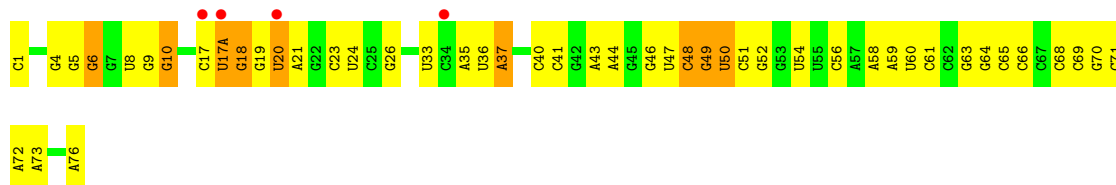
- Molecule 52: tRNA

Chain DV:



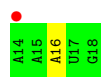
- Molecule 52: tRNA

Chain DW:



- Molecule 53: mRNA

Chain BX:



- Molecule 53: mRNA

Chain DX:



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 211.53Å 454.44Å 620.87Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 49.98 – 3.40 69.27 – 3.39 | Depositor EDS |
| % Data completeness (in resolution range) | 99.8 (49.98-3.40) 99.6 (69.27-3.39) | Depositor EDS |
| R_{merge} | (Not available) | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 1.64 (at 3.41Å) | Xtriage |
| Refinement program | PHENIX (phenix.refine: 1.6.4_486) | Depositor |
| R, R_{free} | 0.231 , 0.268 0.230 , 0.266 | Depositor DCC |
| R_{free} test set | 16214 reflections (2.00%) | DCC |
| Wilson B-factor (Å ²) | 82.8 | Xtriage |
| Anisotropy | 0.105 | Xtriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.30 , 59.3 | EDS |
| Estimated twinning fraction | No twinning to report. | Xtriage |
| L-test for twinning | $\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$ | Xtriage |
| Outliers | 3 of 812339 reflections (0.000%) | Xtriage |
| F_o, F_c correlation | 0.89 | EDS |
| Total number of atoms | 293113 | wwPDB-VP |
| Average B, all atoms (Å ²) | 94.0 | wwPDB-VP |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.61% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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 | 0.34 | 1/68308 (0.0%) | 0.64 | 11/106635 (0.0%) |
| 1 | CA | 0.38 | 1/68308 (0.0%) | 0.67 | 15/106635 (0.0%) |
| 2 | AB | 0.31 | 1/2857 (0.0%) | 0.52 | 0/4455 |
| 2 | CB | 0.32 | 1/2857 (0.0%) | 0.53 | 0/4455 |
| 3 | AD | 0.31 | 0/2155 | 0.52 | 0/2905 |
| 3 | CD | 0.33 | 0/2155 | 0.53 | 0/2905 |
| 4 | AE | 0.27 | 0/1597 | 0.49 | 0/2153 |
| 4 | CE | 0.28 | 0/1597 | 0.49 | 0/2153 |
| 5 | AF | 0.27 | 0/1622 | 0.47 | 0/2194 |
| 5 | CF | 0.28 | 0/1622 | 0.47 | 0/2194 |
| 6 | AG | 0.22 | 0/1500 | 0.41 | 0/2017 |
| 6 | CG | 0.23 | 0/1500 | 0.41 | 0/2017 |
| 7 | AH | 0.22 | 0/1246 | 0.43 | 0/1682 |
| 7 | CH | 0.24 | 0/1246 | 0.44 | 0/1682 |
| 8 | AI | 0.22 | 0/1148 | 0.42 | 0/1552 |
| 8 | CI | 0.24 | 0/1148 | 0.43 | 0/1552 |
| 9 | AJ | 0.26 | 0/1124 | 0.49 | 0/1515 |
| 9 | CJ | 0.29 | 0/1124 | 0.50 | 0/1515 |
| 10 | AK | 0.28 | 0/942 | 0.46 | 0/1268 |
| 10 | CK | 0.28 | 0/942 | 0.46 | 0/1268 |
| 11 | AL | 0.31 | 0/1131 | 0.61 | 0/1504 |
| 11 | CL | 0.33 | 0/1131 | 0.62 | 0/1504 |
| 12 | AM | 0.28 | 0/1085 | 0.49 | 0/1449 |
| 12 | CM | 0.29 | 0/1085 | 0.49 | 0/1449 |
| 13 | AN | 0.28 | 0/974 | 0.47 | 0/1302 |
| 13 | CN | 0.28 | 0/974 | 0.48 | 0/1302 |
| 14 | AO | 0.24 | 0/779 | 0.43 | 0/1036 |
| 14 | CO | 0.25 | 0/779 | 0.43 | 0/1036 |
| 15 | AP | 0.27 | 0/1158 | 0.45 | 0/1544 |
| 15 | CP | 0.27 | 0/1158 | 0.45 | 0/1544 |
| 16 | AQ | 0.28 | 0/982 | 0.44 | 0/1306 |
| 16 | CQ | 0.30 | 0/982 | 0.45 | 0/1306 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------|-------------|---------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 17 | AR | 0.29 | 0/790 | 0.51 | 0/1057 |
| 17 | CR | 0.31 | 0/790 | 0.52 | 0/1057 |
| 18 | AS | 0.28 | 0/902 | 0.46 | 0/1209 |
| 18 | CS | 0.30 | 0/902 | 0.47 | 0/1209 |
| 19 | AT | 0.29 | 0/740 | 0.46 | 0/993 |
| 19 | CT | 0.32 | 0/740 | 0.46 | 0/993 |
| 20 | AU | 0.30 | 0/789 | 0.46 | 0/1051 |
| 20 | CU | 0.31 | 0/789 | 0.47 | 0/1051 |
| 21 | AV | 0.22 | 0/1515 | 0.42 | 0/2056 |
| 21 | CV | 0.22 | 0/1515 | 0.42 | 0/2056 |
| 22 | AW | 0.28 | 0/613 | 0.47 | 0/816 |
| 22 | CW | 0.27 | 0/613 | 0.47 | 0/816 |
| 23 | AX | 0.32 | 0/702 | 0.56 | 0/932 |
| 23 | CX | 0.34 | 0/702 | 0.57 | 0/932 |
| 24 | AY | 0.27 | 0/523 | 0.49 | 0/690 |
| 24 | CY | 0.30 | 0/523 | 0.51 | 0/690 |
| 25 | AZ | 0.24 | 0/473 | 0.46 | 0/634 |
| 25 | CZ | 0.26 | 0/473 | 0.47 | 0/634 |
| 26 | A1 | 0.20 | 0/229 | 0.42 | 0/309 |
| 26 | C1 | 0.20 | 0/229 | 0.42 | 0/309 |
| 27 | A2 | 0.28 | 0/419 | 0.52 | 0/567 |
| 27 | C2 | 0.30 | 0/419 | 0.53 | 0/567 |
| 28 | A3 | 0.21 | 0/388 | 0.44 | 0/518 |
| 28 | C3 | 0.22 | 0/388 | 0.45 | 0/518 |
| 29 | A4 | 0.31 | 0/427 | 0.50 | 0/561 |
| 29 | C4 | 0.34 | 0/427 | 0.50 | 0/561 |
| 30 | A5 | 0.32 | 0/516 | 0.52 | 0/679 |
| 30 | C5 | 0.32 | 0/516 | 0.52 | 0/679 |
| 31 | BA | 0.28 | 1/36198 (0.0%) | 0.55 | 0/56497 |
| 31 | DA | 0.27 | 1/36198 (0.0%) | 0.55 | 0/56497 |
| 32 | BB | 0.22 | 0/1936 | 0.40 | 0/2609 |
| 32 | DB | 0.22 | 0/1936 | 0.40 | 0/2609 |
| 33 | BC | 0.22 | 0/1637 | 0.40 | 0/2205 |
| 33 | DC | 0.21 | 0/1637 | 0.40 | 0/2205 |
| 34 | BD | 0.27 | 0/1733 | 0.45 | 0/2318 |
| 34 | DD | 0.25 | 0/1733 | 0.42 | 0/2318 |
| 35 | BE | 0.24 | 0/1172 | 0.43 | 0/1576 |
| 35 | DE | 0.24 | 0/1172 | 0.42 | 0/1576 |
| 36 | BF | 0.24 | 0/856 | 0.43 | 0/1154 |
| 36 | DF | 0.25 | 0/856 | 0.44 | 0/1154 |
| 37 | BG | 0.22 | 0/1276 | 0.36 | 0/1709 |
| 37 | DG | 0.22 | 0/1276 | 0.37 | 0/1709 |
| 38 | BH | 0.23 | 0/1136 | 0.44 | 0/1527 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|-----------------|-------------|------------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 38 | DH | 0.23 | 0/1136 | 0.44 | 0/1527 |
| 39 | BI | 0.22 | 0/1029 | 0.39 | 0/1378 |
| 39 | DI | 0.22 | 0/1029 | 0.39 | 0/1378 |
| 40 | BJ | 0.21 | 0/808 | 0.41 | 0/1085 |
| 40 | DJ | 0.21 | 0/808 | 0.41 | 0/1085 |
| 41 | BK | 0.23 | 0/857 | 0.44 | 0/1157 |
| 41 | DK | 0.23 | 0/857 | 0.44 | 0/1157 |
| 42 | BL | 0.25 | 0/973 | 0.46 | 0/1301 |
| 42 | DL | 0.25 | 0/973 | 0.46 | 0/1301 |
| 43 | BM | 0.21 | 0/944 | 0.41 | 0/1265 |
| 43 | DM | 0.21 | 0/944 | 0.41 | 0/1265 |
| 44 | BN | 0.24 | 0/501 | 0.39 | 0/664 |
| 44 | DN | 0.23 | 0/501 | 0.42 | 0/664 |
| 45 | BO | 0.25 | 0/745 | 0.40 | 0/992 |
| 45 | DO | 0.25 | 0/745 | 0.40 | 0/992 |
| 46 | BP | 0.26 | 0/717 | 0.45 | 0/963 |
| 46 | DP | 0.23 | 0/717 | 0.45 | 0/963 |
| 47 | BQ | 0.25 | 0/837 | 0.42 | 0/1117 |
| 47 | DQ | 0.25 | 0/837 | 0.42 | 0/1117 |
| 48 | BR | 0.24 | 0/579 | 0.44 | 0/768 |
| 48 | DR | 0.25 | 0/579 | 0.44 | 0/768 |
| 49 | BS | 0.20 | 0/643 | 0.40 | 0/865 |
| 49 | DS | 0.20 | 0/643 | 0.40 | 0/865 |
| 50 | BT | 0.24 | 0/764 | 0.42 | 0/1006 |
| 50 | DT | 0.22 | 0/764 | 0.41 | 0/1006 |
| 51 | BU | 0.20 | 0/213 | 0.37 | 0/277 |
| 51 | DU | 0.20 | 0/213 | 0.37 | 0/277 |
| 52 | BV | 0.21 | 0/1832 | 0.48 | 0/2855 |
| 52 | BW | 0.17 | 0/1832 | 0.44 | 0/2855 |
| 52 | DV | 0.21 | 0/1832 | 0.49 | 0/2855 |
| 52 | DW | 0.17 | 0/1832 | 0.44 | 0/2855 |
| 53 | BX | 0.26 | 0/122 | 0.47 | 0/188 |
| 53 | DX | 0.29 | 0/122 | 0.48 | 0/188 |
| All | All | 0.31 | 6/313948 (0.0%) | 0.58 | 26/469840 (0.0%) |

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 13 | AN | 0 | 1 |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 13 | CN | 0 | 1 |
| All | All | 0 | 2 |

The worst 5 of 6 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|--------|-------------|----------|
| 31 | BA | 5 | U | OP3-P | -10.80 | 1.48 | 1.61 |
| 31 | DA | 5 | U | OP3-P | -10.71 | 1.48 | 1.61 |
| 2 | AB | 1 | U | OP3-P | -10.65 | 1.48 | 1.61 |
| 2 | CB | 1 | U | OP3-P | -10.63 | 1.48 | 1.61 |
| 1 | CA | 6 | A | OP3-P | -10.61 | 1.48 | 1.61 |

The worst 5 of 26 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-----------|-------|-------------|----------|
| 1 | AA | 1420 | U | C2-N1-C1' | 6.88 | 125.96 | 117.70 |
| 1 | CA | 1420 | U | C2-N1-C1' | 6.84 | 125.91 | 117.70 |
| 1 | CA | 1420 | U | C6-N1-C1' | -6.61 | 111.95 | 121.20 |
| 1 | AA | 1420 | U | C6-N1-C1' | -6.57 | 112.00 | 121.20 |
| 1 | CA | 2593 | U | N3-C4-C5 | -6.13 | 110.92 | 114.60 |

There are no chirality outliers.

All (2) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 13 | AN | 10 | LEU | Peptide |
| 13 | CN | 10 | LEU | Peptide |

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | AA | 60991 | 0 | 30744 | 1335 | 0 |
| 1 | CA | 60991 | 0 | 30744 | 1337 | 0 |
| 2 | AB | 2555 | 0 | 1294 | 52 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 2 | CB | 2555 | 0 | 1294 | 59 | 0 |
| 3 | AD | 2105 | 0 | 2182 | 184 | 0 |
| 3 | CD | 2105 | 0 | 2182 | 187 | 0 |
| 4 | AE | 1564 | 0 | 1629 | 103 | 0 |
| 4 | CE | 1564 | 0 | 1629 | 115 | 0 |
| 5 | AF | 1587 | 0 | 1632 | 102 | 0 |
| 5 | CF | 1587 | 0 | 1632 | 102 | 0 |
| 6 | AG | 1475 | 0 | 1537 | 127 | 0 |
| 6 | CG | 1475 | 0 | 1537 | 127 | 0 |
| 7 | AH | 1223 | 0 | 1282 | 65 | 0 |
| 7 | CH | 1223 | 0 | 1282 | 65 | 0 |
| 8 | AI | 1133 | 0 | 1220 | 75 | 0 |
| 8 | CI | 1133 | 0 | 1220 | 87 | 0 |
| 9 | AJ | 1097 | 0 | 1168 | 80 | 0 |
| 9 | CJ | 1097 | 0 | 1168 | 82 | 0 |
| 10 | AK | 932 | 0 | 994 | 50 | 0 |
| 10 | CK | 932 | 0 | 994 | 48 | 0 |
| 11 | AL | 1114 | 0 | 1187 | 196 | 0 |
| 11 | CL | 1114 | 0 | 1187 | 203 | 0 |
| 12 | AM | 1065 | 0 | 1114 | 93 | 0 |
| 12 | CM | 1065 | 0 | 1114 | 97 | 0 |
| 13 | AN | 960 | 0 | 1021 | 81 | 0 |
| 13 | CN | 960 | 0 | 1021 | 76 | 0 |
| 14 | AO | 771 | 0 | 832 | 62 | 0 |
| 14 | CO | 771 | 0 | 832 | 66 | 0 |
| 15 | AP | 1144 | 0 | 1211 | 75 | 0 |
| 15 | CP | 1144 | 0 | 1211 | 91 | 0 |
| 16 | AQ | 964 | 0 | 1022 | 77 | 0 |
| 16 | CQ | 964 | 0 | 1022 | 79 | 0 |
| 17 | AR | 779 | 0 | 852 | 79 | 0 |
| 17 | CR | 779 | 0 | 852 | 82 | 0 |
| 18 | AS | 891 | 0 | 951 | 50 | 0 |
| 18 | CS | 891 | 0 | 951 | 58 | 0 |
| 19 | AT | 726 | 0 | 778 | 60 | 0 |
| 19 | CT | 726 | 0 | 778 | 59 | 0 |
| 20 | AU | 776 | 0 | 870 | 94 | 0 |
| 20 | CU | 776 | 0 | 870 | 93 | 0 |
| 21 | AV | 1483 | 0 | 1507 | 88 | 0 |
| 21 | CV | 1483 | 0 | 1507 | 92 | 0 |
| 22 | AW | 605 | 0 | 628 | 28 | 0 |
| 22 | CW | 605 | 0 | 628 | 27 | 0 |
| 23 | AX | 695 | 0 | 764 | 85 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 23 | CX | 695 | 0 | 764 | 88 | 0 |
| 24 | AY | 521 | 0 | 575 | 62 | 0 |
| 24 | CY | 521 | 0 | 575 | 67 | 0 |
| 25 | AZ | 468 | 0 | 523 | 23 | 0 |
| 25 | CZ | 468 | 0 | 523 | 25 | 0 |
| 26 | A1 | 226 | 0 | 225 | 22 | 0 |
| 26 | C1 | 226 | 0 | 225 | 22 | 0 |
| 27 | A2 | 405 | 0 | 420 | 43 | 0 |
| 27 | C2 | 405 | 0 | 420 | 44 | 0 |
| 28 | A3 | 381 | 0 | 391 | 33 | 0 |
| 28 | C3 | 381 | 0 | 391 | 34 | 0 |
| 29 | A4 | 419 | 0 | 467 | 29 | 0 |
| 29 | C4 | 419 | 0 | 467 | 29 | 0 |
| 30 | A5 | 508 | 0 | 576 | 64 | 0 |
| 30 | C5 | 508 | 0 | 576 | 64 | 0 |
| 31 | BA | 32336 | 0 | 16317 | 778 | 0 |
| 31 | DA | 32336 | 0 | 16317 | 795 | 0 |
| 32 | BB | 1901 | 0 | 1951 | 125 | 0 |
| 32 | DB | 1901 | 0 | 1951 | 124 | 0 |
| 33 | BC | 1613 | 0 | 1677 | 117 | 0 |
| 33 | DC | 1613 | 0 | 1677 | 112 | 0 |
| 34 | BD | 1703 | 0 | 1764 | 135 | 0 |
| 34 | DD | 1703 | 0 | 1764 | 168 | 0 |
| 35 | BE | 1156 | 0 | 1213 | 73 | 0 |
| 35 | DE | 1156 | 0 | 1213 | 78 | 0 |
| 36 | BF | 843 | 0 | 857 | 62 | 0 |
| 36 | DF | 843 | 0 | 857 | 64 | 0 |
| 37 | BG | 1257 | 0 | 1296 | 52 | 0 |
| 37 | DG | 1257 | 0 | 1296 | 53 | 0 |
| 38 | BH | 1116 | 0 | 1177 | 67 | 0 |
| 38 | DH | 1116 | 0 | 1177 | 65 | 0 |
| 39 | BI | 1011 | 0 | 1043 | 95 | 0 |
| 39 | DI | 1011 | 0 | 1043 | 93 | 0 |
| 40 | BJ | 795 | 0 | 840 | 62 | 0 |
| 40 | DJ | 795 | 0 | 840 | 65 | 0 |
| 41 | BK | 843 | 0 | 859 | 54 | 0 |
| 41 | DK | 843 | 0 | 859 | 58 | 0 |
| 42 | BL | 957 | 0 | 1046 | 68 | 0 |
| 42 | DL | 957 | 0 | 1046 | 67 | 0 |
| 43 | BM | 934 | 0 | 992 | 76 | 0 |
| 43 | DM | 934 | 0 | 992 | 79 | 0 |
| 44 | BN | 492 | 0 | 531 | 46 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 44 | DN | 492 | 0 | 531 | 36 | 0 |
| 45 | BO | 734 | 0 | 771 | 45 | 0 |
| 45 | DO | 734 | 0 | 771 | 42 | 0 |
| 46 | BP | 701 | 0 | 720 | 51 | 0 |
| 46 | DP | 701 | 0 | 720 | 54 | 0 |
| 47 | BQ | 824 | 0 | 893 | 42 | 0 |
| 47 | DQ | 824 | 0 | 893 | 42 | 0 |
| 48 | BR | 574 | 0 | 644 | 47 | 0 |
| 48 | DR | 574 | 0 | 644 | 47 | 0 |
| 49 | BS | 630 | 0 | 652 | 57 | 0 |
| 49 | DS | 630 | 0 | 652 | 56 | 0 |
| 50 | BT | 762 | 0 | 859 | 45 | 0 |
| 50 | DT | 762 | 0 | 859 | 46 | 0 |
| 51 | BU | 209 | 0 | 221 | 19 | 0 |
| 51 | DU | 209 | 0 | 221 | 14 | 0 |
| 52 | BV | 1640 | 0 | 837 | 41 | 0 |
| 52 | BW | 1640 | 0 | 837 | 52 | 0 |
| 52 | DV | 1640 | 0 | 837 | 40 | 0 |
| 52 | DW | 1640 | 0 | 837 | 46 | 0 |
| 53 | BX | 109 | 0 | 55 | 0 | 0 |
| 53 | DX | 109 | 0 | 55 | 1 | 0 |
| 54 | AA | 30 | 0 | 24 | 6 | 0 |
| 54 | CA | 30 | 0 | 24 | 6 | 0 |
| 55 | A3 | 3 | 0 | 0 | 0 | 0 |
| 55 | A4 | 5 | 0 | 0 | 0 | 0 |
| 55 | A5 | 2 | 0 | 0 | 0 | 0 |
| 55 | AA | 1296 | 0 | 0 | 0 | 0 |
| 55 | AB | 50 | 0 | 0 | 0 | 0 |
| 55 | AD | 4 | 0 | 0 | 0 | 0 |
| 55 | AE | 4 | 0 | 0 | 0 | 0 |
| 55 | AF | 6 | 0 | 0 | 0 | 0 |
| 55 | AG | 2 | 0 | 0 | 0 | 0 |
| 55 | AJ | 1 | 0 | 0 | 0 | 0 |
| 55 | AK | 2 | 0 | 0 | 0 | 0 |
| 55 | AL | 2 | 0 | 0 | 0 | 0 |
| 55 | AM | 3 | 0 | 0 | 0 | 0 |
| 55 | AN | 4 | 0 | 0 | 0 | 0 |
| 55 | AO | 1 | 0 | 0 | 0 | 0 |
| 55 | AP | 2 | 0 | 0 | 0 | 0 |
| 55 | AR | 5 | 0 | 0 | 0 | 0 |
| 55 | AS | 6 | 0 | 0 | 0 | 0 |
| 55 | AV | 2 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 55 | AX | 6 | 0 | 0 | 0 | 0 |
| 55 | AY | 1 | 0 | 0 | 0 | 0 |
| 55 | BA | 570 | 0 | 0 | 0 | 0 |
| 55 | BB | 2 | 0 | 0 | 0 | 0 |
| 55 | BC | 3 | 0 | 0 | 0 | 0 |
| 55 | BE | 5 | 0 | 0 | 0 | 0 |
| 55 | BG | 2 | 0 | 0 | 0 | 0 |
| 55 | BH | 1 | 0 | 0 | 0 | 0 |
| 55 | BI | 2 | 0 | 0 | 0 | 0 |
| 55 | BL | 2 | 0 | 0 | 0 | 0 |
| 55 | BO | 1 | 0 | 0 | 0 | 0 |
| 55 | BP | 1 | 0 | 0 | 0 | 0 |
| 55 | BQ | 2 | 0 | 0 | 0 | 0 |
| 55 | BR | 1 | 0 | 0 | 0 | 0 |
| 55 | BT | 1 | 0 | 0 | 0 | 0 |
| 55 | BU | 1 | 0 | 0 | 0 | 0 |
| 55 | BV | 30 | 0 | 0 | 0 | 0 |
| 55 | BW | 19 | 0 | 0 | 0 | 0 |
| 55 | C2 | 2 | 0 | 0 | 0 | 0 |
| 55 | C3 | 2 | 0 | 0 | 0 | 0 |
| 55 | C4 | 4 | 0 | 0 | 0 | 0 |
| 55 | C5 | 3 | 0 | 0 | 0 | 0 |
| 55 | CA | 1504 | 0 | 0 | 0 | 0 |
| 55 | CB | 65 | 0 | 0 | 0 | 0 |
| 55 | CD | 6 | 0 | 0 | 0 | 0 |
| 55 | CE | 6 | 0 | 0 | 0 | 0 |
| 55 | CF | 7 | 0 | 0 | 0 | 0 |
| 55 | CG | 1 | 0 | 0 | 0 | 0 |
| 55 | CI | 1 | 0 | 0 | 0 | 0 |
| 55 | CJ | 2 | 0 | 0 | 0 | 0 |
| 55 | CK | 2 | 0 | 0 | 0 | 0 |
| 55 | CL | 7 | 0 | 0 | 0 | 0 |
| 55 | CN | 3 | 0 | 0 | 0 | 0 |
| 55 | CO | 1 | 0 | 0 | 0 | 0 |
| 55 | CP | 1 | 0 | 0 | 0 | 0 |
| 55 | CQ | 5 | 0 | 0 | 0 | 0 |
| 55 | CR | 2 | 0 | 0 | 0 | 0 |
| 55 | CS | 4 | 0 | 0 | 0 | 0 |
| 55 | CT | 1 | 0 | 0 | 0 | 0 |
| 55 | CV | 4 | 0 | 0 | 0 | 0 |
| 55 | CW | 4 | 0 | 0 | 0 | 0 |
| 55 | CX | 3 | 0 | 0 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 55 | CY | 2 | 0 | 0 | 0 | 0 |
| 55 | DA | 604 | 0 | 0 | 0 | 0 |
| 55 | DD | 2 | 0 | 0 | 0 | 0 |
| 55 | DE | 2 | 0 | 0 | 0 | 0 |
| 55 | DG | 1 | 0 | 0 | 0 | 0 |
| 55 | DH | 3 | 0 | 0 | 0 | 0 |
| 55 | DI | 1 | 0 | 0 | 0 | 0 |
| 55 | DJ | 1 | 0 | 0 | 0 | 0 |
| 55 | DK | 1 | 0 | 0 | 0 | 0 |
| 55 | DL | 2 | 0 | 0 | 0 | 0 |
| 55 | DM | 1 | 0 | 0 | 0 | 0 |
| 55 | DO | 2 | 0 | 0 | 0 | 0 |
| 55 | DQ | 1 | 0 | 0 | 0 | 0 |
| 55 | DR | 2 | 0 | 0 | 0 | 0 |
| 55 | DT | 1 | 0 | 0 | 0 | 0 |
| 55 | DV | 24 | 0 | 0 | 0 | 0 |
| 55 | DW | 22 | 0 | 0 | 0 | 0 |
| 55 | DX | 1 | 0 | 0 | 0 | 0 |
| 56 | BD | 1 | 0 | 0 | 0 | 0 |
| 56 | BN | 1 | 0 | 0 | 0 | 0 |
| 56 | DD | 1 | 0 | 0 | 0 | 0 |
| 56 | DN | 1 | 0 | 0 | 0 | 0 |
| All | All | 293113 | 0 | 195344 | 10300 | 0 |

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 21.

The worst 5 of 10300 close contacts within the same asymmetric unit are listed below.

| Atom-1 | Atom-2 | Distance(Å) | Clash(Å) |
|-----------------|------------------|-------------|----------|
| 1:AA:1541:U:H3' | 1:AA:1542:G:H3' | 1.16 | 1.16 |
| 1:CA:2502:G:H5' | 1:CA:2503:A:H5'' | 1.29 | 1.14 |
| 1:AA:2502:G:H5' | 1:AA:2503:A:H5'' | 1.28 | 1.14 |
| 1:CA:1541:U:H3' | 1:CA:1542:G:H3' | 1.16 | 1.12 |
| 1:CA:2303:G:H2' | 1:CA:2304:G:H5'' | 1.33 | 1.10 |

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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

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

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|----|
| 3 | AD | 269/271 (99%) | 220 (82%) | 35 (13%) | 14 (5%) | 3 | 32 |
| 3 | CD | 269/271 (99%) | 220 (82%) | 35 (13%) | 14 (5%) | 3 | 32 |
| 4 | AE | 202/204 (99%) | 164 (81%) | 27 (13%) | 11 (5%) | 3 | 31 |
| 4 | CE | 202/204 (99%) | 164 (81%) | 27 (13%) | 11 (5%) | 3 | 31 |
| 5 | AF | 200/202 (99%) | 168 (84%) | 24 (12%) | 8 (4%) | 5 | 43 |
| 5 | CF | 200/202 (99%) | 167 (84%) | 25 (12%) | 8 (4%) | 5 | 43 |
| 6 | AG | 179/181 (99%) | 128 (72%) | 38 (21%) | 13 (7%) | 2 | 22 |
| 6 | CG | 179/181 (99%) | 129 (72%) | 36 (20%) | 14 (8%) | 1 | 20 |
| 7 | AH | 157/159 (99%) | 122 (78%) | 29 (18%) | 6 (4%) | 5 | 45 |
| 7 | CH | 157/159 (99%) | 122 (78%) | 29 (18%) | 6 (4%) | 5 | 45 |
| 8 | AI | 143/145 (99%) | 120 (84%) | 22 (15%) | 1 (1%) | 30 | 83 |
| 8 | CI | 143/145 (99%) | 121 (85%) | 21 (15%) | 1 (1%) | 30 | 83 |
| 9 | AJ | 135/137 (98%) | 104 (77%) | 21 (16%) | 10 (7%) | 2 | 22 |
| 9 | CJ | 135/137 (98%) | 104 (77%) | 21 (16%) | 10 (7%) | 2 | 22 |
| 10 | AK | 120/122 (98%) | 107 (89%) | 10 (8%) | 3 (2%) | 9 | 57 |
| 10 | CK | 120/122 (98%) | 107 (89%) | 9 (8%) | 4 (3%) | 6 | 50 |
| 11 | AL | 144/146 (99%) | 89 (62%) | 35 (24%) | 20 (14%) | 0 | 6 |
| 11 | CL | 144/146 (99%) | 89 (62%) | 34 (24%) | 21 (15%) | 0 | 5 |
| 12 | AM | 132/134 (98%) | 96 (73%) | 21 (16%) | 15 (11%) | 1 | 9 |
| 12 | CM | 132/134 (98%) | 96 (73%) | 22 (17%) | 14 (11%) | 1 | 11 |
| 13 | AN | 115/117 (98%) | 92 (80%) | 15 (13%) | 8 (7%) | 2 | 23 |
| 13 | CN | 115/117 (98%) | 92 (80%) | 15 (13%) | 8 (7%) | 2 | 23 |
| 14 | AO | 96/98 (98%) | 65 (68%) | 23 (24%) | 8 (8%) | 1 | 18 |
| 14 | CO | 96/98 (98%) | 65 (68%) | 22 (23%) | 9 (9%) | 1 | 14 |
| 15 | AP | 135/137 (98%) | 105 (78%) | 22 (16%) | 8 (6%) | 2 | 29 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 15 | CP | 135/137 (98%) | 104 (77%) | 23 (17%) | 8 (6%) | 2 | 29 |
| 16 | AQ | 115/117 (98%) | 102 (89%) | 10 (9%) | 3 (3%) | 8 | 56 |
| 16 | CQ | 115/117 (98%) | 102 (89%) | 10 (9%) | 3 (3%) | 8 | 56 |
| 17 | AR | 99/101 (98%) | 79 (80%) | 16 (16%) | 4 (4%) | 5 | 43 |
| 17 | CR | 99/101 (98%) | 78 (79%) | 17 (17%) | 4 (4%) | 5 | 43 |
| 18 | AS | 110/112 (98%) | 102 (93%) | 8 (7%) | 0 | 100 | 100 |
| 18 | CS | 110/112 (98%) | 99 (90%) | 11 (10%) | 0 | 100 | 100 |
| 19 | AT | 90/92 (98%) | 76 (84%) | 12 (13%) | 2 (2%) | 10 | 60 |
| 19 | CT | 90/92 (98%) | 75 (83%) | 13 (14%) | 2 (2%) | 10 | 60 |
| 20 | AU | 98/100 (98%) | 63 (64%) | 23 (24%) | 12 (12%) | 1 | 8 |
| 20 | CU | 98/100 (98%) | 65 (66%) | 21 (21%) | 12 (12%) | 1 | 8 |
| 21 | AV | 185/187 (99%) | 159 (86%) | 19 (10%) | 7 (4%) | 5 | 45 |
| 21 | CV | 185/187 (99%) | 159 (86%) | 19 (10%) | 7 (4%) | 5 | 45 |
| 22 | AW | 74/76 (97%) | 59 (80%) | 13 (18%) | 2 (3%) | 8 | 55 |
| 22 | CW | 74/76 (97%) | 59 (80%) | 13 (18%) | 2 (3%) | 8 | 55 |
| 23 | AX | 86/88 (98%) | 56 (65%) | 19 (22%) | 11 (13%) | 0 | 7 |
| 23 | CX | 86/88 (98%) | 56 (65%) | 19 (22%) | 11 (13%) | 0 | 7 |
| 24 | AY | 60/62 (97%) | 47 (78%) | 8 (13%) | 5 (8%) | 1 | 18 |
| 24 | CY | 60/62 (97%) | 47 (78%) | 8 (13%) | 5 (8%) | 1 | 18 |
| 25 | AZ | 57/59 (97%) | 52 (91%) | 4 (7%) | 1 (2%) | 13 | 65 |
| 25 | CZ | 57/59 (97%) | 52 (91%) | 4 (7%) | 1 (2%) | 13 | 65 |
| 26 | A1 | 28/30 (93%) | 13 (46%) | 13 (46%) | 2 (7%) | 2 | 23 |
| 26 | C1 | 28/30 (93%) | 13 (46%) | 13 (46%) | 2 (7%) | 2 | 23 |
| 27 | A2 | 50/52 (96%) | 45 (90%) | 3 (6%) | 2 (4%) | 5 | 43 |
| 27 | C2 | 50/52 (96%) | 45 (90%) | 3 (6%) | 2 (4%) | 5 | 43 |
| 28 | A3 | 42/44 (96%) | 26 (62%) | 12 (29%) | 4 (10%) | 1 | 14 |
| 28 | C3 | 42/44 (96%) | 26 (62%) | 12 (29%) | 4 (10%) | 1 | 14 |
| 29 | A4 | 46/48 (96%) | 44 (96%) | 1 (2%) | 1 (2%) | 10 | 60 |
| 29 | C4 | 46/48 (96%) | 44 (96%) | 1 (2%) | 1 (2%) | 10 | 60 |
| 30 | A5 | 61/63 (97%) | 46 (75%) | 9 (15%) | 6 (10%) | 1 | 13 |
| 30 | C5 | 61/63 (97%) | 46 (75%) | 9 (15%) | 6 (10%) | 1 | 13 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|----------|-------------|----|
| 32 | BB | 232/234 (99%) | 183 (79%) | 36 (16%) | 13 (6%) | 3 | 30 |
| 32 | DB | 232/234 (99%) | 183 (79%) | 36 (16%) | 13 (6%) | 3 | 30 |
| 33 | BC | 204/206 (99%) | 159 (78%) | 28 (14%) | 17 (8%) | 1 | 18 |
| 33 | DC | 204/206 (99%) | 158 (78%) | 28 (14%) | 18 (9%) | 1 | 16 |
| 34 | BD | 206/208 (99%) | 161 (78%) | 34 (16%) | 11 (5%) | 3 | 32 |
| 34 | DD | 206/208 (99%) | 161 (78%) | 34 (16%) | 11 (5%) | 3 | 32 |
| 35 | BE | 149/151 (99%) | 120 (80%) | 26 (17%) | 3 (2%) | 11 | 62 |
| 35 | DE | 149/151 (99%) | 120 (80%) | 25 (17%) | 4 (3%) | 8 | 55 |
| 36 | BF | 99/101 (98%) | 88 (89%) | 10 (10%) | 1 (1%) | 22 | 78 |
| 36 | DF | 99/101 (98%) | 89 (90%) | 9 (9%) | 1 (1%) | 22 | 78 |
| 37 | BG | 153/155 (99%) | 131 (86%) | 17 (11%) | 5 (3%) | 6 | 50 |
| 37 | DG | 153/155 (99%) | 131 (86%) | 15 (10%) | 7 (5%) | 4 | 37 |
| 38 | BH | 136/138 (99%) | 114 (84%) | 20 (15%) | 2 (2%) | 15 | 68 |
| 38 | DH | 136/138 (99%) | 113 (83%) | 21 (15%) | 2 (2%) | 15 | 68 |
| 39 | BI | 125/127 (98%) | 92 (74%) | 25 (20%) | 8 (6%) | 2 | 26 |
| 39 | DI | 125/127 (98%) | 92 (74%) | 25 (20%) | 8 (6%) | 2 | 26 |
| 40 | BJ | 96/98 (98%) | 80 (83%) | 11 (12%) | 5 (5%) | 3 | 32 |
| 40 | DJ | 96/98 (98%) | 80 (83%) | 11 (12%) | 5 (5%) | 3 | 32 |
| 41 | BK | 112/114 (98%) | 93 (83%) | 15 (13%) | 4 (4%) | 5 | 47 |
| 41 | DK | 112/114 (98%) | 94 (84%) | 14 (12%) | 4 (4%) | 5 | 47 |
| 42 | BL | 120/122 (98%) | 94 (78%) | 22 (18%) | 4 (3%) | 6 | 50 |
| 42 | DL | 120/122 (98%) | 93 (78%) | 23 (19%) | 4 (3%) | 6 | 50 |
| 43 | BM | 115/117 (98%) | 97 (84%) | 15 (13%) | 3 (3%) | 8 | 56 |
| 43 | DM | 115/117 (98%) | 97 (84%) | 15 (13%) | 3 (3%) | 8 | 56 |
| 44 | BN | 58/60 (97%) | 47 (81%) | 8 (14%) | 3 (5%) | 3 | 32 |
| 44 | DN | 58/60 (97%) | 43 (74%) | 12 (21%) | 3 (5%) | 3 | 32 |
| 45 | BO | 86/88 (98%) | 75 (87%) | 9 (10%) | 2 (2%) | 10 | 59 |
| 45 | DO | 86/88 (98%) | 74 (86%) | 10 (12%) | 2 (2%) | 10 | 59 |
| 46 | BP | 81/83 (98%) | 65 (80%) | 13 (16%) | 3 (4%) | 5 | 46 |
| 46 | DP | 81/83 (98%) | 66 (82%) | 12 (15%) | 3 (4%) | 5 | 46 |
| 47 | BQ | 97/99 (98%) | 82 (84%) | 12 (12%) | 3 (3%) | 7 | 52 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-------------------|------------|------------|----------|-------------|----|
| 47 | DQ | 97/99 (98%) | 80 (82%) | 14 (14%) | 3 (3%) | 7 | 52 |
| 48 | BR | 68/70 (97%) | 55 (81%) | 8 (12%) | 5 (7%) | 2 | 22 |
| 48 | DR | 68/70 (97%) | 55 (81%) | 8 (12%) | 5 (7%) | 2 | 22 |
| 49 | BS | 76/78 (97%) | 57 (75%) | 12 (16%) | 7 (9%) | 1 | 15 |
| 49 | DS | 76/78 (97%) | 58 (76%) | 11 (14%) | 7 (9%) | 1 | 15 |
| 50 | BT | 97/99 (98%) | 75 (77%) | 16 (16%) | 6 (6%) | 2 | 27 |
| 50 | DT | 97/99 (98%) | 75 (77%) | 16 (16%) | 6 (6%) | 2 | 27 |
| 51 | BU | 22/24 (92%) | 16 (73%) | 5 (23%) | 1 (4%) | 4 | 38 |
| 51 | DU | 22/24 (92%) | 16 (73%) | 5 (23%) | 1 (4%) | 4 | 38 |
| All | All | 11120/11312 (98%) | 8857 (80%) | 1670 (15%) | 593 (5%) | 3 | 32 |

5 of 593 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 3 | AD | 33 | LEU |
| 3 | AD | 40 | THR |
| 3 | AD | 59 | LYS |
| 3 | AD | 239 | ARG |
| 4 | AE | 86 | PRO |

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 3 | AD | 213/213 (100%) | 187 (88%) | 26 (12%) | 7 | 34 |
| 3 | CD | 213/213 (100%) | 188 (88%) | 25 (12%) | 8 | 37 |
| 4 | AE | 165/165 (100%) | 147 (89%) | 18 (11%) | 9 | 42 |
| 4 | CE | 165/165 (100%) | 147 (89%) | 18 (11%) | 9 | 42 |
| 5 | AF | 161/161 (100%) | 143 (89%) | 18 (11%) | 9 | 39 |
| 5 | CF | 161/161 (100%) | 143 (89%) | 18 (11%) | 9 | 39 |
| 6 | AG | 155/155 (100%) | 138 (89%) | 17 (11%) | 9 | 41 |
| 6 | CG | 155/155 (100%) | 137 (88%) | 18 (12%) | 8 | 37 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 7 | AH | 132/132 (100%) | 119 (90%) | 13 (10%) | 12 | 48 |
| 7 | CH | 132/132 (100%) | 119 (90%) | 13 (10%) | 12 | 48 |
| 8 | AI | 122/122 (100%) | 107 (88%) | 15 (12%) | 7 | 34 |
| 8 | CI | 122/122 (100%) | 107 (88%) | 15 (12%) | 7 | 34 |
| 9 | AJ | 116/116 (100%) | 103 (89%) | 13 (11%) | 9 | 39 |
| 9 | CJ | 116/116 (100%) | 102 (88%) | 14 (12%) | 7 | 35 |
| 10 | AK | 100/100 (100%) | 91 (91%) | 9 (9%) | 14 | 54 |
| 10 | CK | 100/100 (100%) | 91 (91%) | 9 (9%) | 14 | 54 |
| 11 | AL | 112/112 (100%) | 86 (77%) | 26 (23%) | 1 | 6 |
| 11 | CL | 112/112 (100%) | 86 (77%) | 26 (23%) | 1 | 6 |
| 12 | AM | 105/105 (100%) | 92 (88%) | 13 (12%) | 7 | 34 |
| 12 | CM | 105/105 (100%) | 92 (88%) | 13 (12%) | 7 | 34 |
| 13 | AN | 100/100 (100%) | 86 (86%) | 14 (14%) | 5 | 28 |
| 13 | CN | 100/100 (100%) | 86 (86%) | 14 (14%) | 5 | 28 |
| 14 | AO | 77/77 (100%) | 64 (83%) | 13 (17%) | 3 | 18 |
| 14 | CO | 77/77 (100%) | 64 (83%) | 13 (17%) | 3 | 18 |
| 15 | AP | 121/121 (100%) | 102 (84%) | 19 (16%) | 4 | 23 |
| 15 | CP | 121/121 (100%) | 102 (84%) | 19 (16%) | 4 | 23 |
| 16 | AQ | 93/93 (100%) | 84 (90%) | 9 (10%) | 12 | 49 |
| 16 | CQ | 93/93 (100%) | 85 (91%) | 8 (9%) | 15 | 57 |
| 17 | AR | 82/82 (100%) | 67 (82%) | 15 (18%) | 2 | 13 |
| 17 | CR | 82/82 (100%) | 66 (80%) | 16 (20%) | 2 | 10 |
| 18 | AS | 91/91 (100%) | 82 (90%) | 9 (10%) | 11 | 47 |
| 18 | CS | 91/91 (100%) | 81 (89%) | 10 (11%) | 9 | 41 |
| 19 | AT | 74/74 (100%) | 66 (89%) | 8 (11%) | 9 | 42 |
| 19 | CT | 74/74 (100%) | 66 (89%) | 8 (11%) | 9 | 42 |
| 20 | AU | 84/84 (100%) | 70 (83%) | 14 (17%) | 3 | 19 |
| 20 | CU | 84/84 (100%) | 70 (83%) | 14 (17%) | 3 | 19 |
| 21 | AV | 162/162 (100%) | 152 (94%) | 10 (6%) | 26 | 72 |
| 21 | CV | 162/162 (100%) | 152 (94%) | 10 (6%) | 26 | 72 |
| 22 | AW | 61/61 (100%) | 55 (90%) | 6 (10%) | 12 | 48 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|----------------|-----------|----------|-------------|----|
| 22 | CW | 61/61 (100%) | 55 (90%) | 6 (10%) | 12 | 48 |
| 23 | AX | 73/73 (100%) | 65 (89%) | 8 (11%) | 9 | 41 |
| 23 | CX | 73/73 (100%) | 64 (88%) | 9 (12%) | 7 | 34 |
| 24 | AY | 58/58 (100%) | 51 (88%) | 7 (12%) | 7 | 35 |
| 24 | CY | 58/58 (100%) | 51 (88%) | 7 (12%) | 7 | 35 |
| 25 | AZ | 51/51 (100%) | 45 (88%) | 6 (12%) | 8 | 36 |
| 25 | CZ | 51/51 (100%) | 45 (88%) | 6 (12%) | 8 | 36 |
| 26 | A1 | 27/27 (100%) | 24 (89%) | 3 (11%) | 9 | 40 |
| 26 | C1 | 27/27 (100%) | 24 (89%) | 3 (11%) | 9 | 40 |
| 27 | A2 | 45/45 (100%) | 40 (89%) | 5 (11%) | 9 | 40 |
| 27 | C2 | 45/45 (100%) | 40 (89%) | 5 (11%) | 9 | 40 |
| 28 | A3 | 43/43 (100%) | 40 (93%) | 3 (7%) | 21 | 68 |
| 28 | C3 | 43/43 (100%) | 40 (93%) | 3 (7%) | 21 | 68 |
| 29 | A4 | 41/41 (100%) | 33 (80%) | 8 (20%) | 2 | 10 |
| 29 | C4 | 41/41 (100%) | 33 (80%) | 8 (20%) | 2 | 10 |
| 30 | A5 | 53/53 (100%) | 49 (92%) | 4 (8%) | 19 | 64 |
| 30 | C5 | 53/53 (100%) | 49 (92%) | 4 (8%) | 19 | 64 |
| 32 | BB | 202/202 (100%) | 184 (91%) | 18 (9%) | 14 | 55 |
| 32 | DB | 202/202 (100%) | 184 (91%) | 18 (9%) | 14 | 55 |
| 33 | BC | 160/160 (100%) | 144 (90%) | 16 (10%) | 11 | 47 |
| 33 | DC | 160/160 (100%) | 144 (90%) | 16 (10%) | 11 | 47 |
| 34 | BD | 180/180 (100%) | 156 (87%) | 24 (13%) | 6 | 30 |
| 34 | DD | 180/180 (100%) | 159 (88%) | 21 (12%) | 8 | 37 |
| 35 | BE | 116/116 (100%) | 103 (89%) | 13 (11%) | 9 | 39 |
| 35 | DE | 116/116 (100%) | 104 (90%) | 12 (10%) | 10 | 45 |
| 36 | BF | 90/90 (100%) | 78 (87%) | 12 (13%) | 6 | 30 |
| 36 | DF | 90/90 (100%) | 78 (87%) | 12 (13%) | 6 | 30 |
| 37 | BG | 126/126 (100%) | 120 (95%) | 6 (5%) | 35 | 80 |
| 37 | DG | 126/126 (100%) | 120 (95%) | 6 (5%) | 35 | 80 |
| 38 | BH | 119/119 (100%) | 105 (88%) | 14 (12%) | 8 | 36 |
| 38 | DH | 119/119 (100%) | 105 (88%) | 14 (12%) | 8 | 36 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|------------------|------------|------------|-------------|-----|
| 39 | BI | 98/98 (100%) | 87 (89%) | 11 (11%) | 9 | 39 |
| 39 | DI | 98/98 (100%) | 87 (89%) | 11 (11%) | 9 | 39 |
| 40 | BJ | 88/88 (100%) | 79 (90%) | 9 (10%) | 11 | 46 |
| 40 | DJ | 88/88 (100%) | 79 (90%) | 9 (10%) | 11 | 46 |
| 41 | BK | 86/86 (100%) | 77 (90%) | 9 (10%) | 10 | 44 |
| 41 | DK | 86/86 (100%) | 77 (90%) | 9 (10%) | 10 | 44 |
| 42 | BL | 103/103 (100%) | 93 (90%) | 10 (10%) | 12 | 49 |
| 42 | DL | 103/103 (100%) | 93 (90%) | 10 (10%) | 12 | 49 |
| 43 | BM | 94/94 (100%) | 83 (88%) | 11 (12%) | 8 | 37 |
| 43 | DM | 94/94 (100%) | 83 (88%) | 11 (12%) | 8 | 37 |
| 44 | BN | 49/49 (100%) | 46 (94%) | 3 (6%) | 26 | 73 |
| 44 | DN | 49/49 (100%) | 46 (94%) | 3 (6%) | 26 | 73 |
| 45 | BO | 79/79 (100%) | 69 (87%) | 10 (13%) | 6 | 33 |
| 45 | DO | 79/79 (100%) | 69 (87%) | 10 (13%) | 6 | 33 |
| 46 | BP | 72/72 (100%) | 65 (90%) | 7 (10%) | 12 | 49 |
| 46 | DP | 72/72 (100%) | 65 (90%) | 7 (10%) | 12 | 49 |
| 47 | BQ | 94/94 (100%) | 90 (96%) | 4 (4%) | 40 | 83 |
| 47 | DQ | 94/94 (100%) | 90 (96%) | 4 (4%) | 40 | 83 |
| 48 | BR | 61/61 (100%) | 56 (92%) | 5 (8%) | 17 | 60 |
| 48 | DR | 61/61 (100%) | 55 (90%) | 6 (10%) | 12 | 48 |
| 49 | BS | 69/69 (100%) | 61 (88%) | 8 (12%) | 8 | 37 |
| 49 | DS | 69/69 (100%) | 61 (88%) | 8 (12%) | 8 | 37 |
| 50 | BT | 76/76 (100%) | 68 (90%) | 8 (10%) | 10 | 44 |
| 50 | DT | 76/76 (100%) | 68 (90%) | 8 (10%) | 10 | 44 |
| 51 | BU | 19/19 (100%) | 19 (100%) | 0 | 100 | 100 |
| 51 | DU | 19/19 (100%) | 19 (100%) | 0 | 100 | 100 |
| All | All | 9396/9396 (100%) | 8342 (89%) | 1054 (11%) | 9 | 39 |

5 of 1054 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 43 | BM | 87 | TYR |
| 6 | CG | 34 | LEU |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 40 | DJ | 62 | HIS |
| 45 | BO | 41 | GLU |
| 3 | CD | 106 | ILE |

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 216 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 43 | BM | 101 | GLN |
| 5 | CF | 67 | GLN |
| 41 | DK | 117 | ASN |
| 45 | BO | 37 | ASN |
| 50 | BT | 73 | HIS |

5.3.3 RNA ⓘ

| Mol | Chain | Analysed | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1 | AA | 2830/2879 (98%) | 442 (15%) | 0 |
| 1 | CA | 2830/2879 (98%) | 441 (15%) | 0 |
| 2 | AB | 118/119 (99%) | 9 (7%) | 0 |
| 2 | CB | 118/119 (99%) | 9 (7%) | 0 |
| 31 | BA | 1503/1504 (99%) | 204 (13%) | 0 |
| 31 | DA | 1503/1504 (99%) | 205 (13%) | 0 |
| 52 | BV | 76/77 (98%) | 11 (14%) | 0 |
| 52 | BW | 76/77 (98%) | 12 (15%) | 0 |
| 52 | DV | 76/77 (98%) | 11 (14%) | 0 |
| 52 | DW | 76/77 (98%) | 12 (15%) | 0 |
| 53 | BX | 4/5 (80%) | 1 (25%) | 0 |
| 53 | DX | 4/5 (80%) | 1 (25%) | 0 |
| All | All | 9214/9322 (98%) | 1358 (14%) | 0 |

5 of 1358 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | AA | 11 | G |
| 1 | AA | 34 | C |
| 1 | AA | 35 | G |
| 1 | AA | 46 | C |
| 1 | AA | 49 | A |

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 4369 ligands modelled in this entry, 4367 are monoatomic - leaving 2 for Mogul analysis.

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

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|-------------|-------------|------|-------------|
| | | | | | Counts | RMSZ | $\# Z > 2$ | Counts | RMSZ | $\# Z > 2$ |
| 54 | BLS | AA | 4001 | - | 31,31,31 | 2.86 | 11 (35%) | 40,43,43 | 2.42 | 14 (35%) |
| 54 | BLS | CA | 4405 | - | 31,31,31 | 2.86 | 11 (35%) | 40,43,43 | 2.47 | 15 (37%) |

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

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|---------|------------|---------|
| 54 | BLS | AA | 4001 | - | - | 0/22/38/38 | 0/2/2/2 |
| 54 | BLS | CA | 4405 | - | - | 0/22/38/38 | 0/2/2/2 |

The worst 5 of 22 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|------|-------------|----------|
| 54 | AA | 4001 | BLS | C7-N6 | 7.46 | 1.49 | 1.34 |
| 54 | CA | 4405 | BLS | C7-N6 | 7.40 | 1.49 | 1.34 |
| 54 | AA | 4001 | BLS | C14-N12 | 7.35 | 1.54 | 1.35 |
| 54 | CA | 4405 | BLS | C14-N12 | 7.30 | 1.54 | 1.35 |
| 54 | CA | 4405 | BLS | O5'-C5' | 4.76 | 1.51 | 1.43 |

The worst 5 of 29 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 54 | AA | 4001 | BLS | C1'-C2'-C3' | -8.07 | 111.48 | 122.69 |
| 54 | CA | 4405 | BLS | C1'-C2'-C3' | -7.72 | 111.98 | 122.69 |
| 54 | CA | 4405 | BLS | O5'-C1'-C2' | -5.96 | 109.77 | 113.13 |
| 54 | CA | 4405 | BLS | C6-C5-C4 | 5.05 | 119.92 | 117.51 |
| 54 | AA | 4001 | BLS | O5'-C1'-C2' | -4.70 | 110.48 | 113.13 |

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | | | OWAB(Å ²) | Q<0.9 |
|-----|-------|-----------------|--------|----------|-----|-----|-----------------------|-------|
| 1 | AA | 2832/2879 (98%) | 0.11 | 94 (3%) | 44 | 18 | 29, 68, 217, 367 | 0 |
| 1 | CA | 2832/2879 (98%) | 0.05 | 80 (2%) | 50 | 21 | 22, 55, 182, 409 | 0 |
| 2 | AB | 119/119 (100%) | -0.12 | 2 (1%) | 67 | 31 | 68, 117, 172, 246 | 0 |
| 2 | CB | 119/119 (100%) | -0.18 | 1 (0%) | 83 | 49 | 54, 97, 141, 234 | 0 |
| 3 | AD | 271/271 (100%) | -0.05 | 1 (0%) | 90 | 68 | 23, 61, 104, 243 | 0 |
| 3 | CD | 271/271 (100%) | -0.03 | 1 (0%) | 90 | 68 | 7, 46, 92, 203 | 0 |
| 4 | AE | 204/204 (100%) | 0.37 | 5 (2%) | 54 | 22 | 20, 77, 134, 263 | 0 |
| 4 | CE | 204/204 (100%) | 0.07 | 0 | 100 | 100 | 13, 60, 116, 249 | 0 |
| 5 | AF | 202/202 (100%) | 0.24 | 1 (0%) | 88 | 61 | 27, 67, 131, 220 | 0 |
| 5 | CF | 202/202 (100%) | 0.20 | 1 (0%) | 88 | 61 | 9, 58, 130, 240 | 0 |
| 6 | AG | 181/181 (100%) | 0.72 | 16 (8%) | 10 | 5 | 75, 134, 205, 230 | 0 |
| 6 | CG | 181/181 (100%) | 0.55 | 12 (6%) | 18 | 7 | 53, 117, 201, 226 | 0 |
| 7 | AH | 159/159 (100%) | 1.97 | 78 (49%) | 1 | 1 | 88, 157, 258, 279 | 0 |
| 7 | CH | 159/159 (100%) | 0.82 | 19 (11%) | 5 | 3 | 39, 83, 142, 266 | 0 |
| 8 | AI | 145/145 (100%) | 0.83 | 18 (12%) | 5 | 3 | 46, 131, 204, 288 | 0 |
| 8 | CI | 145/145 (100%) | 0.47 | 4 (2%) | 50 | 21 | 37, 103, 167, 210 | 0 |
| 9 | AJ | 137/137 (100%) | 0.36 | 1 (0%) | 84 | 52 | 49, 80, 142, 172 | 0 |
| 9 | CJ | 137/137 (100%) | 0.15 | 1 (0%) | 84 | 52 | 28, 62, 113, 213 | 0 |
| 10 | AK | 122/122 (100%) | -0.06 | 0 | 100 | 100 | 30, 68, 109, 168 | 0 |
| 10 | CK | 122/122 (100%) | 0.21 | 0 | 100 | 100 | 21, 60, 105, 134 | 0 |
| 11 | AL | 146/146 (100%) | 0.75 | 10 (6%) | 17 | 7 | 19, 91, 177, 263 | 0 |
| 11 | CL | 146/146 (100%) | 0.42 | 3 (2%) | 60 | 27 | 17, 80, 168, 236 | 0 |
| 12 | AM | 134/134 (100%) | 0.37 | 2 (1%) | 70 | 33 | 41, 82, 166, 289 | 0 |
| 12 | CM | 134/134 (100%) | 0.79 | 12 (8%) | 10 | 5 | 26, 68, 159, 293 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 13 | AN | 117/117 (100%) | 0.57 | 2 (1%) 67 31 | 19, 72, 139, 184 | 0 |
| 13 | CN | 117/117 (100%) | 0.52 | 1 (0%) 81 47 | 16, 60, 111, 207 | 0 |
| 14 | AO | 98/98 (100%) | 1.02 | 11 (11%) 6 3 | 63, 120, 186, 243 | 0 |
| 14 | CO | 98/98 (100%) | 0.74 | 6 (6%) 21 8 | 63, 97, 157, 178 | 0 |
| 15 | AP | 137/137 (100%) | 0.11 | 3 (2%) 59 25 | 41, 82, 160, 246 | 0 |
| 15 | CP | 137/137 (100%) | 0.24 | 3 (2%) 59 25 | 30, 74, 184, 271 | 0 |
| 16 | AQ | 117/117 (100%) | 0.36 | 1 (0%) 81 47 | 27, 69, 121, 162 | 0 |
| 16 | CQ | 117/117 (100%) | -0.03 | 1 (0%) 81 47 | 21, 50, 108, 206 | 0 |
| 17 | AR | 101/101 (100%) | 0.36 | 0 100 100 | 30, 93, 142, 223 | 0 |
| 17 | CR | 101/101 (100%) | 0.20 | 0 100 100 | 27, 68, 117, 256 | 0 |
| 18 | AS | 112/112 (100%) | 0.38 | 1 (0%) 81 47 | 32, 61, 131, 252 | 0 |
| 18 | CS | 112/112 (100%) | 0.11 | 1 (0%) 81 47 | 20, 48, 103, 203 | 0 |
| 19 | AT | 92/92 (100%) | 0.47 | 0 100 100 | 38, 81, 117, 172 | 0 |
| 19 | CT | 92/92 (100%) | 0.64 | 1 (1%) 77 40 | 23, 59, 107, 160 | 0 |
| 20 | AU | 100/100 (100%) | 1.35 | 24 (24%) 1 2 | 49, 97, 234, 307 | 0 |
| 20 | CU | 100/100 (100%) | 0.86 | 10 (10%) 8 4 | 32, 75, 247, 286 | 0 |
| 21 | AV | 187/187 (100%) | 0.51 | 6 (3%) 45 18 | 61, 121, 189, 251 | 0 |
| 21 | CV | 187/187 (100%) | 0.77 | 15 (8%) 12 6 | 36, 113, 183, 227 | 0 |
| 22 | AW | 76/76 (100%) | 0.48 | 5 (6%) 18 7 | 40, 74, 133, 245 | 0 |
| 22 | CW | 76/76 (100%) | 0.28 | 2 (2%) 53 21 | 36, 70, 138, 207 | 0 |
| 23 | AX | 88/88 (100%) | 0.92 | 5 (5%) 23 9 | 28, 69, 147, 186 | 0 |
| 23 | CX | 88/88 (100%) | 0.69 | 4 (4%) 32 12 | 25, 59, 136, 242 | 0 |
| 24 | AY | 62/62 (100%) | 1.03 | 8 (12%) 4 2 | 49, 98, 175, 228 | 0 |
| 24 | CY | 62/62 (100%) | 0.60 | 4 (6%) 18 7 | 20, 69, 165, 252 | 0 |
| 25 | AZ | 59/59 (100%) | 0.48 | 1 (1%) 67 31 | 46, 80, 146, 204 | 0 |
| 25 | CZ | 59/59 (100%) | 0.24 | 1 (1%) 67 31 | 30, 65, 134, 194 | 0 |
| 26 | A1 | 30/30 (100%) | 1.29 | 5 (16%) 2 2 | 129, 198, 264, 286 | 0 |
| 26 | C1 | 30/30 (100%) | 1.53 | 8 (26%) 1 1 | 151, 200, 258, 294 | 0 |
| 27 | A2 | 52/52 (100%) | 0.07 | 1 (1%) 64 29 | 27, 67, 144, 206 | 0 |
| 27 | C2 | 52/52 (100%) | -0.08 | 0 100 100 | 12, 57, 127, 206 | 0 |
| 28 | A3 | 44/44 (100%) | 3.06 | 30 (68%) 0 0 | 99, 175, 241, 280 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|------------------|--------|---------------|-----------------------|-------|
| 28 | C3 | 44/44 (100%) | 3.18 | 34 (77%) 0 0 | 96, 147, 206, 246 | 0 |
| 29 | A4 | 48/48 (100%) | -0.07 | 1 (2%) 60 27 | 26, 53, 102, 159 | 0 |
| 29 | C4 | 48/48 (100%) | -0.08 | 1 (2%) 60 27 | 11, 31, 82, 126 | 0 |
| 30 | A5 | 63/63 (100%) | 0.44 | 3 (4%) 29 12 | 38, 66, 133, 226 | 0 |
| 30 | C5 | 63/63 (100%) | 0.32 | 1 (1%) 68 32 | 16, 62, 135, 154 | 0 |
| 31 | BA | 1504/1504 (100%) | 0.08 | 18 (1%) 75 39 | 44, 89, 187, 268 | 0 |
| 31 | DA | 1504/1504 (100%) | 0.28 | 45 (2%) 48 20 | 41, 108, 215, 364 | 0 |
| 32 | BB | 234/234 (100%) | 0.46 | 7 (2%) 48 20 | 65, 131, 205, 270 | 0 |
| 32 | DB | 234/234 (100%) | 0.49 | 8 (3%) 43 17 | 83, 146, 214, 282 | 0 |
| 33 | BC | 206/206 (100%) | 0.09 | 1 (0%) 88 61 | 68, 121, 178, 219 | 0 |
| 33 | DC | 206/206 (100%) | 0.26 | 2 (0%) 79 44 | 70, 145, 214, 286 | 0 |
| 34 | BD | 208/208 (100%) | 0.28 | 0 100 100 | 25, 79, 128, 152 | 0 |
| 34 | DD | 208/208 (100%) | 0.82 | 19 (9%) 9 5 | 48, 115, 180, 240 | 0 |
| 35 | BE | 151/151 (100%) | 0.14 | 0 100 100 | 44, 84, 135, 189 | 0 |
| 35 | DE | 151/151 (100%) | 0.34 | 1 (0%) 84 52 | 51, 101, 161, 233 | 0 |
| 36 | BF | 101/101 (100%) | 0.30 | 2 (1%) 62 28 | 56, 99, 141, 177 | 0 |
| 36 | DF | 101/101 (100%) | 0.12 | 0 100 100 | 45, 87, 140, 166 | 0 |
| 37 | BG | 155/155 (100%) | 0.48 | 12 (7%) 13 6 | 69, 123, 171, 218 | 0 |
| 37 | DG | 155/155 (100%) | 0.46 | 12 (7%) 13 6 | 75, 128, 179, 227 | 0 |
| 38 | BH | 138/138 (100%) | 0.40 | 1 (0%) 84 52 | 56, 86, 136, 184 | 0 |
| 38 | DH | 138/138 (100%) | 0.33 | 1 (0%) 84 52 | 53, 101, 149, 194 | 0 |
| 39 | BI | 127/127 (100%) | 1.06 | 25 (19%) 2 2 | 67, 148, 212, 269 | 0 |
| 39 | DI | 127/127 (100%) | 0.87 | 13 (10%) 7 4 | 82, 157, 214, 266 | 0 |
| 40 | BJ | 98/98 (100%) | 0.98 | 11 (11%) 6 3 | 77, 145, 238, 266 | 0 |
| 40 | DJ | 98/98 (100%) | 1.78 | 32 (32%) 1 1 | 89, 177, 249, 277 | 0 |
| 41 | BK | 114/114 (100%) | 0.60 | 4 (3%) 42 17 | 46, 91, 139, 207 | 0 |
| 41 | DK | 114/114 (100%) | 0.66 | 8 (7%) 16 6 | 50, 84, 144, 196 | 0 |
| 42 | BL | 122/122 (100%) | 0.61 | 3 (2%) 54 22 | 36, 78, 126, 184 | 0 |
| 42 | DL | 122/122 (100%) | 0.74 | 10 (8%) 12 6 | 47, 98, 147, 236 | 0 |
| 43 | BM | 117/117 (100%) | 0.73 | 15 (12%) 4 3 | 80, 146, 214, 228 | 0 |
| 43 | DM | 117/117 (100%) | 0.71 | 11 (9%) 9 4 | 84, 150, 203, 267 | 0 |

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| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|-------------------|--------|----------------|-----------------------|-------|
| 44 | BN | 60/60 (100%) | 0.89 | 6 (10%) 8 4 | 63, 115, 155, 210 | 0 |
| 44 | DN | 60/60 (100%) | 0.70 | 3 (5%) 28 10 | 60, 130, 192, 250 | 0 |
| 45 | BO | 88/88 (100%) | 0.57 | 1 (1%) 77 40 | 50, 87, 143, 170 | 0 |
| 45 | DO | 88/88 (100%) | 0.33 | 1 (1%) 77 40 | 46, 82, 130, 168 | 0 |
| 46 | BP | 83/83 (100%) | 0.45 | 0 100 100 | 35, 76, 124, 161 | 0 |
| 46 | DP | 83/83 (100%) | 0.61 | 2 (2%) 56 24 | 67, 110, 171, 274 | 0 |
| 47 | BQ | 99/99 (100%) | 0.35 | 0 100 100 | 43, 83, 127, 186 | 0 |
| 47 | DQ | 99/99 (100%) | 0.62 | 2 (2%) 62 28 | 57, 93, 134, 200 | 0 |
| 48 | BR | 70/70 (100%) | 0.67 | 4 (5%) 23 9 | 45, 95, 159, 191 | 0 |
| 48 | DR | 70/70 (100%) | 0.46 | 2 (2%) 49 21 | 49, 92, 161, 188 | 0 |
| 49 | BS | 78/78 (100%) | 1.00 | 9 (11%) 5 3 | 103, 145, 213, 241 | 0 |
| 49 | DS | 78/78 (100%) | 1.21 | 15 (19%) 2 2 | 93, 158, 216, 254 | 0 |
| 50 | BT | 99/99 (100%) | 0.97 | 11 (11%) 6 3 | 42, 95, 175, 218 | 0 |
| 50 | DT | 99/99 (100%) | 1.05 | 19 (19%) 2 2 | 66, 122, 199, 230 | 0 |
| 51 | BU | 24/24 (100%) | 1.19 | 3 (12%) 5 3 | 107, 163, 225, 270 | 0 |
| 51 | DU | 24/24 (100%) | 0.94 | 4 (16%) 2 2 | 73, 151, 199, 257 | 0 |
| 52 | BV | 77/77 (100%) | 0.09 | 5 (6%) 18 7 | 80, 135, 208, 244 | 0 |
| 52 | BW | 77/77 (100%) | 0.53 | 11 (14%) 3 2 | 71, 190, 252, 308 | 0 |
| 52 | DV | 77/77 (100%) | -0.02 | 2 (2%) 53 21 | 77, 122, 191, 213 | 0 |
| 52 | DW | 77/77 (100%) | 0.16 | 4 (5%) 26 10 | 62, 173, 228, 302 | 0 |
| 53 | BX | 5/5 (100%) | 1.38 | 1 (20%) 2 2 | 72, 73, 112, 168 | 0 |
| 53 | DX | 5/5 (100%) | 0.87 | 0 100 100 | 65, 67, 128, 182 | 0 |
| All | All | 20540/20634 (99%) | 0.34 | 928 (4%) 32 12 | 7, 85, 195, 409 | 0 |

The worst 5 of 928 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|------|------|------|
| 1 | CA | 275 | G | 18.0 |
| 49 | BS | 81 | ARG | 10.1 |
| 1 | AA | 2798 | C | 9.9 |
| 11 | AL | 150 | ALA | 9.6 |
| 1 | AA | 884 | C | 9.0 |

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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

| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 55 | MG | DA | 1921 | 1/1 | 0.47 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3133 | 1/1 | 0.21 | - | 13,13,13,13 | 0 |
| 55 | MG | CA | 4191 | 1/1 | 0.10 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3039 | 1/1 | 0.23 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3767 | 1/1 | 0.20 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4217 | 1/1 | 0.22 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 2969 | 1/1 | 0.25 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1915 | 1/1 | 0.18 | - | 58,58,58,58 | 0 |
| 55 | MG | BV | 110 | 1/1 | 0.14 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4420 | 1/1 | 0.21 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3419 | 1/1 | 0.17 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3797 | 1/1 | 0.38 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4579 | 1/1 | 0.76 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 2919 | 1/1 | 0.78 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3371 | 1/1 | 0.38 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4251 | 1/1 | 0.24 | - | 27,27,27,27 | 0 |
| 55 | MG | DA | 1924 | 1/1 | 0.41 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4533 | 1/1 | 0.61 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3610 | 1/1 | 0.35 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3054 | 1/1 | 1.22 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4881 | 1/1 | 0.09 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 1897 | 1/1 | 0.23 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4771 | 1/1 | 0.21 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4674 | 1/1 | 0.34 | - | 50,50,50,50 | 0 |
| 55 | MG | BW | 110 | 1/1 | 0.07 | - | 47,47,47,47 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4061 | 1/1 | 0.27 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4060 | 1/1 | 0.34 | - | 84,84,84,84 | 0 |
| 55 | MG | DA | 1706 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | DW | 107 | 1/1 | 0.12 | - | 155,155,155,155 | 0 |
| 55 | MG | CA | 3491 | 1/1 | 0.30 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4345 | 1/1 | 0.53 | - | 86,86,86,86 | 0 |
| 55 | MG | BA | 1773 | 1/1 | 0.14 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1824 | 1/1 | 0.45 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4676 | 1/1 | 0.22 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5240 | 1/1 | 0.39 | - | 93,93,93,93 | 0 |
| 55 | MG | DA | 1844 | 1/1 | 0.13 | - | 164,164,164,164 | 0 |
| 55 | MG | AA | 4789 | 1/1 | 0.20 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3897 | 1/1 | 0.32 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 5197 | 1/1 | 0.18 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 2022 | 1/1 | 0.30 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5046 | 1/1 | 0.35 | - | 37,37,37,37 | 0 |
| 55 | MG | CB | 230 | 1/1 | 0.64 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 2001 | 1/1 | 0.15 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3873 | 1/1 | 0.18 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 1905 | 1/1 | 0.20 | - | 113,113,113,113 | 0 |
| 55 | MG | BA | 1995 | 1/1 | 0.32 | - | 61,61,61,61 | 0 |
| 55 | MG | AN | 203 | 1/1 | 0.16 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1958 | 1/1 | 0.18 | - | 45,45,45,45 | 0 |
| 55 | MG | DE | 202 | 1/1 | 0.26 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3881 | 1/1 | 0.49 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4693 | 1/1 | 0.32 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4375 | 1/1 | 0.45 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3411 | 1/1 | 0.43 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3018 | 1/1 | 0.52 | - | 70,70,70,70 | 0 |
| 55 | MG | DD | 301 | 1/1 | 0.27 | - | 73,73,73,73 | 0 |
| 55 | MG | AG | 201 | 1/1 | 0.89 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1631 | 1/1 | 0.21 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3695 | 1/1 | 0.16 | - | 21,21,21,21 | 0 |
| 55 | MG | AA | 4988 | 1/1 | 0.23 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 2052 | 1/1 | 0.31 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4326 | 1/1 | 0.56 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 1930 | 1/1 | 0.14 | - | 95,95,95,95 | 0 |
| 55 | MG | BA | 2039 | 1/1 | 0.26 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5254 | 1/1 | 0.40 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4242 | 1/1 | 0.41 | - | 32,32,32,32 | 0 |
| 55 | MG | DA | 1843 | 1/1 | 0.44 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3232 | 1/1 | 0.25 | - | 32,32,32,32 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1846 | 1/1 | 0.32 | - | 133,133,133,133 | 0 |
| 55 | MG | AA | 4211 | 1/1 | 0.16 | - | 21,21,21,21 | 0 |
| 55 | MG | CV | 202 | 1/1 | 0.11 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5207 | 1/1 | 0.27 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3539 | 1/1 | 0.11 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4096 | 1/1 | 0.37 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4557 | 1/1 | 0.39 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3804 | 1/1 | 0.34 | - | 97,97,97,97 | 0 |
| 55 | MG | AA | 5162 | 1/1 | 0.20 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4199 | 1/1 | 0.17 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4388 | 1/1 | 0.13 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1938 | 1/1 | 0.12 | - | 128,128,128,128 | 0 |
| 55 | MG | DA | 1884 | 1/1 | 0.14 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 1913 | 1/1 | 0.67 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4993 | 1/1 | 0.88 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3108 | 1/1 | 0.27 | - | 8,8,8,8 | 0 |
| 55 | MG | AA | 4223 | 1/1 | 0.65 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4184 | 1/1 | 0.50 | - | 19,19,19,19 | 0 |
| 55 | MG | CA | 3480 | 1/1 | 0.54 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3172 | 1/1 | 0.35 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 3416 | 1/1 | 0.34 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4041 | 1/1 | 0.14 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4031 | 1/1 | 0.23 | - | 109,109,109,109 | 0 |
| 55 | MG | AA | 4414 | 1/1 | 0.16 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 4662 | 1/1 | 0.35 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3231 | 1/1 | 0.23 | - | 19,19,19,19 | 0 |
| 55 | MG | AA | 4444 | 1/1 | 0.13 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 4118 | 1/1 | 0.48 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1764 | 1/1 | 0.30 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3081 | 1/1 | 0.15 | - | 80,80,80,80 | 0 |
| 55 | MG | DV | 124 | 1/1 | 0.47 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3735 | 1/1 | 0.20 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5104 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4809 | 1/1 | 0.43 | - | 65,65,65,65 | 0 |
| 55 | MG | CB | 259 | 1/1 | 0.27 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3185 | 1/1 | 0.19 | - | 16,16,16,16 | 0 |
| 55 | MG | BA | 1989 | 1/1 | 0.24 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5124 | 1/1 | 0.40 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3251 | 1/1 | 0.23 | - | 27,27,27,27 | 0 |
| 55 | MG | AA | 4558 | 1/1 | 0.30 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3086 | 1/1 | 0.34 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4193 | 1/1 | 0.23 | - | 58,58,58,58 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4082 | 1/1 | 0.32 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3852 | 1/1 | 0.14 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 3412 | 1/1 | 0.14 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3759 | 1/1 | 0.48 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3506 | 1/1 | 0.19 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4810 | 1/1 | 0.40 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4713 | 1/1 | 0.31 | - | 87,87,87,87 | 0 |
| 55 | MG | BA | 1642 | 1/1 | 0.76 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3015 | 1/1 | 0.17 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3098 | 1/1 | 0.40 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 4153 | 1/1 | 0.19 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4499 | 1/1 | 0.36 | - | 74,74,74,74 | 0 |
| 55 | MG | BA | 1929 | 1/1 | 0.35 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 5040 | 1/1 | 0.41 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3309 | 1/1 | 0.66 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3689 | 1/1 | 0.18 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4320 | 1/1 | 0.09 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4482 | 1/1 | 0.25 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4350 | 1/1 | 0.26 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 5211 | 1/1 | 1.07 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 2076 | 1/1 | 0.36 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4870 | 1/1 | 0.67 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4102 | 1/1 | 0.78 | - | 69,69,69,69 | 0 |
| 55 | MG | CB | 250 | 1/1 | 0.29 | - | 74,74,74,74 | 0 |
| 55 | MG | BA | 2145 | 1/1 | 0.22 | - | 97,97,97,97 | 0 |
| 55 | MG | CA | 3051 | 1/1 | 0.07 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4697 | 1/1 | 0.63 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1651 | 1/1 | 0.49 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2129 | 1/1 | 0.73 | - | 36,36,36,36 | 0 |
| 55 | MG | BE | 203 | 1/1 | 0.57 | - | 91,91,91,91 | 0 |
| 55 | MG | DA | 1769 | 1/1 | 0.08 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3202 | 1/1 | 0.36 | - | 28,28,28,28 | 0 |
| 55 | MG | BA | 1997 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4202 | 1/1 | 0.29 | - | 20,20,20,20 | 0 |
| 55 | MG | CA | 4335 | 1/1 | 0.14 | - | 110,110,110,110 | 0 |
| 55 | MG | BA | 1959 | 1/1 | 0.28 | - | 49,49,49,49 | 0 |
| 55 | MG | BB | 302 | 1/1 | 0.16 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4011 | 1/1 | 0.63 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3376 | 1/1 | 0.21 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4587 | 1/1 | 0.11 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 3646 | 1/1 | 0.22 | - | 73,73,73,73 | 0 |
| 55 | MG | CF | 302 | 1/1 | 0.17 | - | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1835 | 1/1 | 0.31 | - | 106,106,106,106 | 0 |
| 55 | MG | AA | 4481 | 1/1 | 0.41 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1888 | 1/1 | 0.20 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 5020 | 1/1 | 0.41 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1942 | 1/1 | 0.34 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1788 | 1/1 | 0.10 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3589 | 1/1 | 0.38 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4400 | 1/1 | 0.31 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4552 | 1/1 | 0.26 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4564 | 1/1 | 0.13 | - | 66,66,66,66 | 0 |
| 55 | MG | AL | 201 | 1/1 | 0.45 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1953 | 1/1 | 0.33 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4402 | 1/1 | 0.33 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3534 | 1/1 | 0.36 | - | 47,47,47,47 | 0 |
| 55 | MG | BI | 202 | 1/1 | 0.81 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3420 | 1/1 | 0.26 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3174 | 1/1 | 0.24 | - | 23,23,23,23 | 0 |
| 55 | MG | AA | 4034 | 1/1 | 0.45 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 4188 | 1/1 | 0.40 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 1948 | 1/1 | 0.28 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1745 | 1/1 | 0.27 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4902 | 1/1 | 0.24 | - | 35,35,35,35 | 0 |
| 55 | MG | DA | 2189 | 1/1 | 0.27 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4606 | 1/1 | 0.51 | - | 109,109,109,109 | 0 |
| 55 | MG | CA | 3574 | 1/1 | 0.93 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4635 | 1/1 | 0.57 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4179 | 1/1 | 0.36 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 4121 | 1/1 | 0.69 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1972 | 1/1 | 0.11 | - | 48,48,48,48 | 0 |
| 55 | MG | DW | 105 | 1/1 | 0.12 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3868 | 1/1 | 0.31 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3374 | 1/1 | 0.17 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1743 | 1/1 | 0.14 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3196 | 1/1 | 0.19 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 4058 | 1/1 | 0.41 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4072 | 1/1 | 0.25 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 2196 | 1/1 | 0.55 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 3038 | 1/1 | 0.52 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3849 | 1/1 | 0.32 | - | 119,119,119,119 | 0 |
| 55 | MG | AA | 4871 | 1/1 | 0.43 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 5068 | 1/1 | 0.37 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1807 | 1/1 | 0.25 | - | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3853 | 1/1 | 0.22 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 3924 | 1/1 | 0.25 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3470 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | DA | 1818 | 1/1 | 0.34 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1871 | 1/1 | 0.20 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1949 | 1/1 | 0.49 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1973 | 1/1 | 0.18 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1893 | 1/1 | 0.32 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 4090 | 1/1 | 0.36 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3510 | 1/1 | 0.25 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3199 | 1/1 | 0.30 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 5134 | 1/1 | 0.63 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4314 | 1/1 | 0.40 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4208 | 1/1 | 0.43 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 1705 | 1/1 | 0.14 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4591 | 1/1 | 0.14 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3908 | 1/1 | 0.29 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4126 | 1/1 | 0.14 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 2940 | 1/1 | 0.54 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3141 | 1/1 | 0.15 | - | 9,9,9,9 | 0 |
| 55 | MG | AA | 4610 | 1/1 | 0.11 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3344 | 1/1 | 0.41 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3843 | 1/1 | 0.32 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1940 | 1/1 | 0.06 | - | 94,94,94,94 | 0 |
| 55 | MG | DA | 1765 | 1/1 | 0.49 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1805 | 1/1 | 0.25 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3948 | 1/1 | 0.56 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1925 | 1/1 | 0.39 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4714 | 1/1 | 0.23 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3439 | 1/1 | 0.33 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 2147 | 1/1 | 0.50 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3143 | 1/1 | 0.42 | - | 24,24,24,24 | 0 |
| 55 | MG | DA | 1837 | 1/1 | 0.40 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3831 | 1/1 | 0.25 | - | 90,90,90,90 | 0 |
| 55 | MG | DA | 2071 | 1/1 | 0.25 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4025 | 1/1 | 0.55 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3016 | 1/1 | 0.56 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3057 | 1/1 | 0.21 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4162 | 1/1 | 0.36 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1947 | 1/1 | 0.57 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4900 | 1/1 | 0.32 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4293 | 1/1 | 0.67 | - | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 2927 | 1/1 | 0.30 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2090 | 1/1 | 0.21 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4808 | 1/1 | 1.00 | - | 73,73,73,73 | 0 |
| 55 | MG | DW | 117 | 1/1 | 0.19 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3391 | 1/1 | 0.34 | - | 72,72,72,72 | 0 |
| 55 | MG | BA | 1616 | 1/1 | 0.26 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3304 | 1/1 | 0.18 | - | 13,13,13,13 | 0 |
| 55 | MG | BA | 2130 | 1/1 | 0.57 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3614 | 1/1 | 0.48 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 5014 | 1/1 | 0.18 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4442 | 1/1 | 0.48 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4401 | 1/1 | 0.34 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4487 | 1/1 | 0.38 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 2932 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2199 | 1/1 | 0.23 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 2049 | 1/1 | 0.10 | - | 56,56,56,56 | 0 |
| 55 | MG | CE | 306 | 1/1 | 0.26 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4245 | 1/1 | 0.26 | - | 26,26,26,26 | 0 |
| 55 | MG | CA | 3921 | 1/1 | 0.32 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4493 | 1/1 | 0.12 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3097 | 1/1 | 0.42 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4899 | 1/1 | 0.06 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4603 | 1/1 | 0.21 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3403 | 1/1 | 0.40 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4151 | 1/1 | 0.27 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4338 | 1/1 | 0.21 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1859 | 1/1 | 0.23 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1922 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 5252 | 1/1 | 0.26 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 2979 | 1/1 | 0.60 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4817 | 1/1 | 0.08 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4353 | 1/1 | 0.14 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3536 | 1/1 | 0.16 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4387 | 1/1 | 0.50 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4583 | 1/1 | 0.25 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3821 | 1/1 | 0.10 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 4135 | 1/1 | 0.45 | - | 50,50,50,50 | 0 |
| 55 | MG | CL | 204 | 1/1 | 0.31 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 1742 | 1/1 | 0.24 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1973 | 1/1 | 0.63 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 2026 | 1/1 | 0.35 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3543 | 1/1 | 0.15 | - | 47,47,47,47 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4346 | 1/1 | 0.16 | - | 60,60,60,60 | 0 |
| 55 | MG | BV | 130 | 1/1 | 0.14 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3765 | 1/1 | 0.17 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4062 | 1/1 | 0.23 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4456 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5074 | 1/1 | 0.23 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2135 | 1/1 | 0.16 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3935 | 1/1 | 0.67 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3667 | 1/1 | 0.34 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 1926 | 1/1 | 0.12 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3361 | 1/1 | 0.24 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3653 | 1/1 | 0.79 | - | 82,82,82,82 | 0 |
| 55 | MG | DV | 123 | 1/1 | 0.20 | - | 104,104,104,104 | 0 |
| 55 | MG | AA | 4836 | 1/1 | 0.33 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4441 | 1/1 | 0.30 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3182 | 1/1 | 0.36 | - | 33,33,33,33 | 0 |
| 55 | MG | DA | 1723 | 1/1 | 0.35 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4732 | 1/1 | 0.98 | - | 112,112,112,112 | 0 |
| 55 | MG | CA | 3556 | 1/1 | 0.09 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2163 | 1/1 | 0.17 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 1849 | 1/1 | 0.39 | - | 135,135,135,135 | 0 |
| 55 | MG | DA | 2017 | 1/1 | 0.24 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4209 | 1/1 | 0.16 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4364 | 1/1 | 0.55 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 5050 | 1/1 | 0.33 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1940 | 1/1 | 0.11 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 5009 | 1/1 | 0.48 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4505 | 1/1 | 0.59 | - | 126,126,126,126 | 0 |
| 55 | MG | AA | 4073 | 1/1 | 0.66 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3451 | 1/1 | 0.07 | - | 35,35,35,35 | 0 |
| 55 | MG | DA | 2081 | 1/1 | 0.45 | - | 68,68,68,68 | 0 |
| 55 | MG | BW | 103 | 1/1 | 0.33 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 2182 | 1/1 | 0.28 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3503 | 1/1 | 0.26 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1665 | 1/1 | 0.72 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4860 | 1/1 | 0.09 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3164 | 1/1 | 0.18 | - | 9,9,9,9 | 0 |
| 55 | MG | CA | 4231 | 1/1 | 0.35 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4507 | 1/1 | 0.23 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4001 | 1/1 | 0.36 | - | 11,11,11,11 | 0 |
| 55 | MG | AA | 4399 | 1/1 | 0.23 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3125 | 1/1 | 0.51 | - | 13,13,13,13 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1934 | 1/1 | 0.31 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3995 | 1/1 | 0.71 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3178 | 1/1 | 0.14 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3824 | 1/1 | 0.73 | - | 78,78,78,78 | 0 |
| 55 | MG | AN | 202 | 1/1 | 0.65 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3035 | 1/1 | 0.19 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1848 | 1/1 | 0.23 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 5296 | 1/1 | 0.23 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 2997 | 1/1 | 0.28 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4198 | 1/1 | 0.31 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4027 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4639 | 1/1 | 0.37 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4682 | 1/1 | 0.28 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 2154 | 1/1 | 0.32 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4859 | 1/1 | 0.34 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 2114 | 1/1 | 0.41 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3595 | 1/1 | 0.36 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3839 | 1/1 | 0.21 | - | 27,27,27,27 | 0 |
| 55 | MG | BA | 2143 | 1/1 | 0.09 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3715 | 1/1 | 0.18 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4177 | 1/1 | 0.34 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1727 | 1/1 | 0.55 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4355 | 1/1 | 0.23 | - | 47,47,47,47 | 0 |
| 55 | MG | CX | 103 | 1/1 | 0.20 | - | 31,31,31,31 | 0 |
| 55 | MG | AA | 5000 | 1/1 | 0.33 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3121 | 1/1 | 0.26 | - | 11,11,11,11 | 0 |
| 55 | MG | DA | 1796 | 1/1 | 0.08 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3303 | 1/1 | 0.43 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 3438 | 1/1 | 0.20 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3955 | 1/1 | 0.26 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3879 | 1/1 | 0.28 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4751 | 1/1 | 0.29 | - | 96,96,96,96 | 0 |
| 55 | MG | CA | 4147 | 1/1 | 0.59 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3048 | 1/1 | 0.31 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 5214 | 1/1 | 0.26 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1857 | 1/1 | 0.32 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3422 | 1/1 | 0.72 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 5099 | 1/1 | 0.27 | - | 111,111,111,111 | 0 |
| 55 | MG | CA | 3101 | 1/1 | 0.55 | - | 21,21,21,21 | 0 |
| 55 | MG | AA | 4077 | 1/1 | 0.47 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2031 | 1/1 | 0.16 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4090 | 1/1 | 0.39 | - | 58,58,58,58 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1869 | 1/1 | 0.11 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3706 | 1/1 | 0.35 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3904 | 1/1 | 0.18 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4476 | 1/1 | 0.26 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1987 | 1/1 | 0.23 | - | 47,47,47,47 | 0 |
| 55 | MG | AR | 202 | 1/1 | 0.66 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4630 | 1/1 | 0.38 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3221 | 1/1 | 0.42 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 5206 | 1/1 | 0.36 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 2153 | 1/1 | 0.19 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 2089 | 1/1 | 0.33 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1754 | 1/1 | 0.15 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5142 | 1/1 | 0.59 | - | 69,69,69,69 | 0 |
| 55 | MG | BV | 128 | 1/1 | 0.11 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1850 | 1/1 | 0.09 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4797 | 1/1 | 0.59 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4374 | 1/1 | 0.24 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4250 | 1/1 | 0.55 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4973 | 1/1 | 0.39 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4181 | 1/1 | 0.24 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4522 | 1/1 | 0.18 | - | 76,76,76,76 | 0 |
| 55 | MG | DA | 1939 | 1/1 | 1.12 | - | 214,214,214,214 | 0 |
| 55 | MG | CA | 4158 | 1/1 | 0.29 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4322 | 1/1 | 0.08 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4038 | 1/1 | 0.20 | - | 117,117,117,117 | 0 |
| 55 | MG | AA | 4596 | 1/1 | 0.28 | - | 103,103,103,103 | 0 |
| 55 | MG | CA | 3269 | 1/1 | 0.35 | - | 40,40,40,40 | 0 |
| 55 | MG | DA | 1968 | 1/1 | 0.15 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1998 | 1/1 | 0.36 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1605 | 1/1 | 0.50 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1674 | 1/1 | 0.25 | - | 85,85,85,85 | 0 |
| 55 | MG | BA | 2169 | 1/1 | 0.32 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4668 | 1/1 | 0.36 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4461 | 1/1 | 0.41 | - | 53,53,53,53 | 0 |
| 55 | MG | BQ | 201 | 1/1 | 0.25 | - | 90,90,90,90 | 0 |
| 55 | MG | DV | 103 | 1/1 | 0.11 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4363 | 1/1 | 0.15 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3549 | 1/1 | 0.23 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3179 | 1/1 | 0.12 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4422 | 1/1 | 0.44 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3483 | 1/1 | 0.22 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 2169 | 1/1 | 0.50 | - | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5193 | 1/1 | 0.82 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3404 | 1/1 | 0.16 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 1947 | 1/1 | 0.21 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 4261 | 1/1 | 0.40 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1884 | 1/1 | 0.26 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3520 | 1/1 | 0.66 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1879 | 1/1 | 0.74 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 4356 | 1/1 | 0.62 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3628 | 1/1 | 0.80 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4341 | 1/1 | 0.18 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 1881 | 1/1 | 0.26 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3418 | 1/1 | 0.35 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3448 | 1/1 | 0.26 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3155 | 1/1 | 0.24 | - | 18,18,18,18 | 0 |
| 55 | MG | CA | 3915 | 1/1 | 0.69 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 2925 | 1/1 | 0.11 | - | 128,128,128,128 | 0 |
| 55 | MG | AA | 4944 | 1/1 | 0.30 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3119 | 1/1 | 0.53 | - | 8,8,8,8 | 0 |
| 55 | MG | DA | 2024 | 1/1 | 0.38 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3476 | 1/1 | 0.59 | - | 74,74,74,74 | 0 |
| 55 | MG | BV | 117 | 1/1 | 0.26 | - | 43,43,43,43 | 0 |
| 55 | MG | CB | 252 | 1/1 | 0.23 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1829 | 1/1 | 0.23 | - | 87,87,87,87 | 0 |
| 55 | MG | A4 | 103 | 1/1 | 0.44 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4137 | 1/1 | 0.85 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4281 | 1/1 | 0.37 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4562 | 1/1 | 0.13 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5100 | 1/1 | 0.58 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4979 | 1/1 | 0.63 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4174 | 1/1 | 0.22 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 3402 | 1/1 | 0.19 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 5199 | 1/1 | 0.31 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3513 | 1/1 | 0.16 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1720 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1790 | 1/1 | 0.13 | - | 109,109,109,109 | 0 |
| 55 | MG | CA | 3701 | 1/1 | 0.10 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3754 | 1/1 | 0.26 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3140 | 1/1 | 0.24 | - | 8,8,8,8 | 0 |
| 55 | MG | AA | 4067 | 1/1 | 0.87 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1707 | 1/1 | 0.23 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3946 | 1/1 | 0.42 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1694 | 1/1 | 0.56 | - | 44,44,44,44 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4705 | 1/1 | 0.29 | - | 109,109,109,109 | 0 |
| 55 | MG | AA | 4145 | 1/1 | 0.31 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2149 | 1/1 | 0.17 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3788 | 1/1 | 0.43 | - | 57,57,57,57 | 0 |
| 55 | MG | BV | 123 | 1/1 | 0.45 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 2036 | 1/1 | 0.17 | - | 74,74,74,74 | 0 |
| 55 | MG | BA | 1746 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1638 | 1/1 | 0.18 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 2159 | 1/1 | 0.28 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3611 | 1/1 | 0.46 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4537 | 1/1 | 0.42 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4719 | 1/1 | 0.22 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4759 | 1/1 | 0.73 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3888 | 1/1 | 0.35 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4415 | 1/1 | 0.24 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1667 | 1/1 | 0.55 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 2141 | 1/1 | 0.31 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4257 | 1/1 | 0.75 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4629 | 1/1 | 0.20 | - | 112,112,112,112 | 0 |
| 55 | MG | CA | 3639 | 1/1 | 0.14 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3357 | 1/1 | 0.40 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4685 | 1/1 | 0.29 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2070 | 1/1 | 0.65 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4100 | 1/1 | 0.41 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4048 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 1904 | 1/1 | 0.68 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3878 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1914 | 1/1 | 0.24 | - | 82,82,82,82 | 0 |
| 55 | MG | BA | 1883 | 1/1 | 0.22 | - | 77,77,77,77 | 0 |
| 55 | MG | BU | 101 | 1/1 | 0.35 | - | 109,109,109,109 | 0 |
| 55 | MG | AA | 4333 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4967 | 1/1 | 0.13 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4761 | 1/1 | 0.35 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5080 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4385 | 1/1 | 0.24 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1882 | 1/1 | 0.47 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 5089 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1956 | 1/1 | 0.17 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3973 | 1/1 | 0.15 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3932 | 1/1 | 0.47 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4303 | 1/1 | 0.22 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2108 | 1/1 | 0.20 | - | 92,92,92,92 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3541 | 1/1 | 0.34 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4657 | 1/1 | 0.70 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1971 | 1/1 | 0.26 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 3064 | 1/1 | 1.14 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3106 | 1/1 | 0.33 | - | 11,11,11,11 | 0 |
| 55 | MG | DA | 2014 | 1/1 | 0.15 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3958 | 1/1 | 0.58 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1798 | 1/1 | 0.18 | - | 117,117,117,117 | 0 |
| 55 | MG | CA | 3635 | 1/1 | 0.48 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4911 | 1/1 | 0.49 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 4168 | 1/1 | 0.18 | - | 64,64,64,64 | 0 |
| 55 | MG | DW | 109 | 1/1 | 0.29 | - | 85,85,85,85 | 0 |
| 55 | MG | CB | 261 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3777 | 1/1 | 0.59 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4338 | 1/1 | 0.56 | - | 96,96,96,96 | 0 |
| 55 | MG | DV | 122 | 1/1 | 0.43 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 1874 | 1/1 | 0.47 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4827 | 1/1 | 0.30 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4424 | 1/1 | 0.48 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4281 | 1/1 | 0.22 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1639 | 1/1 | 0.33 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2156 | 1/1 | 0.29 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3281 | 1/1 | 0.19 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1797 | 1/1 | 0.27 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1657 | 1/1 | 0.16 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1812 | 1/1 | 0.92 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3091 | 1/1 | 0.43 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1677 | 1/1 | 0.57 | - | 124,124,124,124 | 0 |
| 55 | MG | AA | 4767 | 1/1 | 0.53 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4838 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | CB | 253 | 1/1 | 0.10 | - | 76,76,76,76 | 0 |
| 55 | MG | DA | 2164 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4515 | 1/1 | 0.22 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4304 | 1/1 | 0.18 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4181 | 1/1 | 0.52 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3009 | 1/1 | 0.45 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 5217 | 1/1 | 0.47 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 2009 | 1/1 | 0.30 | - | 55,55,55,55 | 0 |
| 55 | MG | DR | 102 | 1/1 | 0.47 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4546 | 1/1 | 0.52 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4590 | 1/1 | 0.58 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 1696 | 1/1 | 0.40 | - | 50,50,50,50 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2198 | 1/1 | 0.53 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 5288 | 1/1 | 0.57 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3624 | 1/1 | 0.36 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3135 | 1/1 | 0.12 | - | 17,17,17,17 | 0 |
| 55 | MG | CA | 4279 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5220 | 1/1 | 0.30 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1709 | 1/1 | 0.14 | - | 42,42,42,42 | 0 |
| 55 | MG | CB | 214 | 1/1 | 0.21 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5229 | 1/1 | 0.47 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4527 | 1/1 | 0.10 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 5272 | 1/1 | 0.33 | - | 58,58,58,58 | 0 |
| 55 | MG | CB | 224 | 1/1 | 0.12 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1621 | 1/1 | 0.44 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4976 | 1/1 | 0.35 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 2146 | 1/1 | 0.33 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1728 | 1/1 | 0.28 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4477 | 1/1 | 0.39 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 2111 | 1/1 | 0.18 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4103 | 1/1 | 0.84 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1736 | 1/1 | 0.26 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4074 | 1/1 | 0.31 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4608 | 1/1 | 0.07 | - | 81,81,81,81 | 0 |
| 55 | MG | BQ | 202 | 1/1 | 0.39 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4483 | 1/1 | 0.19 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4752 | 1/1 | 0.52 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5145 | 1/1 | 0.34 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4786 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1834 | 1/1 | 0.36 | - | 123,123,123,123 | 0 |
| 55 | MG | BW | 111 | 1/1 | 0.21 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2083 | 1/1 | 0.66 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1700 | 1/1 | 0.21 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3678 | 1/1 | 0.26 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 2202 | 1/1 | 0.23 | - | 80,80,80,80 | 0 |
| 55 | MG | DA | 2127 | 1/1 | 0.39 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1894 | 1/1 | 0.26 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1780 | 1/1 | 0.23 | - | 72,72,72,72 | 0 |
| 55 | MG | BA | 1903 | 1/1 | 0.33 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 2957 | 1/1 | 0.31 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3287 | 1/1 | 0.30 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4286 | 1/1 | 0.09 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 4210 | 1/1 | 0.28 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3250 | 1/1 | 0.27 | - | 32,32,32,32 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5154 | 1/1 | 0.57 | - | 45,45,45,45 | 0 |
| 55 | MG | BA | 1979 | 1/1 | 0.10 | - | 64,64,64,64 | 0 |
| 55 | MG | DW | 115 | 1/1 | 0.10 | - | 127,127,127,127 | 0 |
| 55 | MG | BA | 1691 | 1/1 | 0.22 | - | 20,20,20,20 | 0 |
| 55 | MG | AA | 5018 | 1/1 | 0.18 | - | 44,44,44,44 | 0 |
| 55 | MG | CB | 226 | 1/1 | 0.16 | - | 40,40,40,40 | 0 |
| 55 | MG | AP | 201 | 1/1 | 0.17 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3725 | 1/1 | 0.17 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1993 | 1/1 | 0.56 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3207 | 1/1 | 0.16 | - | 14,14,14,14 | 0 |
| 55 | MG | DA | 1729 | 1/1 | 0.17 | - | 47,47,47,47 | 0 |
| 55 | MG | CB | 217 | 1/1 | 0.26 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1834 | 1/1 | 1.03 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1709 | 1/1 | 0.09 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 1811 | 1/1 | 0.66 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4264 | 1/1 | 0.39 | - | 32,32,32,32 | 0 |
| 55 | MG | AA | 4427 | 1/1 | 0.11 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4039 | 1/1 | 0.13 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3431 | 1/1 | 0.15 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4910 | 1/1 | 0.12 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1789 | 1/1 | 1.09 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 1791 | 1/1 | 0.09 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4510 | 1/1 | 0.92 | - | 167,167,167,167 | 0 |
| 55 | MG | CA | 3723 | 1/1 | 0.37 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4308 | 1/1 | 0.34 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4039 | 1/1 | 0.23 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4463 | 1/1 | 0.25 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3151 | 1/1 | 0.67 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4649 | 1/1 | 0.56 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3747 | 1/1 | 0.43 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3834 | 1/1 | 0.20 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4137 | 1/1 | 0.50 | - | 64,64,64,64 | 0 |
| 55 | MG | DV | 112 | 1/1 | 0.17 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3136 | 1/1 | 0.18 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 4306 | 1/1 | 0.38 | - | 53,53,53,53 | 0 |
| 55 | MG | AB | 248 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 2050 | 1/1 | 0.21 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5138 | 1/1 | 0.27 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3886 | 1/1 | 0.09 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1633 | 1/1 | 0.21 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3792 | 1/1 | 0.58 | - | 122,122,122,122 | 0 |
| 55 | MG | AA | 4419 | 1/1 | 0.38 | - | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4110 | 1/1 | 0.17 | - | 45,45,45,45 | 0 |
| 55 | MG | BA | 1632 | 1/1 | 0.49 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3339 | 1/1 | 0.12 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 4076 | 1/1 | 0.14 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 5082 | 1/1 | 0.30 | - | 72,72,72,72 | 0 |
| 55 | MG | DA | 2054 | 1/1 | 0.12 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 5072 | 1/1 | 0.19 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 2167 | 1/1 | 0.30 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4503 | 1/1 | 0.16 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3379 | 1/1 | 0.32 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 4205 | 1/1 | 0.56 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4996 | 1/1 | 0.26 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4195 | 1/1 | 0.18 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 4313 | 1/1 | 0.11 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4014 | 1/1 | 0.23 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 3007 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3359 | 1/1 | 0.41 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4356 | 1/1 | 0.34 | - | 33,33,33,33 | 0 |
| 55 | MG | DA | 2140 | 1/1 | 0.21 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 4163 | 1/1 | 0.39 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3060 | 1/1 | 0.28 | - | 100,100,100,100 | 0 |
| 55 | MG | AA | 4538 | 1/1 | 0.10 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 2983 | 1/1 | 0.11 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2068 | 1/1 | 0.30 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4060 | 1/1 | 0.21 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1823 | 1/1 | 0.42 | - | 103,103,103,103 | 0 |
| 55 | MG | CA | 4394 | 1/1 | 0.78 | - | 81,81,81,81 | 0 |
| 55 | MG | DA | 1623 | 1/1 | 0.20 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3320 | 1/1 | 0.38 | - | 42,42,42,42 | 0 |
| 55 | MG | DW | 103 | 1/1 | 0.06 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3599 | 1/1 | 0.32 | - | 46,46,46,46 | 0 |
| 55 | MG | CF | 304 | 1/1 | 0.43 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4015 | 1/1 | 0.26 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1851 | 1/1 | 0.28 | - | 102,102,102,102 | 0 |
| 55 | MG | CA | 3490 | 1/1 | 0.40 | - | 146,146,146,146 | 0 |
| 55 | MG | AA | 4920 | 1/1 | 0.14 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3090 | 1/1 | 0.39 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 2019 | 1/1 | 0.55 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 1905 | 1/1 | 0.34 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4332 | 1/1 | 0.28 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4067 | 1/1 | 0.30 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3818 | 1/1 | 0.43 | - | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1668 | 1/1 | 0.74 | - | 93,93,93,93 | 0 |
| 55 | MG | DA | 1801 | 1/1 | 0.12 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 2128 | 1/1 | 0.17 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3805 | 1/1 | 0.21 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 5111 | 1/1 | 0.45 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3618 | 1/1 | 0.23 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 2095 | 1/1 | 0.19 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4541 | 1/1 | 0.32 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4255 | 1/1 | 0.12 | - | 89,89,89,89 | 0 |
| 55 | MG | BA | 1902 | 1/1 | 0.43 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3029 | 1/1 | 0.12 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1876 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1970 | 1/1 | 0.26 | - | 30,30,30,30 | 0 |
| 55 | MG | BA | 1762 | 1/1 | 0.63 | - | 71,71,71,71 | 0 |
| 55 | MG | AB | 237 | 1/1 | 0.62 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3197 | 1/1 | 0.40 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 3014 | 1/1 | 0.41 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 2074 | 1/1 | 0.61 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4054 | 1/1 | 0.44 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 1677 | 1/1 | 0.26 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4654 | 1/1 | 0.17 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4905 | 1/1 | 0.07 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4292 | 1/1 | 0.22 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3229 | 1/1 | 0.16 | - | 45,45,45,45 | 0 |
| 55 | MG | AB | 235 | 1/1 | 0.23 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3472 | 1/1 | 0.39 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3941 | 1/1 | 0.61 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4214 | 1/1 | 0.40 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3638 | 1/1 | 0.49 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4454 | 1/1 | 0.27 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4309 | 1/1 | 0.31 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4633 | 1/1 | 0.53 | - | 59,59,59,59 | 0 |
| 55 | MG | CB | 220 | 1/1 | 0.15 | - | 31,31,31,31 | 0 |
| 55 | MG | AA | 4966 | 1/1 | 0.10 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4574 | 1/1 | 0.87 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 5031 | 1/1 | 0.19 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4648 | 1/1 | 0.25 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 1672 | 1/1 | 0.28 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4943 | 1/1 | 0.29 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 2980 | 1/1 | 0.14 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3693 | 1/1 | 0.29 | - | 59,59,59,59 | 0 |
| 55 | MG | BV | 107 | 1/1 | 0.17 | - | 68,68,68,68 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4948 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4091 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 55 | MG | DA | 1676 | 1/1 | 0.38 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 1732 | 1/1 | 0.13 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3161 | 1/1 | 0.57 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 5022 | 1/1 | 0.38 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5136 | 1/1 | 0.33 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3362 | 1/1 | 0.30 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3294 | 1/1 | 0.12 | - | 31,31,31,31 | 0 |
| 55 | MG | AA | 4782 | 1/1 | 0.25 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1693 | 1/1 | 0.18 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4266 | 1/1 | 0.56 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4718 | 1/1 | 0.18 | - | 89,89,89,89 | 0 |
| 55 | MG | BA | 2019 | 1/1 | 0.27 | - | 83,83,83,83 | 0 |
| 55 | MG | DA | 1875 | 1/1 | 0.20 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2123 | 1/1 | 0.39 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 2938 | 1/1 | 0.68 | - | 107,107,107,107 | 0 |
| 55 | MG | DA | 1929 | 1/1 | 0.19 | - | 93,93,93,93 | 0 |
| 55 | MG | BA | 1806 | 1/1 | 0.12 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4036 | 1/1 | 0.37 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3861 | 1/1 | 0.21 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3195 | 1/1 | 0.12 | - | 20,20,20,20 | 0 |
| 55 | MG | BA | 1875 | 1/1 | 0.70 | - | 78,78,78,78 | 0 |
| 55 | MG | AB | 209 | 1/1 | 0.34 | - | 30,30,30,30 | 0 |
| 55 | MG | AB | 229 | 1/1 | 0.07 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4383 | 1/1 | 0.17 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 4236 | 1/1 | 0.46 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4051 | 1/1 | 0.14 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1780 | 1/1 | 0.87 | - | 83,83,83,83 | 0 |
| 55 | MG | DW | 121 | 1/1 | 0.40 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 1649 | 1/1 | 0.59 | - | 118,118,118,118 | 0 |
| 55 | MG | AA | 5041 | 1/1 | 0.25 | - | 84,84,84,84 | 0 |
| 55 | MG | DA | 2078 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4380 | 1/1 | 0.27 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4016 | 1/1 | 0.29 | - | 99,99,99,99 | 0 |
| 55 | MG | CA | 2982 | 1/1 | 0.36 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4107 | 1/1 | 0.26 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3686 | 1/1 | 0.55 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4821 | 1/1 | 0.30 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3724 | 1/1 | 0.20 | - | 60,60,60,60 | 0 |
| 55 | MG | BA | 1965 | 1/1 | 0.07 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1684 | 1/1 | 0.49 | - | 29,29,29,29 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5166 | 1/1 | 0.16 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4434 | 1/1 | 0.15 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4127 | 1/1 | 0.55 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3273 | 1/1 | 0.35 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 4273 | 1/1 | 0.35 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3684 | 1/1 | 0.30 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4736 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1784 | 1/1 | 0.07 | - | 133,133,133,133 | 0 |
| 55 | MG | BA | 2118 | 1/1 | 0.34 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3025 | 1/1 | 0.19 | - | 46,46,46,46 | 0 |
| 55 | MG | BA | 1737 | 1/1 | 0.23 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1982 | 1/1 | 0.21 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1833 | 1/1 | 0.43 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5248 | 1/1 | 0.43 | - | 59,59,59,59 | 0 |
| 55 | MG | AX | 102 | 1/1 | 0.19 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3561 | 1/1 | 0.47 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 2083 | 1/1 | 0.20 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 2955 | 1/1 | 0.38 | - | 52,52,52,52 | 0 |
| 55 | MG | AB | 202 | 1/1 | 0.45 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 4203 | 1/1 | 0.55 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 3367 | 1/1 | 0.74 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4855 | 1/1 | 0.24 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 1934 | 1/1 | 0.18 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 2106 | 1/1 | 0.68 | - | 124,124,124,124 | 0 |
| 55 | MG | AA | 4638 | 1/1 | 0.28 | - | 139,139,139,139 | 0 |
| 55 | MG | CA | 3674 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | BB | 301 | 1/1 | 0.21 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 2085 | 1/1 | 0.16 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1828 | 1/1 | 0.23 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4166 | 1/1 | 0.22 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4738 | 1/1 | 0.19 | - | 19,19,19,19 | 0 |
| 55 | MG | DA | 1740 | 1/1 | 0.34 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 2051 | 1/1 | 0.60 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4216 | 1/1 | 0.34 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 5001 | 1/1 | 0.64 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4094 | 1/1 | 0.24 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4248 | 1/1 | 0.36 | - | 39,39,39,39 | 0 |
| 55 | MG | CB | 237 | 1/1 | 0.28 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4888 | 1/1 | 0.26 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3068 | 1/1 | 0.28 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4851 | 1/1 | 0.24 | - | 16,16,16,16 | 0 |
| 55 | MG | AA | 4250 | 1/1 | 0.10 | - | 24,24,24,24 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4340 | 1/1 | 0.24 | - | 37,37,37,37 | 0 |
| 55 | MG | DA | 1650 | 1/1 | 0.81 | - | 116,116,116,116 | 0 |
| 55 | MG | CA | 4291 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3956 | 1/1 | 0.36 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 2175 | 1/1 | 0.16 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 5196 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4567 | 1/1 | 0.60 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4957 | 1/1 | 0.21 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3895 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 55 | MG | BW | 118 | 1/1 | 0.54 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 2119 | 1/1 | 0.25 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3326 | 1/1 | 0.49 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4200 | 1/1 | 0.29 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4081 | 1/1 | 0.24 | - | 49,49,49,49 | 0 |
| 55 | MG | DA | 1900 | 1/1 | 0.10 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3496 | 1/1 | 0.14 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 2901 | 1/1 | 0.46 | - | 20,20,20,20 | 0 |
| 55 | MG | CA | 4192 | 1/1 | 0.38 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 2097 | 1/1 | 0.39 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3220 | 1/1 | 0.17 | - | 12,12,12,12 | 0 |
| 55 | MG | AB | 217 | 1/1 | 0.18 | - | 84,84,84,84 | 0 |
| 55 | MG | BA | 1983 | 1/1 | 0.31 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3502 | 1/1 | 0.23 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 4117 | 1/1 | 1.30 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3716 | 1/1 | 0.52 | - | 105,105,105,105 | 0 |
| 55 | MG | CA | 3893 | 1/1 | 0.33 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1603 | 1/1 | 0.62 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4195 | 1/1 | 0.99 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 4040 | 1/1 | 0.29 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 4310 | 1/1 | 0.27 | - | 44,44,44,44 | 0 |
| 55 | MG | BV | 127 | 1/1 | 0.19 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4800 | 1/1 | 0.28 | - | 121,121,121,121 | 0 |
| 55 | MG | CA | 3854 | 1/1 | 0.35 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4053 | 1/1 | 0.18 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 3399 | 1/1 | 0.45 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3786 | 1/1 | 0.66 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1656 | 1/1 | 0.42 | - | 70,70,70,70 | 0 |
| 55 | MG | CB | 231 | 1/1 | 0.22 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5187 | 1/1 | 0.21 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3609 | 1/1 | 0.30 | - | 77,77,77,77 | 0 |
| 55 | MG | DW | 102 | 1/1 | 0.50 | - | 76,76,76,76 | 0 |
| 55 | MG | CF | 303 | 1/1 | 1.06 | - | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3464 | 1/1 | 0.19 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 1652 | 1/1 | 0.26 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 3787 | 1/1 | 0.15 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3118 | 1/1 | 0.44 | - | 14,14,14,14 | 0 |
| 55 | MG | DA | 1880 | 1/1 | 0.36 | - | 104,104,104,104 | 0 |
| 55 | MG | CA | 3698 | 1/1 | 0.20 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4764 | 1/1 | 0.20 | - | 112,112,112,112 | 0 |
| 55 | MG | DA | 2153 | 1/1 | 0.62 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4131 | 1/1 | 0.19 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3768 | 1/1 | 0.36 | - | 84,84,84,84 | 0 |
| 55 | MG | DA | 2069 | 1/1 | 0.57 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4769 | 1/1 | 0.66 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3444 | 1/1 | 0.24 | - | 48,48,48,48 | 0 |
| 55 | MG | C4 | 102 | 1/1 | 0.77 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 2134 | 1/1 | 0.22 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5081 | 1/1 | 0.10 | - | 92,92,92,92 | 0 |
| 54 | BLS | AA | 4001 | 30/30 | 0.43 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3770 | 1/1 | 0.17 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4187 | 1/1 | 0.74 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 5073 | 1/1 | 0.14 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3559 | 1/1 | 0.21 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4072 | 1/1 | 0.34 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5281 | 1/1 | 0.23 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4692 | 1/1 | 0.29 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3495 | 1/1 | 0.36 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 5241 | 1/1 | 0.25 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4670 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4384 | 1/1 | 0.49 | - | 65,65,65,65 | 0 |
| 55 | MG | C3 | 102 | 1/1 | 0.16 | - | 46,46,46,46 | 0 |
| 55 | MG | DV | 121 | 1/1 | 0.13 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3766 | 1/1 | 0.30 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 1612 | 1/1 | 0.43 | - | 141,141,141,141 | 0 |
| 55 | MG | CA | 3441 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2161 | 1/1 | 0.19 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4615 | 1/1 | 0.31 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3063 | 1/1 | 0.18 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3580 | 1/1 | 0.39 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4323 | 1/1 | 0.35 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1617 | 1/1 | 0.15 | - | 99,99,99,99 | 0 |
| 55 | MG | BA | 1878 | 1/1 | 0.20 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1788 | 1/1 | 0.59 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3170 | 1/1 | 0.19 | - | 24,24,24,24 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4154 | 1/1 | 0.46 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3011 | 1/1 | 0.39 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3146 | 1/1 | 0.55 | - | 24,24,24,24 | 0 |
| 55 | MG | BA | 2062 | 1/1 | 0.31 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3885 | 1/1 | 0.47 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1778 | 1/1 | 0.28 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5065 | 1/1 | 0.31 | - | 44,44,44,44 | 0 |
| 55 | MG | A3 | 103 | 1/1 | 0.65 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4084 | 1/1 | 0.20 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1858 | 1/1 | 0.68 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4321 | 1/1 | 0.47 | - | 63,63,63,63 | 0 |
| 55 | MG | AE | 301 | 1/1 | 0.44 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4681 | 1/1 | 0.57 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 2005 | 1/1 | 0.41 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3477 | 1/1 | 0.15 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4190 | 1/1 | 0.42 | - | 23,23,23,23 | 0 |
| 55 | MG | AA | 5208 | 1/1 | 0.40 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 4136 | 1/1 | 0.65 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3963 | 1/1 | 0.31 | - | 24,24,24,24 | 0 |
| 55 | MG | BA | 1932 | 1/1 | 0.84 | - | 99,99,99,99 | 0 |
| 55 | MG | AA | 4937 | 1/1 | 0.15 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 1896 | 1/1 | 0.46 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5238 | 1/1 | 0.34 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3884 | 1/1 | 0.79 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 4079 | 1/1 | 0.36 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4170 | 1/1 | 0.41 | - | 22,22,22,22 | 0 |
| 55 | MG | AA | 5105 | 1/1 | 0.20 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4868 | 1/1 | 0.73 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 1760 | 1/1 | 0.33 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4443 | 1/1 | 0.27 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3297 | 1/1 | 0.45 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4348 | 1/1 | 0.37 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3688 | 1/1 | 0.40 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 1842 | 1/1 | 0.45 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4894 | 1/1 | 0.16 | - | 93,93,93,93 | 0 |
| 55 | MG | DA | 2186 | 1/1 | 0.15 | - | 71,71,71,71 | 0 |
| 55 | MG | DK | 201 | 1/1 | 0.28 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4013 | 1/1 | 0.32 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4680 | 1/1 | 0.38 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 5119 | 1/1 | 0.49 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4227 | 1/1 | 0.11 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3377 | 1/1 | 0.12 | - | 44,44,44,44 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DV | 106 | 1/1 | 0.07 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3394 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4451 | 1/1 | 0.38 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3201 | 1/1 | 0.40 | - | 24,24,24,24 | 0 |
| 55 | MG | DA | 2154 | 1/1 | 0.32 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3675 | 1/1 | 0.18 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3577 | 1/1 | 0.69 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1610 | 1/1 | 0.21 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4240 | 1/1 | 0.29 | - | 32,32,32,32 | 0 |
| 55 | MG | BA | 1761 | 1/1 | 0.40 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3999 | 1/1 | 0.33 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4700 | 1/1 | 0.43 | - | 107,107,107,107 | 0 |
| 55 | MG | AA | 4543 | 1/1 | 0.27 | - | 77,77,77,77 | 0 |
| 55 | MG | AG | 202 | 1/1 | 0.44 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4283 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4780 | 1/1 | 0.80 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4238 | 1/1 | 0.19 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 3519 | 1/1 | 0.25 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4102 | 1/1 | 0.51 | - | 58,58,58,58 | 0 |
| 55 | MG | BV | 124 | 1/1 | 0.22 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2028 | 1/1 | 0.20 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4220 | 1/1 | 0.11 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4469 | 1/1 | 0.15 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4279 | 1/1 | 0.24 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 4109 | 1/1 | 0.42 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4289 | 1/1 | 0.21 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4396 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 1881 | 1/1 | 0.29 | - | 68,68,68,68 | 0 |
| 55 | MG | AB | 243 | 1/1 | 0.64 | - | 164,164,164,164 | 0 |
| 55 | MG | AA | 5013 | 1/1 | 0.15 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4152 | 1/1 | 0.24 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3947 | 1/1 | 0.13 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4215 | 1/1 | 0.24 | - | 19,19,19,19 | 0 |
| 55 | MG | CA | 3949 | 1/1 | 0.79 | - | 110,110,110,110 | 0 |
| 55 | MG | CA | 4307 | 1/1 | 0.23 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4122 | 1/1 | 0.30 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4361 | 1/1 | 0.28 | - | 47,47,47,47 | 0 |
| 55 | MG | AR | 205 | 1/1 | 0.31 | - | 110,110,110,110 | 0 |
| 55 | MG | DA | 1640 | 1/1 | 0.28 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4070 | 1/1 | 0.31 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3891 | 1/1 | 0.37 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3771 | 1/1 | 0.57 | - | 111,111,111,111 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5027 | 1/1 | 0.10 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3590 | 1/1 | 0.23 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4367 | 1/1 | 0.31 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1630 | 1/1 | 0.50 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3072 | 1/1 | 0.55 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3957 | 1/1 | 0.66 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5278 | 1/1 | 0.31 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 2183 | 1/1 | 0.31 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4167 | 1/1 | 0.29 | - | 68,68,68,68 | 0 |
| 55 | MG | CB | 209 | 1/1 | 0.80 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4793 | 1/1 | 0.66 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3117 | 1/1 | 0.21 | - | 17,17,17,17 | 0 |
| 55 | MG | CA | 3147 | 1/1 | 0.44 | - | 12,12,12,12 | 0 |
| 55 | MG | BA | 1753 | 1/1 | 0.43 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5120 | 1/1 | 0.32 | - | 80,80,80,80 | 0 |
| 55 | MG | DA | 1739 | 1/1 | 0.13 | - | 35,35,35,35 | 0 |
| 55 | MG | DA | 1916 | 1/1 | 0.63 | - | 87,87,87,87 | 0 |
| 55 | MG | BA | 1820 | 1/1 | 0.36 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4025 | 1/1 | 0.32 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3547 | 1/1 | 0.20 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 3844 | 1/1 | 0.37 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3336 | 1/1 | 0.26 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 2040 | 1/1 | 0.61 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4404 | 1/1 | 0.51 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2190 | 1/1 | 0.21 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3163 | 1/1 | 0.46 | - | 16,16,16,16 | 0 |
| 55 | MG | DA | 1777 | 1/1 | 0.31 | - | 124,124,124,124 | 0 |
| 55 | MG | BA | 1784 | 1/1 | 0.35 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3047 | 1/1 | 0.61 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4865 | 1/1 | 0.60 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 1716 | 1/1 | 0.14 | - | 51,51,51,51 | 0 |
| 55 | MG | AB | 210 | 1/1 | 0.38 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3801 | 1/1 | 0.15 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3242 | 1/1 | 0.21 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 4185 | 1/1 | 0.44 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4154 | 1/1 | 0.94 | - | 61,61,61,61 | 0 |
| 55 | MG | DT | 201 | 1/1 | 0.21 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3417 | 1/1 | 0.16 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3847 | 1/1 | 0.51 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4480 | 1/1 | 0.30 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3604 | 1/1 | 0.39 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3985 | 1/1 | 0.25 | - | 22,22,22,22 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4030 | 1/1 | 0.84 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5255 | 1/1 | 0.39 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4604 | 1/1 | 0.29 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1991 | 1/1 | 0.48 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3215 | 1/1 | 0.15 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 4927 | 1/1 | 0.28 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1625 | 1/1 | 0.27 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 3364 | 1/1 | 0.16 | - | 20,20,20,20 | 0 |
| 55 | MG | AA | 5118 | 1/1 | 0.59 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1845 | 1/1 | 0.12 | - | 103,103,103,103 | 0 |
| 55 | MG | DA | 1941 | 1/1 | 0.28 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4238 | 1/1 | 0.30 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 1741 | 1/1 | 0.21 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4244 | 1/1 | 0.23 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 5205 | 1/1 | 0.20 | - | 83,83,83,83 | 0 |
| 55 | MG | DA | 1667 | 1/1 | 0.15 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4389 | 1/1 | 0.21 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4159 | 1/1 | 0.21 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3721 | 1/1 | 0.37 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 2998 | 1/1 | 0.44 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3823 | 1/1 | 0.22 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 5231 | 1/1 | 0.46 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3282 | 1/1 | 0.19 | - | 25,25,25,25 | 0 |
| 55 | MG | DA | 1890 | 1/1 | 0.13 | - | 97,97,97,97 | 0 |
| 55 | MG | DA | 1705 | 1/1 | 0.74 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 4448 | 1/1 | 0.14 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4332 | 1/1 | 0.56 | - | 74,74,74,74 | 0 |
| 55 | MG | AB | 228 | 1/1 | 0.17 | - | 75,75,75,75 | 0 |
| 55 | MG | C5 | 103 | 1/1 | 0.14 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 2060 | 1/1 | 0.77 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3134 | 1/1 | 0.24 | - | 14,14,14,14 | 0 |
| 55 | MG | BA | 1810 | 1/1 | 0.51 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 4073 | 1/1 | 0.44 | - | 45,45,45,45 | 0 |
| 55 | MG | AB | 212 | 1/1 | 0.09 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4177 | 1/1 | 0.51 | - | 9,9,9,9 | 0 |
| 55 | MG | CA | 3603 | 1/1 | 0.16 | - | 57,57,57,57 | 0 |
| 55 | MG | C5 | 101 | 1/1 | 0.57 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3780 | 1/1 | 0.17 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4560 | 1/1 | 0.21 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 2963 | 1/1 | 0.25 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4891 | 1/1 | 0.15 | - | 25,25,25,25 | 0 |
| 55 | MG | DA | 1920 | 1/1 | 0.53 | - | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1648 | 1/1 | 0.33 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1862 | 1/1 | 0.33 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1831 | 1/1 | 0.31 | - | 99,99,99,99 | 0 |
| 55 | MG | CA | 3264 | 1/1 | 0.22 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 2075 | 1/1 | 0.18 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3050 | 1/1 | 0.30 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 4069 | 1/1 | 0.28 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4897 | 1/1 | 0.09 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 4360 | 1/1 | 0.28 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 4282 | 1/1 | 0.48 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1708 | 1/1 | 0.22 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3789 | 1/1 | 0.49 | - | 94,94,94,94 | 0 |
| 55 | MG | AA | 4617 | 1/1 | 0.20 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 2176 | 1/1 | 0.35 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4097 | 1/1 | 0.56 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4318 | 1/1 | 0.24 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4517 | 1/1 | 0.45 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5137 | 1/1 | 0.54 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 2951 | 1/1 | 0.48 | - | 125,125,125,125 | 0 |
| 55 | MG | AA | 4327 | 1/1 | 0.09 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1750 | 1/1 | 0.50 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3315 | 1/1 | 0.51 | - | 29,29,29,29 | 0 |
| 55 | MG | BA | 1612 | 1/1 | 0.26 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4134 | 1/1 | 0.29 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4065 | 1/1 | 0.37 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 4166 | 1/1 | 0.47 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3579 | 1/1 | 0.11 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 2915 | 1/1 | 0.21 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3288 | 1/1 | 0.84 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3815 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4594 | 1/1 | 0.90 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 1975 | 1/1 | 0.46 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3093 | 1/1 | 0.31 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4059 | 1/1 | 0.34 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1668 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 55 | MG | A5 | 101 | 1/1 | 0.27 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 4123 | 1/1 | 0.55 | - | 74,74,74,74 | 0 |
| 55 | MG | CB | 203 | 1/1 | 0.26 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 3240 | 1/1 | 0.55 | - | 33,33,33,33 | 0 |
| 55 | MG | BA | 1760 | 1/1 | 0.17 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4113 | 1/1 | 0.58 | - | 84,84,84,84 | 0 |
| 55 | MG | BA | 2076 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4264 | 1/1 | 0.12 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4088 | 1/1 | 0.24 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4523 | 1/1 | 0.42 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4913 | 1/1 | 0.23 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4175 | 1/1 | 0.32 | - | 14,14,14,14 | 0 |
| 55 | MG | AA | 4741 | 1/1 | 0.45 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2085 | 1/1 | 0.36 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4054 | 1/1 | 0.79 | - | 33,33,33,33 | 0 |
| 55 | MG | CB | 219 | 1/1 | 0.27 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3425 | 1/1 | 0.09 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4168 | 1/1 | 0.55 | - | 65,65,65,65 | 0 |
| 55 | MG | CB | 242 | 1/1 | 0.29 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1775 | 1/1 | 0.51 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2142 | 1/1 | 0.35 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5063 | 1/1 | 0.50 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4452 | 1/1 | 0.08 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3075 | 1/1 | 1.16 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1985 | 1/1 | 0.33 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3466 | 1/1 | 0.22 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3463 | 1/1 | 0.46 | - | 70,70,70,70 | 0 |
| 55 | MG | AS | 201 | 1/1 | 0.44 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4119 | 1/1 | 0.53 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1665 | 1/1 | 0.30 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1610 | 1/1 | 0.55 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 5043 | 1/1 | 0.28 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4031 | 1/1 | 0.09 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4570 | 1/1 | 0.29 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4832 | 1/1 | 0.28 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 1824 | 1/1 | 0.36 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3523 | 1/1 | 0.32 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4932 | 1/1 | 0.32 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 4327 | 1/1 | 0.24 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4075 | 1/1 | 0.29 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4185 | 1/1 | 0.32 | - | 16,16,16,16 | 0 |
| 55 | MG | DA | 1850 | 1/1 | 0.19 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 5059 | 1/1 | 0.45 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5159 | 1/1 | 0.86 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2040 | 1/1 | 0.33 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4028 | 1/1 | 0.36 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3292 | 1/1 | 0.24 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 4386 | 1/1 | 0.47 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3682 | 1/1 | 0.07 | - | 93,93,93,93 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1608 | 1/1 | 0.20 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2065 | 1/1 | 0.21 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4051 | 1/1 | 0.20 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 2002 | 1/1 | 0.16 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1993 | 1/1 | 0.22 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 4083 | 1/1 | 0.08 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 4385 | 1/1 | 0.11 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 2132 | 1/1 | 0.07 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3328 | 1/1 | 0.57 | - | 49,49,49,49 | 0 |
| 55 | MG | DH | 203 | 1/1 | 0.95 | - | 102,102,102,102 | 0 |
| 55 | MG | BO | 101 | 1/1 | 0.49 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 2100 | 1/1 | 0.32 | - | 112,112,112,112 | 0 |
| 55 | MG | DA | 1979 | 1/1 | 0.16 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5087 | 1/1 | 0.35 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3727 | 1/1 | 0.44 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 1731 | 1/1 | 0.29 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3122 | 1/1 | 0.40 | - | 11,11,11,11 | 0 |
| 55 | MG | BA | 1622 | 1/1 | 0.35 | - | 122,122,122,122 | 0 |
| 55 | MG | BA | 1809 | 1/1 | 0.21 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3687 | 1/1 | 0.65 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4081 | 1/1 | 0.26 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1719 | 1/1 | 0.16 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 2030 | 1/1 | 0.49 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1886 | 1/1 | 0.22 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3217 | 1/1 | 0.28 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4624 | 1/1 | 0.07 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3308 | 1/1 | 0.29 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3567 | 1/1 | 0.33 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1695 | 1/1 | 0.24 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2193 | 1/1 | 0.20 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1626 | 1/1 | 1.12 | - | 123,123,123,123 | 0 |
| 55 | MG | CA | 3591 | 1/1 | 0.40 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1861 | 1/1 | 0.25 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1923 | 1/1 | 0.42 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3856 | 1/1 | 0.27 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 2061 | 1/1 | 0.20 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4708 | 1/1 | 0.48 | - | 72,72,72,72 | 0 |
| 55 | MG | BA | 1660 | 1/1 | 0.24 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4791 | 1/1 | 0.38 | - | 57,57,57,57 | 0 |
| 55 | MG | DV | 104 | 1/1 | 0.36 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4516 | 1/1 | 0.37 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3299 | 1/1 | 0.18 | - | 21,21,21,21 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4345 | 1/1 | 0.22 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1777 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3473 | 1/1 | 0.24 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 4344 | 1/1 | 0.23 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4233 | 1/1 | 0.36 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 3261 | 1/1 | 0.46 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4711 | 1/1 | 0.11 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1835 | 1/1 | 0.20 | - | 85,85,85,85 | 0 |
| 55 | MG | DA | 2075 | 1/1 | 0.19 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4532 | 1/1 | 0.46 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1759 | 1/1 | 0.28 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4898 | 1/1 | 0.26 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4716 | 1/1 | 0.42 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3894 | 1/1 | 0.22 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2130 | 1/1 | 0.31 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4042 | 1/1 | 0.50 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 4380 | 1/1 | 0.44 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3677 | 1/1 | 0.41 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 4167 | 1/1 | 0.14 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4023 | 1/1 | 0.45 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4472 | 1/1 | 0.18 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1943 | 1/1 | 0.35 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4885 | 1/1 | 0.26 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1853 | 1/1 | 0.11 | - | 102,102,102,102 | 0 |
| 55 | MG | CA | 3405 | 1/1 | 0.32 | - | 32,32,32,32 | 0 |
| 55 | MG | BA | 2092 | 1/1 | 0.43 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 5165 | 1/1 | 0.57 | - | 62,62,62,62 | 0 |
| 55 | MG | AX | 105 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3914 | 1/1 | 1.35 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4589 | 1/1 | 0.32 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3306 | 1/1 | 0.30 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 5051 | 1/1 | 0.38 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4880 | 1/1 | 0.21 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 2094 | 1/1 | 0.38 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3745 | 1/1 | 0.38 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3036 | 1/1 | 0.60 | - | 77,77,77,77 | 0 |
| 55 | MG | DW | 120 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4197 | 1/1 | 0.66 | - | 33,33,33,33 | 0 |
| 55 | MG | AA | 4066 | 1/1 | 0.35 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3826 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4123 | 1/1 | 0.42 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 5033 | 1/1 | 0.30 | - | 88,88,88,88 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4337 | 1/1 | 0.41 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4475 | 1/1 | 0.07 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 2923 | 1/1 | 0.25 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4164 | 1/1 | 0.31 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1682 | 1/1 | 0.54 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4331 | 1/1 | 0.28 | - | 34,34,34,34 | 0 |
| 55 | MG | DA | 1873 | 1/1 | 0.27 | - | 90,90,90,90 | 0 |
| 55 | MG | AY | 101 | 1/1 | 0.42 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 2950 | 1/1 | 0.65 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4087 | 1/1 | 0.35 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 4398 | 1/1 | 0.42 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1981 | 1/1 | 0.19 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1949 | 1/1 | 0.51 | - | 102,102,102,102 | 0 |
| 55 | MG | CA | 3317 | 1/1 | 0.09 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3211 | 1/1 | 0.23 | - | 28,28,28,28 | 0 |
| 55 | MG | BA | 1811 | 1/1 | 0.15 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1786 | 1/1 | 0.37 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3069 | 1/1 | 0.79 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 4284 | 1/1 | 0.38 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3992 | 1/1 | 0.19 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 2034 | 1/1 | 0.12 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 2156 | 1/1 | 1.03 | - | 97,97,97,97 | 0 |
| 55 | MG | AA | 4890 | 1/1 | 0.34 | - | 37,37,37,37 | 0 |
| 55 | MG | DA | 1614 | 1/1 | 0.31 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1981 | 1/1 | 0.13 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 4293 | 1/1 | 0.27 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3311 | 1/1 | 0.10 | - | 20,20,20,20 | 0 |
| 55 | MG | DA | 1841 | 1/1 | 1.00 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3650 | 1/1 | 0.23 | - | 122,122,122,122 | 0 |
| 55 | MG | BA | 1974 | 1/1 | 0.31 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4141 | 1/1 | 0.40 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 2110 | 1/1 | 0.14 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4459 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 55 | MG | CE | 303 | 1/1 | 0.24 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 3285 | 1/1 | 0.33 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3545 | 1/1 | 0.25 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1950 | 1/1 | 0.20 | - | 155,155,155,155 | 0 |
| 55 | MG | CA | 2906 | 1/1 | 0.48 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 5284 | 1/1 | 0.26 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 5202 | 1/1 | 0.39 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4133 | 1/1 | 0.71 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3428 | 1/1 | 0.14 | - | 35,35,35,35 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1901 | 1/1 | 1.06 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3460 | 1/1 | 0.44 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4642 | 1/1 | 0.78 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3655 | 1/1 | 0.49 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4064 | 1/1 | 0.46 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4120 | 1/1 | 0.27 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3585 | 1/1 | 0.29 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 4311 | 1/1 | 0.28 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4939 | 1/1 | 0.52 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4028 | 1/1 | 0.23 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4171 | 1/1 | 0.19 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 4746 | 1/1 | 0.22 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3645 | 1/1 | 0.49 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4022 | 1/1 | 0.24 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4585 | 1/1 | 0.38 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3511 | 1/1 | 0.30 | - | 46,46,46,46 | 0 |
| 55 | MG | BA | 2152 | 1/1 | 0.73 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 2108 | 1/1 | 0.40 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4978 | 1/1 | 0.12 | - | 99,99,99,99 | 0 |
| 55 | MG | BA | 1874 | 1/1 | 0.36 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1660 | 1/1 | 0.25 | - | 126,126,126,126 | 0 |
| 55 | MG | DA | 2091 | 1/1 | 0.41 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 2063 | 1/1 | 0.49 | - | 37,37,37,37 | 0 |
| 55 | MG | CV | 203 | 1/1 | 0.20 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 4303 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 2098 | 1/1 | 0.59 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 4149 | 1/1 | 0.14 | - | 39,39,39,39 | 0 |
| 55 | MG | CS | 203 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3696 | 1/1 | 0.19 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4368 | 1/1 | 0.17 | - | 38,38,38,38 | 0 |
| 55 | MG | CA | 3348 | 1/1 | 0.45 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 1986 | 1/1 | 0.18 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3911 | 1/1 | 0.22 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 2035 | 1/1 | 0.68 | - | 59,59,59,59 | 0 |
| 55 | MG | DM | 201 | 1/1 | 0.28 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1864 | 1/1 | 0.08 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 4393 | 1/1 | 0.29 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 2926 | 1/1 | 0.73 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3592 | 1/1 | 0.17 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1606 | 1/1 | 0.44 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4307 | 1/1 | 0.70 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 4162 | 1/1 | 0.24 | - | 62,62,62,62 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1611 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1860 | 1/1 | 0.31 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5092 | 1/1 | 0.19 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3762 | 1/1 | 0.25 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1796 | 1/1 | 0.33 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4744 | 1/1 | 0.44 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4301 | 1/1 | 0.38 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4249 | 1/1 | 0.60 | - | 84,84,84,84 | 0 |
| 55 | MG | BA | 2007 | 1/1 | 0.23 | - | 82,82,82,82 | 0 |
| 55 | MG | CR | 201 | 1/1 | 0.12 | - | 17,17,17,17 | 0 |
| 55 | MG | AA | 4735 | 1/1 | 0.14 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3208 | 1/1 | 0.09 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4707 | 1/1 | 0.42 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4690 | 1/1 | 0.27 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4379 | 1/1 | 0.35 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1726 | 1/1 | 0.13 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 2036 | 1/1 | 0.26 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3750 | 1/1 | 0.33 | - | 140,140,140,140 | 0 |
| 55 | MG | CA | 3042 | 1/1 | 0.25 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4376 | 1/1 | 0.12 | - | 53,53,53,53 | 0 |
| 55 | MG | DV | 117 | 1/1 | 0.16 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4816 | 1/1 | 0.23 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4619 | 1/1 | 0.27 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1743 | 1/1 | 0.10 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3627 | 1/1 | 0.15 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1926 | 1/1 | 0.13 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3378 | 1/1 | 0.15 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4750 | 1/1 | 0.87 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5163 | 1/1 | 0.37 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4161 | 1/1 | 0.14 | - | 46,46,46,46 | 0 |
| 55 | MG | AB | 225 | 1/1 | 0.23 | - | 89,89,89,89 | 0 |
| 55 | MG | DV | 111 | 1/1 | 0.23 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3173 | 1/1 | 0.24 | - | 14,14,14,14 | 0 |
| 55 | MG | AA | 5218 | 1/1 | 0.29 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3278 | 1/1 | 0.20 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 2028 | 1/1 | 0.55 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 4144 | 1/1 | 0.43 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4145 | 1/1 | 0.32 | - | 147,147,147,147 | 0 |
| 55 | MG | DA | 1701 | 1/1 | 0.36 | - | 43,43,43,43 | 0 |
| 55 | MG | C4 | 101 | 1/1 | 1.19 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3570 | 1/1 | 0.27 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3432 | 1/1 | 0.28 | - | 32,32,32,32 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1988 | 1/1 | 0.06 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 2947 | 1/1 | 0.40 | - | 38,38,38,38 | 0 |
| 55 | MG | CB | 249 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 5021 | 1/1 | 0.28 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4748 | 1/1 | 0.30 | - | 104,104,104,104 | 0 |
| 55 | MG | BA | 2166 | 1/1 | 0.24 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4621 | 1/1 | 0.32 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4879 | 1/1 | 0.43 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1617 | 1/1 | 0.17 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3032 | 1/1 | 0.35 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3345 | 1/1 | 0.51 | - | 48,48,48,48 | 0 |
| 55 | MG | DA | 2141 | 1/1 | 0.17 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3968 | 1/1 | 0.27 | - | 33,33,33,33 | 0 |
| 55 | MG | BA | 1609 | 1/1 | 0.53 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4261 | 1/1 | 0.36 | - | 34,34,34,34 | 0 |
| 55 | MG | DA | 1986 | 1/1 | 0.63 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4928 | 1/1 | 0.79 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3975 | 1/1 | 0.39 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 4856 | 1/1 | 0.18 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 1646 | 1/1 | 0.40 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 5250 | 1/1 | 0.86 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3471 | 1/1 | 0.28 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3864 | 1/1 | 0.49 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5289 | 1/1 | 0.12 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5194 | 1/1 | 0.77 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1631 | 1/1 | 0.47 | - | 71,71,71,71 | 0 |
| 55 | MG | BV | 125 | 1/1 | 0.31 | - | 81,81,81,81 | 0 |
| 55 | MG | BA | 1952 | 1/1 | 0.25 | - | 22,22,22,22 | 0 |
| 55 | MG | AA | 4085 | 1/1 | 0.28 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 5140 | 1/1 | 0.34 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4373 | 1/1 | 0.44 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3111 | 1/1 | 0.29 | - | 12,12,12,12 | 0 |
| 55 | MG | CA | 4343 | 1/1 | 0.33 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4050 | 1/1 | 0.17 | - | 84,84,84,84 | 0 |
| 55 | MG | DA | 1778 | 1/1 | 0.30 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 4014 | 1/1 | 0.16 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4044 | 1/1 | 0.36 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4892 | 1/1 | 0.05 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4218 | 1/1 | 0.16 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 4623 | 1/1 | 0.49 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3791 | 1/1 | 0.28 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 2022 | 1/1 | 0.35 | - | 39,39,39,39 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4462 | 1/1 | 0.36 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 2995 | 1/1 | 0.57 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3848 | 1/1 | 0.27 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4683 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | BW | 115 | 1/1 | 0.18 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4723 | 1/1 | 0.40 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3286 | 1/1 | 0.30 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 3107 | 1/1 | 0.57 | - | 20,20,20,20 | 0 |
| 55 | MG | BA | 1984 | 1/1 | 0.08 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3214 | 1/1 | 0.43 | - | 32,32,32,32 | 0 |
| 55 | MG | BA | 1726 | 1/1 | 0.34 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2044 | 1/1 | 0.24 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4222 | 1/1 | 0.34 | - | 23,23,23,23 | 0 |
| 55 | MG | DA | 2142 | 1/1 | 0.33 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3760 | 1/1 | 0.87 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4672 | 1/1 | 0.18 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1640 | 1/1 | 0.46 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4982 | 1/1 | 0.48 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4446 | 1/1 | 0.27 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1756 | 1/1 | 0.10 | - | 106,106,106,106 | 0 |
| 55 | MG | CA | 3124 | 1/1 | 0.28 | - | 17,17,17,17 | 0 |
| 55 | MG | AA | 5132 | 1/1 | 0.83 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 2104 | 1/1 | 0.17 | - | 124,124,124,124 | 0 |
| 55 | MG | AA | 4164 | 1/1 | 0.21 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4426 | 1/1 | 0.19 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 1928 | 1/1 | 0.76 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 2929 | 1/1 | 0.16 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 5267 | 1/1 | 0.83 | - | 96,96,96,96 | 0 |
| 55 | MG | DA | 1693 | 1/1 | 0.51 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 4729 | 1/1 | 0.16 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 2989 | 1/1 | 0.32 | - | 83,83,83,83 | 0 |
| 55 | MG | DA | 1963 | 1/1 | 0.12 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4213 | 1/1 | 0.55 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 1966 | 1/1 | 0.28 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4975 | 1/1 | 0.20 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 2170 | 1/1 | 0.15 | - | 105,105,105,105 | 0 |
| 55 | MG | DA | 1899 | 1/1 | 0.20 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4743 | 1/1 | 0.27 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 2192 | 1/1 | 0.52 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4296 | 1/1 | 0.27 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 1747 | 1/1 | 0.58 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 5039 | 1/1 | 0.57 | - | 51,51,51,51 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1803 | 1/1 | 0.10 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4582 | 1/1 | 0.21 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 1866 | 1/1 | 0.36 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5086 | 1/1 | 0.33 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 2054 | 1/1 | 0.22 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4401 | 1/1 | 0.20 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2103 | 1/1 | 0.38 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4467 | 1/1 | 0.10 | - | 36,36,36,36 | 0 |
| 55 | MG | CT | 101 | 1/1 | 0.42 | - | 51,51,51,51 | 0 |
| 55 | MG | BG | 201 | 1/1 | 0.37 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4088 | 1/1 | 0.36 | - | 120,120,120,120 | 0 |
| 55 | MG | C3 | 101 | 1/1 | 0.54 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5005 | 1/1 | 0.29 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4278 | 1/1 | 0.69 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1931 | 1/1 | 0.45 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 2910 | 1/1 | 0.18 | - | 145,145,145,145 | 0 |
| 55 | MG | AA | 4945 | 1/1 | 0.45 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2170 | 1/1 | 0.44 | - | 107,107,107,107 | 0 |
| 55 | MG | CL | 207 | 1/1 | 0.53 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3582 | 1/1 | 0.31 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4601 | 1/1 | 0.23 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1783 | 1/1 | 0.14 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3497 | 1/1 | 0.57 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 3165 | 1/1 | 0.52 | - | 26,26,26,26 | 0 |
| 55 | MG | CA | 4266 | 1/1 | 0.76 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1827 | 1/1 | 0.62 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 2115 | 1/1 | 1.43 | - | 92,92,92,92 | 0 |
| 55 | MG | CF | 305 | 1/1 | 0.26 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 2039 | 1/1 | 0.13 | - | 43,43,43,43 | 0 |
| 55 | MG | AB | 213 | 1/1 | 0.51 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 1996 | 1/1 | 0.13 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1970 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4150 | 1/1 | 0.40 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4216 | 1/1 | 0.12 | - | 18,18,18,18 | 0 |
| 55 | MG | CA | 3710 | 1/1 | 0.46 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4229 | 1/1 | 0.45 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 4260 | 1/1 | 0.48 | - | 35,35,35,35 | 0 |
| 55 | MG | DA | 1827 | 1/1 | 0.36 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4550 | 1/1 | 0.21 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5244 | 1/1 | 0.41 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1756 | 1/1 | 0.17 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4298 | 1/1 | 0.48 | - | 62,62,62,62 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4720 | 1/1 | 0.28 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 4271 | 1/1 | 0.26 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 4391 | 1/1 | 0.23 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5049 | 1/1 | 0.24 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4283 | 1/1 | 0.22 | - | 39,39,39,39 | 0 |
| 55 | MG | BV | 104 | 1/1 | 0.20 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 5188 | 1/1 | 0.26 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1652 | 1/1 | 0.67 | - | 84,84,84,84 | 0 |
| 55 | MG | DV | 109 | 1/1 | 0.09 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1613 | 1/1 | 0.33 | - | 60,60,60,60 | 0 |
| 55 | MG | BA | 1655 | 1/1 | 0.28 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3662 | 1/1 | 0.56 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4336 | 1/1 | 0.53 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1964 | 1/1 | 0.17 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3365 | 1/1 | 0.27 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4178 | 1/1 | 0.34 | - | 9,9,9,9 | 0 |
| 55 | MG | CA | 3996 | 1/1 | 0.24 | - | 49,49,49,49 | 0 |
| 55 | MG | CV | 204 | 1/1 | 0.14 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4057 | 1/1 | 0.62 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 1692 | 1/1 | 0.19 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1623 | 1/1 | 0.13 | - | 47,47,47,47 | 0 |
| 55 | MG | DA | 1789 | 1/1 | 0.13 | - | 90,90,90,90 | 0 |
| 55 | MG | BA | 1852 | 1/1 | 0.73 | - | 121,121,121,121 | 0 |
| 55 | MG | BA | 1734 | 1/1 | 0.17 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 2055 | 1/1 | 0.30 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3000 | 1/1 | 0.68 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4921 | 1/1 | 0.44 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3381 | 1/1 | 0.40 | - | 32,32,32,32 | 0 |
| 55 | MG | AB | 250 | 1/1 | 0.20 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4249 | 1/1 | 0.42 | - | 25,25,25,25 | 0 |
| 55 | MG | CB | 238 | 1/1 | 0.26 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3772 | 1/1 | 0.78 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1776 | 1/1 | 0.18 | - | 66,66,66,66 | 0 |
| 55 | MG | CI | 201 | 1/1 | 0.65 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4354 | 1/1 | 0.38 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 2081 | 1/1 | 0.21 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4733 | 1/1 | 0.12 | - | 20,20,20,20 | 0 |
| 55 | MG | DA | 2058 | 1/1 | 0.14 | - | 86,86,86,86 | 0 |
| 55 | MG | BA | 1885 | 1/1 | 0.15 | - | 60,60,60,60 | 0 |
| 55 | MG | CB | 257 | 1/1 | 0.72 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 2975 | 1/1 | 0.32 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1687 | 1/1 | 0.34 | - | 25,25,25,25 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2087 | 1/1 | 0.68 | - | 64,64,64,64 | 0 |
| 55 | MG | CB | 256 | 1/1 | 0.47 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 2162 | 1/1 | 0.08 | - | 38,38,38,38 | 0 |
| 55 | MG | CA | 3617 | 1/1 | 0.33 | - | 88,88,88,88 | 0 |
| 55 | MG | DA | 1995 | 1/1 | 0.45 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4155 | 1/1 | 0.45 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1734 | 1/1 | 0.75 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4399 | 1/1 | 0.14 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1625 | 1/1 | 0.29 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 4013 | 1/1 | 0.23 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1746 | 1/1 | 0.22 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4989 | 1/1 | 0.11 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3517 | 1/1 | 0.53 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1669 | 1/1 | 0.27 | - | 98,98,98,98 | 0 |
| 55 | MG | DA | 1826 | 1/1 | 0.46 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 4334 | 1/1 | 0.27 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 4407 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4169 | 1/1 | 0.65 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3736 | 1/1 | 0.90 | - | 99,99,99,99 | 0 |
| 55 | MG | CA | 3892 | 1/1 | 0.77 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4695 | 1/1 | 0.12 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3329 | 1/1 | 0.17 | - | 21,21,21,21 | 0 |
| 55 | MG | BW | 107 | 1/1 | 0.09 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5149 | 1/1 | 0.21 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4201 | 1/1 | 0.10 | - | 15,15,15,15 | 0 |
| 55 | MG | BA | 2091 | 1/1 | 0.22 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3880 | 1/1 | 0.33 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1644 | 1/1 | 0.11 | - | 92,92,92,92 | 0 |
| 55 | MG | CD | 303 | 1/1 | 0.48 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 3255 | 1/1 | 0.15 | - | 33,33,33,33 | 0 |
| 55 | MG | BA | 1771 | 1/1 | 0.10 | - | 29,29,29,29 | 0 |
| 55 | MG | BA | 2027 | 1/1 | 0.31 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2048 | 1/1 | 0.30 | - | 47,47,47,47 | 0 |
| 55 | MG | CB | 215 | 1/1 | 0.24 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 2188 | 1/1 | 0.43 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4418 | 1/1 | 0.26 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3514 | 1/1 | 0.56 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5012 | 1/1 | 0.47 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4163 | 1/1 | 0.53 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4551 | 1/1 | 0.22 | - | 72,72,72,72 | 0 |
| 55 | MG | AB | 226 | 1/1 | 0.17 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1608 | 1/1 | 0.49 | - | 69,69,69,69 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2080 | 1/1 | 0.34 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 2994 | 1/1 | 0.55 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4097 | 1/1 | 0.31 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4095 | 1/1 | 0.62 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1785 | 1/1 | 0.12 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4644 | 1/1 | 0.55 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4501 | 1/1 | 0.22 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5276 | 1/1 | 0.29 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4489 | 1/1 | 0.13 | - | 94,94,94,94 | 0 |
| 55 | MG | CB | 222 | 1/1 | 0.13 | - | 29,29,29,29 | 0 |
| 55 | MG | AA | 4496 | 1/1 | 0.51 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4304 | 1/1 | 0.39 | - | 38,38,38,38 | 0 |
| 55 | MG | CA | 4138 | 1/1 | 0.23 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 2935 | 1/1 | 0.29 | - | 65,65,65,65 | 0 |
| 55 | MG | CB | 233 | 1/1 | 0.13 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 2102 | 1/1 | 0.53 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4955 | 1/1 | 0.42 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1837 | 1/1 | 0.29 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3838 | 1/1 | 0.85 | - | 131,131,131,131 | 0 |
| 55 | MG | BA | 1626 | 1/1 | 0.37 | - | 81,81,81,81 | 0 |
| 55 | MG | BA | 1659 | 1/1 | 0.49 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3685 | 1/1 | 0.26 | - | 86,86,86,86 | 0 |
| 55 | MG | BA | 1957 | 1/1 | 0.12 | - | 33,33,33,33 | 0 |
| 55 | MG | AA | 5151 | 1/1 | 0.26 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3498 | 1/1 | 0.30 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 1882 | 1/1 | 0.29 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3563 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 55 | MG | CB | 247 | 1/1 | 0.12 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4599 | 1/1 | 0.24 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4348 | 1/1 | 0.63 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4032 | 1/1 | 0.80 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3346 | 1/1 | 0.27 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5028 | 1/1 | 0.25 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4021 | 1/1 | 0.22 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1985 | 1/1 | 0.25 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 5216 | 1/1 | 0.24 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4296 | 1/1 | 0.14 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3919 | 1/1 | 0.22 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3156 | 1/1 | 0.17 | - | 17,17,17,17 | 0 |
| 55 | MG | CA | 3200 | 1/1 | 0.24 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 4115 | 1/1 | 0.25 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4199 | 1/1 | 0.37 | - | 10,10,10,10 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4344 | 1/1 | 0.20 | - | 33,33,33,33 | 0 |
| 56 | ZN | BN | 101 | 1/1 | 0.12 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4012 | 1/1 | 0.31 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4204 | 1/1 | 0.36 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3530 | 1/1 | 0.05 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1770 | 1/1 | 0.57 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4005 | 1/1 | 0.61 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3488 | 1/1 | 0.26 | - | 55,55,55,55 | 0 |
| 55 | MG | AD | 302 | 1/1 | 0.35 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4640 | 1/1 | 0.41 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5282 | 1/1 | 0.18 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4768 | 1/1 | 0.40 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 4169 | 1/1 | 0.35 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4757 | 1/1 | 0.33 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4553 | 1/1 | 0.29 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3414 | 1/1 | 0.15 | - | 42,42,42,42 | 0 |
| 55 | MG | BW | 102 | 1/1 | 0.43 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4086 | 1/1 | 0.98 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1686 | 1/1 | 0.13 | - | 97,97,97,97 | 0 |
| 55 | MG | CX | 101 | 1/1 | 1.11 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3382 | 1/1 | 0.53 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 5280 | 1/1 | 0.16 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4703 | 1/1 | 0.33 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 5130 | 1/1 | 0.20 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3430 | 1/1 | 0.38 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3077 | 1/1 | 0.39 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 2939 | 1/1 | 0.43 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3338 | 1/1 | 0.61 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4343 | 1/1 | 0.21 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 4368 | 1/1 | 0.28 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3928 | 1/1 | 0.16 | - | 71,71,71,71 | 0 |
| 55 | MG | AB | 247 | 1/1 | 0.09 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4280 | 1/1 | 0.22 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3235 | 1/1 | 0.34 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3268 | 1/1 | 0.56 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 4529 | 1/1 | 0.45 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 2993 | 1/1 | 0.41 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2008 | 1/1 | 0.52 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4310 | 1/1 | 0.39 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3905 | 1/1 | 0.09 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 1727 | 1/1 | 0.29 | - | 33,33,33,33 | 0 |
| 55 | MG | BA | 1688 | 1/1 | 0.09 | - | 11,11,11,11 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2195 | 1/1 | 0.77 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4647 | 1/1 | 0.58 | - | 59,59,59,59 | 0 |
| 55 | MG | CB | 235 | 1/1 | 0.13 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1920 | 1/1 | 0.18 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 5210 | 1/1 | 0.44 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4968 | 1/1 | 0.17 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 1770 | 1/1 | 0.10 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3318 | 1/1 | 0.21 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 1997 | 1/1 | 0.24 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1937 | 1/1 | 0.42 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3712 | 1/1 | 0.28 | - | 32,32,32,32 | 0 |
| 55 | MG | AA | 5036 | 1/1 | 0.29 | - | 45,45,45,45 | 0 |
| 55 | MG | BA | 2113 | 1/1 | 0.26 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1877 | 1/1 | 0.39 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3729 | 1/1 | 0.25 | - | 101,101,101,101 | 0 |
| 55 | MG | CA | 4093 | 1/1 | 0.20 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3424 | 1/1 | 0.27 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3390 | 1/1 | 0.20 | - | 37,37,37,37 | 0 |
| 55 | MG | DV | 114 | 1/1 | 0.26 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4586 | 1/1 | 0.15 | - | 84,84,84,84 | 0 |
| 55 | MG | BA | 2138 | 1/1 | 0.24 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3126 | 1/1 | 0.34 | - | 14,14,14,14 | 0 |
| 55 | MG | AA | 4092 | 1/1 | 0.17 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1603 | 1/1 | 0.26 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4183 | 1/1 | 0.58 | - | 13,13,13,13 | 0 |
| 55 | MG | AA | 4076 | 1/1 | 0.60 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4125 | 1/1 | 0.44 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 2098 | 1/1 | 0.28 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4330 | 1/1 | 0.59 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 2959 | 1/1 | 0.18 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3785 | 1/1 | 0.30 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2116 | 1/1 | 0.32 | - | 93,93,93,93 | 0 |
| 55 | MG | BA | 2069 | 1/1 | 0.54 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 2017 | 1/1 | 0.11 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 2931 | 1/1 | 0.28 | - | 105,105,105,105 | 0 |
| 55 | MG | CA | 3664 | 1/1 | 0.20 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1872 | 1/1 | 0.35 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3160 | 1/1 | 0.59 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4611 | 1/1 | 0.17 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4840 | 1/1 | 0.23 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 5247 | 1/1 | 1.52 | - | 91,91,91,91 | 0 |
| 55 | MG | DV | 119 | 1/1 | 0.17 | - | 72,72,72,72 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1817 | 1/1 | 0.07 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 1887 | 1/1 | 0.72 | - | 113,113,113,113 | 0 |
| 55 | MG | CA | 4224 | 1/1 | 0.23 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4339 | 1/1 | 0.57 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3142 | 1/1 | 0.76 | - | 22,22,22,22 | 0 |
| 55 | MG | CA | 3741 | 1/1 | 0.23 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 5175 | 1/1 | 0.59 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 1637 | 1/1 | 0.42 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3558 | 1/1 | 0.35 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3284 | 1/1 | 0.23 | - | 42,42,42,42 | 0 |
| 55 | MG | AR | 204 | 1/1 | 0.27 | - | 40,40,40,40 | 0 |
| 55 | MG | DA | 2086 | 1/1 | 0.12 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3581 | 1/1 | 0.10 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1787 | 1/1 | 0.21 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3059 | 1/1 | 0.95 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 4046 | 1/1 | 0.56 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3663 | 1/1 | 0.08 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 1911 | 1/1 | 0.40 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1703 | 1/1 | 0.25 | - | 34,34,34,34 | 0 |
| 55 | MG | DW | 104 | 1/1 | 0.27 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4947 | 1/1 | 0.42 | - | 61,61,61,61 | 0 |
| 55 | MG | BW | 109 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4593 | 1/1 | 0.47 | - | 82,82,82,82 | 0 |
| 55 | MG | DW | 108 | 1/1 | 0.10 | - | 141,141,141,141 | 0 |
| 55 | MG | CA | 4174 | 1/1 | 0.34 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2041 | 1/1 | 0.31 | - | 112,112,112,112 | 0 |
| 55 | MG | CA | 4302 | 1/1 | 0.40 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 5122 | 1/1 | 0.13 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1889 | 1/1 | 0.20 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3551 | 1/1 | 0.47 | - | 87,87,87,87 | 0 |
| 55 | MG | AN | 201 | 1/1 | 0.21 | - | 102,102,102,102 | 0 |
| 55 | MG | BA | 2034 | 1/1 | 0.17 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 1624 | 1/1 | 1.00 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 2148 | 1/1 | 0.15 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3733 | 1/1 | 0.65 | - | 156,156,156,156 | 0 |
| 55 | MG | AA | 4004 | 1/1 | 0.35 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3855 | 1/1 | 0.34 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3206 | 1/1 | 0.29 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4180 | 1/1 | 0.23 | - | 22,22,22,22 | 0 |
| 55 | MG | AA | 4779 | 1/1 | 0.42 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3683 | 1/1 | 0.11 | - | 62,62,62,62 | 0 |
| 55 | MG | CB | 244 | 1/1 | 0.29 | - | 76,76,76,76 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4580 | 1/1 | 0.46 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 4127 | 1/1 | 0.35 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4106 | 1/1 | 0.22 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4244 | 1/1 | 0.19 | - | 31,31,31,31 | 0 |
| 55 | MG | BA | 1928 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4745 | 1/1 | 0.37 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2000 | 1/1 | 0.18 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 1751 | 1/1 | 0.42 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1650 | 1/1 | 0.45 | - | 80,80,80,80 | 0 |
| 55 | MG | DA | 1711 | 1/1 | 0.13 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1854 | 1/1 | 0.39 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 2122 | 1/1 | 0.51 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4294 | 1/1 | 0.28 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 2941 | 1/1 | 0.76 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4126 | 1/1 | 0.56 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4224 | 1/1 | 0.19 | - | 14,14,14,14 | 0 |
| 55 | MG | BV | 121 | 1/1 | 0.51 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3347 | 1/1 | 0.30 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 5008 | 1/1 | 0.42 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1790 | 1/1 | 0.39 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 4269 | 1/1 | 0.46 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3375 | 1/1 | 0.10 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4704 | 1/1 | 0.57 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4322 | 1/1 | 0.27 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1809 | 1/1 | 0.23 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4520 | 1/1 | 0.20 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1619 | 1/1 | 0.23 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4854 | 1/1 | 0.44 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 1684 | 1/1 | 0.36 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4036 | 1/1 | 0.13 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3216 | 1/1 | 0.25 | - | 18,18,18,18 | 0 |
| 55 | MG | CA | 3934 | 1/1 | 0.14 | - | 55,55,55,55 | 0 |
| 55 | MG | AB | 231 | 1/1 | 0.18 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 1853 | 1/1 | 0.11 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4805 | 1/1 | 0.40 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4563 | 1/1 | 0.26 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4852 | 1/1 | 0.35 | - | 28,28,28,28 | 0 |
| 55 | MG | BV | 109 | 1/1 | 0.23 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 4349 | 1/1 | 0.45 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4965 | 1/1 | 0.50 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1779 | 1/1 | 0.39 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 4352 | 1/1 | 0.63 | - | 80,80,80,80 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4099 | 1/1 | 0.32 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4367 | 1/1 | 0.52 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1885 | 1/1 | 0.12 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3966 | 1/1 | 0.50 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4106 | 1/1 | 0.15 | - | 49,49,49,49 | 0 |
| 55 | MG | DA | 1895 | 1/1 | 0.26 | - | 80,80,80,80 | 0 |
| 55 | MG | CE | 302 | 1/1 | 0.59 | - | 31,31,31,31 | 0 |
| 55 | MG | BH | 201 | 1/1 | 0.22 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4082 | 1/1 | 0.53 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 1724 | 1/1 | 0.35 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 4378 | 1/1 | 0.32 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 1773 | 1/1 | 0.25 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3468 | 1/1 | 0.51 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4156 | 1/1 | 0.44 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 2116 | 1/1 | 0.36 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4710 | 1/1 | 0.32 | - | 67,67,67,67 | 0 |
| 55 | MG | CB | 255 | 1/1 | 0.24 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4506 | 1/1 | 0.21 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 1724 | 1/1 | 0.38 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1619 | 1/1 | 0.63 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3096 | 1/1 | 0.31 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4675 | 1/1 | 0.33 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3149 | 1/1 | 0.17 | - | 18,18,18,18 | 0 |
| 55 | MG | DA | 1699 | 1/1 | 0.31 | - | 27,27,27,27 | 0 |
| 55 | MG | BA | 1886 | 1/1 | 0.14 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2025 | 1/1 | 0.29 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2044 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3557 | 1/1 | 0.19 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 2163 | 1/1 | 0.25 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 1779 | 1/1 | 0.09 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3652 | 1/1 | 0.27 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 5078 | 1/1 | 0.53 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3659 | 1/1 | 0.06 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3366 | 1/1 | 0.21 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4278 | 1/1 | 0.49 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 2958 | 1/1 | 0.28 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4108 | 1/1 | 0.32 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1607 | 1/1 | 0.32 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 5067 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1987 | 1/1 | 0.27 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3486 | 1/1 | 0.07 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3139 | 1/1 | 0.26 | - | 19,19,19,19 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3752 | 1/1 | 0.16 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3922 | 1/1 | 0.40 | - | 72,72,72,72 | 0 |
| 55 | MG | DA | 1996 | 1/1 | 0.45 | - | 51,51,51,51 | 0 |
| 55 | MG | AR | 201 | 1/1 | 0.44 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1898 | 1/1 | 0.38 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3835 | 1/1 | 0.32 | - | 69,69,69,69 | 0 |
| 55 | MG | A4 | 105 | 1/1 | 0.83 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3586 | 1/1 | 1.26 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 5158 | 1/1 | 0.23 | - | 50,50,50,50 | 0 |
| 55 | MG | BE | 204 | 1/1 | 0.16 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 2924 | 1/1 | 0.43 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 5283 | 1/1 | 0.91 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4665 | 1/1 | 0.27 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5269 | 1/1 | 0.74 | - | 109,109,109,109 | 0 |
| 55 | MG | CA | 3531 | 1/1 | 0.06 | - | 52,52,52,52 | 0 |
| 55 | MG | CB | 245 | 1/1 | 0.28 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3455 | 1/1 | 0.65 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3408 | 1/1 | 0.25 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 1680 | 1/1 | 0.34 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4192 | 1/1 | 0.21 | - | 23,23,23,23 | 0 |
| 55 | MG | BA | 2101 | 1/1 | 0.23 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4186 | 1/1 | 0.34 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3505 | 1/1 | 0.39 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 2907 | 1/1 | 0.89 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 4251 | 1/1 | 0.29 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4374 | 1/1 | 0.61 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 2139 | 1/1 | 0.91 | - | 96,96,96,96 | 0 |
| 55 | MG | CA | 2967 | 1/1 | 0.34 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4488 | 1/1 | 0.31 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1728 | 1/1 | 0.25 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 3241 | 1/1 | 0.14 | - | 26,26,26,26 | 0 |
| 55 | MG | CL | 205 | 1/1 | 0.47 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 2132 | 1/1 | 0.46 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 4294 | 1/1 | 0.52 | - | 94,94,94,94 | 0 |
| 55 | MG | AA | 5121 | 1/1 | 0.13 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3302 | 1/1 | 0.40 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3482 | 1/1 | 0.19 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 5094 | 1/1 | 0.17 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4785 | 1/1 | 0.20 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1927 | 1/1 | 0.38 | - | 92,92,92,92 | 0 |
| 55 | MG | BA | 1748 | 1/1 | 0.58 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5263 | 1/1 | 0.30 | - | 58,58,58,58 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3596 | 1/1 | 0.23 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4404 | 1/1 | 0.95 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3169 | 1/1 | 0.43 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 3546 | 1/1 | 0.35 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4004 | 1/1 | 0.63 | - | 48,48,48,48 | 0 |
| 55 | MG | DA | 1781 | 1/1 | 0.10 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 4305 | 1/1 | 0.56 | - | 46,46,46,46 | 0 |
| 55 | MG | BA | 2005 | 1/1 | 0.19 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4052 | 1/1 | 0.47 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4194 | 1/1 | 0.34 | - | 78,78,78,78 | 0 |
| 55 | MG | AB | 201 | 1/1 | 1.31 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4907 | 1/1 | 0.26 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 2105 | 1/1 | 0.30 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4811 | 1/1 | 0.23 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1862 | 1/1 | 0.50 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 2003 | 1/1 | 0.33 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1755 | 1/1 | 0.20 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4104 | 1/1 | 0.32 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 2911 | 1/1 | 0.40 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3661 | 1/1 | 0.12 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4391 | 1/1 | 0.60 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 2072 | 1/1 | 0.52 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1933 | 1/1 | 0.18 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 2101 | 1/1 | 0.23 | - | 155,155,155,155 | 0 |
| 55 | MG | CA | 4369 | 1/1 | 0.45 | - | 111,111,111,111 | 0 |
| 55 | MG | DA | 1675 | 1/1 | 0.73 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3642 | 1/1 | 0.33 | - | 46,46,46,46 | 0 |
| 55 | MG | DW | 111 | 1/1 | 0.11 | - | 136,136,136,136 | 0 |
| 55 | MG | AA | 5006 | 1/1 | 0.46 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3340 | 1/1 | 0.45 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3277 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4895 | 1/1 | 0.19 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3436 | 1/1 | 0.39 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 5084 | 1/1 | 0.13 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4217 | 1/1 | 0.73 | - | 43,43,43,43 | 0 |
| 55 | MG | CB | 240 | 1/1 | 0.41 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 2151 | 1/1 | 0.43 | - | 76,76,76,76 | 0 |
| 55 | MG | CB | 206 | 1/1 | 0.13 | - | 61,61,61,61 | 0 |
| 55 | MG | BV | 111 | 1/1 | 0.23 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 1877 | 1/1 | 0.17 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4425 | 1/1 | 0.36 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4796 | 1/1 | 0.32 | - | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CK | 201 | 1/1 | 0.58 | - | 105,105,105,105 | 0 |
| 55 | MG | CA | 3737 | 1/1 | 0.44 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4149 | 1/1 | 0.17 | - | 104,104,104,104 | 0 |
| 55 | MG | BA | 2064 | 1/1 | 0.40 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3633 | 1/1 | 0.62 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 5144 | 1/1 | 0.37 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4926 | 1/1 | 0.27 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2126 | 1/1 | 0.40 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4802 | 1/1 | 0.30 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 2977 | 1/1 | 0.80 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3508 | 1/1 | 0.17 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 3631 | 1/1 | 0.30 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 1960 | 1/1 | 0.35 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1633 | 1/1 | 0.09 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 4513 | 1/1 | 0.27 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 1965 | 1/1 | 0.22 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 4170 | 1/1 | 0.40 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3997 | 1/1 | 0.23 | - | 51,51,51,51 | 0 |
| 55 | MG | CW | 101 | 1/1 | 0.53 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 4297 | 1/1 | 0.35 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4015 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 5107 | 1/1 | 0.19 | - | 38,38,38,38 | 0 |
| 55 | MG | CV | 201 | 1/1 | 0.46 | - | 78,78,78,78 | 0 |
| 55 | MG | CB | 264 | 1/1 | 0.16 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4492 | 1/1 | 0.32 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 2134 | 1/1 | 0.54 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4115 | 1/1 | 0.20 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4311 | 1/1 | 0.44 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4790 | 1/1 | 0.25 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4652 | 1/1 | 0.27 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4171 | 1/1 | 0.32 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 4209 | 1/1 | 0.45 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4637 | 1/1 | 0.13 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1685 | 1/1 | 0.27 | - | 59,59,59,59 | 0 |
| 55 | MG | CD | 302 | 1/1 | 0.34 | - | 15,15,15,15 | 0 |
| 55 | MG | BA | 2090 | 1/1 | 0.67 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1912 | 1/1 | 0.32 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4003 | 1/1 | 0.29 | - | 56,56,56,56 | 0 |
| 55 | MG | CL | 202 | 1/1 | 0.15 | - | 93,93,93,93 | 0 |
| 55 | MG | DA | 1616 | 1/1 | 0.17 | - | 113,113,113,113 | 0 |
| 55 | MG | AA | 5213 | 1/1 | 0.32 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3700 | 1/1 | 0.44 | - | 79,79,79,79 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1735 | 1/1 | 0.19 | - | 57,57,57,57 | 0 |
| 55 | MG | CB | 213 | 1/1 | 0.27 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3071 | 1/1 | 0.46 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4437 | 1/1 | 0.18 | - | 33,33,33,33 | 0 |
| 55 | MG | BA | 1919 | 1/1 | 0.29 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1994 | 1/1 | 0.37 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1839 | 1/1 | 0.26 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 4706 | 1/1 | 0.52 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3397 | 1/1 | 0.16 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3516 | 1/1 | 0.12 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4297 | 1/1 | 0.59 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4029 | 1/1 | 0.08 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 5030 | 1/1 | 0.20 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4225 | 1/1 | 0.18 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3654 | 1/1 | 0.12 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 2996 | 1/1 | 0.60 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1977 | 1/1 | 0.23 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4308 | 1/1 | 0.16 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 4189 | 1/1 | 0.40 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3159 | 1/1 | 0.33 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4875 | 1/1 | 0.19 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4066 | 1/1 | 0.63 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3916 | 1/1 | 0.19 | - | 73,73,73,73 | 0 |
| 55 | MG | DV | 110 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4280 | 1/1 | 0.52 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3889 | 1/1 | 0.13 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 2914 | 1/1 | 0.69 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1700 | 1/1 | 0.09 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5201 | 1/1 | 0.37 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4521 | 1/1 | 0.15 | - | 64,64,64,64 | 0 |
| 55 | MG | AR | 203 | 1/1 | 0.20 | - | 19,19,19,19 | 0 |
| 55 | MG | CA | 3865 | 1/1 | 0.30 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4256 | 1/1 | 0.22 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3550 | 1/1 | 0.39 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2096 | 1/1 | 0.20 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 2123 | 1/1 | 0.57 | - | 94,94,94,94 | 0 |
| 55 | MG | DA | 1605 | 1/1 | 0.36 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4382 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5203 | 1/1 | 0.23 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4715 | 1/1 | 0.90 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 5176 | 1/1 | 0.33 | - | 61,61,61,61 | 0 |
| 55 | MG | BV | 108 | 1/1 | 0.09 | - | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3535 | 1/1 | 0.38 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4820 | 1/1 | 0.27 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4260 | 1/1 | 0.32 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4237 | 1/1 | 0.34 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3757 | 1/1 | 0.24 | - | 92,92,92,92 | 0 |
| 55 | MG | AX | 103 | 1/1 | 0.73 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 2943 | 1/1 | 0.33 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4478 | 1/1 | 0.29 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1762 | 1/1 | 0.15 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4062 | 1/1 | 0.34 | - | 126,126,126,126 | 0 |
| 55 | MG | CA | 3203 | 1/1 | 0.33 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3330 | 1/1 | 0.63 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1948 | 1/1 | 0.70 | - | 85,85,85,85 | 0 |
| 55 | MG | CB | 227 | 1/1 | 0.27 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5024 | 1/1 | 0.11 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4889 | 1/1 | 0.22 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2037 | 1/1 | 0.60 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4432 | 1/1 | 0.31 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4669 | 1/1 | 0.48 | - | 116,116,116,116 | 0 |
| 55 | MG | AA | 4159 | 1/1 | 1.05 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1956 | 1/1 | 0.21 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4666 | 1/1 | 0.66 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4765 | 1/1 | 0.72 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3350 | 1/1 | 0.42 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4934 | 1/1 | 0.23 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3493 | 1/1 | 0.54 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2113 | 1/1 | 0.22 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4268 | 1/1 | 0.53 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1691 | 1/1 | 0.13 | - | 16,16,16,16 | 0 |
| 55 | MG | CA | 4314 | 1/1 | 0.15 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3778 | 1/1 | 0.24 | - | 106,106,106,106 | 0 |
| 55 | MG | DA | 1766 | 1/1 | 0.15 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1721 | 1/1 | 0.07 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1761 | 1/1 | 0.69 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4471 | 1/1 | 0.45 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2008 | 1/1 | 0.32 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3074 | 1/1 | 0.31 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 4172 | 1/1 | 0.27 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 2073 | 1/1 | 0.09 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4288 | 1/1 | 0.53 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1759 | 1/1 | 0.14 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4598 | 1/1 | 0.26 | - | 104,104,104,104 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3388 | 1/1 | 0.45 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 2021 | 1/1 | 0.41 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1917 | 1/1 | 0.37 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 4048 | 1/1 | 0.14 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 5273 | 1/1 | 0.33 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 4365 | 1/1 | 0.29 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3389 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 55 | MG | AB | 245 | 1/1 | 0.40 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 2161 | 1/1 | 0.36 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 2033 | 1/1 | 0.42 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3406 | 1/1 | 0.32 | - | 49,49,49,49 | 0 |
| 55 | MG | DA | 1815 | 1/1 | 0.37 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4491 | 1/1 | 0.08 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3945 | 1/1 | 0.49 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3983 | 1/1 | 0.23 | - | 18,18,18,18 | 0 |
| 55 | MG | CA | 4096 | 1/1 | 0.32 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4887 | 1/1 | 0.25 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4699 | 1/1 | 0.24 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4873 | 1/1 | 0.39 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 3003 | 1/1 | 0.09 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3544 | 1/1 | 0.31 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4500 | 1/1 | 0.51 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4778 | 1/1 | 0.30 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5091 | 1/1 | 0.15 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3369 | 1/1 | 0.29 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3625 | 1/1 | 0.32 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4853 | 1/1 | 0.12 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1866 | 1/1 | 0.28 | - | 57,57,57,57 | 0 |
| 55 | MG | BV | 122 | 1/1 | 0.41 | - | 97,97,97,97 | 0 |
| 55 | MG | DA | 1999 | 1/1 | 0.53 | - | 108,108,108,108 | 0 |
| 55 | MG | DA | 1688 | 1/1 | 0.28 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4263 | 1/1 | 0.47 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4059 | 1/1 | 0.09 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4722 | 1/1 | 0.25 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4232 | 1/1 | 0.04 | - | 40,40,40,40 | 0 |
| 55 | MG | BV | 112 | 1/1 | 0.23 | - | 89,89,89,89 | 0 |
| 55 | MG | AM | 201 | 1/1 | 0.39 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5056 | 1/1 | 0.32 | - | 63,63,63,63 | 0 |
| 55 | MG | AS | 202 | 1/1 | 0.43 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3150 | 1/1 | 0.43 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3776 | 1/1 | 0.23 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3887 | 1/1 | 0.32 | - | 48,48,48,48 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1815 | 1/1 | 0.42 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 2933 | 1/1 | 0.32 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3526 | 1/1 | 0.21 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4916 | 1/1 | 0.39 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3937 | 1/1 | 0.24 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4739 | 1/1 | 0.35 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1907 | 1/1 | 0.65 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3841 | 1/1 | 0.19 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3538 | 1/1 | 0.28 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4730 | 1/1 | 0.23 | - | 73,73,73,73 | 0 |
| 55 | MG | AL | 202 | 1/1 | 0.72 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3953 | 1/1 | 0.50 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3313 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 2127 | 1/1 | 0.62 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3939 | 1/1 | 0.48 | - | 65,65,65,65 | 0 |
| 55 | MG | BV | 115 | 1/1 | 0.37 | - | 107,107,107,107 | 0 |
| 55 | MG | BC | 303 | 1/1 | 0.22 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4572 | 1/1 | 0.51 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3475 | 1/1 | 0.24 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 1802 | 1/1 | 0.28 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4131 | 1/1 | 0.27 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 5239 | 1/1 | 0.74 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3542 | 1/1 | 0.36 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 1971 | 1/1 | 0.19 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4346 | 1/1 | 0.51 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4645 | 1/1 | 0.18 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5077 | 1/1 | 0.64 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 2922 | 1/1 | 0.27 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4043 | 1/1 | 0.44 | - | 52,52,52,52 | 0 |
| 55 | MG | CJ | 202 | 1/1 | 0.22 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4686 | 1/1 | 0.43 | - | 81,81,81,81 | 0 |
| 55 | MG | DA | 1671 | 1/1 | 0.89 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4315 | 1/1 | 0.17 | - | 58,58,58,58 | 0 |
| 55 | MG | DX | 101 | 1/1 | 0.26 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 2112 | 1/1 | 0.42 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4762 | 1/1 | 0.59 | - | 113,113,113,113 | 0 |
| 55 | MG | CB | 248 | 1/1 | 0.43 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1733 | 1/1 | 0.67 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3276 | 1/1 | 0.49 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4940 | 1/1 | 0.79 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4549 | 1/1 | 0.36 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4740 | 1/1 | 0.87 | - | 103,103,103,103 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4136 | 1/1 | 0.15 | - | 91,91,91,91 | 0 |
| 55 | MG | DW | 101 | 1/1 | 0.10 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 1851 | 1/1 | 0.40 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4901 | 1/1 | 0.19 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4263 | 1/1 | 0.16 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 2063 | 1/1 | 0.16 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1961 | 1/1 | 0.23 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 5029 | 1/1 | 0.10 | - | 111,111,111,111 | 0 |
| 55 | MG | BA | 1636 | 1/1 | 0.18 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4460 | 1/1 | 0.23 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2049 | 1/1 | 0.25 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 5177 | 1/1 | 0.43 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4995 | 1/1 | 0.10 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4349 | 1/1 | 0.47 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4812 | 1/1 | 0.16 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3454 | 1/1 | 0.24 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4986 | 1/1 | 0.52 | - | 65,65,65,65 | 0 |
| 55 | MG | CS | 201 | 1/1 | 0.33 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4182 | 1/1 | 0.31 | - | 17,17,17,17 | 0 |
| 55 | MG | BA | 2078 | 1/1 | 0.09 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 1978 | 1/1 | 0.26 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3209 | 1/1 | 0.40 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 5171 | 1/1 | 0.24 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4087 | 1/1 | 0.25 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5228 | 1/1 | 0.75 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1651 | 1/1 | 0.37 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4632 | 1/1 | 0.40 | - | 81,81,81,81 | 0 |
| 55 | MG | CF | 301 | 1/1 | 0.44 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3080 | 1/1 | 0.34 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 5070 | 1/1 | 0.15 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4984 | 1/1 | 0.25 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4909 | 1/1 | 0.27 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 2999 | 1/1 | 0.19 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3525 | 1/1 | 0.87 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 2053 | 1/1 | 0.44 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2158 | 1/1 | 0.26 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1602 | 1/1 | 1.47 | - | 94,94,94,94 | 0 |
| 55 | MG | DA | 1713 | 1/1 | 0.09 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 3355 | 1/1 | 0.25 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4298 | 1/1 | 0.53 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4453 | 1/1 | 0.47 | - | 48,48,48,48 | 0 |
| 55 | MG | AM | 203 | 1/1 | 0.18 | - | 55,55,55,55 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4113 | 1/1 | 0.19 | - | 32,32,32,32 | 0 |
| 55 | MG | BV | 105 | 1/1 | 0.15 | - | 56,56,56,56 | 0 |
| 55 | MG | AE | 304 | 1/1 | 0.26 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 3353 | 1/1 | 0.70 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1816 | 1/1 | 0.11 | - | 86,86,86,86 | 0 |
| 55 | MG | AB | 244 | 1/1 | 0.27 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 4331 | 1/1 | 0.24 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1639 | 1/1 | 0.34 | - | 138,138,138,138 | 0 |
| 55 | MG | AA | 5164 | 1/1 | 0.06 | - | 125,125,125,125 | 0 |
| 55 | MG | AA | 4498 | 1/1 | 0.24 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4109 | 1/1 | 0.72 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3501 | 1/1 | 0.29 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1870 | 1/1 | 0.10 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4991 | 1/1 | 0.23 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1909 | 1/1 | 0.33 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3730 | 1/1 | 0.22 | - | 74,74,74,74 | 0 |
| 55 | MG | BA | 1682 | 1/1 | 0.07 | - | 105,105,105,105 | 0 |
| 55 | MG | BA | 1962 | 1/1 | 0.39 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1807 | 1/1 | 0.81 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3322 | 1/1 | 1.32 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1849 | 1/1 | 0.30 | - | 65,65,65,65 | 0 |
| 55 | MG | AF | 301 | 1/1 | 0.60 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3860 | 1/1 | 0.26 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3043 | 1/1 | 0.08 | - | 95,95,95,95 | 0 |
| 55 | MG | DA | 2203 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4286 | 1/1 | 0.21 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1749 | 1/1 | 0.24 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3342 | 1/1 | 0.24 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4234 | 1/1 | 0.24 | - | 46,46,46,46 | 0 |
| 55 | MG | CB | 229 | 1/1 | 0.16 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3494 | 1/1 | 0.33 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3850 | 1/1 | 0.23 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 3385 | 1/1 | 0.34 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5026 | 1/1 | 0.29 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3984 | 1/1 | 0.19 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 5090 | 1/1 | 0.66 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4366 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4133 | 1/1 | 0.37 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4542 | 1/1 | 0.30 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 2157 | 1/1 | 0.28 | - | 31,31,31,31 | 0 |
| 55 | MG | AA | 4524 | 1/1 | 0.52 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 5108 | 1/1 | 0.24 | - | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4135 | 1/1 | 0.52 | - | 127,127,127,127 | 0 |
| 55 | MG | AA | 4455 | 1/1 | 0.29 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4956 | 1/1 | 0.24 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3426 | 1/1 | 0.35 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5232 | 1/1 | 0.36 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 2165 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 2114 | 1/1 | 0.24 | - | 74,74,74,74 | 0 |
| 55 | MG | A3 | 101 | 1/1 | 0.27 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 4396 | 1/1 | 0.20 | - | 90,90,90,90 | 0 |
| 55 | MG | BA | 1722 | 1/1 | 0.25 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4822 | 1/1 | 1.18 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3629 | 1/1 | 0.37 | - | 106,106,106,106 | 0 |
| 55 | MG | CA | 3986 | 1/1 | 0.56 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4684 | 1/1 | 0.53 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4299 | 1/1 | 0.63 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3901 | 1/1 | 0.41 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3249 | 1/1 | 0.22 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3862 | 1/1 | 0.42 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4201 | 1/1 | 0.34 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 2905 | 1/1 | 0.59 | - | 89,89,89,89 | 0 |
| 55 | MG | BA | 2140 | 1/1 | 0.26 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3933 | 1/1 | 0.38 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 4108 | 1/1 | 0.93 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3807 | 1/1 | 0.69 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3030 | 1/1 | 0.34 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5032 | 1/1 | 0.51 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4274 | 1/1 | 0.20 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1861 | 1/1 | 0.29 | - | 95,95,95,95 | 0 |
| 55 | MG | DA | 2053 | 1/1 | 0.17 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 2970 | 1/1 | 0.26 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4277 | 1/1 | 0.39 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 5061 | 1/1 | 0.45 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4631 | 1/1 | 0.62 | - | 104,104,104,104 | 0 |
| 55 | MG | DA | 2030 | 1/1 | 0.11 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 1733 | 1/1 | 0.11 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4819 | 1/1 | 0.41 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3004 | 1/1 | 1.06 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 3337 | 1/1 | 0.11 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4470 | 1/1 | 0.34 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3793 | 1/1 | 0.20 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 1966 | 1/1 | 0.73 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3833 | 1/1 | 0.24 | - | 75,75,75,75 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4318 | 1/1 | 0.96 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4291 | 1/1 | 0.56 | - | 46,46,46,46 | 0 |
| 55 | MG | BA | 2056 | 1/1 | 0.18 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3087 | 1/1 | 0.28 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3456 | 1/1 | 0.26 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 5147 | 1/1 | 0.38 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4616 | 1/1 | 0.36 | - | 140,140,140,140 | 0 |
| 55 | MG | AA | 5114 | 1/1 | 0.14 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1955 | 1/1 | 0.20 | - | 24,24,24,24 | 0 |
| 55 | MG | BA | 1838 | 1/1 | 0.23 | - | 90,90,90,90 | 0 |
| 55 | MG | DV | 108 | 1/1 | 0.37 | - | 111,111,111,111 | 0 |
| 55 | MG | DA | 1673 | 1/1 | 0.54 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 2909 | 1/1 | 0.30 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3899 | 1/1 | 0.26 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 2096 | 1/1 | 0.37 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4240 | 1/1 | 0.31 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 2103 | 1/1 | 0.25 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4749 | 1/1 | 0.55 | - | 51,51,51,51 | 0 |
| 55 | MG | AB | 215 | 1/1 | 0.25 | - | 99,99,99,99 | 0 |
| 55 | MG | BA | 1742 | 1/1 | 0.22 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 5285 | 1/1 | 0.25 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4232 | 1/1 | 0.18 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 2168 | 1/1 | 0.24 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4773 | 1/1 | 0.51 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1620 | 1/1 | 0.54 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3923 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4547 | 1/1 | 0.19 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3965 | 1/1 | 0.18 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3383 | 1/1 | 0.17 | - | 38,38,38,38 | 0 |
| 55 | MG | CA | 4262 | 1/1 | 0.57 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1708 | 1/1 | 0.29 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4020 | 1/1 | 0.70 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1744 | 1/1 | 0.39 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4981 | 1/1 | 0.20 | - | 34,34,34,34 | 0 |
| 55 | MG | DA | 2077 | 1/1 | 0.34 | - | 109,109,109,109 | 0 |
| 55 | MG | AK | 201 | 1/1 | 0.35 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4402 | 1/1 | 0.22 | - | 94,94,94,94 | 0 |
| 55 | MG | BA | 1863 | 1/1 | 0.51 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3774 | 1/1 | 0.16 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3263 | 1/1 | 0.20 | - | 36,36,36,36 | 0 |
| 55 | MG | BV | 103 | 1/1 | 1.22 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1860 | 1/1 | 0.29 | - | 74,74,74,74 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1751 | 1/1 | 0.67 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4259 | 1/1 | 0.50 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3393 | 1/1 | 0.29 | - | 36,36,36,36 | 0 |
| 55 | MG | BA | 1738 | 1/1 | 0.16 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 4116 | 1/1 | 0.25 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4393 | 1/1 | 0.08 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4863 | 1/1 | 0.65 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 4190 | 1/1 | 0.35 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3796 | 1/1 | 0.47 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4369 | 1/1 | 0.18 | - | 25,25,25,25 | 0 |
| 55 | MG | BA | 2071 | 1/1 | 0.13 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4052 | 1/1 | 0.62 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 2936 | 1/1 | 0.33 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4884 | 1/1 | 0.16 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4012 | 1/1 | 0.23 | - | 40,40,40,40 | 0 |
| 55 | MG | DA | 1615 | 1/1 | 0.26 | - | 104,104,104,104 | 0 |
| 55 | MG | AA | 5253 | 1/1 | 0.14 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 3301 | 1/1 | 0.32 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3062 | 1/1 | 0.57 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4663 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4212 | 1/1 | 0.20 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4326 | 1/1 | 0.54 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3943 | 1/1 | 0.29 | - | 114,114,114,114 | 0 |
| 55 | MG | BA | 2131 | 1/1 | 0.42 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4588 | 1/1 | 0.47 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 3532 | 1/1 | 0.61 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3606 | 1/1 | 0.36 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3575 | 1/1 | 0.24 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3648 | 1/1 | 0.21 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3769 | 1/1 | 0.35 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 5172 | 1/1 | 0.16 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1718 | 1/1 | 0.47 | - | 43,43,43,43 | 0 |
| 55 | MG | CB | 265 | 1/1 | 0.23 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4728 | 1/1 | 0.34 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1642 | 1/1 | 0.29 | - | 87,87,87,87 | 0 |
| 55 | MG | CF | 306 | 1/1 | 0.24 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 2159 | 1/1 | 0.19 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 2165 | 1/1 | 0.73 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 1957 | 1/1 | 0.22 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 1748 | 1/1 | 0.38 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3283 | 1/1 | 0.26 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 5112 | 1/1 | 0.70 | - | 47,47,47,47 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3782 | 1/1 | 0.50 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 1752 | 1/1 | 0.44 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 2961 | 1/1 | 0.23 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4416 | 1/1 | 0.72 | - | 56,56,56,56 | 0 |
| 55 | MG | AF | 303 | 1/1 | 0.43 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4421 | 1/1 | 0.35 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 1736 | 1/1 | 0.30 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3906 | 1/1 | 0.26 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4834 | 1/1 | 0.21 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4653 | 1/1 | 0.49 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4671 | 1/1 | 0.17 | - | 122,122,122,122 | 0 |
| 55 | MG | AB | 242 | 1/1 | 0.24 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4924 | 1/1 | 0.29 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4147 | 1/1 | 0.34 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3705 | 1/1 | 0.40 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3354 | 1/1 | 0.98 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3469 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4124 | 1/1 | 0.45 | - | 75,75,75,75 | 0 |
| 55 | MG | AF | 305 | 1/1 | 0.26 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3594 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1749 | 1/1 | 0.19 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4429 | 1/1 | 0.19 | - | 36,36,36,36 | 0 |
| 55 | MG | BA | 1729 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1634 | 1/1 | 0.62 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1871 | 1/1 | 0.10 | - | 69,69,69,69 | 0 |
| 55 | MG | CD | 301 | 1/1 | 0.19 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4428 | 1/1 | 0.16 | - | 36,36,36,36 | 0 |
| 55 | MG | BA | 1856 | 1/1 | 0.23 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3218 | 1/1 | 0.41 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 2944 | 1/1 | 0.49 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 4086 | 1/1 | 0.22 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 1841 | 1/1 | 0.29 | - | 60,60,60,60 | 0 |
| 55 | MG | BA | 2023 | 1/1 | 0.22 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4409 | 1/1 | 0.11 | - | 83,83,83,83 | 0 |
| 56 | ZN | DD | 303 | 1/1 | 0.25 | - | 80,80,80,80 | 0 |
| 55 | MG | DA | 1757 | 1/1 | 0.57 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3982 | 1/1 | 0.16 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3576 | 1/1 | 0.28 | - | 37,37,37,37 | 0 |
| 55 | MG | CB | 210 | 1/1 | 0.27 | - | 81,81,81,81 | 0 |
| 55 | MG | BA | 2082 | 1/1 | 0.41 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 2160 | 1/1 | 0.37 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 5131 | 1/1 | 0.12 | - | 86,86,86,86 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | C2 | 102 | 1/1 | 0.47 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4277 | 1/1 | 0.20 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 1670 | 1/1 | 0.21 | - | 136,136,136,136 | 0 |
| 55 | MG | CA | 3870 | 1/1 | 0.27 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 5235 | 1/1 | 0.42 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1945 | 1/1 | 0.22 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3784 | 1/1 | 0.15 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 2068 | 1/1 | 0.21 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 4158 | 1/1 | 0.28 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 3293 | 1/1 | 0.33 | - | 45,45,45,45 | 0 |
| 55 | MG | AB | 224 | 1/1 | 0.19 | - | 94,94,94,94 | 0 |
| 55 | MG | DA | 1720 | 1/1 | 0.58 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 2913 | 1/1 | 0.47 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3515 | 1/1 | 0.25 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 5268 | 1/1 | 0.75 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2117 | 1/1 | 0.15 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4474 | 1/1 | 0.12 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 5251 | 1/1 | 0.34 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4285 | 1/1 | 0.12 | - | 23,23,23,23 | 0 |
| 55 | MG | BA | 1991 | 1/1 | 0.23 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3453 | 1/1 | 0.45 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3553 | 1/1 | 0.48 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1678 | 1/1 | 0.12 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4205 | 1/1 | 0.43 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 4486 | 1/1 | 0.17 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3814 | 1/1 | 0.35 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4659 | 1/1 | 0.31 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4184 | 1/1 | 0.18 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 2106 | 1/1 | 0.31 | - | 94,94,94,94 | 0 |
| 55 | MG | AB | 218 | 1/1 | 0.61 | - | 93,93,93,93 | 0 |
| 55 | MG | BA | 1924 | 1/1 | 0.30 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3694 | 1/1 | 0.15 | - | 76,76,76,76 | 0 |
| 55 | MG | DA | 2027 | 1/1 | 0.48 | - | 57,57,57,57 | 0 |
| 55 | MG | CQ | 203 | 1/1 | 0.46 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 4328 | 1/1 | 0.56 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4815 | 1/1 | 0.16 | - | 102,102,102,102 | 0 |
| 55 | MG | AB | 236 | 1/1 | 0.18 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5174 | 1/1 | 0.45 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 1647 | 1/1 | 0.10 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4226 | 1/1 | 0.18 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4568 | 1/1 | 0.30 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 1951 | 1/1 | 0.16 | - | 29,29,29,29 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1683 | 1/1 | 0.31 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3863 | 1/1 | 0.15 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4661 | 1/1 | 0.59 | - | 97,97,97,97 | 0 |
| 55 | MG | CA | 4070 | 1/1 | 0.61 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4288 | 1/1 | 0.37 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 4230 | 1/1 | 0.33 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 2992 | 1/1 | 0.27 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3332 | 1/1 | 0.26 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 5287 | 1/1 | 0.43 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4355 | 1/1 | 1.23 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3443 | 1/1 | 0.56 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5237 | 1/1 | 0.58 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4544 | 1/1 | 0.39 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3708 | 1/1 | 0.22 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4206 | 1/1 | 0.25 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1821 | 1/1 | 0.56 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 5260 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3993 | 1/1 | 0.32 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4923 | 1/1 | 0.62 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5274 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 2020 | 1/1 | 0.21 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4408 | 1/1 | 0.29 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 5143 | 1/1 | 0.50 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1917 | 1/1 | 0.10 | - | 143,143,143,143 | 0 |
| 55 | MG | DG | 201 | 1/1 | 0.28 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1774 | 1/1 | 0.16 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3022 | 1/1 | 0.45 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4323 | 1/1 | 0.22 | - | 31,31,31,31 | 0 |
| 55 | MG | DA | 1893 | 1/1 | 0.40 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1637 | 1/1 | 0.30 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4753 | 1/1 | 0.20 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4143 | 1/1 | 0.14 | - | 128,128,128,128 | 0 |
| 55 | MG | C4 | 104 | 1/1 | 0.35 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1976 | 1/1 | 0.20 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 4359 | 1/1 | 0.50 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4055 | 1/1 | 0.34 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 4045 | 1/1 | 0.17 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5245 | 1/1 | 0.47 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3307 | 1/1 | 0.23 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3459 | 1/1 | 0.35 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4325 | 1/1 | 0.30 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 1711 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4960 | 1/1 | 0.06 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4347 | 1/1 | 0.30 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4922 | 1/1 | 0.12 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4406 | 1/1 | 0.24 | - | 28,28,28,28 | 0 |
| 55 | MG | BL | 202 | 1/1 | 0.53 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4207 | 1/1 | 0.17 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 4245 | 1/1 | 0.28 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3746 | 1/1 | 0.49 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3827 | 1/1 | 0.28 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1792 | 1/1 | 0.10 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4951 | 1/1 | 0.29 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3034 | 1/1 | 0.45 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3938 | 1/1 | 0.38 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2024 | 1/1 | 0.12 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 5133 | 1/1 | 0.44 | - | 74,74,74,74 | 0 |
| 55 | MG | BA | 1614 | 1/1 | 0.50 | - | 83,83,83,83 | 0 |
| 55 | MG | DA | 1978 | 1/1 | 0.33 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1902 | 1/1 | 0.55 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3070 | 1/1 | 0.40 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 4229 | 1/1 | 0.48 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4046 | 1/1 | 0.46 | - | 108,108,108,108 | 0 |
| 55 | MG | AA | 4417 | 1/1 | 0.26 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3310 | 1/1 | 0.52 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3410 | 1/1 | 0.21 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4093 | 1/1 | 0.27 | - | 104,104,104,104 | 0 |
| 55 | MG | BA | 1818 | 1/1 | 0.58 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 2052 | 1/1 | 0.32 | - | 81,81,81,81 | 0 |
| 55 | MG | DA | 1994 | 1/1 | 0.26 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3798 | 1/1 | 0.29 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4878 | 1/1 | 0.39 | - | 29,29,29,29 | 0 |
| 55 | MG | DO | 101 | 1/1 | 0.41 | - | 98,98,98,98 | 0 |
| 55 | MG | AA | 4490 | 1/1 | 0.90 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5110 | 1/1 | 0.35 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1806 | 1/1 | 0.21 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3152 | 1/1 | 0.41 | - | 22,22,22,22 | 0 |
| 55 | MG | CA | 3298 | 1/1 | 0.41 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4449 | 1/1 | 0.24 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4219 | 1/1 | 0.80 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1931 | 1/1 | 0.76 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1998 | 1/1 | 0.29 | - | 52,52,52,52 | 0 |
| 55 | MG | CL | 206 | 1/1 | 0.44 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4018 | 1/1 | 0.34 | - | 125,125,125,125 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CB | 228 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4618 | 1/1 | 0.20 | - | 64,64,64,64 | 0 |
| 55 | MG | AB | 211 | 1/1 | 0.58 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4554 | 1/1 | 0.40 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3222 | 1/1 | 0.27 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4847 | 1/1 | 0.45 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4842 | 1/1 | 0.48 | - | 111,111,111,111 | 0 |
| 55 | MG | CA | 3356 | 1/1 | 0.56 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 4085 | 1/1 | 0.31 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3500 | 1/1 | 0.65 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4247 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3671 | 1/1 | 0.30 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 4254 | 1/1 | 0.31 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3401 | 1/1 | 0.44 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3872 | 1/1 | 0.53 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1883 | 1/1 | 0.32 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3193 | 1/1 | 0.55 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4105 | 1/1 | 0.40 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 2073 | 1/1 | 0.18 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1658 | 1/1 | 0.24 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3335 | 1/1 | 0.17 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 1767 | 1/1 | 0.27 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5057 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4643 | 1/1 | 0.19 | - | 65,65,65,65 | 0 |
| 55 | MG | CR | 202 | 1/1 | 0.42 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 2015 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4035 | 1/1 | 0.42 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3079 | 1/1 | 0.45 | - | 103,103,103,103 | 0 |
| 55 | MG | DA | 1975 | 1/1 | 0.14 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4689 | 1/1 | 0.32 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4271 | 1/1 | 0.28 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 4208 | 1/1 | 0.18 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4256 | 1/1 | 0.14 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 4376 | 1/1 | 0.61 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3929 | 1/1 | 0.21 | - | 53,53,53,53 | 0 |
| 55 | MG | CQ | 204 | 1/1 | 0.41 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1648 | 1/1 | 0.47 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3259 | 1/1 | 0.41 | - | 39,39,39,39 | 0 |
| 55 | MG | BV | 119 | 1/1 | 0.83 | - | 142,142,142,142 | 0 |
| 55 | MG | CA | 3647 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5256 | 1/1 | 0.42 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5219 | 1/1 | 0.32 | - | 79,79,79,79 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 2002 | 1/1 | 0.51 | - | 71,71,71,71 | 0 |
| 55 | MG | C5 | 102 | 1/1 | 0.35 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3764 | 1/1 | 0.53 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1609 | 1/1 | 0.36 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4702 | 1/1 | 0.47 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 3518 | 1/1 | 0.10 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3630 | 1/1 | 0.12 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 5230 | 1/1 | 0.15 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 4694 | 1/1 | 0.32 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4918 | 1/1 | 0.48 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3270 | 1/1 | 0.17 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 4267 | 1/1 | 0.39 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1942 | 1/1 | 0.31 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2135 | 1/1 | 0.28 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 1865 | 1/1 | 0.23 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4290 | 1/1 | 0.71 | - | 38,38,38,38 | 0 |
| 55 | MG | BA | 1628 | 1/1 | 0.99 | - | 99,99,99,99 | 0 |
| 55 | MG | CA | 3092 | 1/1 | 0.41 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4077 | 1/1 | 0.30 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 5178 | 1/1 | 0.41 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3067 | 1/1 | 0.22 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3489 | 1/1 | 0.66 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5042 | 1/1 | 0.32 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4876 | 1/1 | 0.28 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4213 | 1/1 | 0.19 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 5185 | 1/1 | 0.33 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 4861 | 1/1 | 0.09 | - | 79,79,79,79 | 0 |
| 55 | MG | BV | 106 | 1/1 | 0.08 | - | 113,113,113,113 | 0 |
| 55 | MG | CA | 3858 | 1/1 | 0.40 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3445 | 1/1 | 0.46 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4055 | 1/1 | 0.20 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4990 | 1/1 | 0.33 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3930 | 1/1 | 0.36 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5294 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4157 | 1/1 | 0.39 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3623 | 1/1 | 0.48 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1927 | 1/1 | 0.16 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4664 | 1/1 | 0.41 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4284 | 1/1 | 0.37 | - | 28,28,28,28 | 0 |
| 55 | MG | AA | 4094 | 1/1 | 0.39 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4950 | 1/1 | 0.21 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3692 | 1/1 | 0.73 | - | 65,65,65,65 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2088 | 1/1 | 0.26 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3913 | 1/1 | 0.26 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3462 | 1/1 | 0.47 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1844 | 1/1 | 0.54 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3190 | 1/1 | 0.21 | - | 11,11,11,11 | 0 |
| 55 | MG | AA | 4787 | 1/1 | 0.23 | - | 77,77,77,77 | 0 |
| 55 | MG | AB | 234 | 1/1 | 0.08 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1622 | 1/1 | 0.55 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3053 | 1/1 | 1.00 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4315 | 1/1 | 0.71 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1663 | 1/1 | 0.22 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3265 | 1/1 | 0.05 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 2125 | 1/1 | 0.84 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 4125 | 1/1 | 0.30 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4312 | 1/1 | 0.29 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 1645 | 1/1 | 0.37 | - | 86,86,86,86 | 0 |
| 55 | MG | DA | 2162 | 1/1 | 0.35 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3023 | 1/1 | 0.30 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5227 | 1/1 | 0.35 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 5126 | 1/1 | 0.34 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4124 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3387 | 1/1 | 0.15 | - | 29,29,29,29 | 0 |
| 55 | MG | AV | 201 | 1/1 | 0.19 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3334 | 1/1 | 0.46 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 3548 | 1/1 | 0.30 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1740 | 1/1 | 0.16 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1868 | 1/1 | 0.52 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4953 | 1/1 | 0.12 | - | 85,85,85,85 | 0 |
| 55 | MG | DA | 2122 | 1/1 | 0.40 | - | 150,150,150,150 | 0 |
| 55 | MG | CA | 4049 | 1/1 | 0.26 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 1863 | 1/1 | 0.64 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4734 | 1/1 | 0.28 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 3446 | 1/1 | 0.46 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 5069 | 1/1 | 0.76 | - | 80,80,80,80 | 0 |
| 55 | MG | CB | 207 | 1/1 | 0.33 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4799 | 1/1 | 0.39 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 2945 | 1/1 | 0.66 | - | 99,99,99,99 | 0 |
| 55 | MG | CB | 251 | 1/1 | 0.20 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4561 | 1/1 | 0.82 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3998 | 1/1 | 0.19 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1969 | 1/1 | 0.28 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4382 | 1/1 | 0.25 | - | 65,65,65,65 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5266 | 1/1 | 0.28 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5015 | 1/1 | 0.20 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4011 | 1/1 | 0.12 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 2965 | 1/1 | 0.70 | - | 74,74,74,74 | 0 |
| 55 | MG | BV | 114 | 1/1 | 0.22 | - | 70,70,70,70 | 0 |
| 55 | MG | BW | 108 | 1/1 | 0.15 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3045 | 1/1 | 0.34 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4387 | 1/1 | 0.40 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1683 | 1/1 | 0.32 | - | 29,29,29,29 | 0 |
| 55 | MG | AA | 4613 | 1/1 | 0.13 | - | 41,41,41,41 | 0 |
| 55 | MG | AS | 203 | 1/1 | 0.70 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4691 | 1/1 | 0.15 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3783 | 1/1 | 1.18 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4961 | 1/1 | 0.19 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1864 | 1/1 | 0.88 | - | 97,97,97,97 | 0 |
| 55 | MG | DA | 2180 | 1/1 | 0.45 | - | 123,123,123,123 | 0 |
| 55 | MG | CA | 3225 | 1/1 | 0.27 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3271 | 1/1 | 0.56 | - | 52,52,52,52 | 0 |
| 55 | MG | AB | 222 | 1/1 | 0.17 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4248 | 1/1 | 0.57 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 4218 | 1/1 | 0.25 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 5179 | 1/1 | 0.54 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1925 | 1/1 | 0.80 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1813 | 1/1 | 0.32 | - | 79,79,79,79 | 0 |
| 55 | MG | CD | 306 | 1/1 | 0.51 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4228 | 1/1 | 0.26 | - | 23,23,23,23 | 0 |
| 55 | MG | CL | 201 | 1/1 | 0.39 | - | 76,76,76,76 | 0 |
| 55 | MG | DW | 122 | 1/1 | 0.22 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3289 | 1/1 | 0.19 | - | 20,20,20,20 | 0 |
| 55 | MG | CA | 3291 | 1/1 | 0.19 | - | 31,31,31,31 | 0 |
| 55 | MG | DA | 1830 | 1/1 | 0.19 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4080 | 1/1 | 0.50 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 1703 | 1/1 | 0.14 | - | 32,32,32,32 | 0 |
| 55 | MG | DA | 2046 | 1/1 | 0.17 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4024 | 1/1 | 0.18 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1810 | 1/1 | 0.10 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1795 | 1/1 | 0.28 | - | 75,75,75,75 | 0 |
| 55 | MG | DE | 201 | 1/1 | 0.43 | - | 137,137,137,137 | 0 |
| 55 | MG | BA | 1782 | 1/1 | 0.38 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4392 | 1/1 | 0.19 | - | 39,39,39,39 | 0 |
| 55 | MG | DA | 1794 | 1/1 | 0.60 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4196 | 1/1 | 0.31 | - | 24,24,24,24 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4128 | 1/1 | 0.17 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4182 | 1/1 | 0.21 | - | 47,47,47,47 | 0 |
| 55 | MG | A3 | 102 | 1/1 | 0.36 | - | 77,77,77,77 | 0 |
| 55 | MG | AB | 221 | 1/1 | 0.15 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3699 | 1/1 | 0.27 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3799 | 1/1 | 0.53 | - | 111,111,111,111 | 0 |
| 55 | MG | CA | 3415 | 1/1 | 0.17 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3912 | 1/1 | 0.30 | - | 56,56,56,56 | 0 |
| 55 | MG | AX | 106 | 1/1 | 0.17 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3230 | 1/1 | 0.11 | - | 21,21,21,21 | 0 |
| 55 | MG | DA | 2029 | 1/1 | 0.20 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4116 | 1/1 | 0.39 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3129 | 1/1 | 0.45 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 3829 | 1/1 | 0.34 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 2060 | 1/1 | 0.70 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 4065 | 1/1 | 0.23 | - | 39,39,39,39 | 0 |
| 55 | MG | BA | 2066 | 1/1 | 0.15 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3114 | 1/1 | 0.37 | - | 17,17,17,17 | 0 |
| 55 | MG | DA | 1664 | 1/1 | 0.44 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3562 | 1/1 | 0.29 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1731 | 1/1 | 0.77 | - | 37,37,37,37 | 0 |
| 55 | MG | BA | 2010 | 1/1 | 0.45 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 2057 | 1/1 | 0.54 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4792 | 1/1 | 0.14 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1983 | 1/1 | 0.15 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4622 | 1/1 | 0.25 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4301 | 1/1 | 0.17 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1826 | 1/1 | 0.19 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4056 | 1/1 | 0.47 | - | 87,87,87,87 | 0 |
| 55 | MG | CF | 307 | 1/1 | 0.33 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4265 | 1/1 | 0.62 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 4002 | 1/1 | 0.19 | - | 34,34,34,34 | 0 |
| 55 | MG | DA | 1753 | 1/1 | 0.33 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 1745 | 1/1 | 0.35 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4540 | 1/1 | 0.25 | - | 87,87,87,87 | 0 |
| 55 | MG | DA | 1922 | 1/1 | 0.33 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 2978 | 1/1 | 0.82 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 2025 | 1/1 | 0.12 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4721 | 1/1 | 0.22 | - | 76,76,76,76 | 0 |
| 55 | MG | DA | 2031 | 1/1 | 0.19 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3073 | 1/1 | 0.33 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3083 | 1/1 | 0.38 | - | 57,57,57,57 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4230 | 1/1 | 0.20 | - | 19,19,19,19 | 0 |
| 55 | MG | CA | 2920 | 1/1 | 0.66 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4272 | 1/1 | 0.72 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3970 | 1/1 | 0.41 | - | 29,29,29,29 | 0 |
| 55 | MG | AA | 4651 | 1/1 | 0.25 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1692 | 1/1 | 0.30 | - | 11,11,11,11 | 0 |
| 55 | MG | CA | 3979 | 1/1 | 0.21 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 4173 | 1/1 | 0.50 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5083 | 1/1 | 0.19 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1654 | 1/1 | 0.10 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 5004 | 1/1 | 0.14 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3386 | 1/1 | 0.17 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3991 | 1/1 | 0.13 | - | 21,21,21,21 | 0 |
| 55 | MG | CK | 202 | 1/1 | 0.43 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5052 | 1/1 | 0.20 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3228 | 1/1 | 0.28 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 5190 | 1/1 | 0.78 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3013 | 1/1 | 0.78 | - | 128,128,128,128 | 0 |
| 55 | MG | BA | 1615 | 1/1 | 0.54 | - | 134,134,134,134 | 0 |
| 55 | MG | AA | 4098 | 1/1 | 0.47 | - | 87,87,87,87 | 0 |
| 55 | MG | BA | 2001 | 1/1 | 0.28 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 2042 | 1/1 | 0.37 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5242 | 1/1 | 0.18 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3910 | 1/1 | 0.41 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3802 | 1/1 | 0.52 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 5113 | 1/1 | 0.46 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4646 | 1/1 | 0.17 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4829 | 1/1 | 0.26 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3656 | 1/1 | 0.56 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4152 | 1/1 | 0.33 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 5270 | 1/1 | 0.19 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3758 | 1/1 | 0.11 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3587 | 1/1 | 0.29 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4439 | 1/1 | 0.81 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4627 | 1/1 | 0.31 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 4103 | 1/1 | 0.24 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 1953 | 1/1 | 0.14 | - | 140,140,140,140 | 0 |
| 55 | MG | CA | 4128 | 1/1 | 0.28 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1730 | 1/1 | 0.21 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4160 | 1/1 | 0.22 | - | 67,67,67,67 | 0 |
| 55 | MG | AS | 206 | 1/1 | 0.19 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2155 | 1/1 | 0.24 | - | 40,40,40,40 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3707 | 1/1 | 0.13 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4057 | 1/1 | 0.43 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4625 | 1/1 | 0.62 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1937 | 1/1 | 0.25 | - | 48,48,48,48 | 0 |
| 55 | MG | DA | 2124 | 1/1 | 0.83 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4794 | 1/1 | 0.23 | - | 106,106,106,106 | 0 |
| 55 | MG | CA | 3512 | 1/1 | 0.10 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4687 | 1/1 | 0.12 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4824 | 1/1 | 0.25 | - | 51,51,51,51 | 0 |
| 55 | MG | CB | 205 | 1/1 | 0.27 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4607 | 1/1 | 0.47 | - | 91,91,91,91 | 0 |
| 55 | MG | DA | 1624 | 1/1 | 0.27 | - | 127,127,127,127 | 0 |
| 55 | MG | BA | 1765 | 1/1 | 0.12 | - | 93,93,93,93 | 0 |
| 55 | MG | DA | 2000 | 1/1 | 0.41 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4268 | 1/1 | 0.25 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 3162 | 1/1 | 0.22 | - | 11,11,11,11 | 0 |
| 55 | MG | BA | 1847 | 1/1 | 0.10 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4747 | 1/1 | 0.34 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 4397 | 1/1 | 0.18 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5098 | 1/1 | 0.37 | - | 80,80,80,80 | 0 |
| 55 | MG | BA | 1890 | 1/1 | 0.18 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4320 | 1/1 | 0.53 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1825 | 1/1 | 0.26 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 2062 | 1/1 | 0.32 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3637 | 1/1 | 0.18 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 5161 | 1/1 | 0.20 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5034 | 1/1 | 0.61 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5189 | 1/1 | 0.51 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 5096 | 1/1 | 1.26 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 1817 | 1/1 | 0.12 | - | 34,34,34,34 | 0 |
| 55 | MG | AA | 5180 | 1/1 | 0.43 | - | 82,82,82,82 | 0 |
| 55 | MG | CW | 102 | 1/1 | 0.18 | - | 32,32,32,32 | 0 |
| 55 | MG | AA | 4938 | 1/1 | 0.35 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3167 | 1/1 | 0.43 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 4037 | 1/1 | 0.16 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 1632 | 1/1 | 0.33 | - | 81,81,81,81 | 0 |
| 55 | MG | BA | 1643 | 1/1 | 0.13 | - | 81,81,81,81 | 0 |
| 55 | MG | DA | 2018 | 1/1 | 0.12 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 1989 | 1/1 | 0.11 | - | 85,85,85,85 | 0 |
| 55 | MG | CW | 104 | 1/1 | 1.47 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 2120 | 1/1 | 0.38 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3219 | 1/1 | 0.45 | - | 35,35,35,35 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3046 | 1/1 | 0.76 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4883 | 1/1 | 0.34 | - | 47,47,47,47 | 0 |
| 55 | MG | DA | 1856 | 1/1 | 0.19 | - | 83,83,83,83 | 0 |
| 55 | MG | DA | 1847 | 1/1 | 0.06 | - | 119,119,119,119 | 0 |
| 55 | MG | BA | 2097 | 1/1 | 0.79 | - | 95,95,95,95 | 0 |
| 55 | MG | DA | 1932 | 1/1 | 1.34 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4342 | 1/1 | 0.45 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3954 | 1/1 | 0.18 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4235 | 1/1 | 0.19 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4138 | 1/1 | 0.32 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3368 | 1/1 | 0.31 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4896 | 1/1 | 0.28 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4656 | 1/1 | 0.71 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4071 | 1/1 | 0.20 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3312 | 1/1 | 0.43 | - | 38,38,38,38 | 0 |
| 55 | MG | BA | 1644 | 1/1 | 0.28 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1758 | 1/1 | 0.17 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4146 | 1/1 | 0.21 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5128 | 1/1 | 0.31 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4933 | 1/1 | 0.20 | - | 62,62,62,62 | 0 |
| 55 | MG | CN | 201 | 1/1 | 0.49 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1950 | 1/1 | 0.23 | - | 84,84,84,84 | 0 |
| 55 | MG | BA | 1887 | 1/1 | 0.10 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1992 | 1/1 | 0.74 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3714 | 1/1 | 0.44 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4118 | 1/1 | 0.21 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4144 | 1/1 | 0.33 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1666 | 1/1 | 0.69 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 4287 | 1/1 | 0.52 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4959 | 1/1 | 0.27 | - | 37,37,37,37 | 0 |
| 55 | MG | DA | 1712 | 1/1 | 0.31 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4929 | 1/1 | 0.37 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 2043 | 1/1 | 0.36 | - | 62,62,62,62 | 0 |
| 55 | MG | BP | 101 | 1/1 | 0.23 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3756 | 1/1 | 0.20 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4508 | 1/1 | 0.14 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4246 | 1/1 | 0.45 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3084 | 1/1 | 0.12 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3492 | 1/1 | 0.53 | - | 124,124,124,124 | 0 |
| 55 | MG | AA | 5191 | 1/1 | 0.17 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 4175 | 1/1 | 0.40 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5037 | 1/1 | 1.04 | - | 95,95,95,95 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4139 | 1/1 | 0.13 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3327 | 1/1 | 0.30 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 5109 | 1/1 | 0.42 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3571 | 1/1 | 1.00 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3616 | 1/1 | 0.16 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4655 | 1/1 | 0.68 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 5236 | 1/1 | 0.86 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1678 | 1/1 | 0.54 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4806 | 1/1 | 0.34 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4317 | 1/1 | 0.21 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4575 | 1/1 | 0.11 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 4272 | 1/1 | 0.29 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3972 | 1/1 | 0.37 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4843 | 1/1 | 0.36 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 4196 | 1/1 | 0.23 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 5095 | 1/1 | 0.70 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4494 | 1/1 | 0.22 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4468 | 1/1 | 0.39 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4801 | 1/1 | 0.09 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4866 | 1/1 | 0.39 | - | 24,24,24,24 | 0 |
| 55 | MG | DA | 2118 | 1/1 | 0.36 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1627 | 1/1 | 0.40 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4358 | 1/1 | 1.37 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1803 | 1/1 | 0.38 | - | 61,61,61,61 | 0 |
| 55 | MG | AD | 301 | 1/1 | 0.28 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 1967 | 1/1 | 0.36 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 4143 | 1/1 | 0.14 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5277 | 1/1 | 0.21 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 2976 | 1/1 | 0.53 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5200 | 1/1 | 0.48 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 4080 | 1/1 | 0.39 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1687 | 1/1 | 0.34 | - | 86,86,86,86 | 0 |
| 55 | MG | DA | 2007 | 1/1 | 0.12 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4941 | 1/1 | 0.19 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 2147 | 1/1 | 0.22 | - | 121,121,121,121 | 0 |
| 55 | MG | CA | 4101 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 4275 | 1/1 | 0.23 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1814 | 1/1 | 0.27 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3049 | 1/1 | 0.51 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4726 | 1/1 | 0.56 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4772 | 1/1 | 0.25 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1936 | 1/1 | 0.13 | - | 74,74,74,74 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2150 | 1/1 | 0.44 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3680 | 1/1 | 0.14 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3314 | 1/1 | 0.16 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 1787 | 1/1 | 0.23 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 5044 | 1/1 | 0.42 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4600 | 1/1 | 0.50 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4724 | 1/1 | 0.12 | - | 59,59,59,59 | 0 |
| 55 | MG | BV | 118 | 1/1 | 0.36 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3751 | 1/1 | 0.55 | - | 50,50,50,50 | 0 |
| 55 | MG | BW | 113 | 1/1 | 0.20 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4628 | 1/1 | 0.57 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3123 | 1/1 | 0.20 | - | 6,6,6,6 | 0 |
| 55 | MG | DA | 1833 | 1/1 | 0.19 | - | 103,103,103,103 | 0 |
| 55 | MG | AA | 4139 | 1/1 | 0.29 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3380 | 1/1 | 0.30 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3017 | 1/1 | 0.34 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1689 | 1/1 | 0.29 | - | 19,19,19,19 | 0 |
| 55 | MG | CA | 3421 | 1/1 | 0.39 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1634 | 1/1 | 0.82 | - | 104,104,104,104 | 0 |
| 55 | MG | CA | 3989 | 1/1 | 0.24 | - | 14,14,14,14 | 0 |
| 55 | MG | AA | 5117 | 1/1 | 1.02 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2021 | 1/1 | 0.16 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 1892 | 1/1 | 0.48 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3960 | 1/1 | 0.39 | - | 6,6,6,6 | 0 |
| 55 | MG | BA | 2041 | 1/1 | 0.08 | - | 66,66,66,66 | 0 |
| 55 | MG | CD | 304 | 1/1 | 0.23 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3540 | 1/1 | 0.63 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5297 | 1/1 | 1.31 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3423 | 1/1 | 0.10 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3205 | 1/1 | 0.32 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 3668 | 1/1 | 0.25 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4737 | 1/1 | 0.43 | - | 71,71,71,71 | 0 |
| 55 | MG | BT | 201 | 1/1 | 0.97 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4641 | 1/1 | 0.26 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3130 | 1/1 | 0.17 | - | 11,11,11,11 | 0 |
| 55 | MG | CA | 3085 | 1/1 | 0.47 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3358 | 1/1 | 0.68 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4828 | 1/1 | 0.23 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1819 | 1/1 | 0.19 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 4339 | 1/1 | 0.18 | - | 33,33,33,33 | 0 |
| 55 | MG | CA | 3626 | 1/1 | 0.37 | - | 103,103,103,103 | 0 |
| 55 | MG | AA | 4555 | 1/1 | 0.43 | - | 66,66,66,66 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5222 | 1/1 | 0.12 | - | 84,84,84,84 | 0 |
| 55 | MG | CB | 260 | 1/1 | 0.26 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4531 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 2124 | 1/1 | 0.60 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3644 | 1/1 | 0.19 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 4386 | 1/1 | 0.74 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1990 | 1/1 | 0.43 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4403 | 1/1 | 0.14 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1852 | 1/1 | 0.20 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 2067 | 1/1 | 0.47 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4803 | 1/1 | 0.50 | - | 85,85,85,85 | 0 |
| 55 | MG | BA | 1664 | 1/1 | 0.37 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 3851 | 1/1 | 0.59 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3813 | 1/1 | 0.32 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4370 | 1/1 | 0.10 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 2150 | 1/1 | 0.32 | - | 82,82,82,82 | 0 |
| 55 | MG | BA | 2088 | 1/1 | 0.36 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3198 | 1/1 | 0.17 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 3266 | 1/1 | 0.44 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4952 | 1/1 | 0.23 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 2937 | 1/1 | 0.29 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 2971 | 1/1 | 0.39 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4316 | 1/1 | 0.27 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1645 | 1/1 | 0.23 | - | 131,131,131,131 | 0 |
| 55 | MG | AA | 4099 | 1/1 | 0.42 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4971 | 1/1 | 0.65 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1897 | 1/1 | 0.13 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2003 | 1/1 | 0.21 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3537 | 1/1 | 0.23 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3779 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1722 | 1/1 | 0.11 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3722 | 1/1 | 0.22 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3636 | 1/1 | 0.28 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1606 | 1/1 | 0.50 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 4837 | 1/1 | 0.27 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 4064 | 1/1 | 0.22 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 2912 | 1/1 | 0.24 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 4132 | 1/1 | 0.44 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2102 | 1/1 | 1.19 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4985 | 1/1 | 0.33 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3398 | 1/1 | 0.20 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1814 | 1/1 | 0.30 | - | 53,53,53,53 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DV | 115 | 1/1 | 0.06 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1967 | 1/1 | 0.77 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4872 | 1/1 | 0.11 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 3952 | 1/1 | 0.56 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1654 | 1/1 | 0.38 | - | 131,131,131,131 | 0 |
| 55 | MG | CA | 4265 | 1/1 | 0.30 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 4019 | 1/1 | 0.44 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 1988 | 1/1 | 0.15 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3713 | 1/1 | 0.40 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3248 | 1/1 | 0.55 | - | 40,40,40,40 | 0 |
| 55 | MG | BA | 2128 | 1/1 | 0.36 | - | 83,83,83,83 | 0 |
| 55 | MG | AX | 104 | 1/1 | 0.35 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4925 | 1/1 | 0.20 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 1977 | 1/1 | 0.15 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4044 | 1/1 | 0.28 | - | 25,25,25,25 | 0 |
| 55 | MG | BA | 1646 | 1/1 | 0.19 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1791 | 1/1 | 0.19 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3817 | 1/1 | 1.02 | - | 59,59,59,59 | 0 |
| 55 | MG | AB | 238 | 1/1 | 0.12 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1828 | 1/1 | 0.28 | - | 100,100,100,100 | 0 |
| 55 | MG | DW | 106 | 1/1 | 0.28 | - | 113,113,113,113 | 0 |
| 55 | MG | AA | 4626 | 1/1 | 0.23 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4009 | 1/1 | 0.16 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4210 | 1/1 | 0.20 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4252 | 1/1 | 0.18 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3351 | 1/1 | 0.25 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4292 | 1/1 | 0.15 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 2121 | 1/1 | 0.27 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4946 | 1/1 | 0.20 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4363 | 1/1 | 0.45 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3773 | 1/1 | 0.19 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3437 | 1/1 | 0.48 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4398 | 1/1 | 0.47 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4998 | 1/1 | 0.15 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4319 | 1/1 | 0.17 | - | 50,50,50,50 | 0 |
| 55 | MG | DJ | 201 | 1/1 | 0.44 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 1702 | 1/1 | 0.21 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3104 | 1/1 | 0.54 | - | 19,19,19,19 | 0 |
| 55 | MG | DA | 1717 | 1/1 | 0.68 | - | 91,91,91,91 | 0 |
| 55 | MG | DA | 2200 | 1/1 | 0.37 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3951 | 1/1 | 0.31 | - | 94,94,94,94 | 0 |
| 55 | MG | DD | 302 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AE | 302 | 1/1 | 0.24 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4187 | 1/1 | 0.29 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1898 | 1/1 | 0.66 | - | 96,96,96,96 | 0 |
| 55 | MG | DQ | 201 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4725 | 1/1 | 0.35 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4083 | 1/1 | 0.22 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 5017 | 1/1 | 0.32 | - | 72,72,72,72 | 0 |
| 55 | MG | DA | 2131 | 1/1 | 0.22 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4357 | 1/1 | 0.26 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4231 | 1/1 | 0.35 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4774 | 1/1 | 0.26 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1876 | 1/1 | 0.19 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 3144 | 1/1 | 0.29 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 1889 | 1/1 | 0.62 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 3234 | 1/1 | 0.18 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 4942 | 1/1 | 0.14 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3316 | 1/1 | 0.09 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3001 | 1/1 | 0.13 | - | 40,40,40,40 | 0 |
| 55 | MG | BA | 1836 | 1/1 | 0.31 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3223 | 1/1 | 0.40 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3105 | 1/1 | 0.37 | - | 18,18,18,18 | 0 |
| 55 | MG | CA | 3331 | 1/1 | 0.11 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 4007 | 1/1 | 0.14 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 2057 | 1/1 | 0.09 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1954 | 1/1 | 0.31 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4814 | 1/1 | 0.33 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 1800 | 1/1 | 0.14 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3110 | 1/1 | 0.36 | - | 15,15,15,15 | 0 |
| 55 | MG | DA | 1867 | 1/1 | 0.14 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1895 | 1/1 | 0.12 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3012 | 1/1 | 0.25 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 2948 | 1/1 | 0.22 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3775 | 1/1 | 0.19 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1775 | 1/1 | 0.22 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3333 | 1/1 | 0.18 | - | 49,49,49,49 | 0 |
| 55 | MG | CB | 262 | 1/1 | 0.38 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4411 | 1/1 | 0.18 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3967 | 1/1 | 0.17 | - | 39,39,39,39 | 0 |
| 55 | MG | DA | 2006 | 1/1 | 0.19 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1868 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 2953 | 1/1 | 0.26 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3239 | 1/1 | 0.17 | - | 29,29,29,29 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4239 | 1/1 | 0.55 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3044 | 1/1 | 0.48 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4612 | 1/1 | 0.48 | - | 59,59,59,59 | 0 |
| 56 | ZN | BD | 301 | 1/1 | 0.27 | - | 38,38,38,38 | 0 |
| 55 | MG | CA | 3990 | 1/1 | 0.47 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3481 | 1/1 | 0.31 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 5275 | 1/1 | 0.32 | - | 59,59,59,59 | 0 |
| 55 | MG | AB | 223 | 1/1 | 0.32 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3971 | 1/1 | 0.27 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4276 | 1/1 | 0.31 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3252 | 1/1 | 0.17 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4335 | 1/1 | 0.46 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3256 | 1/1 | 0.13 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 2917 | 1/1 | 0.23 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 5168 | 1/1 | 0.30 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4519 | 1/1 | 0.24 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1747 | 1/1 | 0.20 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4777 | 1/1 | 0.38 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1939 | 1/1 | 0.43 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3593 | 1/1 | 0.47 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4063 | 1/1 | 0.74 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3210 | 1/1 | 0.40 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 4804 | 1/1 | 0.44 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3660 | 1/1 | 0.15 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4383 | 1/1 | 0.20 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4324 | 1/1 | 0.38 | - | 46,46,46,46 | 0 |
| 55 | MG | AB | 246 | 1/1 | 0.20 | - | 94,94,94,94 | 0 |
| 55 | MG | BA | 2084 | 1/1 | 0.42 | - | 71,71,71,71 | 0 |
| 55 | MG | DH | 201 | 1/1 | 0.14 | - | 100,100,100,100 | 0 |
| 55 | MG | DA | 2197 | 1/1 | 0.51 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1855 | 1/1 | 0.20 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4526 | 1/1 | 0.14 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1658 | 1/1 | 0.16 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4826 | 1/1 | 0.47 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 5170 | 1/1 | 0.27 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1918 | 1/1 | 0.10 | - | 88,88,88,88 | 0 |
| 55 | MG | DA | 1696 | 1/1 | 0.28 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 5101 | 1/1 | 0.51 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4352 | 1/1 | 0.36 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 1857 | 1/1 | 0.18 | - | 72,72,72,72 | 0 |
| 55 | MG | BA | 1635 | 1/1 | 0.36 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3846 | 1/1 | 0.13 | - | 126,126,126,126 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AB | 204 | 1/1 | 0.46 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3681 | 1/1 | 0.19 | - | 58,58,58,58 | 0 |
| 55 | MG | CB | 234 | 1/1 | 0.30 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4906 | 1/1 | 0.53 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3409 | 1/1 | 0.12 | - | 38,38,38,38 | 0 |
| 55 | MG | BR | 101 | 1/1 | 0.66 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4731 | 1/1 | 0.33 | - | 119,119,119,119 | 0 |
| 55 | MG | DA | 1715 | 1/1 | 0.13 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 3094 | 1/1 | 0.30 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 4528 | 1/1 | 0.29 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4403 | 1/1 | 0.23 | - | 175,175,175,175 | 0 |
| 55 | MG | AO | 201 | 1/1 | 0.15 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4079 | 1/1 | 0.40 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 2960 | 1/1 | 0.35 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4983 | 1/1 | 0.17 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4844 | 1/1 | 1.20 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3484 | 1/1 | 0.26 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3319 | 1/1 | 0.31 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 5212 | 1/1 | 0.27 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 5156 | 1/1 | 0.06 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3565 | 1/1 | 0.13 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 2946 | 1/1 | 1.02 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3980 | 1/1 | 0.26 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5292 | 1/1 | 0.51 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4207 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3877 | 1/1 | 0.42 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3602 | 1/1 | 0.38 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3187 | 1/1 | 0.23 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4412 | 1/1 | 0.72 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4021 | 1/1 | 0.11 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4005 | 1/1 | 0.21 | - | 49,49,49,49 | 0 |
| 55 | MG | C2 | 101 | 1/1 | 0.24 | - | 15,15,15,15 | 0 |
| 55 | MG | CA | 3157 | 1/1 | 0.33 | - | 8,8,8,8 | 0 |
| 55 | MG | AA | 4397 | 1/1 | 3.09 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3672 | 1/1 | 0.46 | - | 72,72,72,72 | 0 |
| 55 | MG | BA | 2046 | 1/1 | 0.72 | - | 82,82,82,82 | 0 |
| 55 | MG | DV | 120 | 1/1 | 0.16 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4835 | 1/1 | 0.31 | - | 131,131,131,131 | 0 |
| 55 | MG | DA | 1820 | 1/1 | 0.49 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 4813 | 1/1 | 0.39 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5064 | 1/1 | 0.26 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4954 | 1/1 | 0.22 | - | 42,42,42,42 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4029 | 1/1 | 0.30 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 4994 | 1/1 | 0.62 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3450 | 1/1 | 0.51 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3113 | 1/1 | 0.22 | - | 9,9,9,9 | 0 |
| 55 | MG | CA | 3605 | 1/1 | 0.27 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4502 | 1/1 | 0.42 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1767 | 1/1 | 0.23 | - | 118,118,118,118 | 0 |
| 55 | MG | CA | 3726 | 1/1 | 0.47 | - | 160,160,160,160 | 0 |
| 55 | MG | AA | 4120 | 1/1 | 0.77 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3349 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1943 | 1/1 | 0.76 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1901 | 1/1 | 0.49 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4980 | 1/1 | 0.14 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 2119 | 1/1 | 0.29 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3828 | 1/1 | 0.35 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3806 | 1/1 | 0.34 | - | 86,86,86,86 | 0 |
| 55 | MG | DA | 1915 | 1/1 | 0.12 | - | 113,113,113,113 | 0 |
| 55 | MG | AA | 4033 | 1/1 | 0.20 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4179 | 1/1 | 0.25 | - | 14,14,14,14 | 0 |
| 55 | MG | BA | 2133 | 1/1 | 0.45 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1602 | 1/1 | 0.25 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 4874 | 1/1 | 0.40 | - | 41,41,41,41 | 0 |
| 55 | MG | CQ | 201 | 1/1 | 0.30 | - | 33,33,33,33 | 0 |
| 55 | MG | AA | 4497 | 1/1 | 0.28 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1935 | 1/1 | 0.39 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3192 | 1/1 | 0.29 | - | 24,24,24,24 | 0 |
| 55 | MG | BA | 1739 | 1/1 | 0.47 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 4220 | 1/1 | 0.14 | - | 95,95,95,95 | 0 |
| 55 | MG | BA | 2086 | 1/1 | 0.49 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4919 | 1/1 | 0.52 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 4215 | 1/1 | 0.21 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4008 | 1/1 | 0.35 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4931 | 1/1 | 0.18 | - | 41,41,41,41 | 0 |
| 55 | MG | AB | 239 | 1/1 | 0.18 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4156 | 1/1 | 0.50 | - | 72,72,72,72 | 0 |
| 55 | MG | BV | 120 | 1/1 | 0.18 | - | 50,50,50,50 | 0 |
| 55 | MG | CB | 225 | 1/1 | 0.10 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3734 | 1/1 | 0.62 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3902 | 1/1 | 0.21 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1630 | 1/1 | 1.59 | - | 133,133,133,133 | 0 |
| 55 | MG | DA | 1823 | 1/1 | 0.17 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4514 | 1/1 | 0.53 | - | 81,81,81,81 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4536 | 1/1 | 0.30 | - | 126,126,126,126 | 0 |
| 55 | MG | AA | 5265 | 1/1 | 0.51 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4050 | 1/1 | 0.41 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3076 | 1/1 | 0.32 | - | 101,101,101,101 | 0 |
| 55 | MG | CA | 3008 | 1/1 | 0.37 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3918 | 1/1 | 0.22 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3253 | 1/1 | 0.15 | - | 27,27,27,27 | 0 |
| 55 | MG | CB | 254 | 1/1 | 0.24 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3154 | 1/1 | 0.33 | - | 29,29,29,29 | 0 |
| 55 | MG | AA | 4565 | 1/1 | 0.22 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4063 | 1/1 | 0.54 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4484 | 1/1 | 0.54 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 2084 | 1/1 | 0.44 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3810 | 1/1 | 0.21 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 2055 | 1/1 | 0.48 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4347 | 1/1 | 0.78 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4221 | 1/1 | 0.25 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 1643 | 1/1 | 0.39 | - | 91,91,91,91 | 0 |
| 55 | MG | CA | 3031 | 1/1 | 0.61 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 1758 | 1/1 | 0.14 | - | 106,106,106,106 | 0 |
| 55 | MG | CA | 3323 | 1/1 | 0.50 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 5293 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5215 | 1/1 | 0.15 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3247 | 1/1 | 0.26 | - | 23,23,23,23 | 0 |
| 55 | MG | BA | 1766 | 1/1 | 0.24 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4206 | 1/1 | 0.17 | - | 19,19,19,19 | 0 |
| 55 | MG | AA | 4253 | 1/1 | 0.85 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 2038 | 1/1 | 0.11 | - | 114,114,114,114 | 0 |
| 55 | MG | AA | 5233 | 1/1 | 0.15 | - | 74,74,74,74 | 0 |
| 55 | MG | CB | 239 | 1/1 | 0.14 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 2035 | 1/1 | 0.26 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4010 | 1/1 | 0.41 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 2137 | 1/1 | 0.26 | - | 98,98,98,98 | 0 |
| 55 | MG | DA | 1960 | 1/1 | 0.14 | - | 20,20,20,20 | 0 |
| 55 | MG | BA | 2059 | 1/1 | 0.31 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4273 | 1/1 | 0.39 | - | 43,43,43,43 | 0 |
| 55 | MG | AA | 4234 | 1/1 | 0.26 | - | 19,19,19,19 | 0 |
| 55 | MG | DA | 1836 | 1/1 | 0.62 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4114 | 1/1 | 0.44 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4395 | 1/1 | 0.09 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3920 | 1/1 | 0.72 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4433 | 1/1 | 0.10 | - | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4970 | 1/1 | 0.22 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4727 | 1/1 | 0.05 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1694 | 1/1 | 0.20 | - | 22,22,22,22 | 0 |
| 55 | MG | AA | 5035 | 1/1 | 0.26 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1992 | 1/1 | 0.38 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1936 | 1/1 | 0.17 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4316 | 1/1 | 0.30 | - | 31,31,31,31 | 0 |
| 55 | MG | DA | 1618 | 1/1 | 0.18 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4226 | 1/1 | 0.11 | - | 25,25,25,25 | 0 |
| 55 | MG | DA | 1914 | 1/1 | 0.15 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 1907 | 1/1 | 0.49 | - | 58,58,58,58 | 0 |
| 55 | MG | BA | 1794 | 1/1 | 0.09 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3429 | 1/1 | 0.35 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4180 | 1/1 | 0.15 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3434 | 1/1 | 0.40 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 5106 | 1/1 | 0.26 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4577 | 1/1 | 0.58 | - | 110,110,110,110 | 0 |
| 55 | MG | AA | 5153 | 1/1 | 0.24 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 1723 | 1/1 | 0.27 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 1672 | 1/1 | 0.39 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4833 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4257 | 1/1 | 0.41 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 2020 | 1/1 | 0.21 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 5155 | 1/1 | 0.73 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 2942 | 1/1 | 0.29 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1816 | 1/1 | 0.23 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4370 | 1/1 | 0.23 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4917 | 1/1 | 0.17 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3300 | 1/1 | 0.38 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 2064 | 1/1 | 0.30 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1808 | 1/1 | 0.50 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3065 | 1/1 | 0.50 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3738 | 1/1 | 0.41 | - | 105,105,105,105 | 0 |
| 55 | MG | DA | 2043 | 1/1 | 0.38 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3640 | 1/1 | 0.33 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1944 | 1/1 | 0.24 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3666 | 1/1 | 0.57 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3102 | 1/1 | 0.43 | - | 20,20,20,20 | 0 |
| 55 | MG | AB | 205 | 1/1 | 0.48 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1699 | 1/1 | 0.14 | - | 37,37,37,37 | 0 |
| 55 | MG | BE | 205 | 1/1 | 0.37 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 2047 | 1/1 | 0.54 | - | 52,52,52,52 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DW | 112 | 1/1 | 0.33 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4041 | 1/1 | 0.59 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5045 | 1/1 | 0.23 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 4009 | 1/1 | 0.23 | - | 34,34,34,34 | 0 |
| 55 | MG | AB | 240 | 1/1 | 0.11 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3148 | 1/1 | 0.33 | - | 17,17,17,17 | 0 |
| 55 | MG | CA | 3521 | 1/1 | 0.28 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3555 | 1/1 | 0.44 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3832 | 1/1 | 0.70 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4111 | 1/1 | 0.78 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4334 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4309 | 1/1 | 0.12 | - | 36,36,36,36 | 0 |
| 55 | MG | BA | 1935 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4756 | 1/1 | 1.17 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2058 | 1/1 | 0.18 | - | 63,63,63,63 | 0 |
| 55 | MG | DA | 1689 | 1/1 | 0.58 | - | 118,118,118,118 | 0 |
| 55 | MG | DA | 1659 | 1/1 | 0.24 | - | 83,83,83,83 | 0 |
| 55 | MG | AA | 5184 | 1/1 | 0.35 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3569 | 1/1 | 0.37 | - | 74,74,74,74 | 0 |
| 55 | MG | A5 | 102 | 1/1 | 0.66 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4846 | 1/1 | 0.15 | - | 13,13,13,13 | 0 |
| 55 | MG | DA | 1702 | 1/1 | 0.25 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 2023 | 1/1 | 0.18 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4364 | 1/1 | 0.11 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1842 | 1/1 | 0.20 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 1963 | 1/1 | 0.16 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3704 | 1/1 | 0.25 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3552 | 1/1 | 0.76 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1945 | 1/1 | 0.64 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3825 | 1/1 | 0.24 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 1725 | 1/1 | 0.11 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 4395 | 1/1 | 0.81 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4068 | 1/1 | 0.14 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 5295 | 1/1 | 0.37 | - | 103,103,103,103 | 0 |
| 55 | MG | DA | 1607 | 1/1 | 0.93 | - | 74,74,74,74 | 0 |
| 55 | MG | AB | 233 | 1/1 | 0.15 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4007 | 1/1 | 0.16 | - | 88,88,88,88 | 0 |
| 55 | MG | DA | 2151 | 1/1 | 0.14 | - | 124,124,124,124 | 0 |
| 55 | MG | CA | 3487 | 1/1 | 0.18 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1750 | 1/1 | 0.16 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 3020 | 1/1 | 0.35 | - | 139,139,139,139 | 0 |
| 55 | MG | AA | 5148 | 1/1 | 0.16 | - | 59,59,59,59 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1878 | 1/1 | 0.37 | - | 111,111,111,111 | 0 |
| 55 | MG | AA | 4200 | 1/1 | 0.18 | - | 8,8,8,8 | 0 |
| 55 | MG | CA | 3509 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3709 | 1/1 | 1.12 | - | 82,82,82,82 | 0 |
| 54 | BLS | CA | 4405 | 30/30 | 0.40 | - | 53,53,54,54 | 0 |
| 55 | MG | BA | 2037 | 1/1 | 0.27 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3254 | 1/1 | 0.28 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4831 | 1/1 | 0.84 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4479 | 1/1 | 0.35 | - | 80,80,80,80 | 0 |
| 55 | MG | BA | 2109 | 1/1 | 0.66 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4962 | 1/1 | 0.26 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5066 | 1/1 | 0.18 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3819 | 1/1 | 0.26 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3433 | 1/1 | 0.34 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3649 | 1/1 | 0.39 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1676 | 1/1 | 0.41 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 5010 | 1/1 | 0.45 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4781 | 1/1 | 0.22 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4405 | 1/1 | 0.51 | - | 24,24,24,24 | 0 |
| 55 | MG | BA | 1799 | 1/1 | 0.34 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 2918 | 1/1 | 0.34 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 5054 | 1/1 | 0.24 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1941 | 1/1 | 0.13 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3184 | 1/1 | 0.25 | - | 13,13,13,13 | 0 |
| 55 | MG | CA | 4223 | 1/1 | 0.40 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 4381 | 1/1 | 0.40 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3578 | 1/1 | 0.33 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4098 | 1/1 | 0.43 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3041 | 1/1 | 0.32 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3274 | 1/1 | 0.42 | - | 40,40,40,40 | 0 |
| 55 | MG | DA | 1984 | 1/1 | 0.46 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1946 | 1/1 | 0.16 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3977 | 1/1 | 0.17 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 4696 | 1/1 | 0.34 | - | 50,50,50,50 | 0 |
| 55 | MG | DO | 102 | 1/1 | 1.02 | - | 113,113,113,113 | 0 |
| 55 | MG | AA | 4972 | 1/1 | 0.96 | - | 171,171,171,171 | 0 |
| 55 | MG | BV | 113 | 1/1 | 0.15 | - | 82,82,82,82 | 0 |
| 55 | MG | DA | 1638 | 1/1 | 0.71 | - | 126,126,126,126 | 0 |
| 55 | MG | CA | 3816 | 1/1 | 0.10 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 4319 | 1/1 | 0.22 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 4357 | 1/1 | 0.20 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 2047 | 1/1 | 0.25 | - | 58,58,58,58 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1662 | 1/1 | 0.17 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3969 | 1/1 | 0.52 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 4026 | 1/1 | 0.31 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4300 | 1/1 | 0.29 | - | 25,25,25,25 | 0 |
| 55 | MG | BV | 102 | 1/1 | 0.55 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4371 | 1/1 | 0.28 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4361 | 1/1 | 0.48 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 2133 | 1/1 | 0.08 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 2061 | 1/1 | 0.36 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4755 | 1/1 | 0.67 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3343 | 1/1 | 0.20 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4153 | 1/1 | 0.49 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3246 | 1/1 | 0.27 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4002 | 1/1 | 0.61 | - | 130,130,130,130 | 0 |
| 55 | MG | AA | 4306 | 1/1 | 0.29 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 1695 | 1/1 | 0.34 | - | 19,19,19,19 | 0 |
| 55 | MG | AM | 202 | 1/1 | 0.32 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4262 | 1/1 | 0.25 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 1858 | 1/1 | 0.13 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 2168 | 1/1 | 0.28 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1900 | 1/1 | 0.38 | - | 98,98,98,98 | 0 |
| 55 | MG | BW | 119 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1707 | 1/1 | 0.54 | - | 38,38,38,38 | 0 |
| 55 | MG | BA | 1793 | 1/1 | 0.20 | - | 73,73,73,73 | 0 |
| 55 | MG | BW | 101 | 1/1 | 0.18 | - | 106,106,106,106 | 0 |
| 55 | MG | CA | 3449 | 1/1 | 0.13 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4032 | 1/1 | 0.33 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3927 | 1/1 | 0.46 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 4075 | 1/1 | 0.32 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 2125 | 1/1 | 0.62 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 2987 | 1/1 | 0.43 | - | 67,67,67,67 | 0 |
| 55 | MG | C4 | 103 | 1/1 | 0.36 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4634 | 1/1 | 0.61 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 4253 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1958 | 1/1 | 0.19 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 5058 | 1/1 | 0.32 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1768 | 1/1 | 0.16 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 2174 | 1/1 | 0.18 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4390 | 1/1 | 0.29 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3898 | 1/1 | 0.41 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 2094 | 1/1 | 0.56 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 4008 | 1/1 | 0.25 | - | 61,61,61,61 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4235 | 1/1 | 0.47 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4204 | 1/1 | 0.52 | - | 17,17,17,17 | 0 |
| 55 | MG | AA | 5007 | 1/1 | 0.28 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4100 | 1/1 | 0.31 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1635 | 1/1 | 0.38 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3224 | 1/1 | 0.18 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 4325 | 1/1 | 0.38 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4045 | 1/1 | 0.26 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3883 | 1/1 | 0.82 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3435 | 1/1 | 0.58 | - | 45,45,45,45 | 0 |
| 55 | MG | BW | 114 | 1/1 | 0.15 | - | 58,58,58,58 | 0 |
| 55 | MG | AK | 202 | 1/1 | 0.21 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4992 | 1/1 | 0.44 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4091 | 1/1 | 0.19 | - | 41,41,41,41 | 0 |
| 55 | MG | AA | 5146 | 1/1 | 0.44 | - | 110,110,110,110 | 0 |
| 55 | MG | AA | 4504 | 1/1 | 0.36 | - | 67,67,67,67 | 0 |
| 55 | MG | BW | 112 | 1/1 | 0.29 | - | 97,97,97,97 | 0 |
| 55 | MG | AA | 5075 | 1/1 | 0.52 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3132 | 1/1 | 0.28 | - | 16,16,16,16 | 0 |
| 55 | MG | DA | 2011 | 1/1 | 0.26 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4436 | 1/1 | 0.21 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4969 | 1/1 | 0.13 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3711 | 1/1 | 0.29 | - | 67,67,67,67 | 0 |
| 55 | MG | AV | 202 | 1/1 | 0.33 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3875 | 1/1 | 0.29 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 5257 | 1/1 | 0.27 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1838 | 1/1 | 0.20 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 2004 | 1/1 | 0.40 | - | 40,40,40,40 | 0 |
| 55 | MG | DA | 2177 | 1/1 | 0.27 | - | 105,105,105,105 | 0 |
| 55 | MG | CA | 4351 | 1/1 | 0.18 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 2934 | 1/1 | 0.33 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1976 | 1/1 | 0.18 | - | 47,47,47,47 | 0 |
| 55 | MG | DW | 110 | 1/1 | 0.08 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 1969 | 1/1 | 0.29 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1774 | 1/1 | 0.27 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4290 | 1/1 | 0.17 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 5152 | 1/1 | 0.75 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4228 | 1/1 | 1.36 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3613 | 1/1 | 0.16 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 5097 | 1/1 | 0.31 | - | 37,37,37,37 | 0 |
| 55 | MG | DW | 116 | 1/1 | 0.15 | - | 129,129,129,129 | 0 |
| 55 | MG | CA | 4267 | 1/1 | 0.29 | - | 56,56,56,56 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1655 | 1/1 | 0.47 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 4142 | 1/1 | 0.17 | - | 103,103,103,103 | 0 |
| 55 | MG | BA | 2016 | 1/1 | 0.30 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4252 | 1/1 | 0.18 | - | 66,66,66,66 | 0 |
| 55 | MG | BA | 1918 | 1/1 | 0.10 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3665 | 1/1 | 0.20 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1872 | 1/1 | 0.80 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4581 | 1/1 | 0.11 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4766 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1899 | 1/1 | 0.42 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4101 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1908 | 1/1 | 0.29 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3781 | 1/1 | 0.46 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4022 | 1/1 | 0.30 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4034 | 1/1 | 0.25 | - | 38,38,38,38 | 0 |
| 55 | MG | BA | 2013 | 1/1 | 1.00 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 4289 | 1/1 | 0.32 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3950 | 1/1 | 0.30 | - | 75,75,75,75 | 0 |
| 55 | MG | BA | 1801 | 1/1 | 0.60 | - | 88,88,88,88 | 0 |
| 55 | MG | AA | 4830 | 1/1 | 0.18 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 1675 | 1/1 | 0.36 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4078 | 1/1 | 0.31 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3994 | 1/1 | 0.16 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3755 | 1/1 | 0.28 | - | 52,52,52,52 | 0 |
| 55 | MG | DV | 105 | 1/1 | 0.07 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5060 | 1/1 | 0.31 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3458 | 1/1 | 0.41 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 2048 | 1/1 | 0.32 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3522 | 1/1 | 0.37 | - | 56,56,56,56 | 0 |
| 55 | MG | AB | 220 | 1/1 | 0.28 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3166 | 1/1 | 0.70 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1719 | 1/1 | 0.25 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 2032 | 1/1 | 0.41 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4047 | 1/1 | 0.44 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1697 | 1/1 | 0.36 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1735 | 1/1 | 0.08 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4394 | 1/1 | 0.26 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 2956 | 1/1 | 0.92 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4977 | 1/1 | 0.17 | - | 33,33,33,33 | 0 |
| 55 | MG | DA | 1764 | 1/1 | 0.49 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1786 | 1/1 | 0.14 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4243 | 1/1 | 0.40 | - | 45,45,45,45 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4197 | 1/1 | 0.33 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 2045 | 1/1 | 0.27 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1906 | 1/1 | 1.18 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 3634 | 1/1 | 0.66 | - | 118,118,118,118 | 0 |
| 55 | MG | CA | 4388 | 1/1 | 0.38 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1620 | 1/1 | 0.22 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 4191 | 1/1 | 0.48 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 3188 | 1/1 | 0.20 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 2949 | 1/1 | 0.17 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3697 | 1/1 | 0.44 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2093 | 1/1 | 0.12 | - | 89,89,89,89 | 0 |
| 55 | MG | CB | 246 | 1/1 | 0.16 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4122 | 1/1 | 0.51 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4150 | 1/1 | 0.58 | - | 75,75,75,75 | 0 |
| 55 | MG | CW | 103 | 1/1 | 0.49 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4146 | 1/1 | 0.42 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 1968 | 1/1 | 0.18 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4362 | 1/1 | 0.35 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2012 | 1/1 | 0.29 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4597 | 1/1 | 0.35 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3936 | 1/1 | 0.52 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4473 | 1/1 | 0.56 | - | 91,91,91,91 | 0 |
| 55 | MG | BA | 1798 | 1/1 | 0.25 | - | 60,60,60,60 | 0 |
| 55 | MG | CO | 201 | 1/1 | 0.26 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3619 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3100 | 1/1 | 0.32 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 3479 | 1/1 | 0.16 | - | 45,45,45,45 | 0 |
| 55 | MG | BA | 1686 | 1/1 | 0.15 | - | 40,40,40,40 | 0 |
| 55 | MG | BI | 201 | 1/1 | 0.31 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 5246 | 1/1 | 0.30 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 5291 | 1/1 | 0.28 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4867 | 1/1 | 0.28 | - | 44,44,44,44 | 0 |
| 55 | MG | BA | 1680 | 1/1 | 0.27 | - | 72,72,72,72 | 0 |
| 55 | MG | DA | 1959 | 1/1 | 0.21 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4636 | 1/1 | 0.32 | - | 102,102,102,102 | 0 |
| 55 | MG | AA | 5173 | 1/1 | 0.23 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1848 | 1/1 | 0.22 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 1653 | 1/1 | 0.70 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3621 | 1/1 | 0.46 | - | 87,87,87,87 | 0 |
| 55 | MG | DA | 2100 | 1/1 | 0.17 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4110 | 1/1 | 0.61 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 1908 | 1/1 | 0.27 | - | 88,88,88,88 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AB | 249 | 1/1 | 0.19 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1737 | 1/1 | 0.29 | - | 51,51,51,51 | 0 |
| 55 | MG | AE | 303 | 1/1 | 0.43 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1679 | 1/1 | 0.30 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4061 | 1/1 | 0.32 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4548 | 1/1 | 0.20 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4400 | 1/1 | 0.24 | - | 40,40,40,40 | 0 |
| 55 | MG | BW | 106 | 1/1 | 0.19 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 4464 | 1/1 | 0.65 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3679 | 1/1 | 0.33 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 4329 | 1/1 | 0.25 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4000 | 1/1 | 0.28 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4389 | 1/1 | 0.13 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4188 | 1/1 | 0.33 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3866 | 1/1 | 0.29 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3005 | 1/1 | 0.50 | - | 91,91,91,91 | 0 |
| 55 | MG | AA | 5198 | 1/1 | 0.16 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3719 | 1/1 | 0.10 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4511 | 1/1 | 1.35 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 5085 | 1/1 | 0.30 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4047 | 1/1 | 0.26 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4035 | 1/1 | 0.44 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3413 | 1/1 | 0.63 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3641 | 1/1 | 0.37 | - | 57,57,57,57 | 0 |
| 55 | MG | AF | 304 | 1/1 | 0.56 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4359 | 1/1 | 0.07 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 5160 | 1/1 | 0.38 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 2974 | 1/1 | 0.19 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 1870 | 1/1 | 0.10 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4378 | 1/1 | 0.24 | - | 54,54,54,54 | 0 |
| 55 | MG | AB | 207 | 1/1 | 0.20 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1738 | 1/1 | 0.53 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3112 | 1/1 | 0.40 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 4353 | 1/1 | 0.50 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3010 | 1/1 | 0.53 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4018 | 1/1 | 0.59 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4886 | 1/1 | 0.12 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 1714 | 1/1 | 0.44 | - | 56,56,56,56 | 0 |
| 55 | MG | BV | 126 | 1/1 | 0.28 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 2972 | 1/1 | 0.89 | - | 64,64,64,64 | 0 |
| 55 | MG | CX | 102 | 1/1 | 0.16 | - | 18,18,18,18 | 0 |
| 55 | MG | DA | 1636 | 1/1 | 0.33 | - | 50,50,50,50 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1896 | 1/1 | 0.16 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3917 | 1/1 | 0.46 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 2092 | 1/1 | 0.13 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 2185 | 1/1 | 0.48 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5150 | 1/1 | 0.19 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 4295 | 1/1 | 0.56 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4193 | 1/1 | 0.28 | - | 11,11,11,11 | 0 |
| 55 | MG | BA | 2077 | 1/1 | 0.29 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4509 | 1/1 | 0.40 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3859 | 1/1 | 0.38 | - | 96,96,96,96 | 0 |
| 55 | MG | BA | 2093 | 1/1 | 0.44 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3019 | 1/1 | 0.16 | - | 130,130,130,130 | 0 |
| 55 | MG | CA | 4225 | 1/1 | 0.34 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4155 | 1/1 | 0.41 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3372 | 1/1 | 0.15 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 2079 | 1/1 | 0.23 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4679 | 1/1 | 0.39 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3718 | 1/1 | 0.40 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 4221 | 1/1 | 0.49 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4329 | 1/1 | 0.45 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4214 | 1/1 | 0.27 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3607 | 1/1 | 0.28 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 4341 | 1/1 | 0.30 | - | 51,51,51,51 | 0 |
| 55 | MG | DA | 1656 | 1/1 | 0.17 | - | 96,96,96,96 | 0 |
| 55 | MG | BA | 1822 | 1/1 | 0.15 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3961 | 1/1 | 0.16 | - | 28,28,28,28 | 0 |
| 55 | MG | AA | 4869 | 1/1 | 0.08 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 1961 | 1/1 | 0.29 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3461 | 1/1 | 0.46 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 2201 | 1/1 | 0.36 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3120 | 1/1 | 0.32 | - | 11,11,11,11 | 0 |
| 55 | MG | BA | 2144 | 1/1 | 0.19 | - | 92,92,92,92 | 0 |
| 55 | MG | BA | 1673 | 1/1 | 0.33 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1892 | 1/1 | 0.13 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3720 | 1/1 | 0.75 | - | 60,60,60,60 | 0 |
| 55 | MG | DV | 118 | 1/1 | 0.21 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 2155 | 1/1 | 0.16 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 1663 | 1/1 | 0.36 | - | 95,95,95,95 | 0 |
| 55 | MG | AA | 4337 | 1/1 | 0.32 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4040 | 1/1 | 0.37 | - | 60,60,60,60 | 0 |
| 55 | MG | DV | 101 | 1/1 | 0.27 | - | 103,103,103,103 | 0 |
| 55 | MG | CA | 3384 | 1/1 | 0.35 | - | 49,49,49,49 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1713 | 1/1 | 0.22 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4987 | 1/1 | 0.14 | - | 78,78,78,78 | 0 |
| 55 | MG | CB | 201 | 1/1 | 0.12 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4198 | 1/1 | 0.56 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4194 | 1/1 | 0.26 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 5271 | 1/1 | 0.25 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3942 | 1/1 | 0.36 | - | 60,60,60,60 | 0 |
| 55 | MG | BA | 1867 | 1/1 | 1.39 | - | 100,100,100,100 | 0 |
| 55 | MG | AA | 5225 | 1/1 | 0.06 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 2079 | 1/1 | 0.23 | - | 57,57,57,57 | 0 |
| 55 | MG | CB | 221 | 1/1 | 0.36 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4255 | 1/1 | 0.17 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3138 | 1/1 | 0.47 | - | 19,19,19,19 | 0 |
| 55 | MG | BA | 2115 | 1/1 | 0.24 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4605 | 1/1 | 0.59 | - | 55,55,55,55 | 0 |
| 55 | MG | CQ | 202 | 1/1 | 0.65 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4999 | 1/1 | 0.20 | - | 100,100,100,100 | 0 |
| 55 | MG | CA | 3940 | 1/1 | 0.78 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3976 | 1/1 | 0.09 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 3612 | 1/1 | 0.15 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3529 | 1/1 | 0.15 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4584 | 1/1 | 0.52 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1792 | 1/1 | 1.91 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 4142 | 1/1 | 0.34 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 2904 | 1/1 | 0.21 | - | 49,49,49,49 | 0 |
| 55 | MG | DA | 2117 | 1/1 | 0.44 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4173 | 1/1 | 0.31 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 1880 | 1/1 | 0.36 | - | 135,135,135,135 | 0 |
| 55 | MG | DA | 2129 | 1/1 | 0.19 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4775 | 1/1 | 0.16 | - | 66,66,66,66 | 0 |
| 55 | MG | DA | 1840 | 1/1 | 0.10 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1604 | 1/1 | 0.43 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4915 | 1/1 | 0.25 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3204 | 1/1 | 0.10 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4457 | 1/1 | 0.25 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4019 | 1/1 | 0.13 | - | 85,85,85,85 | 0 |
| 55 | MG | DW | 118 | 1/1 | 0.39 | - | 157,157,157,157 | 0 |
| 55 | MG | AA | 5167 | 1/1 | 0.31 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4189 | 1/1 | 0.39 | - | 27,27,27,27 | 0 |
| 55 | MG | CA | 3731 | 1/1 | 0.33 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4763 | 1/1 | 0.38 | - | 137,137,137,137 | 0 |
| 55 | MG | AA | 4049 | 1/1 | 0.15 | - | 60,60,60,60 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5221 | 1/1 | 0.42 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3279 | 1/1 | 0.21 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 2981 | 1/1 | 0.54 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3763 | 1/1 | 0.68 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4112 | 1/1 | 0.15 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3573 | 1/1 | 0.76 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3749 | 1/1 | 0.32 | - | 105,105,105,105 | 0 |
| 55 | MG | BA | 2009 | 1/1 | 0.46 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3478 | 1/1 | 0.29 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4071 | 1/1 | 0.31 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 1813 | 1/1 | 0.52 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3572 | 1/1 | 0.15 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4758 | 1/1 | 0.42 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2066 | 1/1 | 0.57 | - | 55,55,55,55 | 0 |
| 55 | MG | BW | 105 | 1/1 | 0.12 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4017 | 1/1 | 0.27 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4302 | 1/1 | 0.07 | - | 28,28,28,28 | 0 |
| 55 | MG | CA | 4324 | 1/1 | 0.25 | - | 79,79,79,79 | 0 |
| 55 | MG | AA | 4287 | 1/1 | 0.35 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4518 | 1/1 | 0.55 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3028 | 1/1 | 1.23 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 5195 | 1/1 | 0.20 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 5261 | 1/1 | 0.13 | - | 73,73,73,73 | 0 |
| 55 | MG | AA | 4362 | 1/1 | 0.43 | - | 49,49,49,49 | 0 |
| 55 | MG | CD | 305 | 1/1 | 0.34 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 5204 | 1/1 | 0.46 | - | 71,71,71,71 | 0 |
| 55 | MG | CB | 236 | 1/1 | 0.47 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3926 | 1/1 | 0.52 | - | 45,45,45,45 | 0 |
| 55 | MG | BA | 2164 | 1/1 | 0.13 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3457 | 1/1 | 0.32 | - | 42,42,42,42 | 0 |
| 55 | MG | DA | 1912 | 1/1 | 0.15 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3869 | 1/1 | 0.20 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3794 | 1/1 | 0.35 | - | 106,106,106,106 | 0 |
| 55 | MG | AA | 4595 | 1/1 | 0.43 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4381 | 1/1 | 0.29 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3227 | 1/1 | 0.22 | - | 29,29,29,29 | 0 |
| 55 | MG | DV | 116 | 1/1 | 0.13 | - | 77,77,77,77 | 0 |
| 55 | MG | BA | 2157 | 1/1 | 0.38 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4410 | 1/1 | 0.43 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 2051 | 1/1 | 0.23 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3363 | 1/1 | 0.28 | - | 22,22,22,22 | 0 |
| 55 | MG | BC | 301 | 1/1 | 0.69 | - | 64,64,64,64 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3622 | 1/1 | 0.44 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 1919 | 1/1 | 0.27 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4930 | 1/1 | 0.24 | - | 39,39,39,39 | 0 |
| 55 | MG | DA | 1909 | 1/1 | 0.45 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3925 | 1/1 | 0.28 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3262 | 1/1 | 0.12 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3822 | 1/1 | 0.38 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4254 | 1/1 | 0.49 | - | 33,33,33,33 | 0 |
| 55 | MG | AA | 4862 | 1/1 | 0.27 | - | 30,30,30,30 | 0 |
| 55 | MG | DA | 1627 | 1/1 | 0.28 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4545 | 1/1 | 0.60 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3082 | 1/1 | 0.72 | - | 113,113,113,113 | 0 |
| 55 | MG | AA | 4435 | 1/1 | 0.26 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4006 | 1/1 | 0.38 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1891 | 1/1 | 0.47 | - | 116,116,116,116 | 0 |
| 55 | MG | AA | 4877 | 1/1 | 0.21 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4841 | 1/1 | 0.51 | - | 67,67,67,67 | 0 |
| 55 | MG | BA | 1873 | 1/1 | 0.50 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 3040 | 1/1 | 0.26 | - | 60,60,60,60 | 0 |
| 55 | MG | AD | 304 | 1/1 | 0.33 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3037 | 1/1 | 0.18 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 5062 | 1/1 | 0.30 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1808 | 1/1 | 0.23 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5115 | 1/1 | 0.23 | - | 65,65,65,65 | 0 |
| 55 | MG | DA | 1946 | 1/1 | 0.17 | - | 86,86,86,86 | 0 |
| 55 | MG | BW | 117 | 1/1 | 0.43 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4222 | 1/1 | 0.92 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 1955 | 1/1 | 0.20 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4556 | 1/1 | 0.27 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 2991 | 1/1 | 0.37 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4037 | 1/1 | 0.33 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 4105 | 1/1 | 0.17 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 4340 | 1/1 | 0.24 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3321 | 1/1 | 0.45 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 2072 | 1/1 | 0.28 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3837 | 1/1 | 0.34 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2204 | 1/1 | 0.21 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3533 | 1/1 | 0.24 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 4233 | 1/1 | 1.23 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3598 | 1/1 | 0.26 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4660 | 1/1 | 1.02 | - | 140,140,140,140 | 0 |
| 55 | MG | AA | 4807 | 1/1 | 0.60 | - | 88,88,88,88 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1604 | 1/1 | 0.37 | - | 101,101,101,101 | 0 |
| 55 | MG | AA | 5182 | 1/1 | 0.44 | - | 52,52,52,52 | 0 |
| 56 | ZN | DN | 101 | 1/1 | 0.11 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3056 | 1/1 | 0.52 | - | 47,47,47,47 | 0 |
| 55 | MG | DW | 119 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 4165 | 1/1 | 0.12 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4450 | 1/1 | 0.16 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 2152 | 1/1 | 0.13 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2120 | 1/1 | 0.40 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3800 | 1/1 | 0.52 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3442 | 1/1 | 0.09 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4825 | 1/1 | 0.36 | - | 84,84,84,84 | 0 |
| 55 | MG | CA | 3089 | 1/1 | 0.13 | - | 81,81,81,81 | 0 |
| 55 | MG | CA | 3213 | 1/1 | 0.16 | - | 14,14,14,14 | 0 |
| 55 | MG | CN | 203 | 1/1 | 0.41 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4038 | 1/1 | 0.51 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 1980 | 1/1 | 0.37 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3078 | 1/1 | 0.18 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4535 | 1/1 | 0.61 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3528 | 1/1 | 0.38 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3840 | 1/1 | 0.34 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4246 | 1/1 | 0.15 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3717 | 1/1 | 0.40 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3931 | 1/1 | 0.39 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3440 | 1/1 | 0.27 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 4030 | 1/1 | 0.25 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3272 | 1/1 | 0.62 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 4366 | 1/1 | 0.34 | - | 70,70,70,70 | 0 |
| 55 | MG | BA | 2104 | 1/1 | 0.28 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 2136 | 1/1 | 0.19 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4893 | 1/1 | 0.15 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3676 | 1/1 | 0.21 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1718 | 1/1 | 0.24 | - | 30,30,30,30 | 0 |
| 55 | MG | CA | 3191 | 1/1 | 0.09 | - | 36,36,36,36 | 0 |
| 55 | MG | DI | 201 | 1/1 | 0.51 | - | 72,72,72,72 | 0 |
| 55 | MG | DH | 202 | 1/1 | 0.92 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3808 | 1/1 | 0.33 | - | 88,88,88,88 | 0 |
| 55 | MG | CA | 3243 | 1/1 | 0.51 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 1641 | 1/1 | 0.46 | - | 86,86,86,86 | 0 |
| 55 | MG | BA | 1670 | 1/1 | 0.10 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4602 | 1/1 | 0.14 | - | 134,134,134,134 | 0 |
| 55 | MG | AA | 4788 | 1/1 | 0.59 | - | 55,55,55,55 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3811 | 1/1 | 0.23 | - | 72,72,72,72 | 0 |
| 55 | MG | AA | 4677 | 1/1 | 0.35 | - | 95,95,95,95 | 0 |
| 55 | MG | BA | 1846 | 1/1 | 0.24 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 5019 | 1/1 | 0.34 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 1776 | 1/1 | 0.11 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4241 | 1/1 | 0.50 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 1962 | 1/1 | 0.33 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4295 | 1/1 | 0.25 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4313 | 1/1 | 0.34 | - | 39,39,39,39 | 0 |
| 55 | MG | BA | 1938 | 1/1 | 0.69 | - | 78,78,78,78 | 0 |
| 55 | MG | BV | 116 | 1/1 | 0.39 | - | 74,74,74,74 | 0 |
| 55 | MG | AA | 4212 | 1/1 | 0.54 | - | 39,39,39,39 | 0 |
| 55 | MG | BA | 1825 | 1/1 | 0.19 | - | 62,62,62,62 | 0 |
| 55 | MG | BA | 1741 | 1/1 | 0.23 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1706 | 1/1 | 0.12 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 4211 | 1/1 | 0.32 | - | 67,67,67,67 | 0 |
| 55 | MG | DA | 2042 | 1/1 | 0.45 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 4157 | 1/1 | 0.71 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3739 | 1/1 | 0.41 | - | 45,45,45,45 | 0 |
| 55 | MG | CE | 305 | 1/1 | 1.20 | - | 44,44,44,44 | 0 |
| 55 | MG | CA | 3867 | 1/1 | 0.18 | - | 53,53,53,53 | 0 |
| 55 | MG | DA | 2111 | 1/1 | 0.20 | - | 52,52,52,52 | 0 |
| 55 | MG | DV | 107 | 1/1 | 0.16 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 4006 | 1/1 | 0.21 | - | 33,33,33,33 | 0 |
| 55 | MG | AA | 4058 | 1/1 | 0.16 | - | 76,76,76,76 | 0 |
| 55 | MG | BA | 2038 | 1/1 | 0.25 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 4658 | 1/1 | 0.41 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4350 | 1/1 | 0.34 | - | 77,77,77,77 | 0 |
| 55 | MG | DA | 1911 | 1/1 | 0.22 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2179 | 1/1 | 0.27 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1799 | 1/1 | 0.18 | - | 80,80,80,80 | 0 |
| 55 | MG | AA | 4848 | 1/1 | 0.13 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 5169 | 1/1 | 0.71 | - | 71,71,71,71 | 0 |
| 55 | MG | BA | 1980 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4958 | 1/1 | 0.37 | - | 78,78,78,78 | 0 |
| 55 | MG | BA | 1712 | 1/1 | 0.14 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3128 | 1/1 | 0.15 | - | 8,8,8,8 | 0 |
| 55 | MG | AA | 5079 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1710 | 1/1 | 0.15 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 1701 | 1/1 | 0.29 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 4243 | 1/1 | 0.30 | - | 68,68,68,68 | 0 |
| 55 | MG | AA | 4440 | 1/1 | 0.07 | - | 60,60,60,60 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3842 | 1/1 | 0.36 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3180 | 1/1 | 0.23 | - | 18,18,18,18 | 0 |
| 55 | MG | AA | 4129 | 1/1 | 0.35 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 2952 | 1/1 | 0.20 | - | 130,130,130,130 | 0 |
| 55 | MG | AA | 4935 | 1/1 | 0.57 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4936 | 1/1 | 0.17 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3052 | 1/1 | 0.37 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 4241 | 1/1 | 0.29 | - | 86,86,86,86 | 0 |
| 55 | MG | AA | 4259 | 1/1 | 0.62 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 5127 | 1/1 | 0.09 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 4130 | 1/1 | 0.29 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1763 | 1/1 | 0.27 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 5209 | 1/1 | 0.27 | - | 51,51,51,51 | 0 |
| 55 | MG | AB | 227 | 1/1 | 0.35 | - | 95,95,95,95 | 0 |
| 55 | MG | BA | 1840 | 1/1 | 0.46 | - | 96,96,96,96 | 0 |
| 55 | MG | DA | 2121 | 1/1 | 1.12 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4360 | 1/1 | 0.27 | - | 48,48,48,48 | 0 |
| 55 | MG | DL | 201 | 1/1 | 0.49 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3392 | 1/1 | 0.19 | - | 25,25,25,25 | 0 |
| 55 | MG | AA | 4330 | 1/1 | 0.12 | - | 72,72,72,72 | 0 |
| 55 | MG | CJ | 201 | 1/1 | 0.38 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 1906 | 1/1 | 0.10 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1679 | 1/1 | 0.45 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 1832 | 1/1 | 0.48 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3137 | 1/1 | 0.21 | - | 16,16,16,16 | 0 |
| 55 | MG | CA | 3033 | 1/1 | 0.23 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4760 | 1/1 | 0.47 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 5234 | 1/1 | 0.31 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 2126 | 1/1 | 0.85 | - | 106,106,106,106 | 0 |
| 55 | MG | AB | 232 | 1/1 | 0.11 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4282 | 1/1 | 0.23 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3395 | 1/1 | 0.08 | - | 39,39,39,39 | 0 |
| 55 | MG | BA | 1685 | 1/1 | 0.55 | - | 34,34,34,34 | 0 |
| 55 | MG | DA | 1933 | 1/1 | 0.50 | - | 61,61,61,61 | 0 |
| 55 | MG | DA | 1829 | 1/1 | 0.25 | - | 123,123,123,123 | 0 |
| 55 | MG | DA | 1782 | 1/1 | 0.19 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3305 | 1/1 | 0.65 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1819 | 1/1 | 0.24 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4026 | 1/1 | 0.39 | - | 55,55,55,55 | 0 |
| 55 | MG | BA | 1888 | 1/1 | 0.09 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 4431 | 1/1 | 0.29 | - | 59,59,59,59 | 0 |
| 55 | MG | AA | 4176 | 1/1 | 0.56 | - | 21,21,21,21 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4701 | 1/1 | 0.37 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3341 | 1/1 | 0.27 | - | 30,30,30,30 | 0 |
| 55 | MG | BA | 2146 | 1/1 | 0.28 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3651 | 1/1 | 0.14 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 3452 | 1/1 | 0.15 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4458 | 1/1 | 0.58 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3027 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1669 | 1/1 | 0.18 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 5279 | 1/1 | 1.16 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1795 | 1/1 | 0.56 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 1755 | 1/1 | 0.61 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 4908 | 1/1 | 0.46 | - | 97,97,97,97 | 0 |
| 55 | MG | BC | 302 | 1/1 | 0.28 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3907 | 1/1 | 0.52 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4270 | 1/1 | 0.29 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4438 | 1/1 | 0.22 | - | 76,76,76,76 | 0 |
| 55 | MG | BL | 201 | 1/1 | 0.55 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3175 | 1/1 | 0.25 | - | 28,28,28,28 | 0 |
| 55 | MG | AA | 4160 | 1/1 | 0.25 | - | 94,94,94,94 | 0 |
| 55 | MG | CA | 3257 | 1/1 | 0.22 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 2954 | 1/1 | 0.28 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5053 | 1/1 | 0.41 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3658 | 1/1 | 0.21 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3352 | 1/1 | 0.19 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4857 | 1/1 | 0.31 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 1771 | 1/1 | 0.25 | - | 77,77,77,77 | 0 |
| 55 | MG | AF | 306 | 1/1 | 0.28 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3748 | 1/1 | 0.09 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4447 | 1/1 | 0.42 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4148 | 1/1 | 0.35 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4112 | 1/1 | 0.26 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 5286 | 1/1 | 0.33 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4373 | 1/1 | 0.61 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4712 | 1/1 | 1.21 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4445 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3900 | 1/1 | 0.71 | - | 39,39,39,39 | 0 |
| 55 | MG | AB | 241 | 1/1 | 0.45 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3183 | 1/1 | 0.27 | - | 19,19,19,19 | 0 |
| 55 | MG | BA | 1715 | 1/1 | 0.18 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 4904 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4576 | 1/1 | 0.26 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1910 | 1/1 | 0.26 | - | 104,104,104,104 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 2191 | 1/1 | 0.88 | - | 92,92,92,92 | 0 |
| 55 | MG | DA | 1903 | 1/1 | 0.17 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4375 | 1/1 | 0.83 | - | 85,85,85,85 | 0 |
| 55 | MG | CA | 3447 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1666 | 1/1 | 0.62 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4384 | 1/1 | 0.34 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 2067 | 1/1 | 0.13 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3820 | 1/1 | 0.36 | - | 100,100,100,100 | 0 |
| 55 | MG | CB | 208 | 1/1 | 0.13 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3370 | 1/1 | 0.26 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1754 | 1/1 | 0.18 | - | 68,68,68,68 | 0 |
| 55 | MG | DL | 202 | 1/1 | 0.47 | - | 60,60,60,60 | 0 |
| 55 | MG | CB | 218 | 1/1 | 0.48 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3244 | 1/1 | 1.09 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4864 | 1/1 | 0.23 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 4269 | 1/1 | 0.31 | - | 34,34,34,34 | 0 |
| 55 | MG | BA | 1830 | 1/1 | 0.28 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3465 | 1/1 | 0.30 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1944 | 1/1 | 0.21 | - | 77,77,77,77 | 0 |
| 55 | MG | CB | 216 | 1/1 | 0.25 | - | 21,21,21,21 | 0 |
| 55 | MG | CA | 3026 | 1/1 | 0.73 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3153 | 1/1 | 0.53 | - | 27,27,27,27 | 0 |
| 55 | MG | DA | 1879 | 1/1 | 0.21 | - | 80,80,80,80 | 0 |
| 55 | MG | DA | 1772 | 1/1 | 0.23 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1804 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 2930 | 1/1 | 0.27 | - | 92,92,92,92 | 0 |
| 55 | MG | DA | 2015 | 1/1 | 0.11 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1698 | 1/1 | 0.18 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3267 | 1/1 | 0.07 | - | 56,56,56,56 | 0 |
| 55 | MG | AA | 4784 | 1/1 | 0.28 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 2089 | 1/1 | 0.35 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 2990 | 1/1 | 0.10 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3588 | 1/1 | 0.27 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3601 | 1/1 | 0.18 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 3116 | 1/1 | 0.23 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 3944 | 1/1 | 0.27 | - | 39,39,39,39 | 0 |
| 55 | MG | DW | 113 | 1/1 | 0.24 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 2109 | 1/1 | 0.18 | - | 93,93,93,93 | 0 |
| 55 | MG | AA | 5290 | 1/1 | 0.37 | - | 69,69,69,69 | 0 |
| 55 | MG | BE | 201 | 1/1 | 0.41 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 4202 | 1/1 | 0.19 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 4614 | 1/1 | 0.11 | - | 79,79,79,79 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1621 | 1/1 | 0.22 | - | 97,97,97,97 | 0 |
| 55 | MG | AA | 5016 | 1/1 | 0.45 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1854 | 1/1 | 0.21 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 4678 | 1/1 | 0.40 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3657 | 1/1 | 0.42 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3236 | 1/1 | 0.37 | - | 31,31,31,31 | 0 |
| 55 | MG | DA | 1974 | 1/1 | 0.20 | - | 62,62,62,62 | 0 |
| 55 | MG | AJ | 201 | 1/1 | 0.25 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3427 | 1/1 | 0.36 | - | 31,31,31,31 | 0 |
| 55 | MG | BA | 2107 | 1/1 | 0.16 | - | 57,57,57,57 | 0 |
| 55 | MG | AA | 4783 | 1/1 | 0.14 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 5048 | 1/1 | 0.36 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3006 | 1/1 | 0.68 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 4183 | 1/1 | 0.68 | - | 71,71,71,71 | 0 |
| 55 | MG | AA | 5259 | 1/1 | 0.36 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2194 | 1/1 | 0.28 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 4043 | 1/1 | 0.20 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3703 | 1/1 | 0.20 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2173 | 1/1 | 0.28 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3744 | 1/1 | 0.18 | - | 90,90,90,90 | 0 |
| 55 | MG | DV | 102 | 1/1 | 0.12 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 2902 | 1/1 | 0.51 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 3194 | 1/1 | 0.21 | - | 9,9,9,9 | 0 |
| 55 | MG | AA | 4084 | 1/1 | 0.46 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1921 | 1/1 | 0.17 | - | 42,42,42,42 | 0 |
| 55 | MG | AB | 206 | 1/1 | 0.23 | - | 112,112,112,112 | 0 |
| 55 | MG | CQ | 205 | 1/1 | 0.53 | - | 81,81,81,81 | 0 |
| 55 | MG | CE | 301 | 1/1 | 0.48 | - | 47,47,47,47 | 0 |
| 55 | MG | AA | 4903 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | DA | 1822 | 1/1 | 0.49 | - | 111,111,111,111 | 0 |
| 55 | MG | CA | 4392 | 1/1 | 0.18 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4236 | 1/1 | 0.39 | - | 23,23,23,23 | 0 |
| 55 | MG | CA | 3237 | 1/1 | 0.16 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 4354 | 1/1 | 0.26 | - | 60,60,60,60 | 0 |
| 55 | MG | AA | 4275 | 1/1 | 0.25 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3507 | 1/1 | 0.49 | - | 55,55,55,55 | 0 |
| 55 | MG | BV | 129 | 1/1 | 0.11 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4089 | 1/1 | 0.40 | - | 96,96,96,96 | 0 |
| 55 | MG | CA | 4390 | 1/1 | 0.14 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 4104 | 1/1 | 0.16 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 4176 | 1/1 | 0.24 | - | 68,68,68,68 | 0 |
| 55 | MG | A4 | 101 | 1/1 | 0.29 | - | 117,117,117,117 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5002 | 1/1 | 0.61 | - | 90,90,90,90 | 0 |
| 55 | MG | BA | 2137 | 1/1 | 0.50 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 5262 | 1/1 | 0.56 | - | 64,64,64,64 | 0 |
| 55 | MG | BA | 1930 | 1/1 | 0.17 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1710 | 1/1 | 0.32 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4186 | 1/1 | 0.23 | - | 10,10,10,10 | 0 |
| 55 | MG | CA | 3396 | 1/1 | 0.32 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4130 | 1/1 | 0.44 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4270 | 1/1 | 0.32 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 2070 | 1/1 | 0.19 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 4342 | 1/1 | 0.53 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3258 | 1/1 | 0.18 | - | 41,41,41,41 | 0 |
| 55 | MG | BA | 1601 | 1/1 | 0.16 | - | 78,78,78,78 | 0 |
| 55 | MG | AA | 4365 | 1/1 | 0.20 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3608 | 1/1 | 0.56 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4423 | 1/1 | 0.22 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4074 | 1/1 | 0.44 | - | 54,54,54,54 | 0 |
| 55 | MG | BA | 2014 | 1/1 | 0.25 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4239 | 1/1 | 1.20 | - | 47,47,47,47 | 0 |
| 55 | MG | CA | 3324 | 1/1 | 0.41 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4963 | 1/1 | 0.34 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3790 | 1/1 | 0.46 | - | 111,111,111,111 | 0 |
| 55 | MG | AA | 4914 | 1/1 | 0.22 | - | 43,43,43,43 | 0 |
| 55 | MG | BA | 2110 | 1/1 | 0.38 | - | 88,88,88,88 | 0 |
| 55 | MG | BA | 1982 | 1/1 | 0.27 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3474 | 1/1 | 0.35 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3620 | 1/1 | 0.29 | - | 89,89,89,89 | 0 |
| 55 | MG | CA | 4274 | 1/1 | 0.41 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 5038 | 1/1 | 0.89 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3373 | 1/1 | 0.15 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1772 | 1/1 | 0.15 | - | 43,43,43,43 | 0 |
| 55 | MG | A4 | 102 | 1/1 | 0.66 | - | 101,101,101,101 | 0 |
| 55 | MG | CA | 4111 | 1/1 | 0.19 | - | 37,37,37,37 | 0 |
| 55 | MG | CA | 3728 | 1/1 | 0.28 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3584 | 1/1 | 0.19 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 1954 | 1/1 | 0.53 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 5011 | 1/1 | 0.26 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 2968 | 1/1 | 0.45 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3761 | 1/1 | 0.16 | - | 57,57,57,57 | 0 |
| 55 | MG | BW | 104 | 1/1 | 0.31 | - | 96,96,96,96 | 0 |
| 55 | MG | BA | 1613 | 1/1 | 0.45 | - | 69,69,69,69 | 0 |
| 55 | MG | AB | 216 | 1/1 | 0.55 | - | 63,63,63,63 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | DA | 1951 | 1/1 | 0.55 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 1916 | 1/1 | 0.71 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 1869 | 1/1 | 0.20 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4219 | 1/1 | 0.18 | - | 16,16,16,16 | 0 |
| 55 | MG | AA | 4566 | 1/1 | 0.42 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3021 | 1/1 | 0.38 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 2928 | 1/1 | 0.56 | - | 55,55,55,55 | 0 |
| 55 | MG | AB | 214 | 1/1 | 0.25 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4673 | 1/1 | 0.19 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5102 | 1/1 | 0.42 | - | 50,50,50,50 | 0 |
| 55 | MG | DA | 1952 | 1/1 | 0.45 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 5139 | 1/1 | 0.34 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3212 | 1/1 | 0.25 | - | 26,26,26,26 | 0 |
| 55 | MG | DA | 2139 | 1/1 | 0.24 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3568 | 1/1 | 0.10 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3400 | 1/1 | 0.30 | - | 32,32,32,32 | 0 |
| 55 | MG | CA | 4107 | 1/1 | 0.18 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 3812 | 1/1 | 0.23 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4372 | 1/1 | 0.40 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 3903 | 1/1 | 0.23 | - | 135,135,135,135 | 0 |
| 55 | MG | AA | 4321 | 1/1 | 0.48 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4095 | 1/1 | 0.23 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1812 | 1/1 | 0.75 | - | 116,116,116,116 | 0 |
| 55 | MG | CG | 201 | 1/1 | 0.29 | - | 86,86,86,86 | 0 |
| 55 | MG | CA | 3145 | 1/1 | 0.13 | - | 22,22,22,22 | 0 |
| 55 | MG | DA | 1855 | 1/1 | 0.26 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3566 | 1/1 | 0.25 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3002 | 1/1 | 0.41 | - | 58,58,58,58 | 0 |
| 55 | MG | CA | 4227 | 1/1 | 0.27 | - | 53,53,53,53 | 0 |
| 55 | MG | BA | 1629 | 1/1 | 0.08 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2010 | 1/1 | 0.08 | - | 61,61,61,61 | 0 |
| 55 | MG | BA | 1894 | 1/1 | 0.18 | - | 86,86,86,86 | 0 |
| 55 | MG | DA | 2056 | 1/1 | 0.70 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 4818 | 1/1 | 0.36 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3962 | 1/1 | 0.11 | - | 28,28,28,28 | 0 |
| 55 | MG | AP | 202 | 1/1 | 0.28 | - | 79,79,79,79 | 0 |
| 55 | MG | AB | 208 | 1/1 | 0.22 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 3882 | 1/1 | 0.12 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3186 | 1/1 | 0.24 | - | 29,29,29,29 | 0 |
| 55 | MG | DA | 2145 | 1/1 | 0.25 | - | 84,84,84,84 | 0 |
| 55 | MG | DA | 2138 | 1/1 | 0.17 | - | 58,58,58,58 | 0 |
| 55 | MG | DA | 2016 | 1/1 | 0.39 | - | 49,49,49,49 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 3732 | 1/1 | 0.38 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 2964 | 1/1 | 0.28 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 2107 | 1/1 | 0.26 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3095 | 1/1 | 0.13 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3836 | 1/1 | 0.29 | - | 77,77,77,77 | 0 |
| 55 | MG | CA | 4242 | 1/1 | 0.39 | - | 47,47,47,47 | 0 |
| 55 | MG | DV | 113 | 1/1 | 0.12 | - | 72,72,72,72 | 0 |
| 55 | MG | CA | 3564 | 1/1 | 0.38 | - | 70,70,70,70 | 0 |
| 55 | MG | CA | 2986 | 1/1 | 0.18 | - | 51,51,51,51 | 0 |
| 55 | MG | AA | 5157 | 1/1 | 0.29 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 5055 | 1/1 | 0.46 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3974 | 1/1 | 0.39 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2166 | 1/1 | 0.38 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 2018 | 1/1 | 0.12 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3524 | 1/1 | 0.12 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 4117 | 1/1 | 0.90 | - | 71,71,71,71 | 0 |
| 55 | MG | CA | 3181 | 1/1 | 0.34 | - | 39,39,39,39 | 0 |
| 55 | MG | CA | 3275 | 1/1 | 0.84 | - | 40,40,40,40 | 0 |
| 55 | MG | BA | 1910 | 1/1 | 0.20 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 4114 | 1/1 | 0.32 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4573 | 1/1 | 0.19 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 3504 | 1/1 | 0.23 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 1690 | 1/1 | 0.68 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 2916 | 1/1 | 0.32 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3743 | 1/1 | 0.35 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4882 | 1/1 | 0.32 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4003 | 1/1 | 0.31 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1657 | 1/1 | 0.47 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3325 | 1/1 | 0.47 | - | 54,54,54,54 | 0 |
| 55 | MG | BG | 202 | 1/1 | 0.19 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5116 | 1/1 | 0.17 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4850 | 1/1 | 0.28 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3467 | 1/1 | 0.40 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 2045 | 1/1 | 0.19 | - | 98,98,98,98 | 0 |
| 55 | MG | BA | 1618 | 1/1 | 0.34 | - | 62,62,62,62 | 0 |
| 55 | MG | CA | 3809 | 1/1 | 0.32 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4698 | 1/1 | 0.24 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3499 | 1/1 | 0.54 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2143 | 1/1 | 0.18 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5047 | 1/1 | 0.52 | - | 60,60,60,60 | 0 |
| 55 | MG | A4 | 104 | 1/1 | 0.33 | - | 99,99,99,99 | 0 |
| 55 | MG | BA | 2099 | 1/1 | 0.55 | - | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CA | 4161 | 1/1 | 0.28 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4016 | 1/1 | 0.19 | - | 42,42,42,42 | 0 |
| 55 | MG | AF | 302 | 1/1 | 0.30 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3260 | 1/1 | 0.21 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 4140 | 1/1 | 0.26 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4300 | 1/1 | 0.42 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4912 | 1/1 | 0.38 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 2962 | 1/1 | 0.30 | - | 71,71,71,71 | 0 |
| 55 | MG | DA | 2099 | 1/1 | 0.46 | - | 55,55,55,55 | 0 |
| 55 | MG | DA | 2187 | 1/1 | 0.36 | - | 55,55,55,55 | 0 |
| 55 | MG | CB | 211 | 1/1 | 0.09 | - | 90,90,90,90 | 0 |
| 55 | MG | DA | 2033 | 1/1 | 0.37 | - | 45,45,45,45 | 0 |
| 55 | MG | DA | 2178 | 1/1 | 0.09 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3189 | 1/1 | 0.09 | - | 25,25,25,25 | 0 |
| 55 | MG | BE | 202 | 1/1 | 0.92 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4056 | 1/1 | 0.20 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 4053 | 1/1 | 0.41 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 5249 | 1/1 | 0.37 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1797 | 1/1 | 0.09 | - | 82,82,82,82 | 0 |
| 55 | MG | CE | 304 | 1/1 | 0.56 | - | 59,59,59,59 | 0 |
| 55 | MG | DA | 1704 | 1/1 | 0.31 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4258 | 1/1 | 0.42 | - | 42,42,42,42 | 0 |
| 55 | MG | BA | 1859 | 1/1 | 0.41 | - | 53,53,53,53 | 0 |
| 55 | MG | AA | 4559 | 1/1 | 0.12 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4078 | 1/1 | 0.35 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 2105 | 1/1 | 0.26 | - | 52,52,52,52 | 0 |
| 55 | MG | AA | 4534 | 1/1 | 0.31 | - | 63,63,63,63 | 0 |
| 55 | MG | BW | 116 | 1/1 | 0.16 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3280 | 1/1 | 0.13 | - | 42,42,42,42 | 0 |
| 55 | MG | CA | 3407 | 1/1 | 0.22 | - | 36,36,36,36 | 0 |
| 55 | MG | BA | 1843 | 1/1 | 0.66 | - | 87,87,87,87 | 0 |
| 55 | MG | CA | 3024 | 1/1 | 0.42 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 4336 | 1/1 | 0.44 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4140 | 1/1 | 0.39 | - | 73,73,73,73 | 0 |
| 55 | MG | CA | 3959 | 1/1 | 0.62 | - | 37,37,37,37 | 0 |
| 55 | MG | AA | 4770 | 1/1 | 0.45 | - | 83,83,83,83 | 0 |
| 55 | MG | CA | 3690 | 1/1 | 0.56 | - | 89,89,89,89 | 0 |
| 55 | MG | BA | 1674 | 1/1 | 0.32 | - | 118,118,118,118 | 0 |
| 55 | MG | BA | 1785 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | BA | 1717 | 1/1 | 0.49 | - | 75,75,75,75 | 0 |
| 55 | MG | CA | 3131 | 1/1 | 0.21 | - | 31,31,31,31 | 0 |
| 55 | MG | CA | 3600 | 1/1 | 0.77 | - | 54,54,54,54 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1781 | 1/1 | 0.57 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 5224 | 1/1 | 0.20 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 2012 | 1/1 | 0.71 | - | 64,64,64,64 | 0 |
| 55 | MG | CB | 241 | 1/1 | 0.17 | - | 82,82,82,82 | 0 |
| 55 | MG | AA | 4305 | 1/1 | 0.70 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 4754 | 1/1 | 0.64 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4569 | 1/1 | 0.30 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3890 | 1/1 | 0.36 | - | 56,56,56,56 | 0 |
| 55 | MG | BA | 1647 | 1/1 | 0.60 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3795 | 1/1 | 0.48 | - | 51,51,51,51 | 0 |
| 55 | MG | BA | 1681 | 1/1 | 0.53 | - | 162,162,162,162 | 0 |
| 55 | MG | CA | 4129 | 1/1 | 0.34 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1629 | 1/1 | 0.36 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 2059 | 1/1 | 0.27 | - | 52,52,52,52 | 0 |
| 55 | MG | DA | 1732 | 1/1 | 0.44 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4609 | 1/1 | 0.38 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3691 | 1/1 | 0.66 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3857 | 1/1 | 0.51 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 4688 | 1/1 | 0.56 | - | 65,65,65,65 | 0 |
| 55 | MG | AA | 4358 | 1/1 | 0.25 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 1744 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1990 | 1/1 | 0.22 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1800 | 1/1 | 0.31 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3296 | 1/1 | 0.21 | - | 41,41,41,41 | 0 |
| 55 | MG | DA | 1721 | 1/1 | 0.28 | - | 79,79,79,79 | 0 |
| 55 | MG | DA | 1964 | 1/1 | 0.31 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4237 | 1/1 | 0.30 | - | 17,17,17,17 | 0 |
| 55 | MG | AA | 4823 | 1/1 | 0.38 | - | 51,51,51,51 | 0 |
| 55 | MG | CA | 3874 | 1/1 | 0.37 | - | 60,60,60,60 | 0 |
| 55 | MG | DA | 1802 | 1/1 | 0.44 | - | 77,77,77,77 | 0 |
| 55 | MG | AS | 204 | 1/1 | 0.23 | - | 43,43,43,43 | 0 |
| 55 | MG | CA | 3176 | 1/1 | 0.26 | - | 15,15,15,15 | 0 |
| 55 | MG | CA | 3527 | 1/1 | 0.27 | - | 27,27,27,27 | 0 |
| 55 | MG | AA | 4795 | 1/1 | 0.33 | - | 105,105,105,105 | 0 |
| 55 | MG | CA | 3245 | 1/1 | 0.21 | - | 31,31,31,31 | 0 |
| 55 | MG | AA | 5264 | 1/1 | 0.88 | - | 87,87,87,87 | 0 |
| 55 | MG | AA | 4571 | 1/1 | 0.23 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 4023 | 1/1 | 0.17 | - | 26,26,26,26 | 0 |
| 55 | MG | AA | 5135 | 1/1 | 0.26 | - | 75,75,75,75 | 0 |
| 55 | MG | AA | 5186 | 1/1 | 0.50 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1601 | 1/1 | 0.18 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 4148 | 1/1 | 0.42 | - | 43,43,43,43 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4379 | 1/1 | 0.23 | - | 60,60,60,60 | 0 |
| 55 | MG | AD | 303 | 1/1 | 0.58 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 1725 | 1/1 | 0.25 | - | 59,59,59,59 | 0 |
| 55 | MG | CA | 4333 | 1/1 | 0.28 | - | 76,76,76,76 | 0 |
| 55 | MG | AX | 101 | 1/1 | 0.30 | - | 99,99,99,99 | 0 |
| 55 | MG | DA | 2181 | 1/1 | 0.39 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 2087 | 1/1 | 0.28 | - | 94,94,94,94 | 0 |
| 55 | MG | AA | 4010 | 1/1 | 0.54 | - | 64,64,64,64 | 0 |
| 55 | MG | BV | 101 | 1/1 | 0.16 | - | 105,105,105,105 | 0 |
| 55 | MG | AS | 205 | 1/1 | 0.48 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 2082 | 1/1 | 0.11 | - | 81,81,81,81 | 0 |
| 55 | MG | CY | 102 | 1/1 | 0.19 | - | 100,100,100,100 | 0 |
| 55 | MG | BA | 2065 | 1/1 | 0.16 | - | 39,39,39,39 | 0 |
| 55 | MG | AA | 5071 | 1/1 | 0.49 | - | 49,49,49,49 | 0 |
| 55 | MG | BA | 1804 | 1/1 | 0.37 | - | 39,39,39,39 | 0 |
| 55 | MG | AB | 203 | 1/1 | 0.32 | - | 65,65,65,65 | 0 |
| 55 | MG | CA | 4027 | 1/1 | 0.23 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 4020 | 1/1 | 0.46 | - | 21,21,21,21 | 0 |
| 55 | MG | AA | 4578 | 1/1 | 0.13 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3987 | 1/1 | 0.29 | - | 36,36,36,36 | 0 |
| 55 | MG | AA | 4525 | 1/1 | 0.27 | - | 43,43,43,43 | 0 |
| 55 | MG | DA | 2026 | 1/1 | 0.11 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4121 | 1/1 | 0.27 | - | 39,39,39,39 | 0 |
| 55 | MG | BA | 1690 | 1/1 | 0.43 | - | 38,38,38,38 | 0 |
| 55 | MG | AA | 4203 | 1/1 | 0.17 | - | 25,25,25,25 | 0 |
| 55 | MG | CA | 2985 | 1/1 | 0.27 | - | 43,43,43,43 | 0 |
| 55 | MG | CB | 258 | 1/1 | 0.17 | - | 65,65,65,65 | 0 |
| 55 | MG | BA | 2074 | 1/1 | 0.25 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3803 | 1/1 | 0.84 | - | 121,121,121,121 | 0 |
| 55 | MG | CA | 2908 | 1/1 | 0.70 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 2984 | 1/1 | 0.47 | - | 103,103,103,103 | 0 |
| 55 | MG | DA | 1661 | 1/1 | 0.57 | - | 64,64,64,64 | 0 |
| 55 | MG | AB | 219 | 1/1 | 0.15 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 4276 | 1/1 | 0.29 | - | 61,61,61,61 | 0 |
| 55 | MG | CL | 203 | 1/1 | 0.34 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4974 | 1/1 | 0.47 | - | 73,73,73,73 | 0 |
| 55 | MG | CS | 204 | 1/1 | 0.34 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4371 | 1/1 | 0.28 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5076 | 1/1 | 0.42 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 5023 | 1/1 | 0.81 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 2148 | 1/1 | 0.49 | - | 54,54,54,54 | 0 |
| 55 | MG | CA | 3753 | 1/1 | 0.38 | - | 69,69,69,69 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 5093 | 1/1 | 0.21 | - | 48,48,48,48 | 0 |
| 55 | MG | CY | 101 | 1/1 | 0.38 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 5141 | 1/1 | 0.23 | - | 58,58,58,58 | 0 |
| 55 | MG | AA | 4165 | 1/1 | 0.70 | - | 104,104,104,104 | 0 |
| 55 | MG | CA | 4285 | 1/1 | 0.13 | - | 46,46,46,46 | 0 |
| 55 | MG | AA | 4512 | 1/1 | 0.17 | - | 55,55,55,55 | 0 |
| 55 | MG | CA | 2973 | 1/1 | 0.52 | - | 99,99,99,99 | 0 |
| 55 | MG | CA | 3896 | 1/1 | 0.44 | - | 120,120,120,120 | 0 |
| 55 | MG | CA | 3643 | 1/1 | 0.20 | - | 48,48,48,48 | 0 |
| 55 | MG | CA | 3168 | 1/1 | 0.37 | - | 27,27,27,27 | 0 |
| 55 | MG | BA | 2167 | 1/1 | 0.11 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1972 | 1/1 | 0.71 | - | 55,55,55,55 | 0 |
| 55 | MG | AA | 5003 | 1/1 | 0.13 | - | 69,69,69,69 | 0 |
| 55 | MG | AA | 4465 | 1/1 | 0.31 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1831 | 1/1 | 0.17 | - | 124,124,124,124 | 0 |
| 55 | MG | CB | 204 | 1/1 | 0.26 | - | 92,92,92,92 | 0 |
| 55 | MG | AA | 4667 | 1/1 | 0.67 | - | 120,120,120,120 | 0 |
| 55 | MG | CA | 2921 | 1/1 | 0.17 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 5226 | 1/1 | 0.33 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 4042 | 1/1 | 0.20 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3981 | 1/1 | 0.22 | - | 35,35,35,35 | 0 |
| 55 | MG | BA | 1716 | 1/1 | 0.53 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 3115 | 1/1 | 0.44 | - | 16,16,16,16 | 0 |
| 55 | MG | BA | 2004 | 1/1 | 0.09 | - | 74,74,74,74 | 0 |
| 55 | MG | DA | 1763 | 1/1 | 0.87 | - | 68,68,68,68 | 0 |
| 55 | MG | DA | 1845 | 1/1 | 0.95 | - | 117,117,117,117 | 0 |
| 55 | MG | DA | 1611 | 1/1 | 0.53 | - | 99,99,99,99 | 0 |
| 55 | MG | CB | 202 | 1/1 | 0.23 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3740 | 1/1 | 0.70 | - | 77,77,77,77 | 0 |
| 55 | MG | AA | 5088 | 1/1 | 0.42 | - | 78,78,78,78 | 0 |
| 55 | MG | CA | 3583 | 1/1 | 0.42 | - | 111,111,111,111 | 0 |
| 55 | MG | CA | 3742 | 1/1 | 0.51 | - | 112,112,112,112 | 0 |
| 55 | MG | AA | 4849 | 1/1 | 0.29 | - | 16,16,16,16 | 0 |
| 55 | MG | AA | 4964 | 1/1 | 0.23 | - | 40,40,40,40 | 0 |
| 55 | MG | AA | 4247 | 1/1 | 0.26 | - | 33,33,33,33 | 0 |
| 55 | MG | CB | 232 | 1/1 | 0.19 | - | 54,54,54,54 | 0 |
| 55 | MG | AA | 4495 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4178 | 1/1 | 0.20 | - | 50,50,50,50 | 0 |
| 55 | MG | CA | 3360 | 1/1 | 0.35 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4151 | 1/1 | 0.49 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3876 | 1/1 | 0.26 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4119 | 1/1 | 0.52 | - | 51,51,51,51 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | AA | 4997 | 1/1 | 0.35 | - | 68,68,68,68 | 0 |
| 55 | MG | BA | 2112 | 1/1 | 0.37 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 4650 | 1/1 | 0.71 | - | 70,70,70,70 | 0 |
| 55 | MG | DW | 114 | 1/1 | 0.24 | - | 97,97,97,97 | 0 |
| 55 | MG | CA | 4092 | 1/1 | 0.32 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 3830 | 1/1 | 0.33 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 4312 | 1/1 | 0.34 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 3127 | 1/1 | 0.46 | - | 14,14,14,14 | 0 |
| 55 | MG | DA | 2050 | 1/1 | 0.40 | - | 77,77,77,77 | 0 |
| 55 | MG | CB | 212 | 1/1 | 0.51 | - | 104,104,104,104 | 0 |
| 55 | MG | CA | 4068 | 1/1 | 0.44 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 2966 | 1/1 | 0.28 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 1653 | 1/1 | 0.19 | - | 47,47,47,47 | 0 |
| 55 | MG | BA | 1704 | 1/1 | 0.27 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3088 | 1/1 | 0.37 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 3061 | 1/1 | 0.28 | - | 82,82,82,82 | 0 |
| 55 | MG | BA | 1999 | 1/1 | 0.21 | - | 85,85,85,85 | 0 |
| 55 | MG | AA | 4017 | 1/1 | 1.04 | - | 155,155,155,155 | 0 |
| 55 | MG | DA | 2095 | 1/1 | 0.19 | - | 79,79,79,79 | 0 |
| 55 | MG | BA | 1662 | 1/1 | 0.12 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4839 | 1/1 | 0.19 | - | 98,98,98,98 | 0 |
| 55 | MG | CA | 3055 | 1/1 | 0.17 | - | 59,59,59,59 | 0 |
| 55 | MG | CN | 202 | 1/1 | 0.38 | - | 57,57,57,57 | 0 |
| 55 | MG | BA | 1805 | 1/1 | 0.15 | - | 64,64,64,64 | 0 |
| 55 | MG | DA | 1839 | 1/1 | 0.26 | - | 88,88,88,88 | 0 |
| 55 | MG | DA | 2158 | 1/1 | 0.13 | - | 76,76,76,76 | 0 |
| 55 | MG | CA | 4134 | 1/1 | 0.11 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 4328 | 1/1 | 0.97 | - | 40,40,40,40 | 0 |
| 55 | MG | CB | 223 | 1/1 | 0.56 | - | 36,36,36,36 | 0 |
| 55 | MG | DA | 1698 | 1/1 | 0.44 | - | 35,35,35,35 | 0 |
| 55 | MG | AA | 4539 | 1/1 | 0.52 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4620 | 1/1 | 0.19 | - | 70,70,70,70 | 0 |
| 55 | MG | AA | 4069 | 1/1 | 0.48 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3554 | 1/1 | 0.41 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 4798 | 1/1 | 0.83 | - | 76,76,76,76 | 0 |
| 55 | MG | DA | 1865 | 1/1 | 1.03 | - | 75,75,75,75 | 0 |
| 55 | MG | DA | 2144 | 1/1 | 0.78 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 3964 | 1/1 | 0.52 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 1661 | 1/1 | 0.18 | - | 90,90,90,90 | 0 |
| 55 | MG | CA | 3226 | 1/1 | 0.17 | - | 25,25,25,25 | 0 |
| 55 | MG | BA | 1697 | 1/1 | 0.29 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 4377 | 1/1 | 0.09 | - | 84,84,84,84 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1671 | 1/1 | 0.22 | - | 112,112,112,112 | 0 |
| 55 | MG | AA | 4742 | 1/1 | 0.29 | - | 69,69,69,69 | 0 |
| 55 | MG | CA | 3177 | 1/1 | 0.83 | - | 42,42,42,42 | 0 |
| 55 | MG | AA | 4530 | 1/1 | 0.47 | - | 64,64,64,64 | 0 |
| 55 | MG | AA | 4372 | 1/1 | 0.22 | - | 49,49,49,49 | 0 |
| 55 | MG | CA | 3485 | 1/1 | 0.21 | - | 63,63,63,63 | 0 |
| 55 | MG | DR | 101 | 1/1 | 0.84 | - | 62,62,62,62 | 0 |
| 55 | MG | AA | 5258 | 1/1 | 0.07 | - | 76,76,76,76 | 0 |
| 55 | MG | AA | 5125 | 1/1 | 0.24 | - | 45,45,45,45 | 0 |
| 55 | MG | CA | 3171 | 1/1 | 0.25 | - | 30,30,30,30 | 0 |
| 55 | MG | AA | 4351 | 1/1 | 0.51 | - | 63,63,63,63 | 0 |
| 55 | MG | AA | 5181 | 1/1 | 0.18 | - | 67,67,67,67 | 0 |
| 55 | MG | AA | 4413 | 1/1 | 0.20 | - | 40,40,40,40 | 0 |
| 55 | MG | CA | 3066 | 1/1 | 0.30 | - | 92,92,92,92 | 0 |
| 55 | MG | CB | 243 | 1/1 | 0.36 | - | 34,34,34,34 | 0 |
| 55 | MG | CA | 3615 | 1/1 | 0.11 | - | 50,50,50,50 | 0 |
| 55 | MG | AN | 204 | 1/1 | 0.40 | - | 48,48,48,48 | 0 |
| 55 | MG | BA | 2011 | 1/1 | 0.17 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1681 | 1/1 | 0.43 | - | 83,83,83,83 | 0 |
| 55 | MG | BA | 2006 | 1/1 | 0.22 | - | 144,144,144,144 | 0 |
| 55 | MG | AA | 4709 | 1/1 | 0.15 | - | 67,67,67,67 | 0 |
| 55 | MG | CA | 3673 | 1/1 | 0.46 | - | 81,81,81,81 | 0 |
| 55 | MG | AA | 4485 | 1/1 | 0.45 | - | 36,36,36,36 | 0 |
| 55 | MG | CA | 3058 | 1/1 | 0.55 | - | 66,66,66,66 | 0 |
| 55 | MG | AA | 4430 | 1/1 | 0.30 | - | 59,59,59,59 | 0 |
| 55 | MG | BA | 2029 | 1/1 | 0.18 | - | 64,64,64,64 | 0 |
| 55 | MG | CB | 263 | 1/1 | 0.10 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 1730 | 1/1 | 0.31 | - | 44,44,44,44 | 0 |
| 55 | MG | DA | 1904 | 1/1 | 0.33 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1832 | 1/1 | 0.07 | - | 95,95,95,95 | 0 |
| 55 | MG | CA | 3632 | 1/1 | 0.14 | - | 61,61,61,61 | 0 |
| 55 | MG | CA | 3099 | 1/1 | 0.26 | - | 41,41,41,41 | 0 |
| 55 | MG | CA | 3978 | 1/1 | 0.14 | - | 32,32,32,32 | 0 |
| 55 | MG | AA | 4858 | 1/1 | 0.37 | - | 50,50,50,50 | 0 |
| 55 | MG | AA | 4132 | 1/1 | 0.24 | - | 63,63,63,63 | 0 |
| 55 | MG | BA | 1757 | 1/1 | 0.36 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3238 | 1/1 | 0.35 | - | 29,29,29,29 | 0 |
| 55 | MG | CA | 3845 | 1/1 | 0.79 | - | 81,81,81,81 | 0 |
| 55 | MG | BA | 1769 | 1/1 | 0.14 | - | 50,50,50,50 | 0 |
| 55 | MG | BA | 1641 | 1/1 | 0.33 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4089 | 1/1 | 0.08 | - | 53,53,53,53 | 0 |
| 55 | MG | CA | 4317 | 1/1 | 0.48 | - | 70,70,70,70 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | CP | 201 | 1/1 | 0.17 | - | 57,57,57,57 | 0 |
| 55 | MG | CA | 4141 | 1/1 | 0.59 | - | 54,54,54,54 | 0 |
| 55 | MG | DA | 2172 | 1/1 | 0.49 | - | 96,96,96,96 | 0 |
| 55 | MG | CA | 2903 | 1/1 | 0.47 | - | 80,80,80,80 | 0 |
| 55 | MG | CA | 3103 | 1/1 | 0.71 | - | 18,18,18,18 | 0 |
| 55 | MG | DA | 2184 | 1/1 | 0.65 | - | 79,79,79,79 | 0 |
| 55 | MG | CA | 3233 | 1/1 | 0.32 | - | 33,33,33,33 | 0 |
| 55 | MG | DA | 1923 | 1/1 | 0.10 | - | 69,69,69,69 | 0 |
| 55 | MG | DA | 1768 | 1/1 | 0.50 | - | 138,138,138,138 | 0 |
| 55 | MG | DA | 1628 | 1/1 | 0.20 | - | 135,135,135,135 | 0 |
| 55 | MG | CA | 3871 | 1/1 | 0.51 | - | 64,64,64,64 | 0 |
| 55 | MG | CA | 3909 | 1/1 | 0.44 | - | 62,62,62,62 | 0 |
| 55 | MG | DA | 2160 | 1/1 | 0.64 | - | 63,63,63,63 | 0 |
| 55 | MG | CA | 4258 | 1/1 | 0.42 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 4776 | 1/1 | 0.55 | - | 105,105,105,105 | 0 |
| 55 | MG | AA | 5243 | 1/1 | 0.25 | - | 107,107,107,107 | 0 |
| 55 | MG | CA | 2988 | 1/1 | 0.28 | - | 87,87,87,87 | 0 |
| 55 | MG | CS | 202 | 1/1 | 0.21 | - | 28,28,28,28 | 0 |
| 55 | MG | DA | 2171 | 1/1 | 0.24 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4172 | 1/1 | 0.44 | - | 14,14,14,14 | 0 |
| 55 | MG | CA | 4024 | 1/1 | 0.15 | - | 48,48,48,48 | 0 |
| 55 | MG | AA | 5025 | 1/1 | 0.27 | - | 92,92,92,92 | 0 |
| 55 | MG | CA | 3109 | 1/1 | 0.47 | - | 11,11,11,11 | 0 |
| 55 | MG | AA | 5129 | 1/1 | 0.34 | - | 66,66,66,66 | 0 |
| 55 | MG | CA | 3670 | 1/1 | 0.55 | - | 78,78,78,78 | 0 |
| 55 | MG | DA | 1821 | 1/1 | 0.20 | - | 82,82,82,82 | 0 |
| 55 | MG | CA | 3597 | 1/1 | 0.25 | - | 89,89,89,89 | 0 |
| 55 | MG | AA | 4466 | 1/1 | 0.21 | - | 57,57,57,57 | 0 |
| 55 | MG | DA | 1913 | 1/1 | 0.32 | - | 93,93,93,93 | 0 |
| 55 | MG | CA | 3669 | 1/1 | 0.63 | - | 44,44,44,44 | 0 |
| 55 | MG | AA | 5183 | 1/1 | 0.17 | - | 58,58,58,58 | 0 |
| 55 | MG | AB | 230 | 1/1 | 0.15 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3158 | 1/1 | 0.17 | - | 9,9,9,9 | 0 |
| 55 | MG | AA | 4592 | 1/1 | 0.38 | - | 61,61,61,61 | 0 |
| 55 | MG | AA | 5103 | 1/1 | 0.16 | - | 47,47,47,47 | 0 |
| 55 | MG | DA | 1793 | 1/1 | 0.14 | - | 84,84,84,84 | 0 |
| 55 | MG | AA | 5192 | 1/1 | 0.31 | - | 46,46,46,46 | 0 |
| 55 | MG | CA | 3702 | 1/1 | 1.04 | - | 90,90,90,90 | 0 |
| 55 | MG | AA | 4377 | 1/1 | 0.72 | - | 52,52,52,52 | 0 |
| 55 | MG | CA | 4033 | 1/1 | 0.46 | - | 45,45,45,45 | 0 |
| 55 | MG | AA | 4717 | 1/1 | 0.11 | - | 68,68,68,68 | 0 |
| 55 | MG | CA | 3290 | 1/1 | 0.28 | - | 28,28,28,28 | 0 |

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| Mol | Type | Chain | Res | Atoms | RSR | LLDF | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55 | MG | BA | 1649 | 1/1 | 0.71 | - | 96,96,96,96 | 0 |
| 55 | MG | AA | 4949 | 1/1 | 0.15 | - | 38,38,38,38 | 0 |
| 55 | MG | DA | 2136 | 1/1 | 0.21 | - | 52,52,52,52 | 0 |
| 55 | MG | BA | 1891 | 1/1 | 0.39 | - | 56,56,56,56 | 0 |
| 55 | MG | CA | 4299 | 1/1 | 0.58 | - | 73,73,73,73 | 0 |
| 55 | MG | DA | 2013 | 1/1 | 0.30 | - | 49,49,49,49 | 0 |
| 55 | MG | AA | 5123 | 1/1 | 0.14 | - | 60,60,60,60 | 0 |
| 55 | MG | CA | 3560 | 1/1 | 0.08 | - | 69,69,69,69 | 0 |
| 55 | MG | BA | 1783 | 1/1 | 0.51 | - | 82,82,82,82 | 0 |
| 55 | MG | BA | 2080 | 1/1 | 0.26 | - | 56,56,56,56 | 0 |
| 55 | MG | DA | 1752 | 1/1 | 0.36 | - | 89,89,89,89 | 0 |
| 55 | MG | DA | 1714 | 1/1 | 0.12 | - | 46,46,46,46 | 0 |
| 55 | MG | DA | 2149 | 1/1 | 0.33 | - | 74,74,74,74 | 0 |
| 55 | MG | CA | 3988 | 1/1 | 0.23 | - | 24,24,24,24 | 0 |
| 55 | MG | AA | 4845 | 1/1 | 0.40 | - | 35,35,35,35 | 0 |
| 55 | MG | CA | 3295 | 1/1 | 0.26 | - | 29,29,29,29 | 0 |
| 55 | MG | AA | 5223 | 1/1 | 0.33 | - | 70,70,70,70 | 0 |
| 55 | MG | DA | 2032 | 1/1 | 0.22 | - | 60,60,60,60 | 0 |

6.5 Other polymers ⓘ

There are no such residues in this entry.