



# wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 6, 2026 – 01:46 PM EDT

PDB ID : 8G29 / pdb\_00008g29  
Title : Crystal structure of the A2503-C2,C8-dimethylated *Thermus thermophilus* 70S ribosome in complex with mRNA, aminoacylated A-site Phe-tRNA<sup>phe</sup>, aminoacylated P-site fMet-tRNA<sup>met</sup>, and deacylated E-site tRNA<sup>phe</sup> at 2.55Å resolution  
Authors : Aleksandrova, E.V.; Wu, K.J.Y.; Tresco, B.I.C.; Syroegin, E.A.; Killeavy, E.E.; Balasanyants, S.M.; Svetlov, M.S.; Gregory, S.T.; Atkinson, G.C.; Myers, A.G.; Polikanov, Y.S.  
Deposited on : 2023-02-03  
Resolution : 2.55 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

|                           |   |                                                                  |
|---------------------------|---|------------------------------------------------------------------|
| MolProbity                | : | 4-5-2 with Phenix2.0                                             |
| Mogul                     | : | 2022.3.0, CSD as543be (2022)                                     |
| Xtriage (Phenix)          | : | 2.0                                                              |
| EDS                       | : | 3.0                                                              |
| Percentile statistics     | : | 20250101.v01 (using entries in the PDB archive January 1st 2025) |
| CCP4                      | : | 9.0.015 (Gargrove)                                               |
| Density-Fitness           | : | 1.0.12                                                           |
| Ideal geometry (proteins) | : | Engh & Huber (2001)                                              |

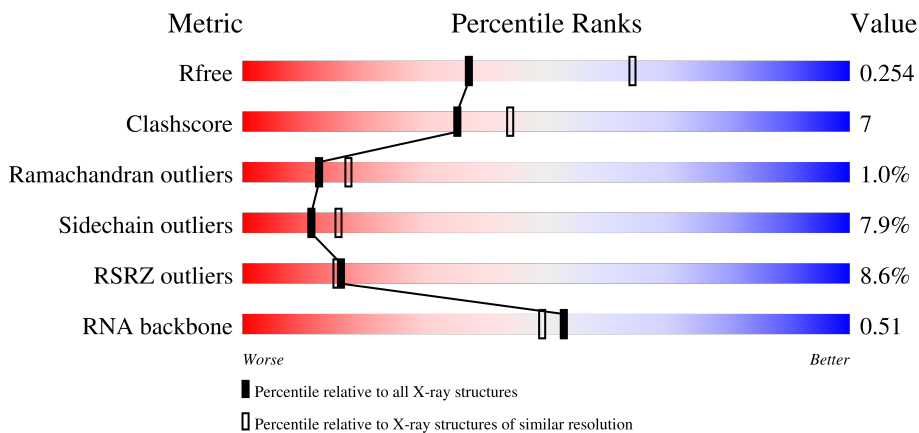
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.55 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<br>(#Entries) | Similar resolution<br>(#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|-------------------------------------------------------|
| $R_{free}$            | 180053                      | 1091 (2.54-2.54)                                      |
| Clashscore            | 190562                      | 1120 (2.54-2.54)                                      |
| Ramachandran outliers | 187476                      | 1106 (2.54-2.54)                                      |
| Sidechain outliers    | 187428                      | 1106 (2.54-2.54)                                      |
| RSRZ outliers         | 180081                      | 1091 (2.54-2.54)                                      |
| RNA backbone          | 3983                        | 1112 (2.80-2.28)                                      |

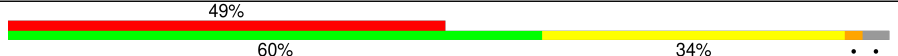
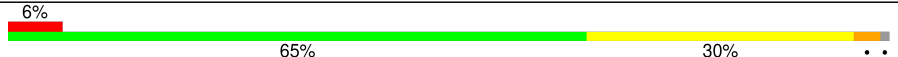
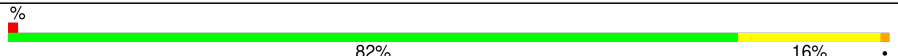
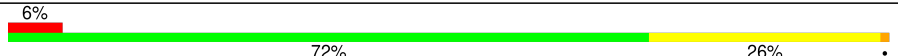
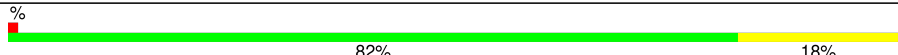
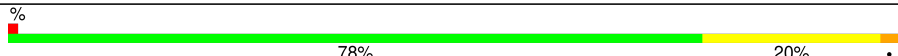
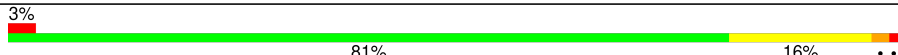
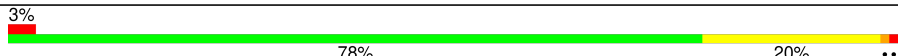
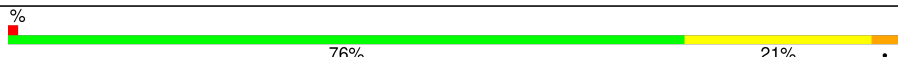
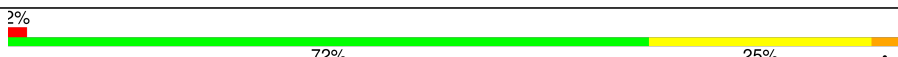
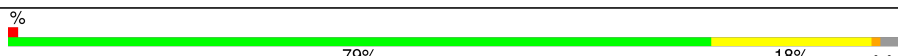
The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain                                                       |
|-----|-------|--------|------------------------------------------------------------------------|
| 1   | 1A    | 2915   | <div> <div>6%</div> <div>69%</div> <div>23%</div> <div>6%</div> </div> |
| 1   | 2A    | 2915   | <div> <div>5%</div> <div>60%</div> <div>30%</div> <div>6%</div> </div> |

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.50

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| Mol | Chain | Length | Quality of chain                                                                     |
|-----|-------|--------|--------------------------------------------------------------------------------------|
| 2   | 1B    | 121    |    |
| 2   | 2B    | 121    |    |
| 3   | 1D    | 276    |    |
| 3   | 2D    | 276    |    |
| 4   | 1E    | 206    |    |
| 4   | 2E    | 206    |    |
| 5   | 1F    | 210    |    |
| 5   | 2F    | 210    |    |
| 6   | 1G    | 182    |    |
| 6   | 2G    | 182    |    |
| 7   | 1H    | 180    |    |
| 7   | 2H    | 180    |   |
| 8   | 1I    | 148    |  |
| 8   | 2I    | 148    |  |
| 9   | 1N    | 140    |  |
| 9   | 2N    | 140    |  |
| 10  | 1O    | 122    |  |
| 10  | 2O    | 122    |  |
| 11  | 1P    | 150    |  |
| 11  | 2P    | 150    |  |
| 12  | 1Q    | 141    |  |
| 12  | 2Q    | 141    |  |
| 13  | 1R    | 118    |  |
| 13  | 2R    | 118    |  |
| 14  | 1S    | 112    |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 14  | 2S    | 112    |                  |
| 15  | 1T    | 146    |                  |
| 15  | 2T    | 146    |                  |
| 16  | 1U    | 118    |                  |
| 16  | 2U    | 118    |                  |
| 17  | 1V    | 101    |                  |
| 17  | 2V    | 101    |                  |
| 18  | 1W    | 113    |                  |
| 18  | 2W    | 113    |                  |
| 19  | 1X    | 96     |                  |
| 19  | 2X    | 96     |                  |
| 20  | 1Y    | 110    |                  |
| 20  | 2Y    | 110    |                  |
| 21  | 1Z    | 206    |                  |
| 21  | 2Z    | 206    |                  |
| 22  | 10    | 85     |                  |
| 22  | 20    | 85     |                  |
| 23  | 11    | 98     |                  |
| 23  | 21    | 98     |                  |
| 24  | 12    | 72     |                  |
| 24  | 22    | 72     |                  |
| 25  | 13    | 60     |                  |
| 25  | 23    | 60     |                  |
| 26  | 14    | 71     |                  |
| 26  | 24    | 71     |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 27  | 15    | 60     |                  |
| 27  | 25    | 60     |                  |
| 28  | 16    | 54     |                  |
| 28  | 26    | 54     |                  |
| 29  | 17    | 49     |                  |
| 29  | 27    | 49     |                  |
| 30  | 18    | 65     |                  |
| 30  | 28    | 65     |                  |
| 31  | 19    | 37     |                  |
| 31  | 29    | 37     |                  |
| 32  | 1a    | 1521   |                  |
| 32  | 2a    | 1521   |                  |
| 33  | 1b    | 256    |                  |
| 33  | 2b    | 256    |                  |
| 34  | 1c    | 239    |                  |
| 34  | 2c    | 239    |                  |
| 35  | 1d    | 209    |                  |
| 35  | 2d    | 209    |                  |
| 36  | 1e    | 162    |                  |
| 36  | 2e    | 162    |                  |
| 37  | 1f    | 101    |                  |
| 37  | 2f    | 101    |                  |
| 38  | 1g    | 156    |                  |
| 38  | 2g    | 156    |                  |
| 39  | 1h    | 138    |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 39  | 2h    | 138    |                  |
| 40  | 1i    | 128    |                  |
| 40  | 2i    | 128    |                  |
| 41  | 1j    | 105    |                  |
| 41  | 2j    | 105    |                  |
| 42  | 1k    | 129    |                  |
| 42  | 2k    | 129    |                  |
| 43  | 1l    | 132    |                  |
| 43  | 2l    | 132    |                  |
| 44  | 1m    | 126    |                  |
| 44  | 2m    | 126    |                  |
| 45  | 1n    | 61     |                  |
| 45  | 2n    | 61     |                  |
| 46  | 1o    | 89     |                  |
| 46  | 2o    | 89     |                  |
| 47  | 1p    | 88     |                  |
| 47  | 2p    | 88     |                  |
| 48  | 1q    | 105    |                  |
| 48  | 2q    | 105    |                  |
| 49  | 1r    | 88     |                  |
| 49  | 2r    | 88     |                  |
| 50  | 1s    | 93     |                  |
| 50  | 2s    | 93     |                  |
| 51  | 1t    | 106    |                  |
| 51  | 2t    | 106    |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 52  | 1u    | 27     |                  |
| 52  | 2u    | 27     |                  |
| 53  | 1v    | 24     |                  |
| 53  | 2v    | 24     |                  |
| 54  | 1w    | 76     |                  |
| 54  | 2w    | 76     |                  |
| 55  | 1x    | 77     |                  |
| 55  | 2x    | 77     |                  |
| 56  | 1y    | 76     |                  |
| 56  | 2y    | 76     |                  |

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

| Mol | Type | Chain | Res  | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 57  | MG   | 15    | 108  | -         | -        | -       | X                |
| 57  | MG   | 1a    | 1659 | -         | -        | -       | X                |
| 57  | MG   | 2A    | 3318 | -         | -        | -       | X                |

## 2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 299618 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

| Mol | Chain | Residues | Atoms |       |       |       |      | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 1   | 1A    | 2871     | Total | C     | N     | O     | P    | 0       | 0       | 0     |
|     |       |          | 61853 | 27532 | 11572 | 19878 | 2871 |         |         |       |
| 1   | 2A    | 2800     | Total | C     | N     | O     | P    | 0       | 0       | 0     |
|     |       |          | 60323 | 26849 | 11284 | 19390 | 2800 |         |         |       |

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

| Mol | Chain | Residues | Atoms |      |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
| 2   | 1B    | 120      | Total | C    | N   | O   | P   | 0       | 0       | 0     |
|     |       |          | 2577  | 1146 | 476 | 835 | 120 |         |         |       |
| 2   | 2B    | 120      | Total | C    | N   | O   | P   | 0       | 0       | 0     |
|     |       |          | 2575  | 1146 | 476 | 833 | 120 |         |         |       |

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

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 3   | 1D    | 275      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2136  | 1349 | 423 | 361 | 3 |         |         |       |
| 3   | 2D    | 275      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2136  | 1349 | 423 | 361 | 3 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 4   | 1E    | 204      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1559  | 985 | 298 | 270 | 6 |         |         |       |
| 4   | 2E    | 204      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1559  | 985 | 298 | 270 | 6 |         |         |       |

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

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 5   | 1F    | 202      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1583  | 1009 | 297 | 275 | 2 |         |         |       |
| 5   | 2F    | 202      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1579  | 1007 | 296 | 274 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6   | 1G    | 181      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1423  | 913 | 253 | 253 | 4 |         |         |       |
| 6   | 2G    | 181      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1428  | 913 | 258 | 253 | 4 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7   | 1H    | 174      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1330  | 845 | 248 | 236 | 1 |         |         |       |
| 7   | 2H    | 174      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1330  | 845 | 248 | 236 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8   | 1I    | 146      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1097  | 701 | 191 | 204 | 1 |         |         |       |
| 8   | 2I    | 146      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1064  | 681 | 186 | 196 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 9   | 1N    | 140      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1117  | 719 | 207 | 187 | 4 |         |         |       |
| 9   | 2N    | 140      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1117  | 719 | 207 | 187 | 4 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10  | 1O    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 933   | 588 | 171 | 170 | 4 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 10  | 2O    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 933   | 588 | 171 | 170 | 4 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 11  | 1P    | 149      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1135  | 706 | 230 | 196 | 3 |         |         |       |
| 11  | 2P    | 149      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1135  | 706 | 230 | 196 | 3 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12  | 1Q    | 141      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1122  | 715 | 212 | 188 | 7 |         |         |       |
| 12  | 2Q    | 141      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1122  | 715 | 212 | 188 | 7 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 13  | 1R    | 118      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 968   | 604 | 203 | 160 | 1 |         |         |       |
| 13  | 2R    | 118      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 968   | 604 | 203 | 160 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 14  | 1S    | 110      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 873   | 550 | 174 | 149 |         |         |       |
| 14  | 2S    | 110      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 870   | 549 | 173 | 148 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 15  | 1T    | 131      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1091  | 680 | 225 | 185 | 1 |         |         |       |
| 15  | 2T    | 131      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1083  | 675 | 224 | 183 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 16  | 1U    | 116      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 959   | 608 | 201 | 149 | 1 |         |         |       |
| 16  | 2U    | 116      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 959   | 608 | 201 | 149 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 17  | 1V    | 101      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 771   | 495 | 140 | 135 | 1 |         |         |       |
| 17  | 2V    | 101      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 771   | 495 | 140 | 135 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 18  | 1W    | 112      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 886   | 557 | 174 | 153 | 2 |         |         |       |
| 18  | 2W    | 112      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 886   | 557 | 174 | 153 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 19  | 1X    | 95       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 750   | 488 | 135 | 126 | 1 |         |         |       |
| 19  | 2X    | 95       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 750   | 488 | 135 | 126 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 20  | 1Y    | 107      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 806   | 517 | 152 | 131 | 6 |         |         |       |
| 20  | 2Y    | 107      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 806   | 517 | 152 | 131 | 6 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 21  | 1Z    | 154      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1240  | 795 | 222 | 220 | 3 |         |         |       |
| 21  | 2Z    | 160      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1271  | 814 | 228 | 227 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22  | 10    | 83       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 653   | 404 | 139 | 109 | 1 |         |         |       |
| 22  | 20    | 83       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 653   | 404 | 139 | 109 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 23  | 11    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 755   | 475 | 148 | 131 | 1 |         |         |       |
| 23  | 21    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 755   | 475 | 148 | 131 | 1 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 24  | 12    | 70       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 588   | 365 | 118 | 103 | 2 |         |         |       |
| 24  | 22    | 70       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 588   | 365 | 118 | 103 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |    |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 25  | 13    | 59       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 469   | 298 | 90 | 81 |         |         |       |
| 25  | 23    | 59       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 464   | 296 | 90 | 78 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 26  | 14    | 69       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 552   | 349 | 99 | 99 | 5 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 26  | 24    | 69       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 532   | 339 | 97 | 91 | 5 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 27  | 15    | 59       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 455   | 285 | 89 | 76 | 5 |         |         |       |
| 27  | 25    | 59       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 455   | 285 | 89 | 76 | 5 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 28  | 16    | 53       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 453   | 281 | 91 | 77 | 4 |         |         |       |
| 28  | 26    | 53       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 449   | 279 | 91 | 75 | 4 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 29  | 17    | 48       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 418   | 257 | 104 | 55 | 2 |         |         |       |
| 29  | 27    | 48       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 418   | 257 | 104 | 55 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 30  | 18    | 64       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 517   | 331 | 102 | 82 | 2 |         |         |       |
| 30  | 28    | 64       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 517   | 331 | 102 | 82 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 31  | 19    | 37       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 307   | 188 | 68 | 47 | 4 |         |         |       |
| 31  | 29    | 37       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 307   | 188 | 68 | 47 | 4 |         |         |       |

- Molecule 32 is a RNA chain called 16S Ribosomal RNA.

| Mol | Chain | Residues | Atoms |       |      |       |      | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|------|-------|------|---------|---------|-------|
| 32  | 1a    | 1500     | Total | C     | N    | O     | P    | 0       | 0       | 0     |
|     |       |          | 32246 | 14358 | 5975 | 10413 | 1500 |         |         |       |
| 32  | 2a    | 1503     | Total | C     | N    | O     | P    | 0       | 0       | 0     |
|     |       |          | 32327 | 14396 | 5990 | 10438 | 1503 |         |         |       |

- Molecule 33 is a protein called 30S ribosomal protein S2.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 33  | 1b    | 231      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1846  | 1179 | 331 | 331 | 5 |         |         |       |
| 33  | 2b    | 231      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1825  | 1167 | 326 | 327 | 5 |         |         |       |

- Molecule 34 is a protein called 30S ribosomal protein S3.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 34  | 1c    | 206      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1548  | 973 | 301 | 273 | 1 |         |         |       |
| 34  | 2c    | 206      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1542  | 968 | 300 | 273 | 1 |         |         |       |

- Molecule 35 is a protein called 30S ribosomal protein S4.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 35  | 1d    | 208      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1655  | 1038 | 326 | 284 | 7 |         |         |       |
| 35  | 2d    | 208      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1674  | 1050 | 333 | 284 | 7 |         |         |       |

- Molecule 36 is a protein called 30S ribosomal protein S5.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36  | 1e    | 148      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1129  | 714 | 213 | 198 | 4 |         |         |       |
| 36  | 2e    | 148      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1133  | 716 | 214 | 199 | 4 |         |         |       |

- Molecule 37 is a protein called 30S ribosomal protein S6.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37  | 1f    | 100      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 810   | 514 | 144 | 149 | 3 |         |         |       |
| 37  | 2f    | 100      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 816   | 516 | 146 | 151 | 3 |         |         |       |

- Molecule 38 is a protein called 30S ribosomal protein S7.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 38  | 1g    | 155      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1231  | 766 | 243 | 216 | 6 |         |         |       |
| 38  | 2g    | 155      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1235  | 769 | 244 | 216 | 6 |         |         |       |

- Molecule 39 is a protein called 30S ribosomal protein S8.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 39  | 1h    | 137      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1088  | 689 | 206 | 191 | 2 |         |         |       |
| 39  | 2h    | 137      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1088  | 689 | 206 | 191 | 2 |         |         |       |

- Molecule 40 is a protein called 30S ribosomal protein S9.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 40  | 1i    | 127      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 983   | 623 | 193 | 167 |         |         |       |
| 40  | 2i    | 127      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 978   | 619 | 190 | 169 |         |         |       |

- Molecule 41 is a protein called 30S ribosomal protein S10.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 41  | 1j    | 97       | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 709   | 440 | 138 | 131 |         |         |       |
| 41  | 2j    | 96       | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 714   | 445 | 138 | 131 |         |         |       |

- Molecule 42 is a protein called 30S ribosomal protein S11.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 42  | 1k    | 114      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 829   | 516 | 155 | 155 | 3 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 42  | 2k    | 114      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 833   | 519 | 156 | 155 | 3 |         |         |       |

- Molecule 43 is a protein called 30S ribosomal protein S12.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 43  | 1l    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 932   | 586 | 185 | 159 | 2 |         |         |       |
| 43  | 2l    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 932   | 586 | 185 | 159 | 2 |         |         |       |

- Molecule 44 is a protein called 30S ribosomal protein S13.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 44  | 1m    | 123      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 958   | 592 | 198 | 166 | 2 |         |         |       |
| 44  | 2m    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 950   | 586 | 197 | 165 | 2 |         |         |       |

- Molecule 45 is a protein called 30S ribosomal protein S14 type Z.

| Mol | Chain | Residues | Atoms |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 45  | 1n    | 60       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 492   | 312 | 104 | 72 | 4 |         |         |       |
| 45  | 2n    | 60       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 492   | 312 | 104 | 72 | 4 |         |         |       |

- Molecule 46 is a protein called 30S ribosomal protein S15.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 46  | 1o    | 88       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 728   | 456 | 144 | 126 | 2 |         |         |       |
| 46  | 2o    | 88       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 728   | 456 | 144 | 126 | 2 |         |         |       |

- Molecule 47 is a protein called 30S ribosomal protein S16.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 47  | 1p    | 82       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 681   | 433 | 134 | 113 | 1 |         |         |       |
| 47  | 2p    | 82       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 677   | 430 | 133 | 113 | 1 |         |         |       |

- Molecule 48 is a protein called 30S ribosomal protein S17.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 48  | 1q    | 99       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 823   | 528 | 151 | 142 | 2 |         |         |       |
| 48  | 2q    | 99       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 823   | 528 | 151 | 142 | 2 |         |         |       |

- Molecule 49 is a protein called 30S ribosomal protein S18.

| Mol | Chain | Residues | Atoms |     |     |    |  | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|--|---------|---------|-------|
| 49  | 1r    | 68       | Total | C   | N   | O  |  | 0       | 0       | 0     |
|     |       |          | 555   | 355 | 108 | 92 |  |         |         |       |
| 49  | 2r    | 68       | Total | C   | N   | O  |  | 0       | 0       | 0     |
|     |       |          | 555   | 355 | 108 | 92 |  |         |         |       |

- Molecule 50 is a protein called 30S ribosomal protein S19.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 50  | 1s    | 83       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 652   | 417 | 120 | 113 | 2 |         |         |       |
| 50  | 2s    | 83       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 646   | 412 | 119 | 113 | 2 |         |         |       |

- Molecule 51 is a protein called 30S ribosomal protein S20.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 51  | 1t    | 96       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 728   | 446 | 156 | 124 | 2 |         |         |       |
| 51  | 2t    | 96       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 727   | 446 | 155 | 124 | 2 |         |         |       |

- Molecule 52 is a protein called 30S ribosomal protein Thx.

| Mol | Chain | Residues | Atoms |     |    |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 52  | 1u    | 23       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 199   | 122 | 48 | 29 |         |         |       |
| 52  | 2u    | 23       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 199   | 122 | 48 | 29 |         |         |       |

- Molecule 53 is a RNA chain called MF-mRNA.

| Mol | Chain | Residues | Atoms |     |    |    |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|----|---------|---------|-------|
| 53  | 1v    | 13       | Total | C   | N  | O  | P  | 0       | 0       | 0     |
|     |       |          | 277   | 125 | 51 | 88 | 13 |         |         |       |
| 53  | 2v    | 13       | Total | C   | N  | O  | P  | 0       | 0       | 0     |
|     |       |          | 277   | 125 | 51 | 88 | 13 |         |         |       |

- Molecule 54 is a RNA chain called A-site Aminoacylated Phe-tRNA<sup>phe</sup>.

| Mol | Chain | Residues | Atoms |     |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| 54  | 1w    | 74       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1603  | 722 | 287 | 518 | 74 | 2 |         |         |       |
| 54  | 2w    | 72       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1555  | 699 | 280 | 502 | 72 | 2 |         |         |       |

- Molecule 55 is a RNA chain called P-site Aminoacylated fMet-tRNA<sup>met</sup>.

| Mol | Chain | Residues | Atoms |     |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| 55  | 1x    | 77       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1656  | 740 | 299 | 538 | 77 | 2 |         |         |       |
| 55  | 2x    | 77       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1656  | 740 | 299 | 538 | 77 | 2 |         |         |       |

- Molecule 56 is a RNA chain called E-site Deacylated tRNA<sup>phe</sup>.

| Mol | Chain | Residues | Atoms |     |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---|---------|---------|-------|
| 56  | 1y    | 74       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1585  | 707 | 285 | 518 | 74 | 1 |         |         |       |
| 56  | 2y    | 73       | Total | C   | N   | O   | P  | S | 0       | 0       | 0     |
|     |       |          | 1565  | 698 | 283 | 510 | 73 | 1 |         |         |       |

- Molecule 57 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

| Mol | Chain | Residues | Atoms |      | ZeroOcc | AltConf |
|-----|-------|----------|-------|------|---------|---------|
| 57  | 1A    | 1113     | Total | Mg   | 0       | 0       |
|     |       |          | 1113  | 1113 |         |         |
| 57  | 1B    | 38       | Total | Mg   | 0       | 0       |
|     |       |          | 38    | 38   |         |         |
| 57  | 1D    | 12       | Total | Mg   | 0       | 0       |
|     |       |          | 12    | 12   |         |         |
| 57  | 1E    | 14       | Total | Mg   | 0       | 0       |
|     |       |          | 14    | 14   |         |         |
| 57  | 1F    | 13       | Total | Mg   | 0       | 0       |
|     |       |          | 13    | 13   |         |         |

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| Mol | Chain | Residues | Atoms      |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 57  | 1G    | 5        | Total<br>5 | Mg<br>5 | 0       | 0       |
| 57  | 1H    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 1N    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 1O    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 1P    | 5        | Total<br>5 | Mg<br>5 | 0       | 0       |
| 57  | 1Q    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 1R    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 1S    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 1T    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 1U    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 1V    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 1W    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 1X    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 1Y    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 1Z    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 10    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 11    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 12    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 13    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 14    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 15    | 8        | Total<br>8 | Mg<br>8 | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 57  | 16    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 17    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |
| 57  | 18    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |
| 57  | 19    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1a    | 220      | Total<br>220 | Mg<br>220 | 0       | 0       |
| 57  | 1b    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1d    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1e    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 1f    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 1l    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 1m    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1n    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1p    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1q    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1t    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1v    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1w    | 9        | Total<br>9   | Mg<br>9   | 0       | 0       |
| 57  | 1x    | 14       | Total<br>14  | Mg<br>14  | 0       | 0       |
| 57  | 2A    | 804      | Total<br>804 | Mg<br>804 | 0       | 0       |
| 57  | 2B    | 16       | Total<br>16  | Mg<br>16  | 0       | 0       |
| 57  | 2D    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |

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| Mol | Chain | Residues | Atoms      |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 57  | 2E    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 2F    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |
| 57  | 2G    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 2O    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 2P    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 2Q    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 2R    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 2T    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 2U    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 2V    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 2W    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 2X    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 2Z    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 20    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 21    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 23    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 25    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 27    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 28    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 2a    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 2w    | 6        | Total<br>6 | Mg<br>6 | 0       | 0       |

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| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 57  | 2x    | 7        | Total | Mg | 0       | 0       |
|     |       |          | 7     | 7  |         |         |
| 57  | 2y    | 7        | Total | Mg | 0       | 0       |
|     |       |          | 7     | 7  |         |         |

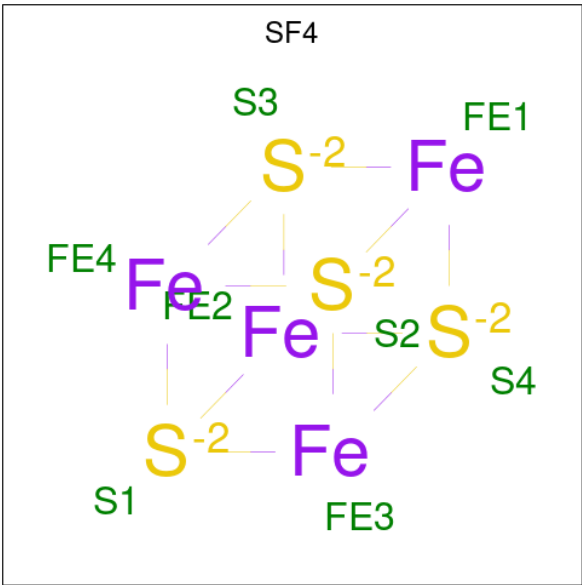
- Molecule 58 is POTASSIUM ION (CCD ID: K) (formula: K).

| Mol | Chain | Residues | Atoms |   | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---------|---------|
| 58  | 1A    | 1        | Total | K | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 58  | 2A    | 1        | Total | K | 0       | 0       |
|     |       |          | 1     | 1 |         |         |

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 59  | 1Y    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 14    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 15    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 16    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 19    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 1n    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 2Y    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 24    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 25    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 26    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 29    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 2n    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |

- Molecule 60 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).



| Mol | Chain | Residues | Atoms |    |   | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 60  | 1d    | 1        | Total | Fe | S | 0       | 0       |
|     |       |          | 8     | 4  | 4 |         |         |
| 60  | 2d    | 1        | Total | Fe | S | 0       | 0       |
|     |       |          | 8     | 4  | 4 |         |         |

- Molecule 61 is water.

| Mol | Chain | Residues | Atoms |      | ZeroOcc | AltConf |
|-----|-------|----------|-------|------|---------|---------|
| 61  | 1A    | 2067     | Total | O    | 0       | 0       |
|     |       |          | 2067  | 2067 |         |         |
| 61  | 1B    | 61       | Total | O    | 0       | 0       |
|     |       |          | 61    | 61   |         |         |
| 61  | 1D    | 32       | Total | O    | 0       | 0       |
|     |       |          | 32    | 32   |         |         |
| 61  | 1E    | 26       | Total | O    | 0       | 0       |
|     |       |          | 26    | 26   |         |         |
| 61  | 1F    | 20       | Total | O    | 0       | 0       |
|     |       |          | 20    | 20   |         |         |
| 61  | 1G    | 1        | Total | O    | 0       | 0       |
|     |       |          | 1     | 1    |         |         |
| 61  | 1H    | 2        | Total | O    | 0       | 0       |
|     |       |          | 2     | 2    |         |         |
| 61  | 1N    | 6        | Total | O    | 0       | 0       |
|     |       |          | 6     | 6    |         |         |
| 61  | 1O    | 6        | Total | O    | 0       | 0       |
|     |       |          | 6     | 6    |         |         |
| 61  | 1P    | 21       | Total | O    | 0       | 0       |
|     |       |          | 21    | 21   |         |         |

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| Mol | Chain | Residues | Atoms        |          | ZeroOcc | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|
| 61  | 1Q    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 1R    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 1S    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 1T    | 9        | Total<br>9   | O<br>9   | 0       | 0       |
| 61  | 1U    | 14       | Total<br>14  | O<br>14  | 0       | 0       |
| 61  | 1V    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 1W    | 6        | Total<br>6   | O<br>6   | 0       | 0       |
| 61  | 1X    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 1Y    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 1Z    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 10    | 12       | Total<br>12  | O<br>12  | 0       | 0       |
| 61  | 11    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 12    | 4        | Total<br>4   | O<br>4   | 0       | 0       |
| 61  | 13    | 4        | Total<br>4   | O<br>4   | 0       | 0       |
| 61  | 14    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 15    | 10       | Total<br>10  | O<br>10  | 0       | 0       |
| 61  | 16    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 17    | 10       | Total<br>10  | O<br>10  | 0       | 0       |
| 61  | 18    | 10       | Total<br>10  | O<br>10  | 0       | 0       |
| 61  | 1a    | 425      | Total<br>425 | O<br>425 | 0       | 0       |
| 61  | 1b    | 1        | Total<br>1   | O<br>1   | 0       | 0       |

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| Mol | Chain | Residues | Atoms         |           | ZeroOcc | AltConf |
|-----|-------|----------|---------------|-----------|---------|---------|
| 61  | 1f    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 1i    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 1l    | 8        | Total<br>8    | O<br>8    | 0       | 0       |
| 61  | 1m    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 1n    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 1o    | 3        | Total<br>3    | O<br>3    | 0       | 0       |
| 61  | 1p    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 1q    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 1r    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 1u    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 1v    | 4        | Total<br>4    | O<br>4    | 0       | 0       |
| 61  | 1w    | 12       | Total<br>12   | O<br>12   | 0       | 0       |
| 61  | 1x    | 17       | Total<br>17   | O<br>17   | 0       | 0       |
| 61  | 1y    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 2A    | 1094     | Total<br>1094 | O<br>1094 | 0       | 0       |
| 61  | 2B    | 18       | Total<br>18   | O<br>18   | 0       | 0       |
| 61  | 2D    | 22       | Total<br>22   | O<br>22   | 0       | 0       |
| 61  | 2E    | 9        | Total<br>9    | O<br>9    | 0       | 0       |
| 61  | 2F    | 11       | Total<br>11   | O<br>11   | 0       | 0       |
| 61  | 2I    | 3        | Total<br>3    | O<br>3    | 0       | 0       |
| 61  | 2N    | 1        | Total<br>1    | O<br>1    | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---------|---------|
| 61  | 2O    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 2P    | 9        | Total | O | 0       | 0       |
|     |       |          | 9     | 9 |         |         |
| 61  | 2Q    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 2R    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 2T    | 5        | Total | O | 0       | 0       |
|     |       |          | 5     | 5 |         |         |
| 61  | 2U    | 3        | Total | O | 0       | 0       |
|     |       |          | 3     | 3 |         |         |
| 61  | 2W    | 3        | Total | O | 0       | 0       |
|     |       |          | 3     | 3 |         |         |
| 61  | 2X    | 2        | Total | O | 0       | 0       |
|     |       |          | 2     | 2 |         |         |
| 61  | 20    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 21    | 6        | Total | O | 0       | 0       |
|     |       |          | 6     | 6 |         |         |
| 61  | 23    | 2        | Total | O | 0       | 0       |
|     |       |          | 2     | 2 |         |         |
| 61  | 27    | 5        | Total | O | 0       | 0       |
|     |       |          | 5     | 5 |         |         |
| 61  | 28    | 4        | Total | O | 0       | 0       |
|     |       |          | 4     | 4 |         |         |
| 61  | 29    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 2w    | 1        | Total | O | 0       | 0       |
|     |       |          | 1     | 1 |         |         |
| 61  | 2x    | 6        | Total | O | 0       | 0       |
|     |       |          | 6     | 6 |         |         |
| 61  | 2y    | 2        | Total | O | 0       | 0       |
|     |       |          | 2     | 2 |         |         |

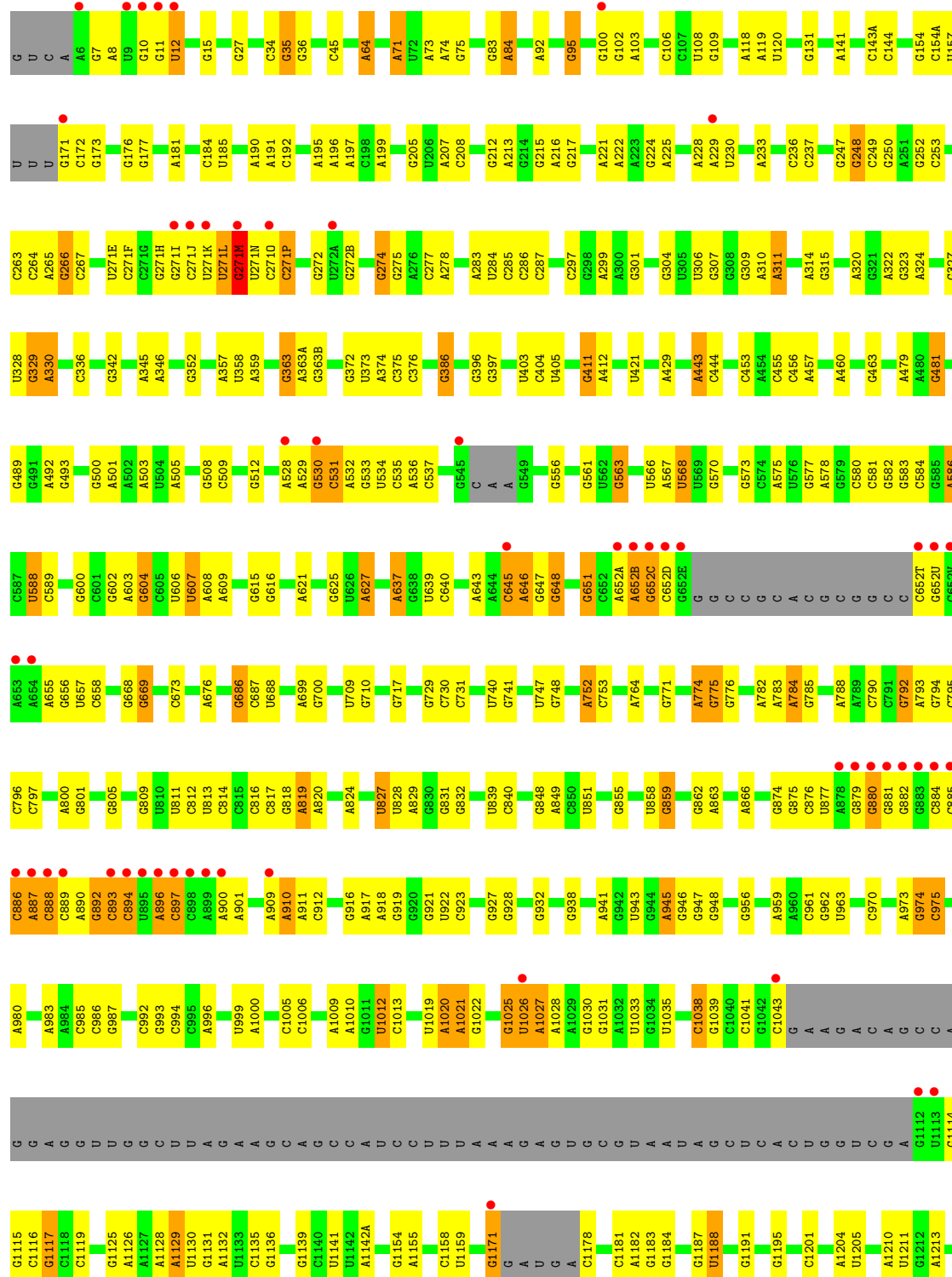
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

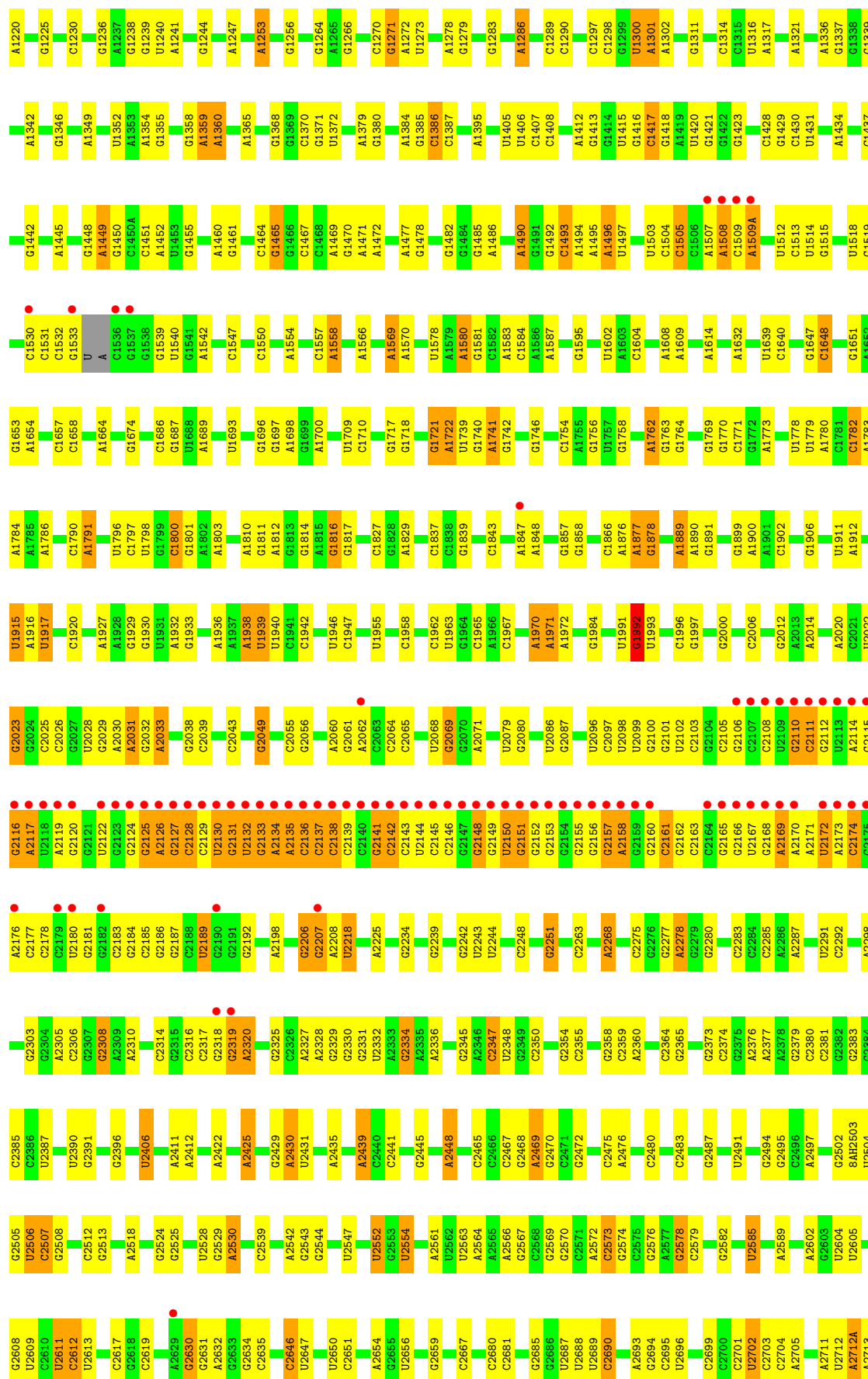
[illegible]

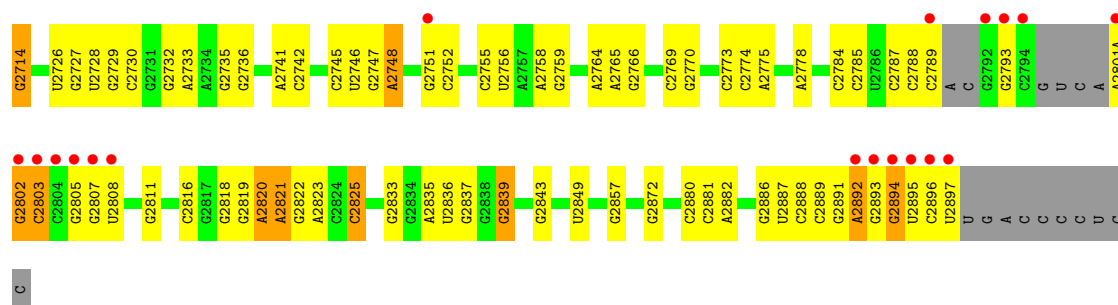
|        |       |         |       |       |       |       |       |       |        |       |       |       |
|--------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| A2705  | C2551 | C2385   | C2285 | A2169 | U2109 | C1967 | A1902 | G1674 | A1509A | C1386 | G1256 | A1098 |
| U2712  | U2552 | U2406   | A2286 | A2170 | G2110 | C1970 | A1803 | C1686 | U1518  | U1394 | G1264 | G1099 |
| A2712A | G2553 | G2554   | A2287 | A2171 | C2111 | A1970 | A1810 | G1687 | G1519  | A1395 | G1265 | U1100 |
| A2713  | U2554 | G2410   | G2288 | A2172 | G2112 | A1770 | A1811 | U1688 | U1519  | U1396 | G1266 | C1102 |
| G2714  | A2564 | G2410   | G2289 | C2174 | U2113 | A1972 | A1812 | U1693 | G1532  | G1401 | U1269 | A1104 |
| G2722  | A2565 | U2418   | U2291 | C2175 | G2115 | G1973 | G1816 | U1694 | G      | C1402 | G1270 | U1105 |
| U2726  | A2566 | U2419   | C2292 | A2176 | G2116 | C1979 | G1817 | G1694 | U      | A1405 | G1271 | G1106 |
| G2732  | A2567 | C2420   | A2305 | C2177 | A2117 | U1991 | A1829 | G1695 | A      | U1406 | G1272 | G1110 |
| A2733  | C2568 | A2422   | C2306 | G2178 | U2118 | G1982 | A1829 | G1696 | C      | U1406 | G1273 | A1111 |
| A2740  | A2572 | U2423   | G2307 | U2180 | A2119 | U1993 | G1839 | G1697 | G1537  | C1407 | U1273 | G1112 |
| A2741  | C2573 | C2424   | G2308 | G2181 | G2121 | U1993 | G1839 | G1698 | G      | G1416 | G1277 | U1113 |
| C2742  | G2574 | A2425   | U2312 | G2182 | U2122 | G1997 | A1847 | G1699 | U      | C1417 | A1278 | G1114 |
| C2743  | C2575 | A2426   | G2316 | G2183 | G2123 | A2001 | A1847 | A1700 | U      | G1420 | C1290 | G1115 |
| G2747  | U2585 | G2428   | C2316 | G2185 | G2124 | A2001 | A1848 | A1701 | A      | U1420 | C1291 | C1116 |
| A2748  | U2586 | G2428   | C2316 | G2186 | A2126 | A2014 | A1853 | G1702 | A      | U1420 | C1292 | G1125 |
| A2749  | C2591 | A2430   | G2319 | G2187 | G2127 | A2014 | A1854 | G1703 | A      | U1420 | C1293 | A1126 |
| C2755  | G2592 | A2435   | G2320 | G2188 | C2128 | A2020 | U1864 | A1722 | A      | C1428 | U1300 | G1139 |
| G2759  | A2600 | G2440   | G2321 | U2189 | G2129 | A2020 | G1865 | U1739 | A      | G1429 | A1301 | A1155 |
| A2764  | C2601 | A2439   | G2325 | G2190 | U2130 | C2021 | U1864 | U1739 | A      | U1431 | U1300 | A1156 |
| A2765  | A2602 | C2440   | C2326 | G2191 | G2131 | U2022 | G1865 | C1744 | A      | U1431 | U1292 | U1165 |
| C2774  | U2605 | C2441   | G2327 | G2192 | U2132 | G2023 | G1878 | C1745 | A      | U1431 | U1293 | C1166 |
| A2775  | U2606 | G2445   | A2328 | A2198 | G2133 | A2030 | A1889 | G1766 | A      | G1442 | G1332 | G1171 |
| A2778  | U2609 | G2446   | G2329 | G2206 | A2134 | A2030 | A1890 | G1767 | A      | U1453 | G1338 | A1174 |
| A2781  | C2610 | A2447   | G2330 | G2207 | A2135 | A2031 | A1890 | U1757 | A      | G1455 | U1341 | U1175 |
| C2787  | U2611 | G2448   | G2331 | A2208 | C2136 | A2031 | A1899 | G1758 | A      | G1459 | U1341 | G1176 |
| A2788  | C2612 | G2458   | G2334 | U2218 | G2137 | A2061 | A1900 | A1762 | A      | G1466 | C1345 | A1177 |
| C2789  | C2616 | U2461   | A2335 | G2222 | C2138 | A2062 | G1906 | G1763 | A      | G1467 | U1352 | C1178 |
| G2790  | G2630 | U2462   | A2336 | G2223 | G2140 | A2069 | U1911 | G1769 | A      | C1474 | U1357 | G1183 |
| C2791  | C2646 | G2468   | G2341 | A2225 | G2141 | A2069 | U1911 | A1773 | A      | G1475 | U1358 | C1184 |
| G2792  | U2647 | A2476   | G2342 | G2238 | C2142 | A2069 | U1911 | G1774 | A      | G1478 | A1369 | C1185 |
| C2793  | C2648 | A2477   | C2347 | G2239 | U2144 | A2069 | U1911 | U1775 | A      | G1482 | U1364 | U1188 |
| G2794  | U2650 | A2478   | G2350 | U2243 | C2145 | A2069 | U1911 | U1778 | A      | A1486 | G1371 | C1201 |
| C2795  | C2654 | U2491   | G2351 | U2244 | G2146 | A2069 | U1911 | U1779 | A      | G1487 | U1372 | G1223 |
| G2802  | A2654 | G2502   | C2359 | C2248 | G2147 | A2069 | U1911 | U1780 | A      | C1493 | G1377 | C1224 |
| U2803  | G2659 | 8AH2503 | A2360 | G2251 | U2148 | A2069 | U1911 | A1781 | A      | A1494 | U1377 | G1225 |
| C2804  | G2663 | U2504   | A2361 | G2252 | G2149 | A2069 | U1911 | A1782 | A      | A1496 | A1226 | A1226 |
| G2805  | A2664 | G2505   | C2364 | A2268 | U2150 | A2069 | U1911 | A1783 | A      | A1496 | A1378 | A1226 |
| C2806  | G2665 | U2506   | C2365 | A2269 | G2151 | A2069 | U1911 | A1784 | A      | A1496 | A1379 | G1243 |
| G2807  | A2666 | A2518   | A2366 | G2270 | G2152 | A2069 | U1911 | A1785 | A      | A1507 | G1380 | G1244 |
| U2808  | C2667 | U2522   | G2372 | U2272 | G2153 | A2069 | U1911 | A1786 | A      | A1507 | A1384 | A1508 |
| C2809  | G2668 | G2529   | A2376 | A2274 | G2154 | A2069 | U1911 | A1787 | A      | C1506 | A1384 | A1508 |
| A2809  | U2669 | A2533   | A2377 | G2277 | G2155 | A2069 | U1911 | A1788 | A      | A1507 | A1384 | A1508 |
| A2810  | C2691 | G2549   | A2378 | G2278 | G2156 | A2069 | U1911 | A1789 | A      | C1509 | A1385 | A1253 |
| G2811  | U2702 | G2550   | G2383 | C2283 | G2157 | A2069 | U1911 | A1790 | A      | C1509 | A1385 | A1253 |
|        |       |         | G2384 | C2284 | A2158 | A2069 | U1911 | A1791 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2159 | A2069 | U1911 | A1792 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2160 | A2069 | U1911 | A1793 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2161 | A2069 | U1911 | A1794 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2162 | A2069 | U1911 | A1795 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2163 | A2069 | U1911 | A1796 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2164 | A2069 | U1911 | A1797 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2165 | A2069 | U1911 | A1798 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2166 | A2069 | U1911 | A1799 | A      | C1509 | A1385 | A1253 |
|        |       |         |       |       | G2167 | A2069 | U1911 | A1800 | A      | C1509 | A1385 | A1253 |
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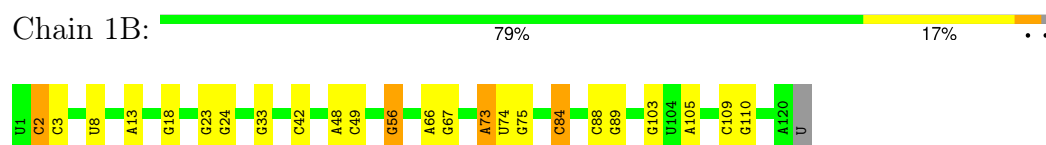
• Molecule 1: 23S Ribosomal RNA



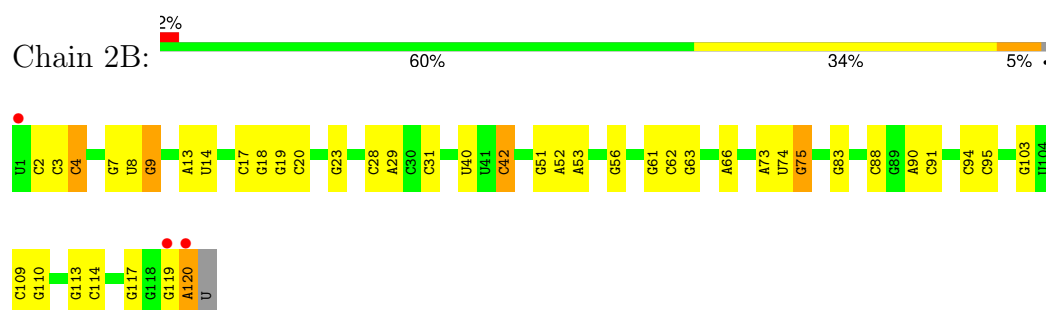




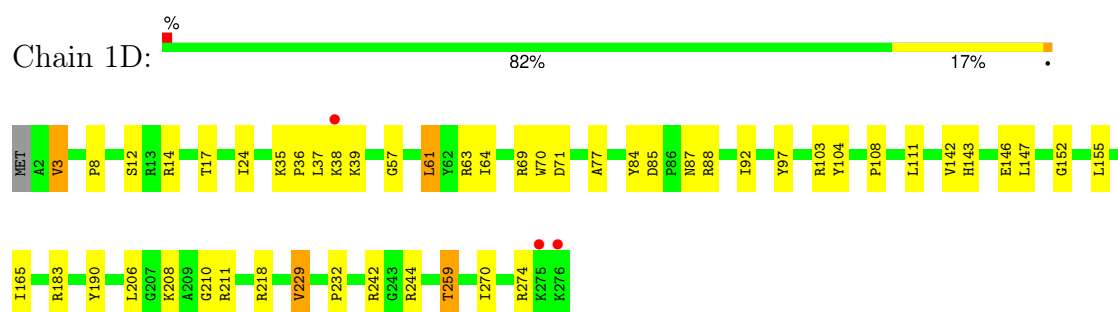
• Molecule 2: 5S Ribosomal RNA



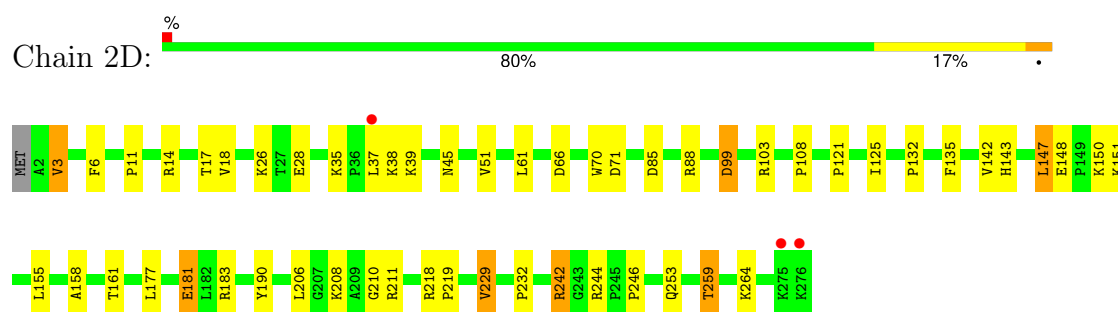
• Molecule 2: 5S Ribosomal RNA



• Molecule 3: 50S ribosomal protein L2

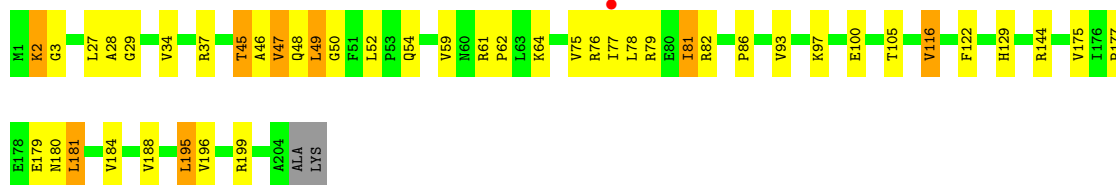


• Molecule 3: 50S ribosomal protein L2



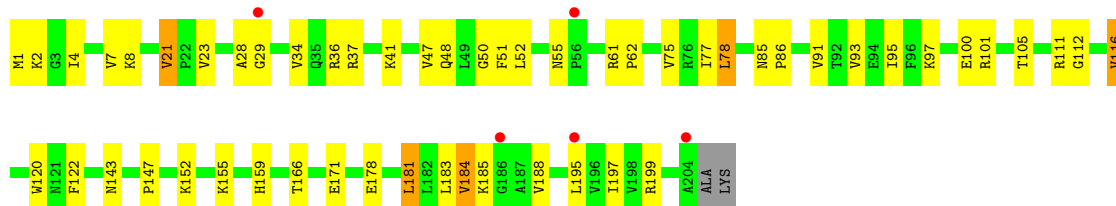
• Molecule 4: 50S ribosomal protein L3

Chain 1E:  77% 18% ..



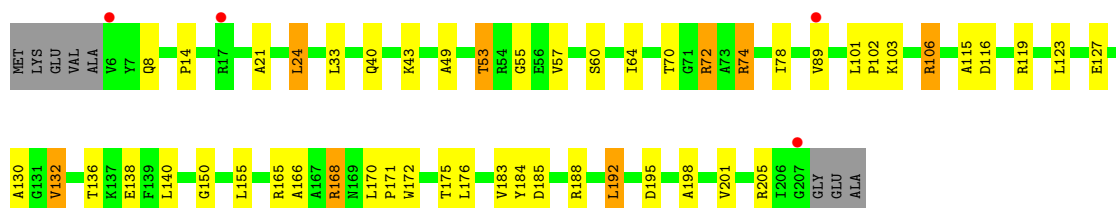
- Molecule 4: 50S ribosomal protein L3

Chain 2E:  73% 24% ..



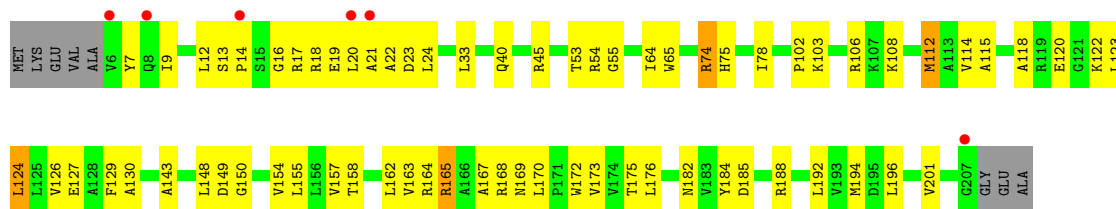
- Molecule 5: 50S ribosomal protein L4

Chain 1F:  72% 20% ..



- Molecule 5: 50S ribosomal protein L4

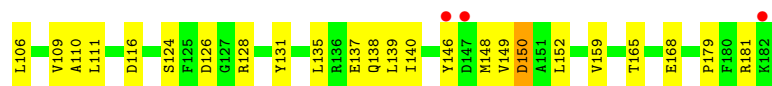
Chain 2F:  63% 31% ..



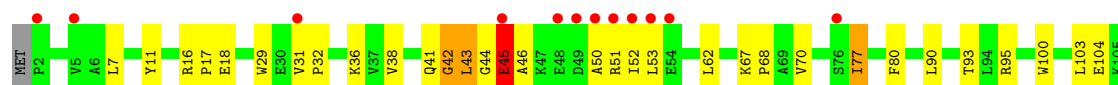
- Molecule 6: 50S ribosomal protein L5

Chain 1G:  69% 26% ..

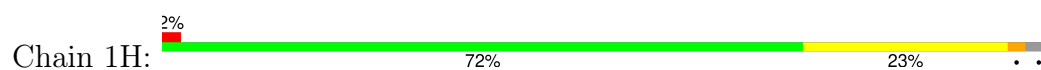




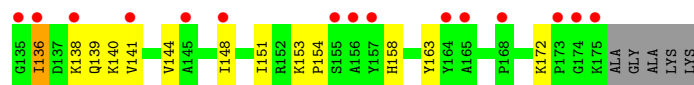
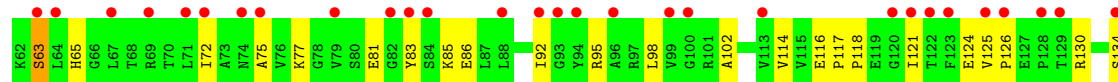
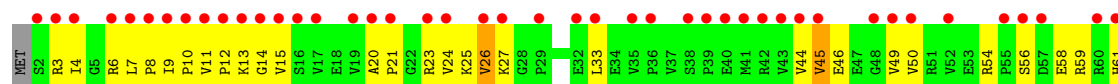
- Molecule 6: 50S ribosomal protein L5



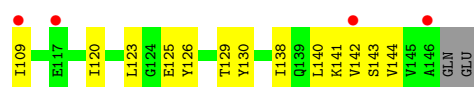
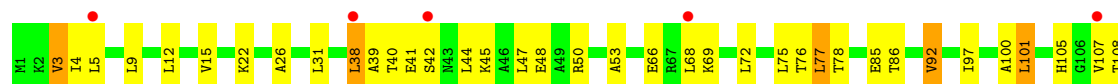
- Molecule 7: 50S ribosomal protein L6



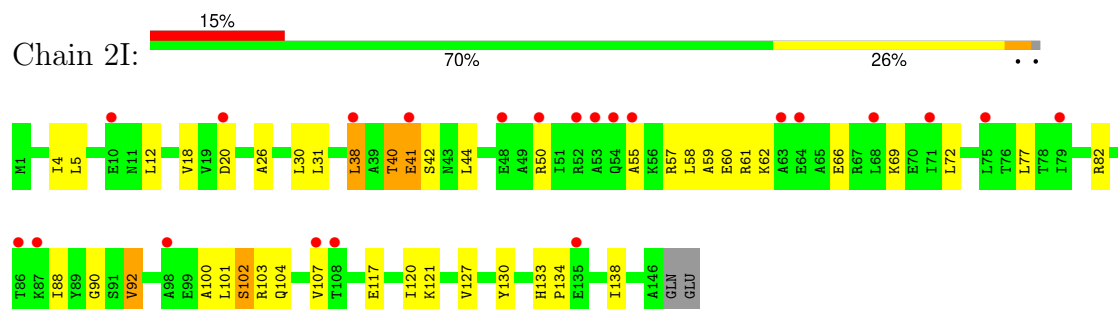
- Molecule 7: 50S ribosomal protein L6



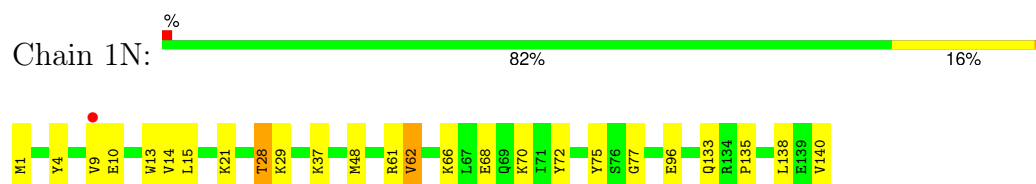
- Molecule 8: 50S ribosomal protein L9



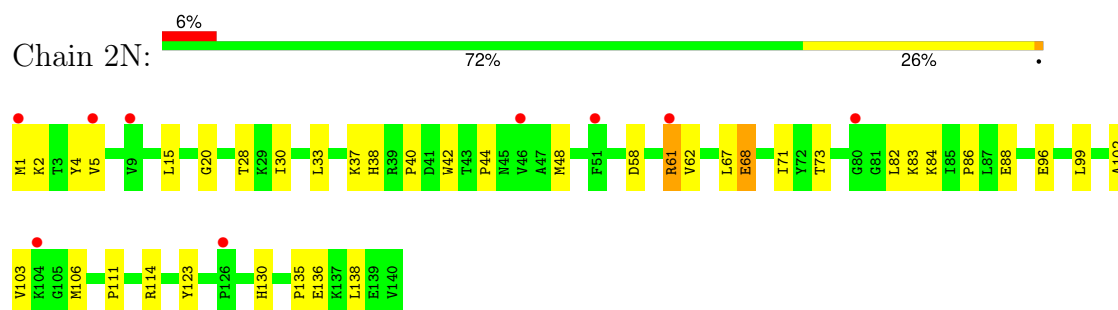
- Molecule 8: 50S ribosomal protein L9



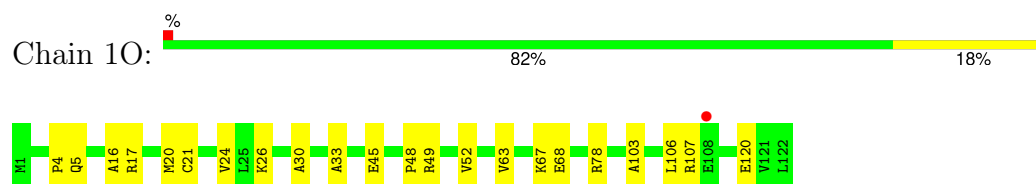
- Molecule 9: 50S ribosomal protein L13



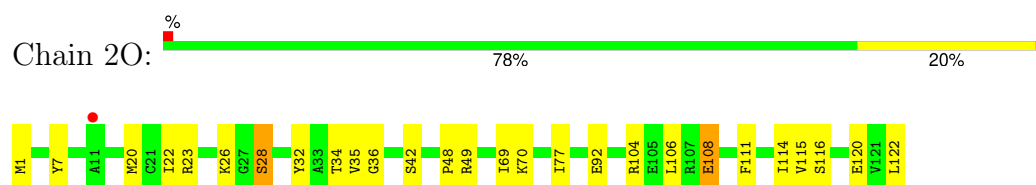
- Molecule 9: 50S ribosomal protein L13



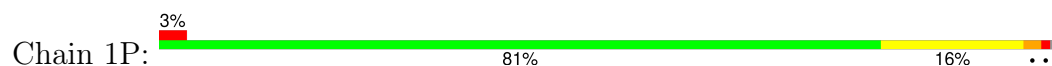
- Molecule 10: 50S ribosomal protein L14



- Molecule 10: 50S ribosomal protein L14

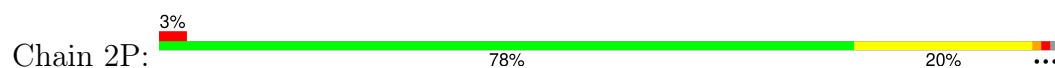


- Molecule 11: 50S ribosomal protein L15

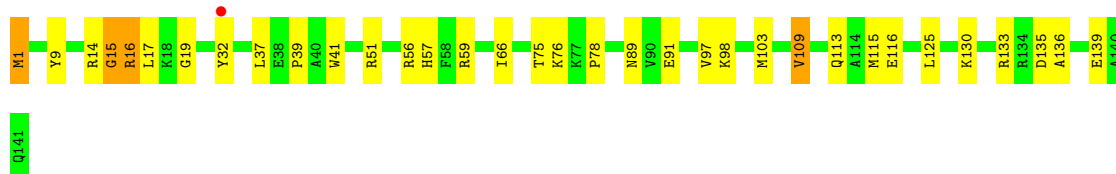
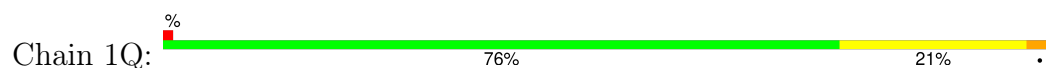




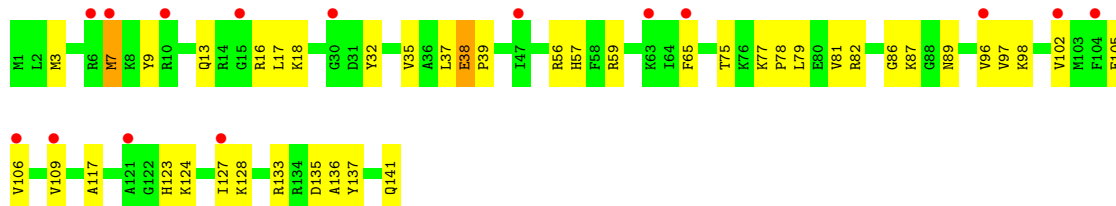
- Molecule 11: 50S ribosomal protein L15



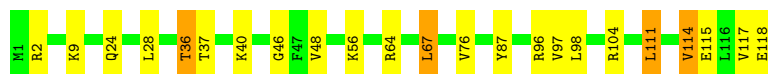
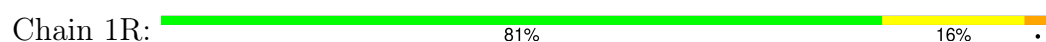
- Molecule 12: 50S ribosomal protein L16



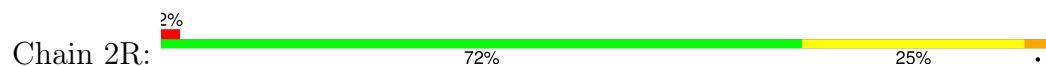
- Molecule 12: 50S ribosomal protein L16



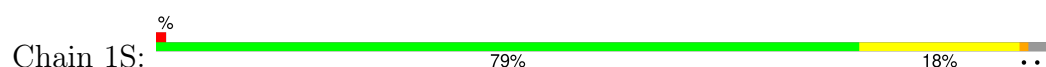
- Molecule 13: 50S ribosomal protein L17



- Molecule 13: 50S ribosomal protein L17

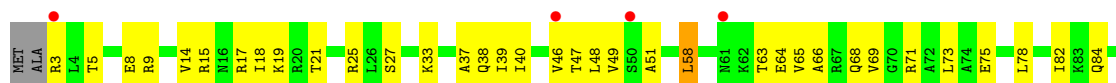


- Molecule 14: 50S ribosomal protein L18

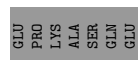
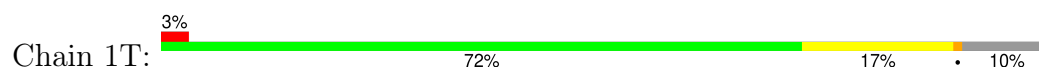




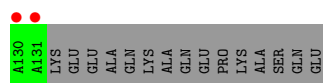
- Molecule 14: 50S ribosomal protein L18



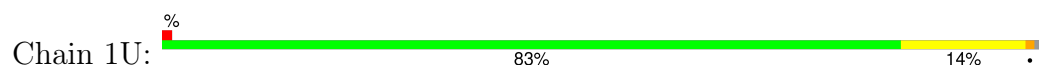
- Molecule 15: 50S ribosomal protein L19



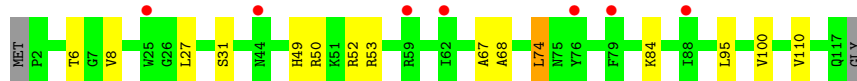
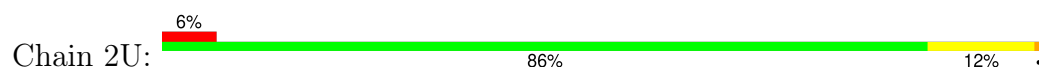
- Molecule 15: 50S ribosomal protein L19



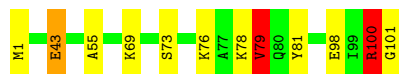
- Molecule 16: 50S ribosomal protein L20



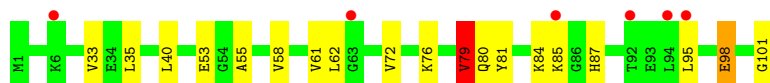
- Molecule 16: 50S ribosomal protein L20



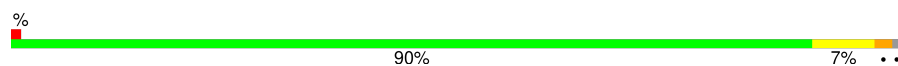
## ● Molecule 17: 50S ribosomal protein L21

Chain 1V:  88% 9% ..

## ● Molecule 17: 50S ribosomal protein L21

Chain 2V:  6% 81% 17% ..

## ● Molecule 18: 50S ribosomal protein L22

Chain 1W:  % 90% 7% ..

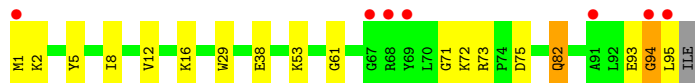
## ● Molecule 18: 50S ribosomal protein L22

Chain 2W:  3% 78% 20% ..

## ● Molecule 19: 50S ribosomal protein L23

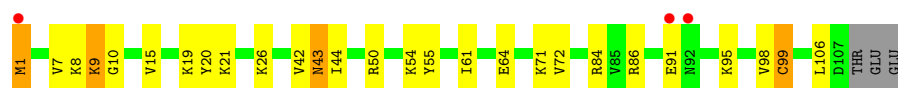
Chain 1X:  3% 82% 16% ..

## ● Molecule 19: 50S ribosomal protein L23

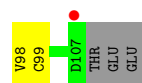
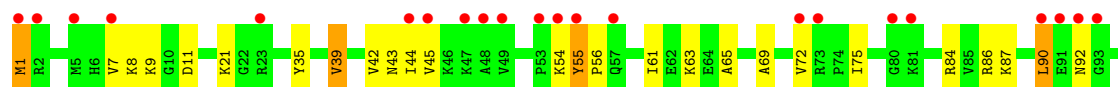
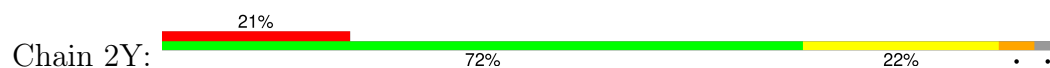
Chain 2X:  7% 80% 17% ..

## ● Molecule 20: 50S ribosomal protein L24

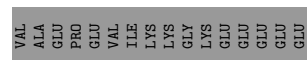
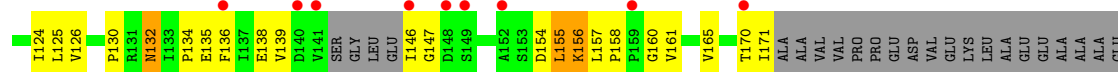
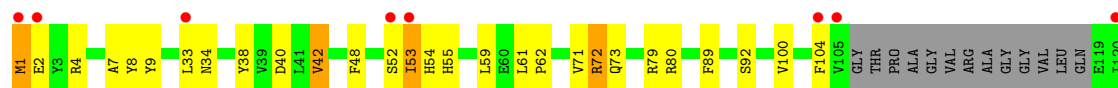
Chain 1Y:  3% 73% 21% ..



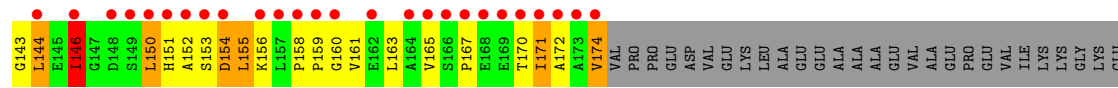
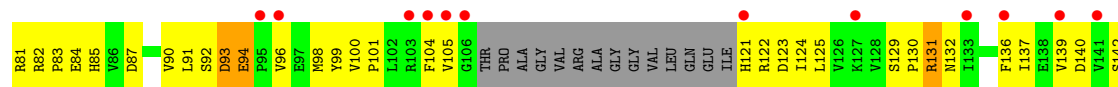
- Molecule 20: 50S ribosomal protein L24



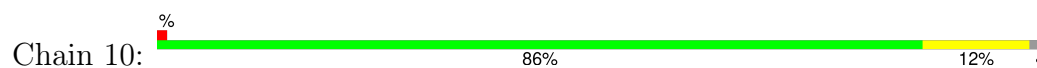
- Molecule 21: 50S ribosomal protein L25



- Molecule 21: 50S ribosomal protein L25

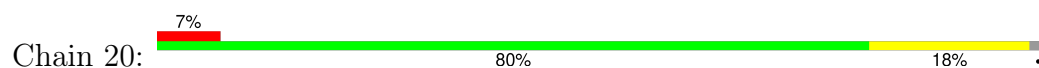


- Molecule 22: 50S ribosomal protein L27

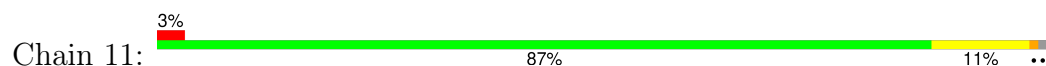




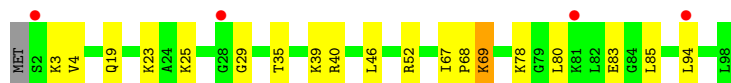
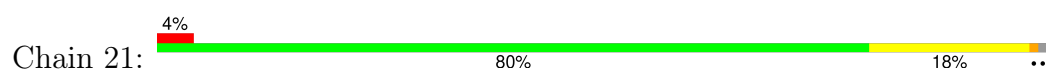
- Molecule 22: 50S ribosomal protein L27



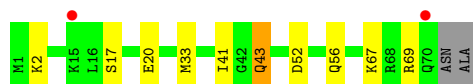
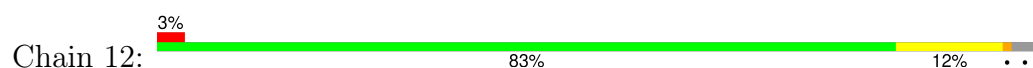
- Molecule 23: 50S ribosomal protein L28



- Molecule 23: 50S ribosomal protein L28



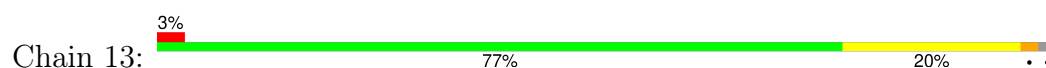
- Molecule 24: 50S ribosomal protein L29



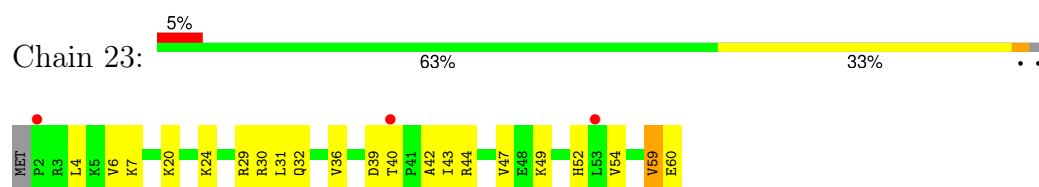
- Molecule 24: 50S ribosomal protein L29



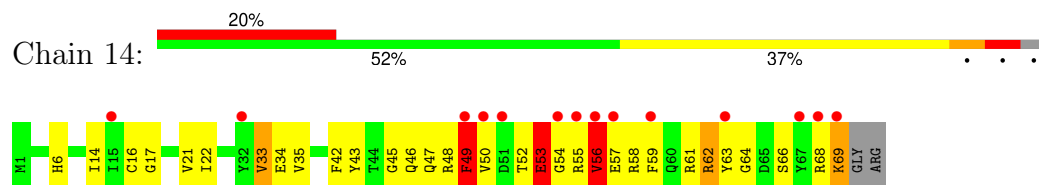
- Molecule 25: 50S ribosomal protein L30



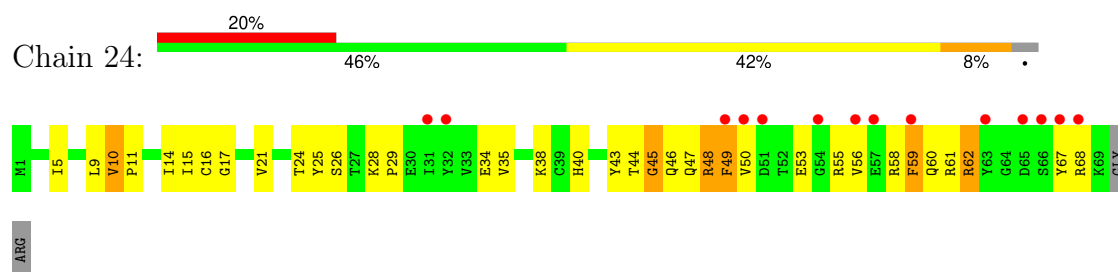
- Molecule 25: 50S ribosomal protein L30



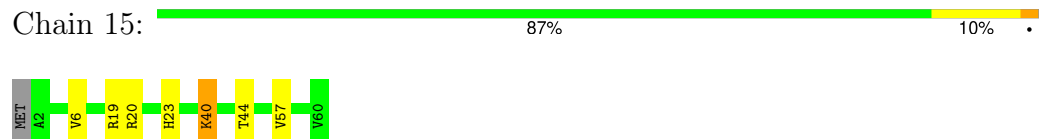
- Molecule 26: 50S ribosomal protein L31



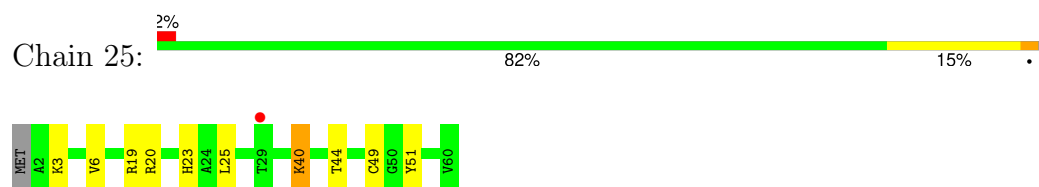
- Molecule 26: 50S ribosomal protein L31



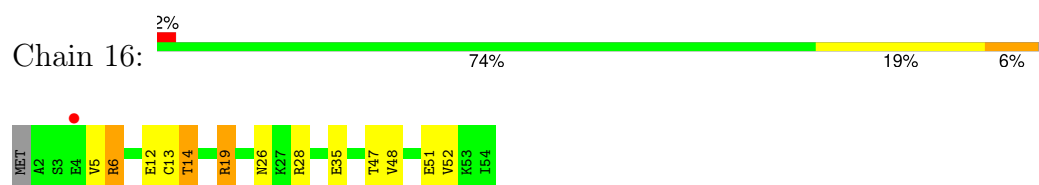
- Molecule 27: 50S ribosomal protein L32



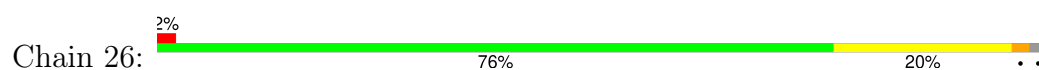
- Molecule 27: 50S ribosomal protein L32



- Molecule 28: 50S ribosomal protein L33

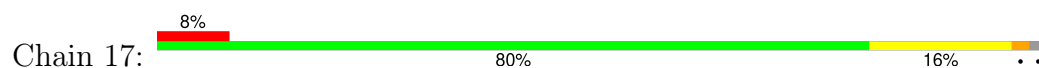


- Molecule 28: 50S ribosomal protein L33





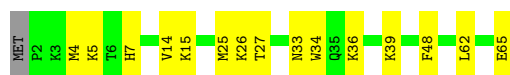
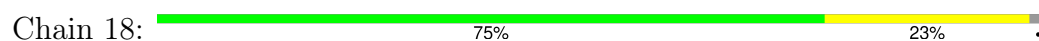
- Molecule 29: 50S ribosomal protein L34



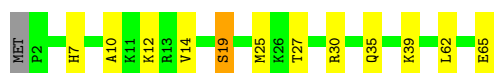
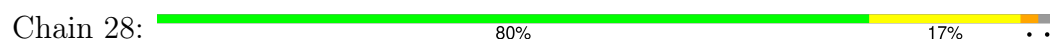
- Molecule 29: 50S ribosomal protein L34



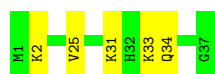
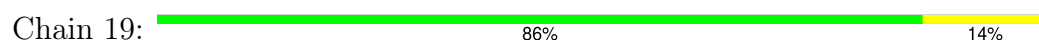
- Molecule 30: 50S ribosomal protein L35



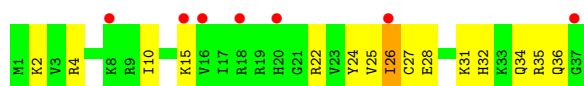
- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36

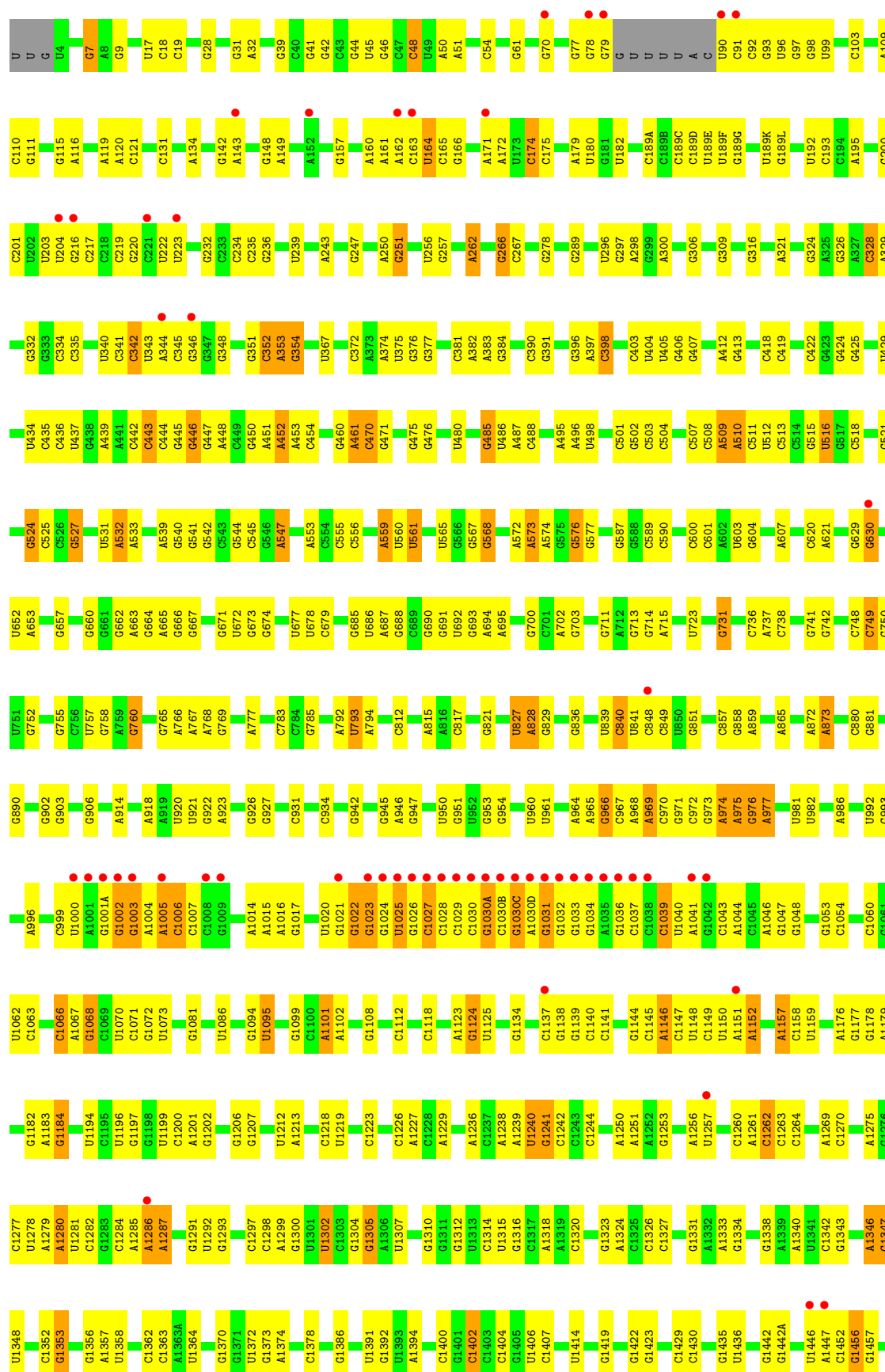


- Molecule 31: 50S ribosomal protein L36



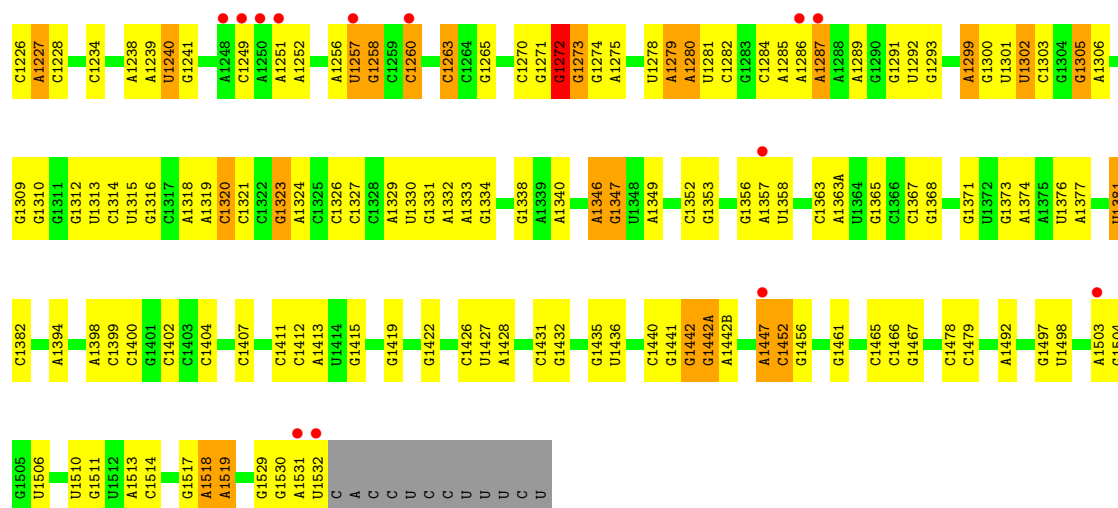
- Molecule 32: 16S Ribosomal RNA



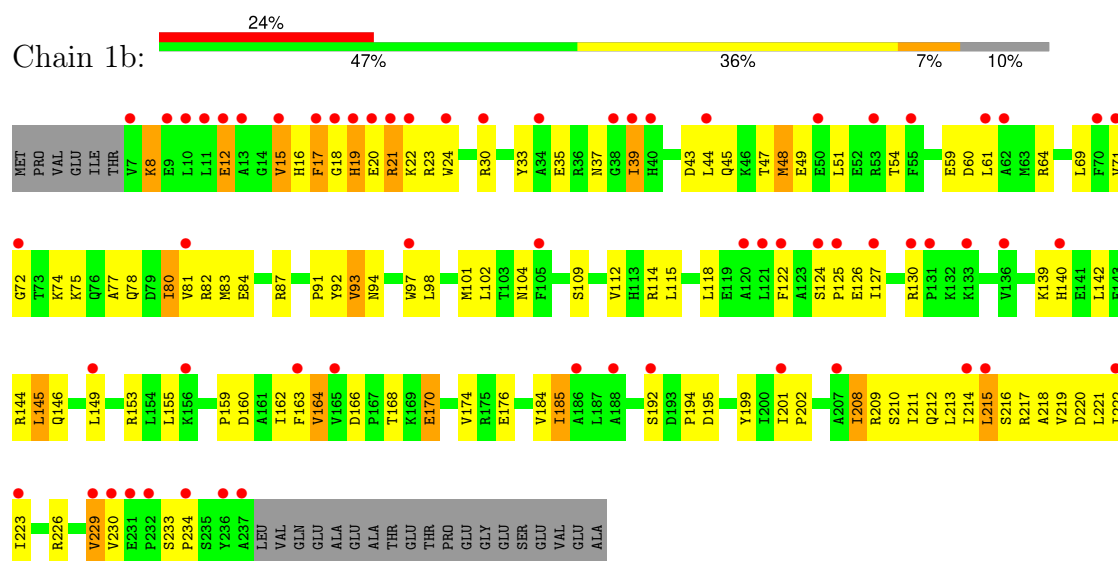


Chain 2a: 

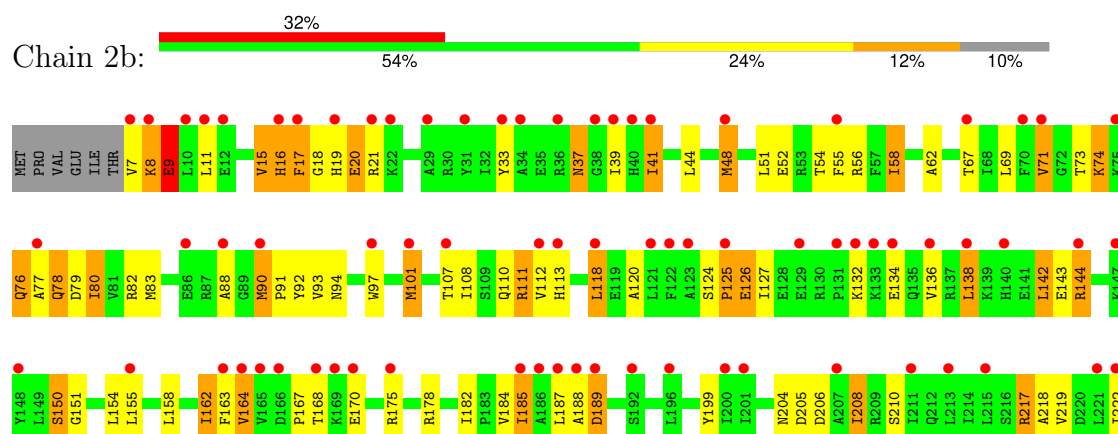


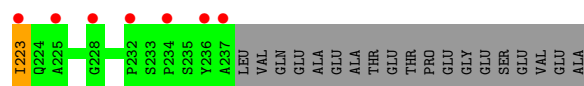


• Molecule 33: 30S ribosomal protein S2

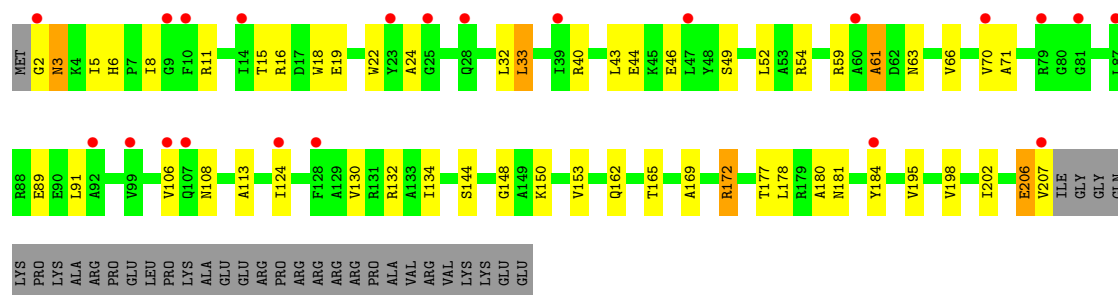


• Molecule 33: 30S ribosomal protein S2

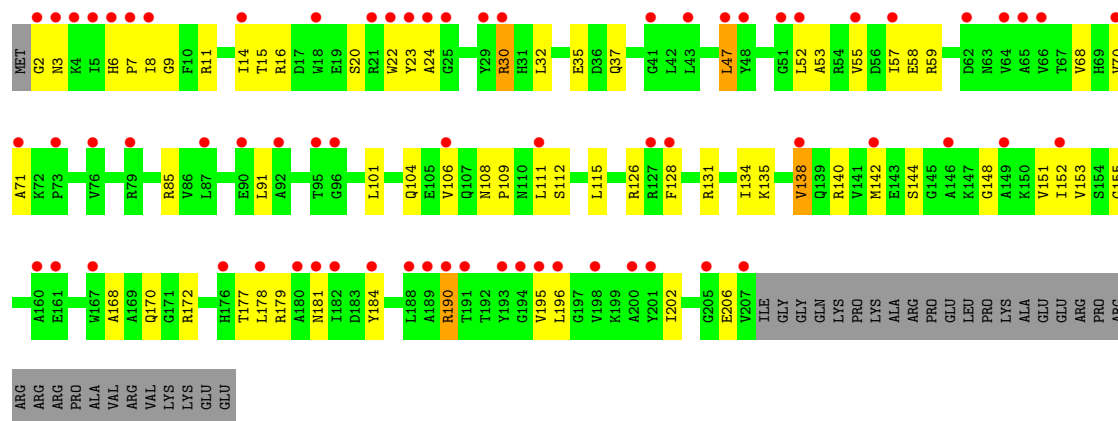




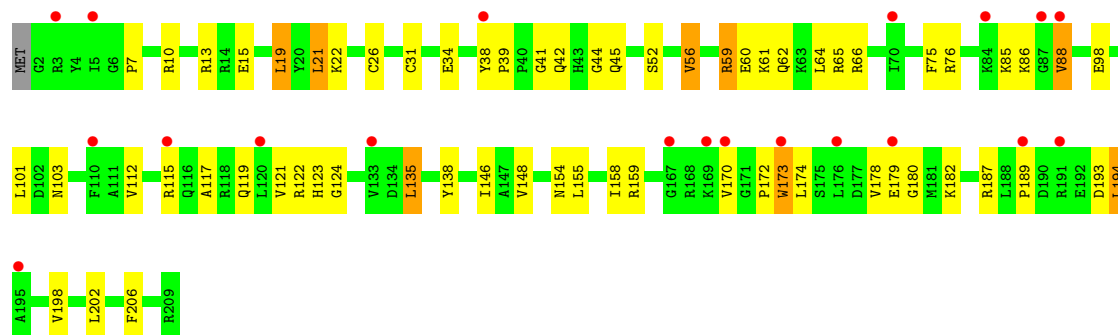
• Molecule 34: 30S ribosomal protein S3



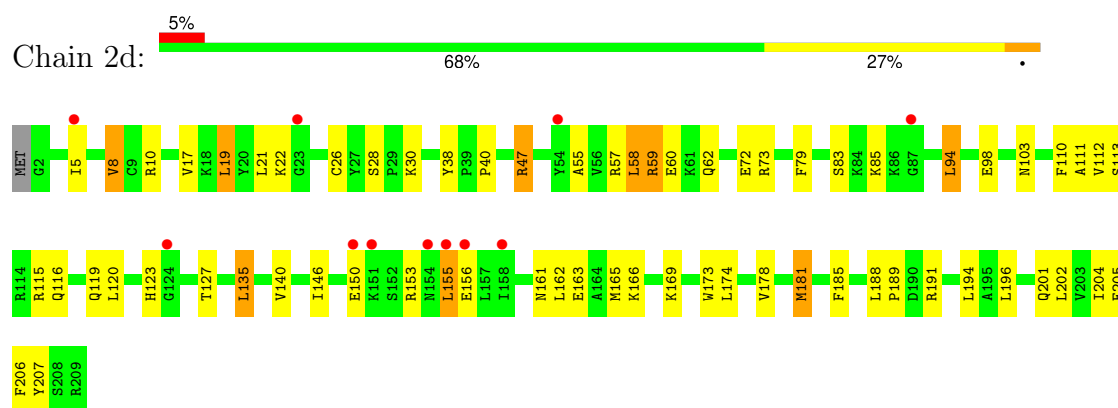
• Molecule 34: 30S ribosomal protein S3



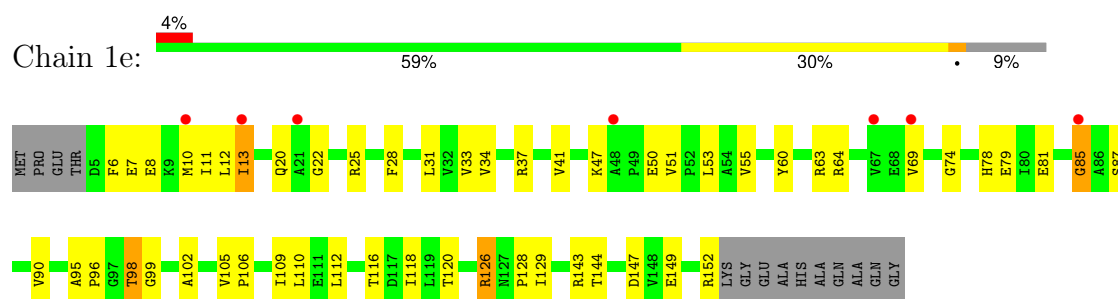
• Molecule 35: 30S ribosomal protein S4



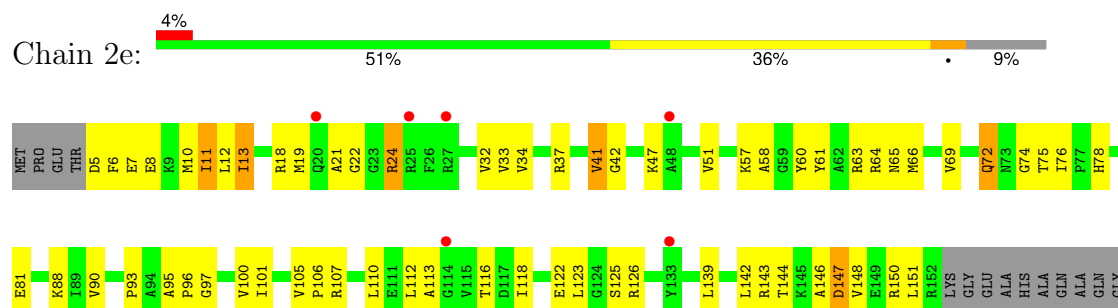
• Molecule 35: 30S ribosomal protein S4



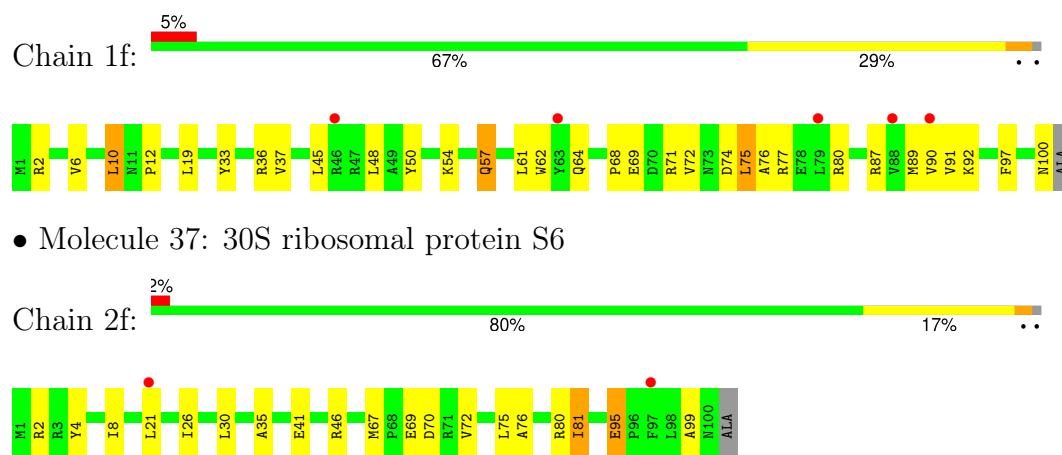
- Molecule 36: 30S ribosomal protein S5



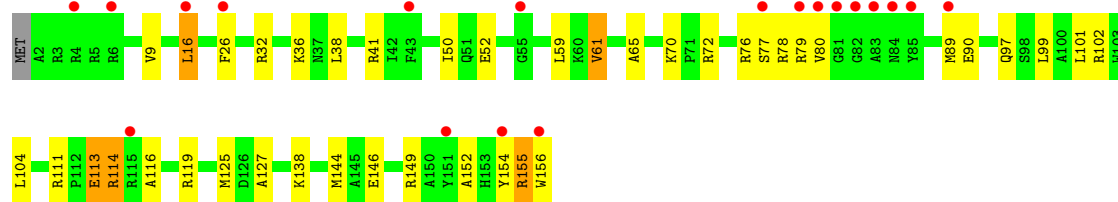
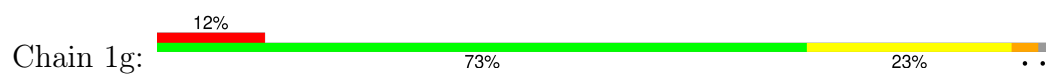
- Molecule 36: 30S ribosomal protein S5



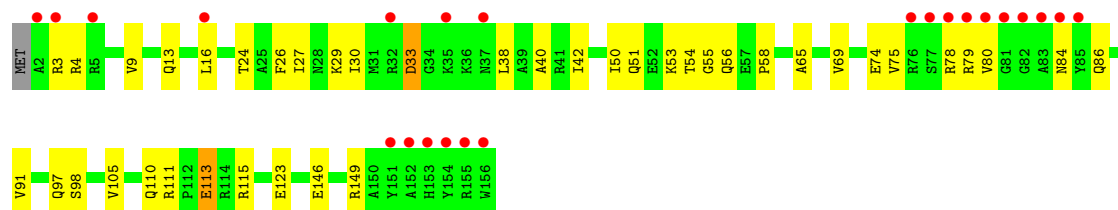
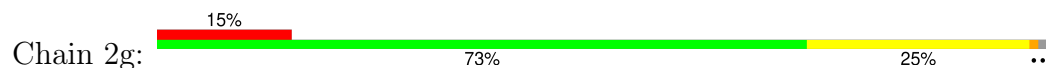
- Molecule 37: 30S ribosomal protein S6



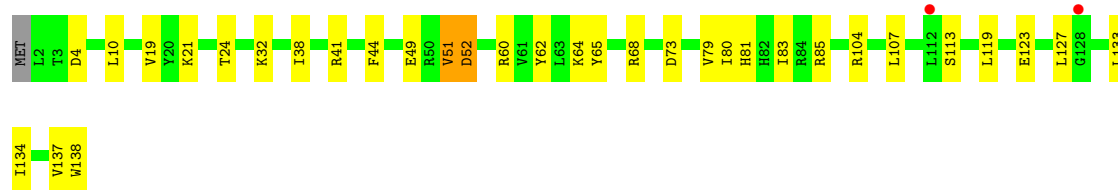
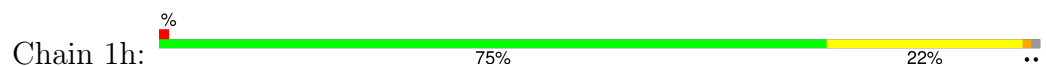
- Molecule 38: 30S ribosomal protein S7



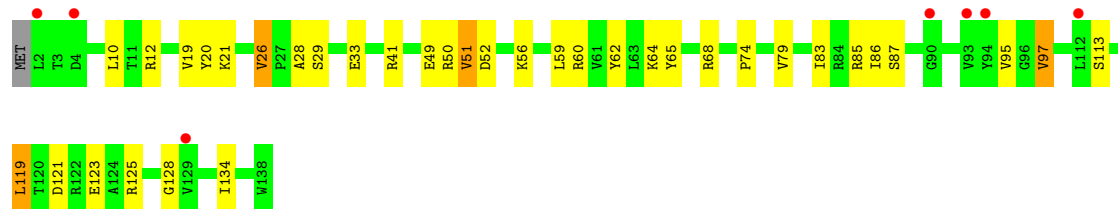
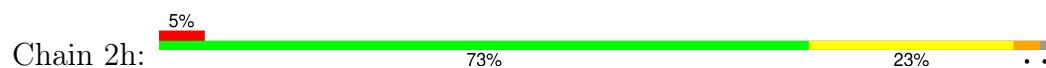
• Molecule 38: 30S ribosomal protein S7



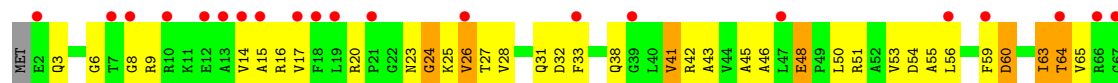
• Molecule 39: 30S ribosomal protein S8

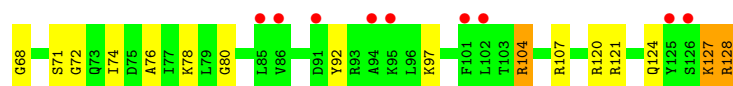


• Molecule 39: 30S ribosomal protein S8

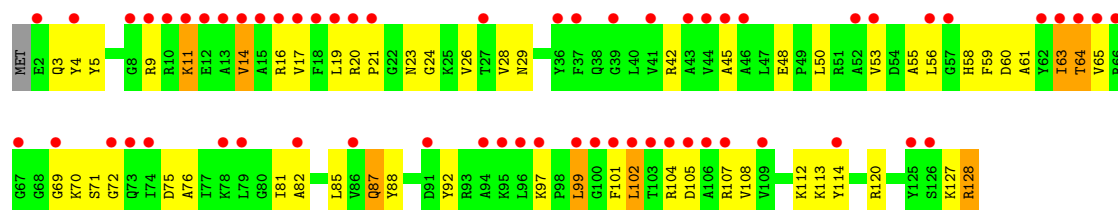


• Molecule 40: 30S ribosomal protein S9

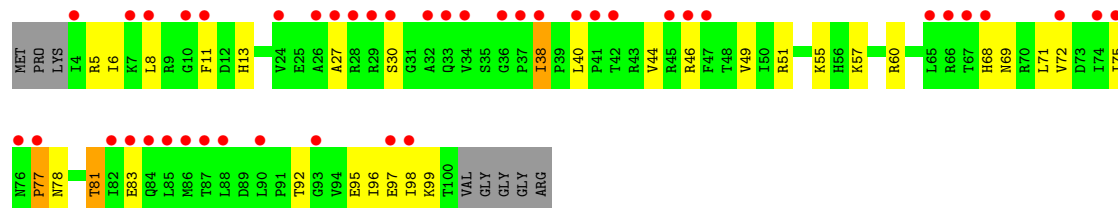
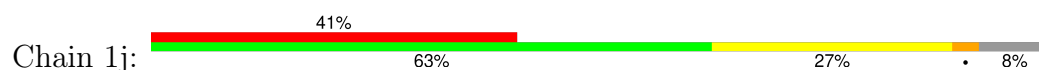




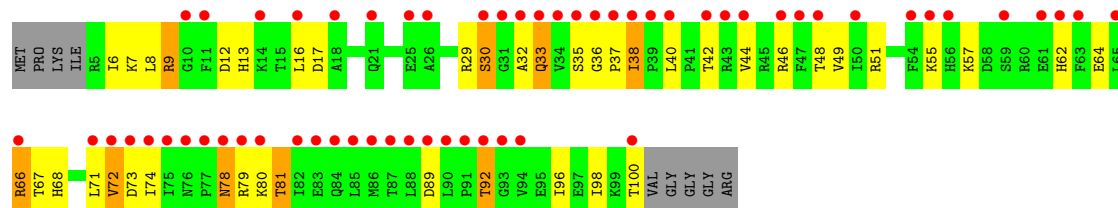
- Molecule 40: 30S ribosomal protein S9



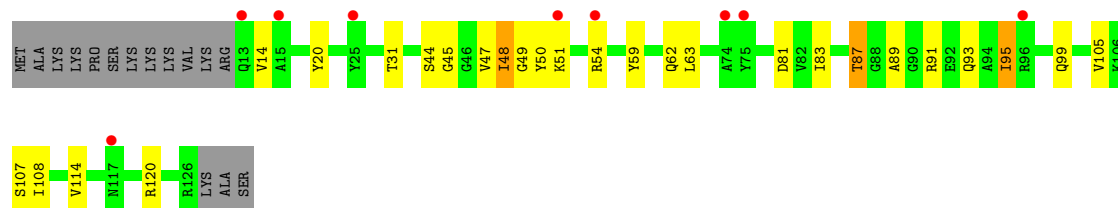
- Molecule 41: 30S ribosomal protein S10



- Molecule 41: 30S ribosomal protein S10



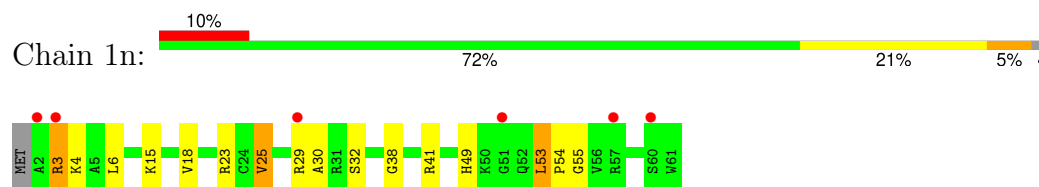
- Molecule 42: 30S ribosomal protein S11



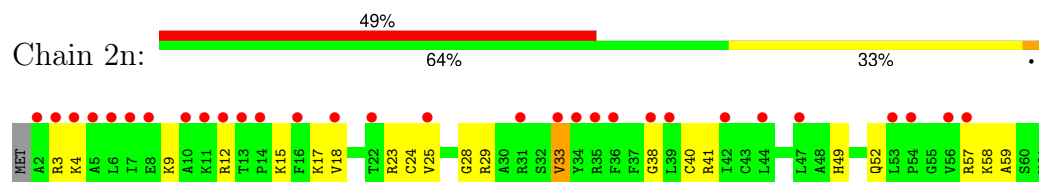
- Molecule 42: 30S ribosomal protein S11



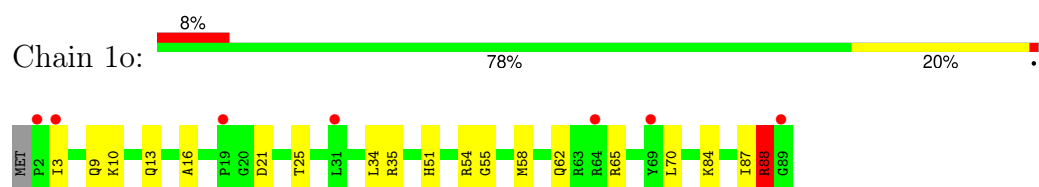
- Molecule 45: 30S ribosomal protein S14 type Z



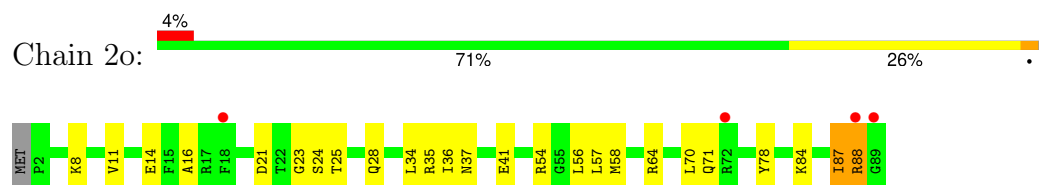
- Molecule 45: 30S ribosomal protein S14 type Z



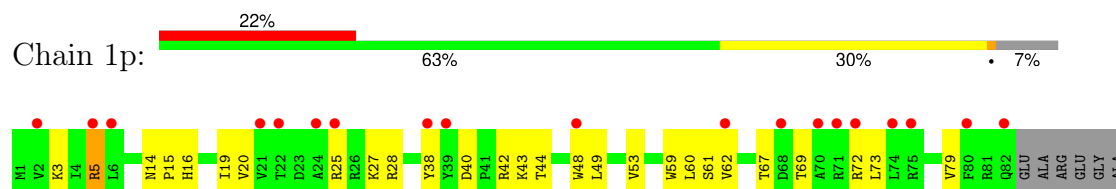
- Molecule 46: 30S ribosomal protein S15



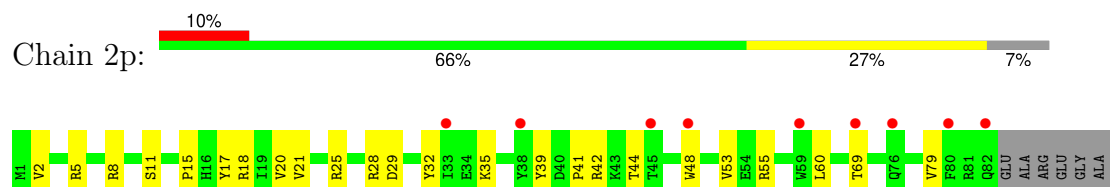
- Molecule 46: 30S ribosomal protein S15



- Molecule 47: 30S ribosomal protein S16

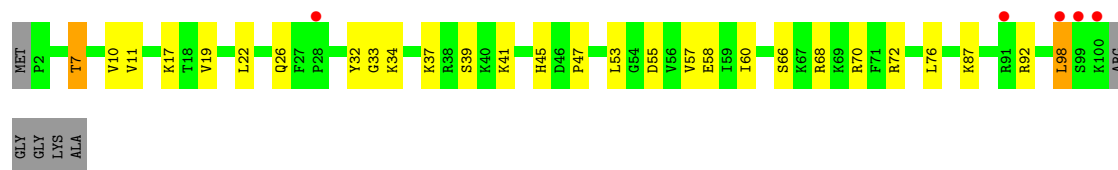


- Molecule 47: 30S ribosomal protein S16

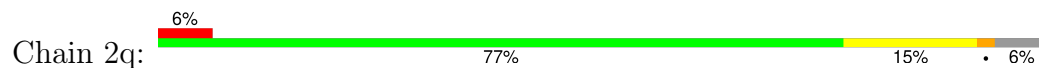


- Molecule 48: 30S ribosomal protein S17





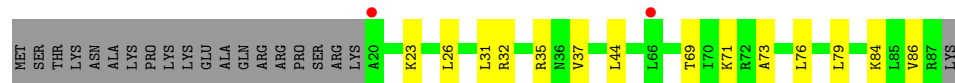
- Molecule 48: 30S ribosomal protein S17



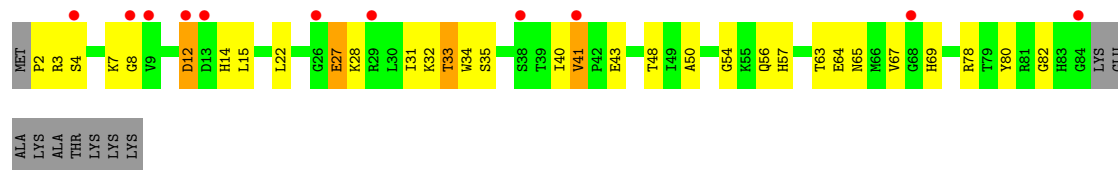
- Molecule 49: 30S ribosomal protein S18



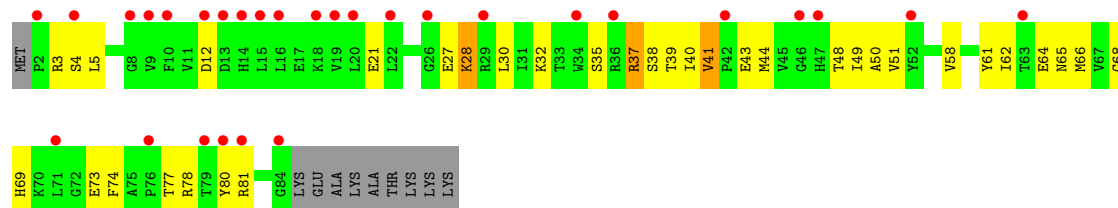
- Molecule 49: 30S ribosomal protein S18



- Molecule 50: 30S ribosomal protein S19

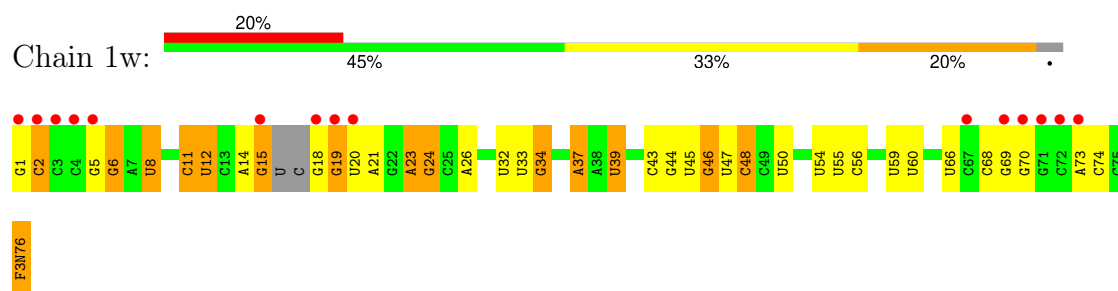


- Molecule 50: 30S ribosomal protein S19

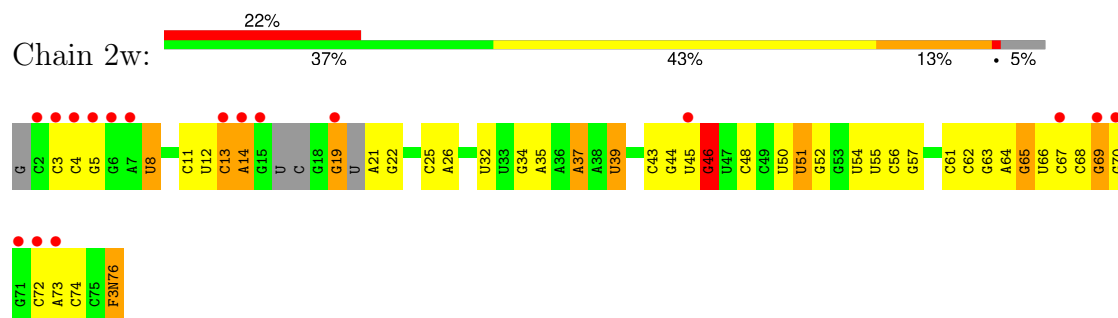


- Molecule 51: 30S ribosomal protein S20

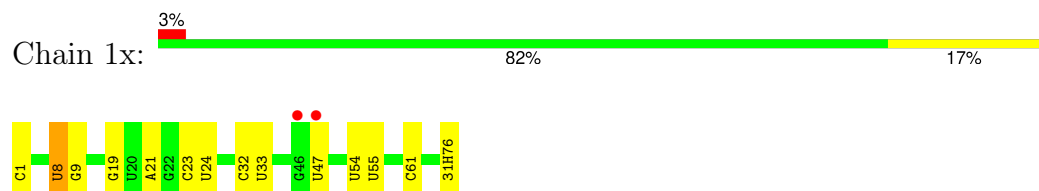




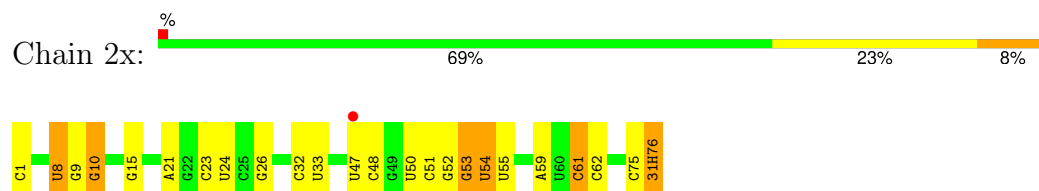
- Molecule 54: A-site Aminoacylated Phe-tRNAphe



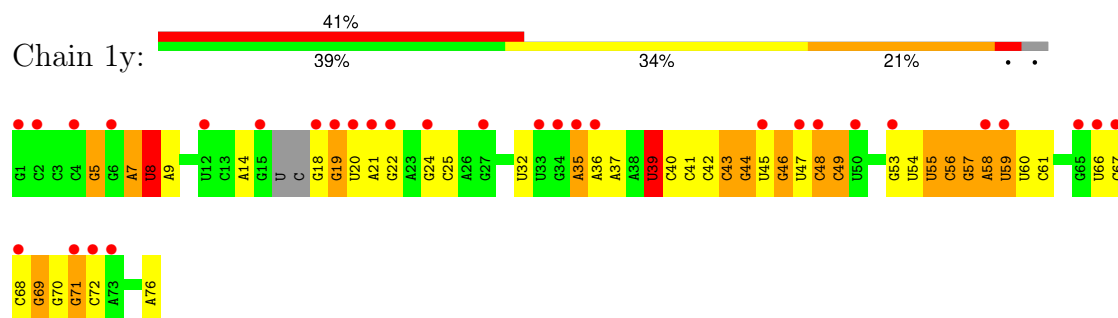
- Molecule 55: P-site Aminoacylated fMet-tRNAmet



- Molecule 55: P-site Aminoacylated fMet-tRNAmet

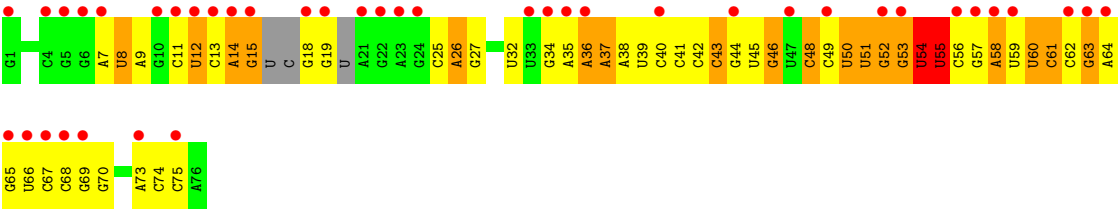


- Molecule 56: E-site Deacylated tRNAphe



- Molecule 56: E-site Deacylated tRNAphe





## 4 Data and refinement statistics

| Property                                                                | Value                                                       | Source           |
|-------------------------------------------------------------------------|-------------------------------------------------------------|------------------|
| Space group                                                             | P 21 21 21                                                  | Depositor        |
| Cell constants<br>a, b, c, $\alpha$ , $\beta$ , $\gamma$                | 210.09Å 449.74Å 625.05Å<br>90.00° 90.00° 90.00°             | Depositor        |
| Resolution (Å)                                                          | 153.52 – 2.55<br>153.52 – 2.55                              | Depositor<br>EDS |
| % Data completeness<br>(in resolution range)                            | 99.0 (153.52-2.55)<br>99.1 (153.52-2.55)                    | Depositor<br>EDS |
| $R_{merge}$                                                             | 0.14                                                        | Depositor        |
| $R_{sym}$                                                               | (Not available)                                             | Depositor        |
| $\langle I/\sigma(I) \rangle$ <sup>1</sup>                              | 1.28 (at 2.55Å)                                             | Xtriage          |
| Refinement program                                                      | PHENIX 1.8.2                                                | Depositor        |
| R, $R_{free}$                                                           | 0.213 , 0.252<br>0.216 , 0.254                              | Depositor<br>DCC |
| $R_{free}$ test set                                                     | 94286 reflections (4.97%)                                   | wwPDB-VP         |
| Wilson B-factor (Å <sup>2</sup> )                                       | 54.5                                                        | Xtriage          |
| Anisotropy                                                              | 0.216                                                       | Xtriage          |
| Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> ) | 0.32 , 50.6                                                 | EDS              |
| L-test for twinning <sup>2</sup>                                        | $\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.28$ | Xtriage          |
| Estimated twinning fraction                                             | No twinning to report.                                      | Xtriage          |
| $F_o, F_c$ correlation                                                  | 0.93                                                        | EDS              |
| Total number of atoms                                                   | 299618                                                      | wwPDB-VP         |
| Average B, all atoms (Å <sup>2</sup> )                                  | 61.0                                                        | wwPDB-VP         |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.55% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: M2G, 5MC, 2MG, OMG, G7M, F3N, PSU, 4OC, ZN, 2MU, 4SU, 31H, MG, 0TD, SF4, 8AH, UR3, K, MA6, MIA, 5MU, OMC

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   | 1A    | 0.27         | 0/69010 | 0.46        | 2/107716 (0.0%) |
| 1   | 2A    | 0.21         | 0/67294 | 0.40        | 3/105038 (0.0%) |
| 2   | 1B    | 0.21         | 0/2882  | 0.40        | 0/4494          |
| 2   | 2B    | 0.18         | 0/2879  | 0.35        | 0/4487          |
| 3   | 1D    | 0.26         | 0/2186  | 0.51        | 0/2944          |
| 3   | 2D    | 0.22         | 0/2186  | 0.45        | 0/2944          |
| 4   | 1E    | 0.26         | 0/1592  | 0.49        | 0/2149          |
| 4   | 2E    | 0.19         | 0/1592  | 0.42        | 0/2149          |
| 5   | 1F    | 0.25         | 0/1618  | 0.50        | 0/2191          |
| 5   | 2F    | 0.20         | 0/1614  | 0.45        | 0/2186          |
| 6   | 1G    | 0.22         | 0/1448  | 0.45        | 0/1957          |
| 6   | 2G    | 0.19         | 0/1453  | 0.39        | 0/1963          |
| 7   | 1H    | 0.23         | 0/1356  | 0.44        | 0/1834          |
| 7   | 2H    | 0.19         | 0/1356  | 0.39        | 0/1834          |
| 8   | 1I    | 0.19         | 0/1112  | 0.44        | 0/1514          |
| 8   | 2I    | 0.19         | 0/1079  | 0.40        | 0/1475          |
| 9   | 1N    | 0.25         | 0/1144  | 0.48        | 0/1543          |
| 9   | 2N    | 0.18         | 0/1144  | 0.39        | 0/1543          |
| 10  | 1O    | 0.25         | 0/943   | 0.46        | 0/1269          |
| 10  | 2O    | 0.19         | 0/943   | 0.42        | 0/1269          |
| 11  | 1P    | 0.24         | 0/1152  | 0.54        | 0/1533          |
| 11  | 2P    | 0.20         | 0/1152  | 0.49        | 0/1533          |
| 12  | 1Q    | 0.26         | 0/1143  | 0.46        | 0/1527          |
| 12  | 2Q    | 0.19         | 0/1143  | 0.41        | 0/1527          |
| 13  | 1R    | 0.27         | 0/982   | 0.51        | 0/1312          |
| 13  | 2R    | 0.19         | 0/982   | 0.45        | 0/1312          |
| 14  | 1S    | 0.23         | 0/883   | 0.46        | 0/1176          |
| 14  | 2S    | 0.19         | 0/880   | 0.44        | 0/1172          |
| 15  | 1T    | 0.24         | 0/1105  | 0.44        | 0/1477          |
| 15  | 2T    | 0.20         | 0/1097  | 0.42        | 0/1468          |
| 16  | 1U    | 0.27         | 0/977   | 0.46        | 0/1301          |

| Mol | Chain | Bond lengths |                | Bond angles |                |
|-----|-------|--------------|----------------|-------------|----------------|
|     |       | RMSZ         | # Z  >5        | RMSZ        | # Z  >5        |
| 16  | 2U    | 0.19         | 0/977          | 0.38        | 0/1301         |
| 17  | 1V    | 0.26         | 0/782          | 0.47        | 0/1049         |
| 17  | 2V    | 0.17         | 0/782          | 0.38        | 0/1049         |
| 18  | 1W    | 0.28         | 0/897          | 0.46        | 0/1205         |
| 18  | 2W    | 0.21         | 0/897          | 0.40        | 0/1205         |
| 19  | 1X    | 0.24         | 0/764          | 0.50        | 2/1025 (0.2%)  |
| 19  | 2X    | 0.22         | 0/764          | 0.48        | 2/1025 (0.2%)  |
| 20  | 1Y    | 0.23         | 0/819          | 0.50        | 0/1095         |
| 20  | 2Y    | 0.20         | 0/819          | 0.46        | 0/1095         |
| 21  | 1Z    | 0.22         | 0/1267         | 0.45        | 0/1717         |
| 21  | 2Z    | 0.23         | 0/1299         | 0.44        | 0/1763         |
| 22  | 10    | 0.25         | 0/662          | 0.50        | 0/881          |
| 22  | 20    | 0.18         | 0/662          | 0.41        | 0/881          |
| 23  | 11    | 0.25         | 0/762          | 0.46        | 0/1014         |
| 23  | 21    | 0.22         | 0/762          | 0.40        | 0/1014         |
| 24  | 12    | 0.30         | 0/590          | 0.50        | 0/781          |
| 24  | 22    | 0.19         | 0/590          | 0.36        | 0/781          |
| 25  | 13    | 0.27         | 0/474          | 0.47        | 0/635          |
| 25  | 23    | 0.18         | 0/469          | 0.41        | 0/630          |
| 26  | 14    | 0.24         | 0/565          | 0.56        | 0/761          |
| 26  | 24    | 0.25         | 0/545          | 0.54        | 0/737          |
| 27  | 15    | 0.27         | 0/469          | 0.46        | 0/635          |
| 27  | 25    | 0.20         | 0/469          | 0.40        | 0/635          |
| 28  | 16    | 0.26         | 0/460          | 0.47        | 0/613          |
| 28  | 26    | 0.21         | 0/456          | 0.45        | 0/608          |
| 29  | 17    | 0.31         | 0/426          | 0.51        | 0/561          |
| 29  | 27    | 0.25         | 0/426          | 0.50        | 0/561          |
| 30  | 18    | 0.24         | 0/525          | 0.45        | 0/691          |
| 30  | 28    | 0.20         | 0/525          | 0.38        | 0/691          |
| 31  | 19    | 0.29         | 0/310          | 0.52        | 0/407          |
| 31  | 29    | 0.18         | 0/310          | 0.41        | 0/407          |
| 32  | 1a    | 0.20         | 0/35795        | 0.39        | 0/55864        |
| 32  | 2a    | 0.19         | 1/35886 (0.0%) | 0.38        | 3/56005 (0.0%) |
| 33  | 1b    | 0.21         | 0/1881         | 0.47        | 0/2542         |
| 33  | 2b    | 0.21         | 0/1860         | 0.45        | 0/2518         |
| 34  | 1c    | 0.19         | 0/1572         | 0.39        | 0/2126         |
| 34  | 2c    | 0.20         | 0/1566         | 0.40        | 0/2119         |
| 35  | 1d    | 0.19         | 0/1685         | 0.44        | 0/2262         |
| 35  | 2d    | 0.19         | 0/1704         | 0.43        | 0/2284         |
| 36  | 1e    | 0.20         | 0/1145         | 0.47        | 0/1543         |
| 36  | 2e    | 0.21         | 0/1149         | 0.44        | 0/1548         |
| 37  | 1f    | 0.18         | 0/823          | 0.39        | 0/1115         |
| 37  | 2f    | 0.19         | 0/829          | 0.40        | 0/1123         |

| Mol | Chain | Bond lengths |                 | Bond angles |                  |
|-----|-------|--------------|-----------------|-------------|------------------|
|     |       | RMSZ         | # Z  >5         | RMSZ        | # Z  >5          |
| 38  | 1g    | 0.18         | 0/1250          | 0.39        | 0/1679           |
| 38  | 2g    | 0.20         | 0/1254          | 0.41        | 0/1683           |
| 39  | 1h    | 0.19         | 0/1108          | 0.41        | 0/1494           |
| 39  | 2h    | 0.17         | 0/1108          | 0.39        | 0/1494           |
| 40  | 1i    | 0.19         | 0/1002          | 0.48        | 0/1346           |
| 40  | 2i    | 0.20         | 0/997           | 0.49        | 0/1343           |
| 41  | 1j    | 0.20         | 0/722           | 0.40        | 0/982            |
| 41  | 2j    | 0.20         | 0/727           | 0.46        | 0/988            |
| 42  | 1k    | 0.18         | 0/844           | 0.41        | 0/1145           |
| 42  | 2k    | 0.18         | 0/848           | 0.41        | 0/1149           |
| 43  | 1l    | 0.21         | 0/937           | 0.40        | 0/1260           |
| 43  | 2l    | 0.18         | 0/937           | 0.39        | 0/1260           |
| 44  | 1m    | 0.19         | 0/969           | 0.51        | 0/1302           |
| 44  | 2m    | 0.20         | 0/961           | 0.45        | 0/1291           |
| 45  | 1n    | 0.19         | 0/501           | 0.43        | 0/664            |
| 45  | 2n    | 0.20         | 0/501           | 0.41        | 0/664            |
| 46  | 1o    | 0.19         | 0/739           | 0.38        | 0/985            |
| 46  | 2o    | 0.18         | 0/739           | 0.33        | 0/985            |
| 47  | 1p    | 0.21         | 0/697           | 0.52        | 0/939            |
| 47  | 2p    | 0.19         | 0/693           | 0.43        | 0/935            |
| 48  | 1q    | 0.20         | 0/836           | 0.47        | 0/1117           |
| 48  | 2q    | 0.18         | 0/836           | 0.42        | 0/1117           |
| 49  | 1r    | 0.20         | 0/560           | 0.38        | 0/746            |
| 49  | 2r    | 0.18         | 0/560           | 0.39        | 0/746            |
| 50  | 1s    | 0.20         | 0/667           | 0.50        | 0/900            |
| 50  | 2s    | 0.22         | 0/661           | 0.50        | 0/893            |
| 51  | 1t    | 0.20         | 0/730           | 0.47        | 0/965            |
| 51  | 2t    | 0.20         | 0/729           | 0.47        | 0/965            |
| 52  | 1u    | 0.18         | 0/203           | 0.43        | 0/266            |
| 52  | 2u    | 0.19         | 0/203           | 0.42        | 0/266            |
| 53  | 1v    | 0.23         | 0/310           | 0.40        | 0/480            |
| 53  | 2v    | 0.22         | 0/310           | 0.46        | 0/480            |
| 54  | 1w    | 0.29         | 1/1581 (0.1%)   | 0.41        | 0/2458           |
| 54  | 2w    | 0.30         | 1/1531 (0.1%)   | 0.39        | 0/2379           |
| 55  | 1x    | 0.27         | 1/1723 (0.1%)   | 0.42        | 0/2684           |
| 55  | 2x    | 0.25         | 0/1723          | 0.38        | 0/2684           |
| 56  | 1y    | 0.31         | 2/1606 (0.1%)   | 0.38        | 0/2497           |
| 56  | 2y    | 0.31         | 1/1583 (0.1%)   | 0.40        | 0/2459           |
| All | All   | 0.23         | 7/316632 (0.0%) | 0.42        | 12/474029 (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 |
|-----|-------|---------------------|---------------------|
| 21  | 1Z    | 0                   | 1                   |

The worst 5 of 7 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z    | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|------|-------------|----------|
| 54  | 1w    | 46  | G7M  | O3'-P | 5.64 | 1.61        | 1.56     |
| 54  | 2w    | 46  | G7M  | O3'-P | 5.55 | 1.61        | 1.56     |
| 56  | 1y    | 46  | G7M  | O3'-P | 5.46 | 1.61        | 1.56     |
| 56  | 2y    | 46  | G7M  | O3'-P | 5.31 | 1.61        | 1.56     |
| 55  | 1x    | 8   | 4SU  | O3'-P | 5.22 | 1.61        | 1.56     |

The worst 5 of 12 bond angle outliers are listed below:

| Mol | Chain | Res    | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|--------|------|-------------|-------|-------------|----------|
| 1   | 1A    | 1992   | G    | C2'-C3'-O3' | 6.63  | 119.45      | 109.50   |
| 32  | 2a    | 1272   | G    | N1-C2-N2    | -6.41 | 96.97       | 116.20   |
| 32  | 2a    | 1263   | C    | N1-C2-O2    | 5.80  | 136.31      | 118.90   |
| 32  | 2a    | 1272   | G    | N3-C2-N2    | 5.75  | 137.14      | 119.90   |
| 1   | 2A    | 271(M) | G    | P-O3'-C3'   | 5.32  | 126.08      | 119.70   |

There are no chirality outliers.

All (1) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group   |
|-----|-------|-----|------|---------|
| 21  | 1Z    | 136 | PHE  | Peptide |

## 5.2 Too-close contacts ⓘ

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1   | 1A    | 61853 | 0        | 31183    | 477     | 0            |
| 1   | 2A    | 60323 | 0        | 30412    | 625     | 0            |
| 2   | 1B    | 2577  | 0        | 1305     | 20      | 0            |
| 2   | 2B    | 2575  | 0        | 1303     | 28      | 0            |
| 3   | 1D    | 2136  | 0        | 2218     | 35      | 0            |
| 3   | 2D    | 2136  | 0        | 2218     | 38      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 4   | 1E    | 1559  | 0        | 1618     | 28      | 0            |
| 4   | 2E    | 1559  | 0        | 1618     | 37      | 0            |
| 5   | 1F    | 1583  | 0        | 1625     | 31      | 0            |
| 5   | 2F    | 1579  | 0        | 1619     | 44      | 0            |
| 6   | 1G    | 1423  | 0        | 1436     | 34      | 0            |
| 6   | 2G    | 1428  | 0        | 1438     | 40      | 0            |
| 7   | 1H    | 1330  | 0        | 1407     | 27      | 0            |
| 7   | 2H    | 1330  | 0        | 1407     | 39      | 0            |
| 8   | 1I    | 1097  | 0        | 1140     | 31      | 0            |
| 8   | 2I    | 1064  | 0        | 1082     | 27      | 0            |
| 9   | 1N    | 1117  | 0        | 1184     | 13      | 0            |
| 9   | 2N    | 1117  | 0        | 1184     | 25      | 0            |
| 10  | 1O    | 933   | 0        | 996      | 17      | 0            |
| 10  | 2O    | 933   | 0        | 996      | 15      | 0            |
| 11  | 1P    | 1135  | 0        | 1212     | 22      | 0            |
| 11  | 2P    | 1135  | 0        | 1212     | 22      | 0            |
| 12  | 1Q    | 1122  | 0        | 1179     | 23      | 0            |
| 12  | 2Q    | 1122  | 0        | 1179     | 34      | 0            |
| 13  | 1R    | 968   | 0        | 1033     | 16      | 0            |
| 13  | 2R    | 968   | 0        | 1033     | 26      | 0            |
| 14  | 1S    | 873   | 0        | 927      | 14      | 0            |
| 14  | 2S    | 870   | 0        | 923      | 33      | 0            |
| 15  | 1T    | 1091  | 0        | 1151     | 15      | 0            |
| 15  | 2T    | 1083  | 0        | 1136     | 19      | 0            |
| 16  | 1U    | 959   | 0        | 1019     | 11      | 0            |
| 16  | 2U    | 959   | 0        | 1019     | 10      | 0            |
| 17  | 1V    | 771   | 0        | 830      | 10      | 0            |
| 17  | 2V    | 771   | 0        | 830      | 13      | 0            |
| 18  | 1W    | 886   | 0        | 940      | 5       | 0            |
| 18  | 2W    | 886   | 0        | 940      | 16      | 0            |
| 19  | 1X    | 750   | 0        | 814      | 11      | 0            |
| 19  | 2X    | 750   | 0        | 814      | 16      | 0            |
| 20  | 1Y    | 806   | 0        | 881      | 12      | 0            |
| 20  | 2Y    | 806   | 0        | 881      | 14      | 0            |
| 21  | 1Z    | 1240  | 0        | 1240     | 35      | 0            |
| 21  | 2Z    | 1271  | 0        | 1273     | 63      | 0            |
| 22  | 10    | 653   | 0        | 674      | 9       | 0            |
| 22  | 20    | 653   | 0        | 674      | 9       | 0            |
| 23  | 11    | 755   | 0        | 826      | 6       | 0            |
| 23  | 21    | 755   | 0        | 826      | 12      | 0            |
| 24  | 12    | 588   | 0        | 643      | 7       | 0            |
| 24  | 22    | 588   | 0        | 643      | 15      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 25  | 13    | 469   | 0        | 518      | 5       | 0            |
| 25  | 23    | 464   | 0        | 514      | 10      | 0            |
| 26  | 14    | 552   | 0        | 533      | 25      | 0            |
| 26  | 24    | 532   | 0        | 503      | 27      | 0            |
| 27  | 15    | 455   | 0        | 465      | 4       | 0            |
| 27  | 25    | 455   | 0        | 465      | 6       | 0            |
| 28  | 16    | 453   | 0        | 473      | 7       | 0            |
| 28  | 26    | 449   | 0        | 469      | 8       | 0            |
| 29  | 17    | 418   | 0        | 467      | 5       | 0            |
| 29  | 27    | 418   | 0        | 467      | 8       | 0            |
| 30  | 18    | 517   | 0        | 582      | 11      | 0            |
| 30  | 28    | 517   | 0        | 582      | 9       | 0            |
| 31  | 19    | 307   | 0        | 335      | 4       | 0            |
| 31  | 29    | 307   | 0        | 335      | 9       | 0            |
| 32  | 1a    | 32246 | 0        | 16295    | 373     | 0            |
| 32  | 2a    | 32327 | 0        | 16338    | 376     | 0            |
| 33  | 1b    | 1846  | 0        | 1867     | 65      | 0            |
| 33  | 2b    | 1825  | 0        | 1828     | 64      | 0            |
| 34  | 1c    | 1548  | 0        | 1535     | 32      | 0            |
| 34  | 2c    | 1542  | 0        | 1517     | 37      | 0            |
| 35  | 1d    | 1655  | 0        | 1672     | 43      | 0            |
| 35  | 2d    | 1674  | 0        | 1714     | 40      | 0            |
| 36  | 1e    | 1129  | 0        | 1185     | 33      | 0            |
| 36  | 2e    | 1133  | 0        | 1191     | 42      | 0            |
| 37  | 1f    | 810   | 0        | 804      | 16      | 0            |
| 37  | 2f    | 816   | 0        | 808      | 13      | 0            |
| 38  | 1g    | 1231  | 0        | 1238     | 27      | 0            |
| 38  | 2g    | 1235  | 0        | 1249     | 20      | 0            |
| 39  | 1h    | 1088  | 0        | 1126     | 18      | 0            |
| 39  | 2h    | 1088  | 0        | 1126     | 21      | 0            |
| 40  | 1i    | 983   | 0        | 986      | 36      | 0            |
| 40  | 2i    | 978   | 0        | 966      | 40      | 0            |
| 41  | 1j    | 709   | 0        | 650      | 19      | 0            |
| 41  | 2j    | 714   | 0        | 672      | 30      | 0            |
| 42  | 1k    | 829   | 0        | 825      | 17      | 0            |
| 42  | 2k    | 833   | 0        | 836      | 9       | 0            |
| 43  | 1l    | 932   | 0        | 981      | 13      | 0            |
| 43  | 2l    | 932   | 0        | 981      | 14      | 0            |
| 44  | 1m    | 958   | 0        | 1002     | 28      | 0            |
| 44  | 2m    | 950   | 0        | 988      | 48      | 0            |
| 45  | 1n    | 492   | 0        | 529      | 12      | 0            |
| 45  | 2n    | 492   | 0        | 529      | 16      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 46  | 1o    | 728   | 0        | 760      | 13      | 0            |
| 46  | 2o    | 728   | 0        | 760      | 14      | 0            |
| 47  | 1p    | 681   | 0        | 697      | 18      | 0            |
| 47  | 2p    | 677   | 0        | 686      | 16      | 0            |
| 48  | 1q    | 823   | 0        | 891      | 17      | 0            |
| 48  | 2q    | 823   | 0        | 891      | 10      | 0            |
| 49  | 1r    | 555   | 0        | 618      | 11      | 0            |
| 49  | 2r    | 555   | 0        | 618      | 10      | 0            |
| 50  | 1s    | 652   | 0        | 662      | 24      | 0            |
| 50  | 2s    | 646   | 0        | 644      | 25      | 0            |
| 51  | 1t    | 728   | 0        | 798      | 21      | 0            |
| 51  | 2t    | 727   | 0        | 796      | 13      | 0            |
| 52  | 1u    | 199   | 0        | 208      | 5       | 0            |
| 52  | 2u    | 199   | 0        | 208      | 7       | 0            |
| 53  | 1v    | 277   | 0        | 140      | 2       | 0            |
| 53  | 2v    | 277   | 0        | 140      | 3       | 0            |
| 54  | 1w    | 1603  | 0        | 828      | 21      | 0            |
| 54  | 2w    | 1555  | 0        | 797      | 20      | 0            |
| 55  | 1x    | 1656  | 0        | 849      | 7       | 0            |
| 55  | 2x    | 1656  | 0        | 849      | 16      | 0            |
| 56  | 1y    | 1585  | 0        | 803      | 26      | 0            |
| 56  | 2y    | 1565  | 0        | 794      | 34      | 0            |
| 57  | 10    | 7     | 0        | 0        | 0       | 0            |
| 57  | 11    | 6     | 0        | 0        | 0       | 0            |
| 57  | 12    | 2     | 0        | 0        | 0       | 0            |
| 57  | 13    | 3     | 0        | 0        | 0       | 0            |
| 57  | 14    | 1     | 0        | 0        | 0       | 0            |
| 57  | 15    | 8     | 0        | 0        | 0       | 0            |
| 57  | 16    | 2     | 0        | 0        | 0       | 0            |
| 57  | 17    | 6     | 0        | 0        | 0       | 0            |
| 57  | 18    | 5     | 0        | 0        | 0       | 0            |
| 57  | 19    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1A    | 1113  | 0        | 0        | 0       | 0            |
| 57  | 1B    | 38    | 0        | 0        | 0       | 0            |
| 57  | 1D    | 12    | 0        | 0        | 0       | 0            |
| 57  | 1E    | 14    | 0        | 0        | 0       | 0            |
| 57  | 1F    | 13    | 0        | 0        | 0       | 0            |
| 57  | 1G    | 5     | 0        | 0        | 0       | 0            |
| 57  | 1H    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1N    | 6     | 0        | 0        | 0       | 0            |
| 57  | 1O    | 4     | 0        | 0        | 0       | 0            |
| 57  | 1P    | 5     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 57  | 1Q    | 7     | 0        | 0        | 0       | 0            |
| 57  | 1R    | 6     | 0        | 0        | 0       | 0            |
| 57  | 1S    | 3     | 0        | 0        | 0       | 0            |
| 57  | 1T    | 3     | 0        | 0        | 0       | 0            |
| 57  | 1U    | 6     | 0        | 0        | 0       | 0            |
| 57  | 1V    | 7     | 0        | 0        | 0       | 0            |
| 57  | 1W    | 6     | 0        | 0        | 0       | 0            |
| 57  | 1X    | 7     | 0        | 0        | 0       | 0            |
| 57  | 1Y    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1Z    | 3     | 0        | 0        | 0       | 0            |
| 57  | 1a    | 220   | 0        | 0        | 0       | 0            |
| 57  | 1b    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1d    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1e    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1f    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1l    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1m    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1n    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1p    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1q    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1t    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1v    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1w    | 9     | 0        | 0        | 0       | 0            |
| 57  | 1x    | 14    | 0        | 0        | 0       | 0            |
| 57  | 20    | 2     | 0        | 0        | 0       | 0            |
| 57  | 21    | 3     | 0        | 0        | 0       | 0            |
| 57  | 23    | 2     | 0        | 0        | 0       | 0            |
| 57  | 25    | 3     | 0        | 0        | 0       | 0            |
| 57  | 27    | 2     | 0        | 0        | 0       | 0            |
| 57  | 28    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2A    | 804   | 0        | 0        | 0       | 0            |
| 57  | 2B    | 16    | 0        | 0        | 0       | 0            |
| 57  | 2D    | 6     | 0        | 0        | 0       | 0            |
| 57  | 2E    | 7     | 0        | 0        | 0       | 0            |
| 57  | 2F    | 6     | 0        | 0        | 0       | 0            |
| 57  | 2G    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2O    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2P    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2Q    | 4     | 0        | 0        | 0       | 0            |
| 57  | 2R    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2T    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2U    | 3     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 57  | 2V    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2W    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2X    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2Z    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2a    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2w    | 6     | 0        | 0        | 0       | 0            |
| 57  | 2x    | 7     | 0        | 0        | 0       | 0            |
| 57  | 2y    | 7     | 0        | 0        | 0       | 0            |
| 58  | 1A    | 1     | 0        | 0        | 0       | 0            |
| 58  | 2A    | 1     | 0        | 0        | 0       | 0            |
| 59  | 14    | 1     | 0        | 0        | 0       | 0            |
| 59  | 15    | 1     | 0        | 0        | 0       | 0            |
| 59  | 16    | 1     | 0        | 0        | 0       | 0            |
| 59  | 19    | 1     | 0        | 0        | 0       | 0            |
| 59  | 1Y    | 1     | 0        | 0        | 0       | 0            |
| 59  | 1n    | 1     | 0        | 0        | 0       | 0            |
| 59  | 24    | 1     | 0        | 0        | 0       | 0            |
| 59  | 25    | 1     | 0        | 0        | 0       | 0            |
| 59  | 26    | 1     | 0        | 0        | 0       | 0            |
| 59  | 29    | 1     | 0        | 0        | 0       | 0            |
| 59  | 2Y    | 1     | 0        | 0        | 0       | 0            |
| 59  | 2n    | 1     | 0        | 0        | 0       | 0            |
| 60  | 1d    | 8     | 0        | 0        | 0       | 0            |
| 60  | 2d    | 8     | 0        | 0        | 0       | 0            |
| 61  | 10    | 12    | 0        | 0        | 1       | 0            |
| 61  | 11    | 7     | 0        | 0        | 0       | 0            |
| 61  | 12    | 4     | 0        | 0        | 0       | 0            |
| 61  | 13    | 4     | 0        | 0        | 0       | 0            |
| 61  | 14    | 1     | 0        | 0        | 0       | 0            |
| 61  | 15    | 10    | 0        | 0        | 0       | 0            |
| 61  | 16    | 5     | 0        | 0        | 0       | 0            |
| 61  | 17    | 10    | 0        | 0        | 1       | 0            |
| 61  | 18    | 10    | 0        | 0        | 0       | 0            |
| 61  | 1A    | 2067  | 0        | 0        | 62      | 0            |
| 61  | 1B    | 61    | 0        | 0        | 2       | 0            |
| 61  | 1D    | 32    | 0        | 0        | 1       | 0            |
| 61  | 1E    | 26    | 0        | 0        | 1       | 0            |
| 61  | 1F    | 20    | 0        | 0        | 1       | 0            |
| 61  | 1G    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1H    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1N    | 6     | 0        | 0        | 0       | 0            |
| 61  | 1O    | 6     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 61  | 1P    | 21    | 0        | 0        | 2       | 0            |
| 61  | 1Q    | 7     | 0        | 0        | 0       | 0            |
| 61  | 1R    | 7     | 0        | 0        | 1       | 0            |
| 61  | 1S    | 5     | 0        | 0        | 1       | 0            |
| 61  | 1T    | 9     | 0        | 0        | 0       | 0            |
| 61  | 1U    | 14    | 0        | 0        | 1       | 0            |
| 61  | 1V    | 7     | 0        | 0        | 0       | 0            |
| 61  | 1W    | 6     | 0        | 0        | 1       | 0            |
| 61  | 1X    | 5     | 0        | 0        | 0       | 0            |
| 61  | 1Y    | 3     | 0        | 0        | 0       | 0            |
| 61  | 1Z    | 1     | 0        | 0        | 1       | 0            |
| 61  | 1a    | 425   | 0        | 0        | 25      | 0            |
| 61  | 1b    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1f    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1i    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1l    | 8     | 0        | 0        | 0       | 0            |
| 61  | 1m    | 2     | 0        | 0        | 1       | 0            |
| 61  | 1n    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1o    | 3     | 0        | 0        | 0       | 0            |
| 61  | 1p    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1q    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1r    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1u    | 2     | 0        | 0        | 1       | 0            |
| 61  | 1v    | 4     | 0        | 0        | 0       | 0            |
| 61  | 1w    | 12    | 0        | 0        | 1       | 0            |
| 61  | 1x    | 17    | 0        | 0        | 0       | 0            |
| 61  | 1y    | 1     | 0        | 0        | 0       | 0            |
| 61  | 20    | 1     | 0        | 0        | 0       | 0            |
| 61  | 21    | 6     | 0        | 0        | 0       | 0            |
| 61  | 23    | 2     | 0        | 0        | 0       | 0            |
| 61  | 27    | 5     | 0        | 0        | 0       | 0            |
| 61  | 28    | 4     | 0        | 0        | 1       | 0            |
| 61  | 29    | 1     | 0        | 0        | 0       | 0            |
| 61  | 2A    | 1094  | 0        | 0        | 79      | 0            |
| 61  | 2B    | 18    | 0        | 0        | 0       | 0            |
| 61  | 2D    | 22    | 0        | 0        | 0       | 0            |
| 61  | 2E    | 9     | 0        | 0        | 0       | 0            |
| 61  | 2F    | 11    | 0        | 0        | 0       | 0            |
| 61  | 2I    | 3     | 0        | 0        | 0       | 0            |
| 61  | 2N    | 1     | 0        | 0        | 0       | 0            |
| 61  | 2O    | 1     | 0        | 0        | 0       | 0            |
| 61  | 2P    | 9     | 0        | 0        | 1       | 0            |

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| Mol | Chain | Non-H  | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 61  | 2Q    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2R    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2T    | 5      | 0        | 0        | 0       | 0            |
| 61  | 2U    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2W    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2X    | 2      | 0        | 0        | 0       | 0            |
| 61  | 2w    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2x    | 6      | 0        | 0        | 1       | 0            |
| 61  | 2y    | 2      | 0        | 0        | 0       | 0            |
| All | All   | 299618 | 0        | 196724   | 3553    | 0            |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

The worst 5 of 3553 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1           | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|-------------------|--------------------------|-------------------|
| 1:1A:1082:U:H3   | 1:1A:1086:A:N6    | 1.19                     | 1.40              |
| 1:1A:1082:U:N3   | 1:1A:1086:A:N6    | 2.05                     | 1.05              |
| 1:1A:1082:U:O4   | 1:1A:1086:A:N1    | 1.94                     | 1.00              |
| 1:1A:1798:U:H5'  | 3:1D:259:THR:HG22 | 1.50                     | 0.93              |
| 26:14:57:GLU:HB3 | 26:14:58:ARG:HD2  | 1.53                     | 0.91              |

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

| Mol | Chain | Analysed      | Favoured  | Allowed | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|---------|----------|-------------|-----|
| 3   | 1D    | 273/276 (99%) | 256 (94%) | 17 (6%) | 0        | 100         | 100 |
| 3   | 2D    | 273/276 (99%) | 259 (95%) | 14 (5%) | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 4   | 1E    | 202/206 (98%) | 193 (96%) | 8 (4%)   | 1 (0%)   | 24          | 34  |
| 4   | 2E    | 202/206 (98%) | 187 (93%) | 14 (7%)  | 1 (0%)   | 24          | 34  |
| 5   | 1F    | 200/210 (95%) | 195 (98%) | 4 (2%)   | 1 (0%)   | 24          | 34  |
| 5   | 2F    | 200/210 (95%) | 188 (94%) | 11 (6%)  | 1 (0%)   | 24          | 34  |
| 6   | 1G    | 179/182 (98%) | 168 (94%) | 10 (6%)  | 1 (1%)   | 21          | 29  |
| 6   | 2G    | 179/182 (98%) | 157 (88%) | 19 (11%) | 3 (2%)   | 7           | 8   |
| 7   | 1H    | 172/180 (96%) | 159 (92%) | 12 (7%)  | 1 (1%)   | 21          | 29  |
| 7   | 2H    | 172/180 (96%) | 158 (92%) | 13 (8%)  | 1 (1%)   | 21          | 29  |
| 8   | 1I    | 144/148 (97%) | 128 (89%) | 16 (11%) | 0        | 100         | 100 |
| 8   | 2I    | 144/148 (97%) | 128 (89%) | 14 (10%) | 2 (1%)   | 9           | 11  |
| 9   | 1N    | 138/140 (99%) | 133 (96%) | 5 (4%)   | 0        | 100         | 100 |
| 9   | 2N    | 138/140 (99%) | 125 (91%) | 12 (9%)  | 1 (1%)   | 18          | 25  |
| 10  | 1O    | 120/122 (98%) | 114 (95%) | 6 (5%)   | 0        | 100         | 100 |
| 10  | 2O    | 120/122 (98%) | 112 (93%) | 7 (6%)   | 1 (1%)   | 16          | 22  |
| 11  | 1P    | 147/150 (98%) | 132 (90%) | 10 (7%)  | 5 (3%)   | 3           | 1   |
| 11  | 2P    | 147/150 (98%) | 132 (90%) | 11 (8%)  | 4 (3%)   | 4           | 3   |
| 12  | 1Q    | 139/141 (99%) | 134 (96%) | 3 (2%)   | 2 (1%)   | 9           | 11  |
| 12  | 2Q    | 139/141 (99%) | 129 (93%) | 9 (6%)   | 1 (1%)   | 18          | 25  |
| 13  | 1R    | 116/118 (98%) | 112 (97%) | 4 (3%)   | 0        | 100         | 100 |
| 13  | 2R    | 116/118 (98%) | 110 (95%) | 6 (5%)   | 0        | 100         | 100 |
| 14  | 1S    | 108/112 (96%) | 103 (95%) | 5 (5%)   | 0        | 100         | 100 |
| 14  | 2S    | 108/112 (96%) | 100 (93%) | 7 (6%)   | 1 (1%)   | 14          | 20  |
| 15  | 1T    | 129/146 (88%) | 120 (93%) | 9 (7%)   | 0        | 100         | 100 |
| 15  | 2T    | 129/146 (88%) | 122 (95%) | 7 (5%)   | 0        | 100         | 100 |
| 16  | 1U    | 114/118 (97%) | 113 (99%) | 1 (1%)   | 0        | 100         | 100 |
| 16  | 2U    | 114/118 (97%) | 112 (98%) | 2 (2%)   | 0        | 100         | 100 |
| 17  | 1V    | 99/101 (98%)  | 92 (93%)  | 4 (4%)   | 3 (3%)   | 3           | 2   |
| 17  | 2V    | 99/101 (98%)  | 88 (89%)  | 10 (10%) | 1 (1%)   | 12          | 17  |
| 18  | 1W    | 110/113 (97%) | 108 (98%) | 2 (2%)   | 0        | 100         | 100 |
| 18  | 2W    | 110/113 (97%) | 108 (98%) | 2 (2%)   | 0        | 100         | 100 |
| 19  | 1X    | 93/96 (97%)   | 88 (95%)  | 4 (4%)   | 1 (1%)   | 11          | 15  |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 19  | 2X    | 93/96 (97%)   | 89 (96%)  | 3 (3%)   | 1 (1%)   | 11          | 15  |
| 20  | 1Y    | 105/110 (96%) | 99 (94%)  | 5 (5%)   | 1 (1%)   | 12          | 17  |
| 20  | 2Y    | 105/110 (96%) | 96 (91%)  | 7 (7%)   | 2 (2%)   | 6           | 7   |
| 21  | 1Z    | 148/206 (72%) | 132 (89%) | 14 (10%) | 2 (1%)   | 9           | 11  |
| 21  | 2Z    | 156/206 (76%) | 124 (80%) | 25 (16%) | 7 (4%)   | 2           | 1   |
| 22  | 10    | 81/85 (95%)   | 80 (99%)  | 1 (1%)   | 0        | 100         | 100 |
| 22  | 20    | 81/85 (95%)   | 78 (96%)  | 3 (4%)   | 0        | 100         | 100 |
| 23  | 11    | 95/98 (97%)   | 93 (98%)  | 1 (1%)   | 1 (1%)   | 11          | 15  |
| 23  | 21    | 95/98 (97%)   | 92 (97%)  | 3 (3%)   | 0        | 100         | 100 |
| 24  | 12    | 68/72 (94%)   | 65 (96%)  | 3 (4%)   | 0        | 100         | 100 |
| 24  | 22    | 68/72 (94%)   | 68 (100%) | 0        | 0        | 100         | 100 |
| 25  | 13    | 57/60 (95%)   | 55 (96%)  | 2 (4%)   | 0        | 100         | 100 |
| 25  | 23    | 57/60 (95%)   | 52 (91%)  | 5 (9%)   | 0        | 100         | 100 |
| 26  | 14    | 67/71 (94%)   | 54 (81%)  | 6 (9%)   | 7 (10%)  | 0           | 0   |
| 26  | 24    | 67/71 (94%)   | 50 (75%)  | 14 (21%) | 3 (4%)   | 2           | 1   |
| 27  | 15    | 57/60 (95%)   | 55 (96%)  | 2 (4%)   | 0        | 100         | 100 |
| 27  | 25    | 57/60 (95%)   | 54 (95%)  | 3 (5%)   | 0        | 100         | 100 |
| 28  | 16    | 51/54 (94%)   | 49 (96%)  | 2 (4%)   | 0        | 100         | 100 |
| 28  | 26    | 51/54 (94%)   | 48 (94%)  | 3 (6%)   | 0        | 100         | 100 |
| 29  | 17    | 46/49 (94%)   | 46 (100%) | 0        | 0        | 100         | 100 |
| 29  | 27    | 46/49 (94%)   | 46 (100%) | 0        | 0        | 100         | 100 |
| 30  | 18    | 62/65 (95%)   | 62 (100%) | 0        | 0        | 100         | 100 |
| 30  | 28    | 62/65 (95%)   | 60 (97%)  | 2 (3%)   | 0        | 100         | 100 |
| 31  | 19    | 35/37 (95%)   | 35 (100%) | 0        | 0        | 100         | 100 |
| 31  | 29    | 35/37 (95%)   | 35 (100%) | 0        | 0        | 100         | 100 |
| 33  | 1b    | 229/256 (90%) | 197 (86%) | 26 (11%) | 6 (3%)   | 4           | 3   |
| 33  | 2b    | 229/256 (90%) | 185 (81%) | 37 (16%) | 7 (3%)   | 3           | 2   |
| 34  | 1c    | 204/239 (85%) | 188 (92%) | 15 (7%)  | 1 (0%)   | 24          | 34  |
| 34  | 2c    | 204/239 (85%) | 185 (91%) | 18 (9%)  | 1 (0%)   | 24          | 34  |
| 35  | 1d    | 206/209 (99%) | 193 (94%) | 9 (4%)   | 4 (2%)   | 6           | 7   |
| 35  | 2d    | 206/209 (99%) | 197 (96%) | 9 (4%)   | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 36  | 1e    | 146/162 (90%) | 131 (90%) | 13 (9%)  | 2 (1%)   | 9           | 11  |
| 36  | 2e    | 146/162 (90%) | 134 (92%) | 10 (7%)  | 2 (1%)   | 9           | 11  |
| 37  | 1f    | 98/101 (97%)  | 92 (94%)  | 6 (6%)   | 0        | 100         | 100 |
| 37  | 2f    | 98/101 (97%)  | 95 (97%)  | 3 (3%)   | 0        | 100         | 100 |
| 38  | 1g    | 153/156 (98%) | 147 (96%) | 5 (3%)   | 1 (1%)   | 18          | 25  |
| 38  | 2g    | 153/156 (98%) | 140 (92%) | 12 (8%)  | 1 (1%)   | 18          | 25  |
| 39  | 1h    | 135/138 (98%) | 127 (94%) | 7 (5%)   | 1 (1%)   | 18          | 25  |
| 39  | 2h    | 135/138 (98%) | 128 (95%) | 7 (5%)   | 0        | 100         | 100 |
| 40  | 1i    | 125/128 (98%) | 110 (88%) | 12 (10%) | 3 (2%)   | 4           | 4   |
| 40  | 2i    | 125/128 (98%) | 110 (88%) | 14 (11%) | 1 (1%)   | 16          | 22  |
| 41  | 1j    | 95/105 (90%)  | 84 (88%)  | 9 (10%)  | 2 (2%)   | 5           | 5   |
| 41  | 2j    | 94/105 (90%)  | 79 (84%)  | 12 (13%) | 3 (3%)   | 3           | 2   |
| 42  | 1k    | 112/129 (87%) | 98 (88%)  | 13 (12%) | 1 (1%)   | 14          | 20  |
| 42  | 2k    | 112/129 (87%) | 100 (89%) | 11 (10%) | 1 (1%)   | 14          | 20  |
| 43  | 1l    | 119/132 (90%) | 114 (96%) | 5 (4%)   | 0        | 100         | 100 |
| 43  | 2l    | 119/132 (90%) | 111 (93%) | 8 (7%)   | 0        | 100         | 100 |
| 44  | 1m    | 121/126 (96%) | 108 (89%) | 10 (8%)  | 3 (2%)   | 4           | 4   |
| 44  | 2m    | 120/126 (95%) | 109 (91%) | 9 (8%)   | 2 (2%)   | 7           | 8   |
| 45  | 1n    | 58/61 (95%)   | 55 (95%)  | 3 (5%)   | 0        | 100         | 100 |
| 45  | 2n    | 58/61 (95%)   | 54 (93%)  | 4 (7%)   | 0        | 100         | 100 |
| 46  | 1o    | 86/89 (97%)   | 82 (95%)  | 3 (4%)   | 1 (1%)   | 10          | 13  |
| 46  | 2o    | 86/89 (97%)   | 83 (96%)  | 3 (4%)   | 0        | 100         | 100 |
| 47  | 1p    | 80/88 (91%)   | 71 (89%)  | 9 (11%)  | 0        | 100         | 100 |
| 47  | 2p    | 80/88 (91%)   | 76 (95%)  | 4 (5%)   | 0        | 100         | 100 |
| 48  | 1q    | 97/105 (92%)  | 89 (92%)  | 6 (6%)   | 2 (2%)   | 5           | 5   |
| 48  | 2q    | 97/105 (92%)  | 90 (93%)  | 5 (5%)   | 2 (2%)   | 5           | 5   |
| 49  | 1r    | 66/88 (75%)   | 62 (94%)  | 4 (6%)   | 0        | 100         | 100 |
| 49  | 2r    | 66/88 (75%)   | 65 (98%)  | 1 (2%)   | 0        | 100         | 100 |
| 50  | 1s    | 81/93 (87%)   | 71 (88%)  | 9 (11%)  | 1 (1%)   | 10          | 13  |
| 50  | 2s    | 81/93 (87%)   | 71 (88%)  | 10 (12%) | 0        | 100         | 100 |
| 51  | 1t    | 94/106 (89%)  | 87 (93%)  | 5 (5%)   | 2 (2%)   | 5           | 5   |

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| Mol | Chain | Analysed          | Favoured    | Allowed  | Outliers | Percentiles |     |
|-----|-------|-------------------|-------------|----------|----------|-------------|-----|
| 51  | 2t    | 94/106 (89%)      | 86 (92%)    | 6 (6%)   | 2 (2%)   | 5           | 5   |
| 52  | 1u    | 21/27 (78%)       | 20 (95%)    | 1 (5%)   | 0        | 100         | 100 |
| 52  | 2u    | 21/27 (78%)       | 19 (90%)    | 2 (10%)  | 0        | 100         | 100 |
| All | All   | 11368/12128 (94%) | 10523 (93%) | 737 (6%) | 108 (1%) | 12          | 17  |

5 of 108 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 5   | 1F    | 130 | ALA  |
| 11  | 1P    | 29  | LYS  |
| 11  | 1P    | 38  | GLN  |
| 11  | 1P    | 44  | GLY  |
| 17  | 1V    | 79  | VAL  |

### 5.3.2 Protein sidechains ⓘ

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

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

| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|----------|-------------|----|
| 3   | 1D    | 215/218 (99%) | 206 (96%) | 9 (4%)   | 26          | 40 |
| 3   | 2D    | 215/218 (99%) | 203 (94%) | 12 (6%)  | 19          | 29 |
| 4   | 1E    | 164/166 (99%) | 153 (93%) | 11 (7%)  | 15          | 21 |
| 4   | 2E    | 164/166 (99%) | 155 (94%) | 9 (6%)   | 19          | 29 |
| 5   | 1F    | 160/166 (96%) | 143 (89%) | 17 (11%) | 6           | 7  |
| 5   | 2F    | 159/166 (96%) | 144 (91%) | 15 (9%)  | 8           | 10 |
| 6   | 1G    | 143/156 (92%) | 128 (90%) | 15 (10%) | 6           | 8  |
| 6   | 2G    | 143/156 (92%) | 131 (92%) | 12 (8%)  | 10          | 14 |
| 7   | 1H    | 144/148 (97%) | 132 (92%) | 12 (8%)  | 10          | 14 |
| 7   | 2H    | 144/148 (97%) | 128 (89%) | 16 (11%) | 6           | 6  |
| 8   | 1I    | 113/124 (91%) | 96 (85%)  | 17 (15%) | 3           | 2  |
| 8   | 2I    | 105/124 (85%) | 96 (91%)  | 9 (9%)   | 10          | 13 |
| 9   | 1N    | 118/119 (99%) | 109 (92%) | 9 (8%)   | 12          | 17 |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 9   | 2N    | 118/119 (99%)  | 110 (93%) | 8 (7%)   | 14          | 20 |
| 10  | 1O    | 100/100 (100%) | 99 (99%)  | 1 (1%)   | 68          | 80 |
| 10  | 2O    | 100/100 (100%) | 93 (93%)  | 7 (7%)   | 14          | 19 |
| 11  | 1P    | 115/116 (99%)  | 108 (94%) | 7 (6%)   | 17          | 25 |
| 11  | 2P    | 115/116 (99%)  | 106 (92%) | 9 (8%)   | 11          | 16 |
| 12  | 1Q    | 111/111 (100%) | 108 (97%) | 3 (3%)   | 39          | 58 |
| 12  | 2Q    | 111/111 (100%) | 106 (96%) | 5 (4%)   | 24          | 38 |
| 13  | 1R    | 101/101 (100%) | 96 (95%)  | 5 (5%)   | 22          | 33 |
| 13  | 2R    | 101/101 (100%) | 97 (96%)  | 4 (4%)   | 28          | 42 |
| 14  | 1S    | 86/88 (98%)    | 81 (94%)  | 5 (6%)   | 18          | 27 |
| 14  | 2S    | 85/88 (97%)    | 80 (94%)  | 5 (6%)   | 18          | 27 |
| 15  | 1T    | 115/127 (91%)  | 109 (95%) | 6 (5%)   | 21          | 32 |
| 15  | 2T    | 113/127 (89%)  | 104 (92%) | 9 (8%)   | 11          | 15 |
| 16  | 1U    | 93/94 (99%)    | 89 (96%)  | 4 (4%)   | 26          | 39 |
| 16  | 2U    | 93/94 (99%)    | 88 (95%)  | 5 (5%)   | 20          | 30 |
| 17  | 1V    | 80/82 (98%)    | 78 (98%)  | 2 (2%)   | 42          | 60 |
| 17  | 2V    | 80/82 (98%)    | 74 (92%)  | 6 (8%)   | 12          | 17 |
| 18  | 1W    | 90/92 (98%)    | 86 (96%)  | 4 (4%)   | 25          | 38 |
| 18  | 2W    | 90/92 (98%)    | 87 (97%)  | 3 (3%)   | 33          | 50 |
| 19  | 1X    | 77/78 (99%)    | 73 (95%)  | 4 (5%)   | 21          | 32 |
| 19  | 2X    | 77/78 (99%)    | 75 (97%)  | 2 (3%)   | 40          | 59 |
| 20  | 1Y    | 85/91 (93%)    | 73 (86%)  | 12 (14%) | 3           | 3  |
| 20  | 2Y    | 85/91 (93%)    | 75 (88%)  | 10 (12%) | 5           | 5  |
| 21  | 1Z    | 135/179 (75%)  | 124 (92%) | 11 (8%)  | 11          | 15 |
| 21  | 2Z    | 137/179 (76%)  | 116 (85%) | 21 (15%) | 3           | 2  |
| 22  | 10    | 65/67 (97%)    | 63 (97%)  | 2 (3%)   | 35          | 53 |
| 22  | 20    | 65/67 (97%)    | 63 (97%)  | 2 (3%)   | 35          | 53 |
| 23  | 11    | 80/83 (96%)    | 78 (98%)  | 2 (2%)   | 42          | 60 |
| 23  | 21    | 80/83 (96%)    | 74 (92%)  | 6 (8%)   | 12          | 17 |
| 24  | 12    | 65/67 (97%)    | 64 (98%)  | 1 (2%)   | 57          | 74 |
| 24  | 22    | 65/67 (97%)    | 63 (97%)  | 2 (3%)   | 35          | 53 |

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| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|-------------|-----|
| 25  | 13    | 51/52 (98%)   | 45 (88%)  | 6 (12%)  | 5           | 5   |
| 25  | 23    | 50/52 (96%)   | 44 (88%)  | 6 (12%)  | 5           | 5   |
| 26  | 14    | 59/63 (94%)   | 51 (86%)  | 8 (14%)  | 3           | 3   |
| 26  | 24    | 53/63 (84%)   | 45 (85%)  | 8 (15%)  | 3           | 2   |
| 27  | 15    | 50/52 (96%)   | 48 (96%)  | 2 (4%)   | 28          | 42  |
| 27  | 25    | 50/52 (96%)   | 48 (96%)  | 2 (4%)   | 28          | 42  |
| 28  | 16    | 51/52 (98%)   | 45 (88%)  | 6 (12%)  | 5           | 5   |
| 28  | 26    | 50/52 (96%)   | 47 (94%)  | 3 (6%)   | 17          | 26  |
| 29  | 17    | 41/42 (98%)   | 37 (90%)  | 4 (10%)  | 7           | 9   |
| 29  | 27    | 41/42 (98%)   | 36 (88%)  | 5 (12%)  | 5           | 4   |
| 30  | 18    | 54/55 (98%)   | 52 (96%)  | 2 (4%)   | 30          | 45  |
| 30  | 28    | 54/55 (98%)   | 51 (94%)  | 3 (6%)   | 19          | 29  |
| 31  | 19    | 34/34 (100%)  | 34 (100%) | 0        | 100         | 100 |
| 31  | 29    | 34/34 (100%)  | 33 (97%)  | 1 (3%)   | 37          | 55  |
| 33  | 1b    | 192/220 (87%) | 170 (88%) | 22 (12%) | 5           | 6   |
| 33  | 2b    | 187/220 (85%) | 148 (79%) | 39 (21%) | 1           | 1   |
| 34  | 1c    | 142/188 (76%) | 127 (89%) | 15 (11%) | 6           | 7   |
| 34  | 2c    | 140/188 (74%) | 125 (89%) | 15 (11%) | 6           | 7   |
| 35  | 1d    | 169/181 (93%) | 159 (94%) | 10 (6%)  | 18          | 27  |
| 35  | 2d    | 173/181 (96%) | 151 (87%) | 22 (13%) | 4           | 4   |
| 36  | 1e    | 113/123 (92%) | 106 (94%) | 7 (6%)   | 16          | 24  |
| 36  | 2e    | 114/123 (93%) | 106 (93%) | 8 (7%)   | 14          | 19  |
| 37  | 1f    | 84/90 (93%)   | 75 (89%)  | 9 (11%)  | 6           | 7   |
| 37  | 2f    | 85/90 (94%)   | 81 (95%)  | 4 (5%)   | 23          | 36  |
| 38  | 1g    | 119/127 (94%) | 105 (88%) | 14 (12%) | 5           | 5   |
| 38  | 2g    | 120/127 (94%) | 107 (89%) | 13 (11%) | 6           | 7   |
| 39  | 1h    | 114/119 (96%) | 107 (94%) | 7 (6%)   | 17          | 25  |
| 39  | 2h    | 114/119 (96%) | 105 (92%) | 9 (8%)   | 11          | 16  |
| 40  | 1i    | 90/99 (91%)   | 77 (86%)  | 13 (14%) | 3           | 2   |
| 40  | 2i    | 89/99 (90%)   | 79 (89%)  | 10 (11%) | 6           | 6   |
| 41  | 1j    | 66/92 (72%)   | 57 (86%)  | 9 (14%)  | 3           | 3   |

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| Mol | Chain | Analysed         | Rotameric  | Outliers | Percentiles |     |
|-----|-------|------------------|------------|----------|-------------|-----|
| 41  | 2j    | 69/92 (75%)      | 57 (83%)   | 12 (17%) | 2           | 1   |
| 42  | 1k    | 82/99 (83%)      | 77 (94%)   | 5 (6%)   | 17          | 25  |
| 42  | 2k    | 83/99 (84%)      | 77 (93%)   | 6 (7%)   | 13          | 18  |
| 43  | 1l    | 96/108 (89%)     | 88 (92%)   | 8 (8%)   | 10          | 14  |
| 43  | 2l    | 96/108 (89%)     | 92 (96%)   | 4 (4%)   | 26          | 40  |
| 44  | 1m    | 93/101 (92%)     | 83 (89%)   | 10 (11%) | 6           | 7   |
| 44  | 2m    | 92/101 (91%)     | 81 (88%)   | 11 (12%) | 5           | 5   |
| 45  | 1n    | 49/50 (98%)      | 43 (88%)   | 6 (12%)  | 5           | 4   |
| 45  | 2n    | 49/50 (98%)      | 44 (90%)   | 5 (10%)  | 7           | 8   |
| 46  | 1o    | 78/80 (98%)      | 76 (97%)   | 2 (3%)   | 40          | 59  |
| 46  | 2o    | 78/80 (98%)      | 73 (94%)   | 5 (6%)   | 16          | 23  |
| 47  | 1p    | 69/74 (93%)      | 64 (93%)   | 5 (7%)   | 13          | 18  |
| 47  | 2p    | 68/74 (92%)      | 64 (94%)   | 4 (6%)   | 18          | 27  |
| 48  | 1q    | 94/97 (97%)      | 88 (94%)   | 6 (6%)   | 16          | 23  |
| 48  | 2q    | 94/97 (97%)      | 89 (95%)   | 5 (5%)   | 20          | 31  |
| 49  | 1r    | 59/77 (77%)      | 55 (93%)   | 4 (7%)   | 14          | 20  |
| 49  | 2r    | 59/77 (77%)      | 56 (95%)   | 3 (5%)   | 21          | 33  |
| 50  | 1s    | 69/80 (86%)      | 63 (91%)   | 6 (9%)   | 9           | 13  |
| 50  | 2s    | 67/80 (84%)      | 61 (91%)   | 6 (9%)   | 9           | 11  |
| 51  | 1t    | 70/82 (85%)      | 67 (96%)   | 3 (4%)   | 26          | 39  |
| 51  | 2t    | 70/82 (85%)      | 70 (100%)  | 0        | 100         | 100 |
| 52  | 1u    | 18/22 (82%)      | 18 (100%)  | 0        | 100         | 100 |
| 52  | 2u    | 18/22 (82%)      | 18 (100%)  | 0        | 100         | 100 |
| All | All   | 9303/10064 (92%) | 8569 (92%) | 734 (8%) | 11          | 16  |

5 of 734 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 15  | 2T    | 72  | VAL  |
| 33  | 2b    | 107 | THR  |
| 17  | 2V    | 61  | VAL  |
| 15  | 2T    | 63  | VAL  |
| 23  | 2I    | 78  | LYS  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 133 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 38  | 2g    | 148 | ASN  |
| 41  | 2j    | 33  | GLN  |
| 51  | 2t    | 9   | ASN  |
| 42  | 1k    | 116 | HIS  |
| 42  | 1k    | 99  | GLN  |

### 5.3.3 RNA ⓘ

| Mol | Chain | Analysed        | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1   | 1A    | 2864/2915 (98%) | 416 (14%)         | 31 (1%)         |
| 1   | 2A    | 2791/2915 (95%) | 458 (16%)         | 25 (0%)         |
| 2   | 1B    | 119/121 (98%)   | 7 (5%)            | 0               |
| 2   | 2B    | 118/121 (97%)   | 20 (16%)          | 0               |
| 32  | 1a    | 1497/1521 (98%) | 223 (14%)         | 0               |
| 32  | 2a    | 1501/1521 (98%) | 255 (16%)         | 0               |
| 53  | 1v    | 12/24 (50%)     | 2 (16%)           | 0               |
| 53  | 2v    | 12/24 (50%)     | 3 (25%)           | 0               |
| 54  | 1w    | 71/76 (93%)     | 22 (30%)          | 0               |
| 54  | 2w    | 68/76 (89%)     | 24 (35%)          | 0               |
| 55  | 1x    | 75/77 (97%)     | 5 (6%)            | 0               |
| 55  | 2x    | 75/77 (97%)     | 8 (10%)           | 0               |
| 56  | 1y    | 72/76 (94%)     | 28 (38%)          | 0               |
| 56  | 2y    | 70/76 (92%)     | 30 (42%)          | 0               |
| All | All   | 9345/9620 (97%) | 1501 (16%)        | 56 (0%)         |

5 of 1501 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | 1A    | 10  | G    |
| 1   | 1A    | 12  | U    |
| 1   | 1A    | 34  | C    |
| 1   | 1A    | 45  | C    |
| 1   | 1A    | 55  | G    |

5 of 56 RNA pucker outliers are listed below:

| Mol | Chain | Res  | Type |
|-----|-------|------|------|
| 1   | 1A    | 2611 | U    |
| 1   | 2A    | 2689 | U    |
| 1   | 2A    | 266  | G    |

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| Mol | Chain | Res  | Type |
|-----|-------|------|------|
| 1   | 2A    | 2126 | A    |
| 1   | 2A    | 1530 | C    |

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

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

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

| Mol | Type | Chain | Res  | Link  | Bond lengths |      |             | Bond angles |      |             |
|-----|------|-------|------|-------|--------------|------|-------------|-------------|------|-------------|
|     |      |       |      |       | Counts       | RMSZ | # $ Z  > 2$ | Counts      | RMSZ | # $ Z  > 2$ |
| 54  | F3N  | 2w    | 76   | 1,54  | 33,36,37     | 1.49 | 4 (12%)     | 41,51,54    | 1.73 | 9 (21%)     |
| 32  | M2G  | 1a    | 966  | 32    | 24,27,28     | 1.31 | 3 (12%)     | 33,40,43    | 1.84 | 6 (18%)     |
| 32  | UR3  | 2a    | 1498 | 32    | 19,22,23     | 1.07 | 2 (10%)     | 26,32,35    | 1.72 | 3 (11%)     |
| 55  | 31H  | 2x    | 76   | 57,55 | 31,34,35     | 1.23 | 3 (9%)      | 35,47,50    | 2.15 | 12 (34%)    |
| 54  | PSU  | 2w    | 39   | 54    | 18,21,22     | 1.38 | 2 (11%)     | 21,30,33    | 1.91 | 3 (14%)     |
| 32  | 5MC  | 1a    | 967  | 32    | 19,22,23     | 1.73 | 3 (15%)     | 26,32,35    | 1.15 | 2 (7%)      |
| 56  | 5MU  | 1y    | 54   | 56    | 19,22,23     | 1.42 | 4 (21%)     | 27,32,35    | 2.09 | 6 (22%)     |
| 56  | PSU  | 2y    | 55   | 56    | 18,21,22     | 1.37 | 3 (16%)     | 21,30,33    | 2.01 | 5 (23%)     |
| 54  | 5MU  | 2w    | 54   | 54    | 19,22,23     | 1.35 | 4 (21%)     | 27,32,35    | 1.81 | 7 (25%)     |
| 54  | PSU  | 1w    | 55   | 54    | 18,21,22     | 1.36 | 2 (11%)     | 21,30,33    | 2.06 | 3 (14%)     |
| 56  | MIA  | 2y    | 37   | 56    | 21,24,32     | 1.59 | 4 (19%)     | 30,35,47    | 2.00 | 7 (23%)     |
| 56  | PSU  | 1y    | 55   | 56    | 18,21,22     | 1.37 | 2 (11%)     | 21,30,33    | 2.05 | 3 (14%)     |
| 55  | PSU  | 2x    | 55   | 55    | 18,21,22     | 1.33 | 2 (11%)     | 21,30,33    | 1.92 | 4 (19%)     |
| 32  | G7M  | 1a    | 527  | 32    | 23,26,27     | 1.48 | 3 (13%)     | 34,39,42    | 1.70 | 5 (14%)     |
| 32  | MA6  | 2a    | 1518 | 32    | 23,26,27     | 0.43 | 0           | 33,38,41    | 1.98 | 9 (27%)     |
| 32  | 5MC  | 1a    | 1400 | 32    | 19,22,23     | 1.64 | 3 (15%)     | 26,32,35    | 1.08 | 2 (7%)      |
| 1   | 8AH  | 1A    | 2503 | 1,57  | 22,26,27     | 1.47 | 5 (22%)     | 29,39,42    | 2.16 | 7 (24%)     |
| 54  | F3N  | 1w    | 76   | 1,54  | 33,36,37     | 1.49 | 4 (12%)     | 41,51,54    | 1.85 | 9 (21%)     |
| 54  | 4SU  | 2w    | 8    | 54    | 18,21,22     | 1.83 | 5 (27%)     | 25,30,33    | 2.43 | 5 (20%)     |
| 54  | G7M  | 2w    | 46   | 54    | 23,26,27     | 1.52 | 4 (17%)     | 34,39,42    | 1.61 | 4 (11%)     |
| 1   | PSU  | 1A    | 1911 | 1     | 18,21,22     | 1.42 | 2 (11%)     | 21,30,33    | 1.98 | 3 (14%)     |

| Mol | Type | Chain | Res  | Link    | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|---------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |         | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 32  | PSU  | 2a    | 516  | 32      | 18,21,22     | 1.30 | 2 (11%)  | 21,30,33    | 2.05 | 4 (19%)  |
| 55  | 5MC  | 1x    | 32   | 55      | 19,22,23     | 1.67 | 3 (15%)  | 26,32,35    | 1.21 | 3 (11%)  |
| 54  | PSU  | 2w    | 55   | 54      | 18,21,22     | 1.41 | 2 (11%)  | 21,30,33    | 1.94 | 3 (14%)  |
| 56  | G7M  | 2y    | 46   | 56      | 23,26,27     | 1.59 | 3 (13%)  | 34,39,42    | 1.79 | 4 (11%)  |
| 54  | 5MU  | 1w    | 54   | 54      | 19,22,23     | 1.50 | 5 (26%)  | 27,32,35    | 1.72 | 5 (18%)  |
| 32  | 5MC  | 2a    | 1400 | 32      | 19,22,23     | 1.60 | 3 (15%)  | 26,32,35    | 1.16 | 2 (7%)   |
| 55  | 5MU  | 1x    | 54   | 57,55   | 19,22,23     | 1.45 | 5 (26%)  | 27,32,35    | 1.92 | 7 (25%)  |
| 1   | PSU  | 1A    | 2605 | 1,57    | 18,21,22     | 1.42 | 2 (11%)  | 21,30,33    | 2.25 | 3 (14%)  |
| 32  | 5MC  | 2a    | 1407 | 32,57   | 19,22,23     | 1.61 | 3 (15%)  | 26,32,35    | 1.22 | 3 (11%)  |
| 1   | 5MU  | 1A    | 1915 | 1       | 19,22,23     | 1.38 | 4 (21%)  | 27,32,35    | 2.18 | 7 (25%)  |
| 32  | 5MC  | 1a    | 1404 | 32      | 19,22,23     | 1.65 | 3 (15%)  | 26,32,35    | 1.16 | 2 (7%)   |
| 32  | 5MC  | 2a    | 967  | 32      | 19,22,23     | 1.65 | 3 (15%)  | 26,32,35    | 1.12 | 2 (7%)   |
| 32  | MA6  | 2a    | 1519 | 32      | 23,26,27     | 0.48 | 0        | 33,38,41    | 2.10 | 9 (27%)  |
| 1   | PSU  | 2A    | 1917 | 1       | 18,21,22     | 1.35 | 2 (11%)  | 21,30,33    | 1.95 | 4 (19%)  |
| 55  | 4SU  | 2x    | 8    | 55      | 18,21,22     | 2.07 | 6 (33%)  | 25,30,33    | 1.25 | 4 (16%)  |
| 32  | M2G  | 2a    | 966  | 32      | 24,27,28     | 1.30 | 3 (12%)  | 33,40,43    | 1.88 | 6 (18%)  |
| 32  | MA6  | 1a    | 1518 | 32      | 23,26,27     | 0.44 | 0        | 33,38,41    | 1.95 | 10 (30%) |
| 54  | PSU  | 1w    | 39   | 54      | 18,21,22     | 1.43 | 3 (16%)  | 21,30,33    | 1.56 | 3 (14%)  |
| 54  | MIA  | 1w    | 37   | 54      | 28,31,32     | 2.30 | 7 (25%)  | 38,44,47    | 2.94 | 14 (36%) |
| 56  | PSU  | 1y    | 39   | 56      | 18,21,22     | 1.43 | 2 (11%)  | 21,30,33    | 1.78 | 3 (14%)  |
| 43  | 0TD  | 1l    | 92   | 43      | 8,9,10       | 4.52 | 1 (12%)  | 6,11,13     | 6.01 | 2 (33%)  |
| 56  | G7M  | 1y    | 46   | 56      | 23,26,27     | 1.55 | 4 (17%)  | 34,39,42    | 1.78 | 4 (11%)  |
| 32  | 4OC  | 2a    | 1402 | 32      | 20,23,24     | 0.79 | 0        | 25,32,35    | 1.00 | 1 (4%)   |
| 32  | 5MC  | 1a    | 1407 | 32      | 19,22,23     | 1.65 | 2 (10%)  | 26,32,35    | 1.11 | 2 (7%)   |
| 56  | PSU  | 2y    | 32   | 56      | 18,21,22     | 1.35 | 2 (11%)  | 21,30,33    | 2.05 | 3 (14%)  |
| 1   | OMG  | 2A    | 2251 | 1,55    | 23,26,27     | 1.19 | 3 (13%)  | 32,38,41    | 2.04 | 6 (18%)  |
| 55  | 4SU  | 1x    | 8    | 55      | 18,21,22     | 2.37 | 6 (33%)  | 25,30,33    | 1.92 | 7 (28%)  |
| 54  | MIA  | 2w    | 37   | 54      | 24,27,32     | 2.14 | 5 (20%)  | 32,39,47    | 2.51 | 11 (34%) |
| 32  | UR3  | 1a    | 1498 | 32      | 19,22,23     | 0.93 | 1 (5%)   | 26,32,35    | 1.78 | 3 (11%)  |
| 1   | PSU  | 2A    | 2605 | 1       | 18,21,22     | 1.24 | 2 (11%)  | 21,30,33    | 2.07 | 3 (14%)  |
| 1   | OMG  | 1A    | 2251 | 55,1,57 | 23,26,27     | 1.22 | 3 (13%)  | 32,38,41    | 2.02 | 6 (18%)  |
| 55  | 5MU  | 2x    | 54   | 55      | 19,22,23     | 1.44 | 6 (31%)  | 27,32,35    | 1.92 | 7 (25%)  |
| 56  | 4SU  | 1y    | 8    | 56      | 18,21,22     | 1.78 | 5 (27%)  | 25,30,33    | 1.71 | 4 (16%)  |
| 1   | 2MU  | 2A    | 2552 | 1,57    | 19,22,24     | 1.20 | 2 (10%)  | 25,31,36    | 1.84 | 6 (24%)  |
| 1   | 5MU  | 2A    | 1939 | 1,57    | 19,22,23     | 1.44 | 6 (31%)  | 27,32,35    | 2.19 | 6 (22%)  |

| Mol | Type | Chain | Res  | Link  | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|-------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |       | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 1   | 5MC  | 2A    | 1962 | 1,57  | 19,22,23     | 1.52 | 3 (15%)  | 26,32,35    | 1.17 | 2 (7%)   |
| 54  | PSU  | 1w    | 32   | 57,54 | 18,21,22     | 1.33 | 2 (11%)  | 21,30,33    | 1.99 | 4 (19%)  |
| 1   | PSU  | 1A    | 1917 | 1     | 18,21,22     | 1.33 | 2 (11%)  | 21,30,33    | 2.15 | 4 (19%)  |
| 1   | 2MU  | 1A    | 2552 | 1,57  | 19,22,24     | 1.20 | 2 (10%)  | 25,31,36    | 2.00 | 6 (24%)  |
| 32  | MA6  | 1a    | 1519 | 32    | 23,26,27     | 0.47 | 0        | 33,38,41    | 2.14 | 9 (27%)  |
| 32  | 5MC  | 2a    | 1404 | 32    | 19,22,23     | 1.58 | 3 (15%)  | 26,32,35    | 1.13 | 3 (11%)  |
| 1   | OMC  | 2A    | 1920 | 1     | 19,22,23     | 0.80 | 1 (5%)   | 25,31,34    | 1.02 | 1 (4%)   |
| 1   | 5MU  | 1A    | 1939 | 1,57  | 19,22,23     | 1.47 | 6 (31%)  | 27,32,35    | 2.16 | 6 (22%)  |
| 55  | 5MC  | 2x    | 32   | 55    | 19,22,23     | 1.57 | 3 (15%)  | 26,32,35    | 1.24 | 4 (15%)  |
| 54  | G7M  | 1w    | 46   | 54    | 23,26,27     | 1.57 | 4 (17%)  | 34,39,42    | 1.65 | 4 (11%)  |
| 1   | 5MC  | 1A    | 1962 | 1,57  | 19,22,23     | 1.90 | 3 (15%)  | 26,32,35    | 1.24 | 4 (15%)  |
| 56  | MIA  | 1y    | 37   | 56    | 21,24,32     | 1.64 | 3 (14%)  | 30,35,47    | 2.00 | 7 (23%)  |
| 1   | 5MC  | 2A    | 1942 | 1     | 19,22,23     | 1.65 | 3 (15%)  | 26,32,35    | 1.12 | 3 (11%)  |
| 54  | PSU  | 2w    | 32   | 54    | 18,21,22     | 1.34 | 2 (11%)  | 21,30,33    | 1.89 | 3 (14%)  |
| 32  | 2MG  | 2a    | 1207 | 32    | 23,26,27     | 1.27 | 3 (13%)  | 33,38,41    | 2.23 | 8 (24%)  |
| 43  | 0TD  | 2l    | 92   | 43    | 8,9,10       | 4.46 | 1 (12%)  | 6,11,13     | 4.99 | 3 (50%)  |
| 56  | PSU  | 1y    | 32   | 56    | 18,21,22     | 1.37 | 2 (11%)  | 21,30,33    | 1.99 | 3 (14%)  |
| 1   | OMC  | 1A    | 1920 | 1     | 19,22,23     | 0.77 | 0        | 25,31,34    | 0.98 | 1 (4%)   |
| 1   | 5MC  | 1A    | 1942 | 1,57  | 19,22,23     | 1.60 | 3 (15%)  | 26,32,35    | 1.21 | 3 (11%)  |
| 55  | 31H  | 1x    | 76   | 57,55 | 31,34,35     | 1.17 | 3 (9%)   | 35,47,50    | 2.17 | 14 (40%) |
| 56  | PSU  | 2y    | 39   | 56    | 18,21,22     | 1.40 | 2 (11%)  | 21,30,33    | 1.74 | 4 (19%)  |
| 55  | PSU  | 1x    | 55   | 57,55 | 18,21,22     | 1.30 | 2 (11%)  | 21,30,33    | 1.99 | 4 (19%)  |
| 1   | 8AH  | 2A    | 2503 | 1,57  | 22,26,27     | 1.66 | 5 (22%)  | 29,39,42    | 2.24 | 5 (17%)  |
| 1   | 5MU  | 2A    | 1915 | 1     | 19,22,23     | 1.43 | 6 (31%)  | 27,32,35    | 2.34 | 7 (25%)  |
| 1   | PSU  | 2A    | 1911 | 1     | 18,21,22     | 1.39 | 3 (16%)  | 21,30,33    | 2.23 | 3 (14%)  |
| 32  | 2MG  | 1a    | 1207 | 32,57 | 23,26,27     | 1.24 | 2 (8%)   | 33,38,41    | 2.22 | 8 (24%)  |
| 32  | G7M  | 2a    | 527  | 32    | 23,26,27     | 1.49 | 4 (17%)  | 34,39,42    | 1.67 | 5 (14%)  |
| 56  | 5MU  | 2y    | 54   | 56    | 19,22,23     | 1.41 | 4 (21%)  | 27,32,35    | 2.21 | 6 (22%)  |
| 32  | 4OC  | 1a    | 1402 | 32    | 20,23,24     | 0.79 | 0        | 25,32,35    | 0.86 | 1 (4%)   |
| 32  | PSU  | 1a    | 516  | 32    | 18,21,22     | 1.36 | 2 (11%)  | 21,30,33    | 1.95 | 5 (23%)  |
| 56  | 4SU  | 2y    | 8    | 56    | 18,21,22     | 1.82 | 5 (27%)  | 25,30,33    | 1.80 | 4 (16%)  |
| 54  | 4SU  | 1w    | 8    | 54    | 18,21,22     | 1.88 | 5 (27%)  | 25,30,33    | 2.14 | 5 (20%)  |

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  | F3N  | 2w    | 76   | 1,54  | -       | 0/19/37/38 | 0/4/4/4 |
| 32  | M2G  | 1a    | 966  | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 32  | UR3  | 2a    | 1498 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 31H  | 2x    | 76   | 57,55 | -       | 4/22/40/41 | 0/3/3/3 |
| 54  | PSU  | 2w    | 39   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 1a    | 967  | 32    | -       | 1/7/25/26  | 0/2/2/2 |
| 56  | 5MU  | 1y    | 54   | 56    | -       | 1/7/25/26  | 0/2/2/2 |
| 56  | PSU  | 2y    | 55   | 56    | -       | 5/7/25/26  | 0/2/2/2 |
| 54  | 5MU  | 2w    | 54   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 1w    | 55   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | MIA  | 2y    | 37   | 56    | -       | 2/7/25/34  | 0/3/3/3 |
| 56  | PSU  | 1y    | 55   | 56    | -       | 2/7/25/26  | 0/2/2/2 |
| 55  | PSU  | 2x    | 55   | 55    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | G7M  | 1a    | 527  | 32    | -       | 3/7/25/26  | 0/3/3/3 |
| 32  | MA6  | 2a    | 1518 | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 32  | 5MC  | 1a    | 1400 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 8AH  | 1A    | 2503 | 1,57  | -       | 1/7/25/26  | 0/3/3/3 |
| 54  | F3N  | 1w    | 76   | 1,54  | -       | 0/19/37/38 | 0/4/4/4 |
| 54  | 4SU  | 2w    | 8    | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | G7M  | 2w    | 46   | 54    | -       | 1/7/25/26  | 0/3/3/3 |
| 1   | PSU  | 1A    | 1911 | 1     | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | PSU  | 2a    | 516  | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 5MC  | 1x    | 32   | 55    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 2w    | 55   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | G7M  | 2y    | 46   | 56    | -       | 2/7/25/26  | 0/3/3/3 |
| 54  | 5MU  | 1w    | 54   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 2a    | 1400 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 5MU  | 1x    | 54   | 57,55 | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 1A    | 2605 | 1,57  | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 2a    | 1407 | 32,57 | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MU  | 1A    | 1915 | 1     | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 1a    | 1404 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 2a    | 967  | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | MA6  | 2a    | 1519 | 32    | -       | 3/11/29/30 | 0/3/3/3 |
| 1   | PSU  | 2A    | 1917 | 1     | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 4SU  | 2x    | 8    | 55    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | M2G  | 2a    | 966  | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 32  | MA6  | 1a    | 1518 | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 54  | PSU  | 1w    | 39   | 54    | -       | 0/7/25/26  | 0/2/2/2 |

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| Mol | Type | Chain | Res  | Link    | Chirals | Torsions   | Rings   |
|-----|------|-------|------|---------|---------|------------|---------|
| 54  | MIA  | 1w    | 37   | 54      | -       | 3/15/33/34 | 0/3/3/3 |
| 56  | PSU  | 1y    | 39   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 43  | 0TD  | 1l    | 92   | 43      | -       | 4/7/12/14  | -       |
| 56  | G7M  | 1y    | 46   | 56      | -       | 3/7/25/26  | 0/3/3/3 |
| 32  | 4OC  | 2a    | 1402 | 32      | -       | 1/9/29/30  | 0/2/2/2 |
| 32  | 5MC  | 1a    | 1407 | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | PSU  | 2y    | 32   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | OMG  | 2A    | 2251 | 1,55    | -       | 0/9/27/28  | 0/3/3/3 |
| 55  | 4SU  | 1x    | 8    | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | MIA  | 2w    | 37   | 54      | -       | 2/11/29/34 | 0/3/3/3 |
| 32  | UR3  | 1a    | 1498 | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 2A    | 2605 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | OMG  | 1A    | 2251 | 55,1,57 | -       | 0/9/27/28  | 0/3/3/3 |
| 55  | 5MU  | 2x    | 54   | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | 4SU  | 1y    | 8    | 56      | -       | 3/7/25/26  | 0/2/2/2 |
| 1   | 2MU  | 2A    | 2552 | 1,57    | -       | 0/9/27/28  | 0/2/2/2 |
| 1   | 5MU  | 2A    | 1939 | 1,57    | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MC  | 2A    | 1962 | 1,57    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 1w    | 32   | 57,54   | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 1A    | 1917 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 2MU  | 1A    | 2552 | 1,57    | -       | 0/9/27/28  | 0/2/2/2 |
| 32  | MA6  | 1a    | 1519 | 32      | -       | 3/11/29/30 | 0/3/3/3 |
| 32  | 5MC  | 2a    | 1404 | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | OMC  | 2A    | 1920 | 1       | -       | 0/9/27/28  | 0/2/2/2 |
| 1   | 5MU  | 1A    | 1939 | 1,57    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 5MC  | 2x    | 32   | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | G7M  | 1w    | 46   | 54      | -       | 1/7/25/26  | 0/3/3/3 |
| 1   | 5MC  | 1A    | 1962 | 1,57    | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | MIA  | 1y    | 37   | 56      | -       | 0/7/25/34  | 0/3/3/3 |
| 1   | 5MC  | 2A    | 1942 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 2w    | 32   | 54      | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 2MG  | 2a    | 1207 | 32      | -       | 1/9/27/28  | 0/3/3/3 |
| 43  | 0TD  | 2l    | 92   | 43      | -       | 5/7/12/14  | -       |
| 56  | PSU  | 1y    | 32   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | OMC  | 1A    | 1920 | 1       | -       | 1/9/27/28  | 0/2/2/2 |
| 1   | 5MC  | 1A    | 1942 | 1,57    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 31H  | 1x    | 76   | 57,55   | -       | 4/22/40/41 | 0/3/3/3 |
| 56  | PSU  | 2y    | 39   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | PSU  | 1x    | 55   | 57,55   | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 8AH  | 2A    | 2503 | 1,57    | -       | 0/7/25/26  | 0/3/3/3 |

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| Mol | Type | Chain | Res  | Link  | Chirals | Torsions  | Rings   |
|-----|------|-------|------|-------|---------|-----------|---------|
| 1   | 5MU  | 2A    | 1915 | 1     | -       | 0/7/25/26 | 0/2/2/2 |
| 1   | PSU  | 2A    | 1911 | 1     | -       | 0/7/25/26 | 0/2/2/2 |
| 32  | 2MG  | 1a    | 1207 | 32,57 | -       | 1/9/27/28 | 0/3/3/3 |
| 32  | G7M  | 2a    | 527  | 32    | -       | 3/7/25/26 | 0/3/3/3 |
| 56  | 5MU  | 2y    | 54   | 56    | -       | 2/7/25/26 | 0/2/2/2 |
| 32  | 4OC  | 1a    | 1402 | 32    | -       | 1/9/29/30 | 0/2/2/2 |
| 32  | PSU  | 1a    | 516  | 32    | -       | 0/7/25/26 | 0/2/2/2 |
| 56  | 4SU  | 2y    | 8    | 56    | -       | 0/7/25/26 | 0/2/2/2 |
| 54  | 4SU  | 1w    | 8    | 54    | -       | 0/7/25/26 | 0/2/2/2 |

The worst 5 of 262 bond length outliers are listed below:

| Mol | Chain | Res  | Type | Atoms  | Z      | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|--------|--------|-------------|----------|
| 43  | 2l    | 92   | 0TD  | CB-SB  | -12.29 | 1.69        | 1.82     |
| 43  | 1l    | 92   | 0TD  | CB-SB  | -12.24 | 1.69        | 1.82     |
| 1   | 1A    | 1962 | 5MC  | C5-C4  | 7.33   | 1.49        | 1.44     |
| 54  | 1w    | 37   | MIA  | C2-S10 | -7.16  | 1.69        | 1.75     |
| 54  | 2w    | 37   | MIA  | C2-S10 | -6.92  | 1.70        | 1.75     |

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

| Mol | Chain | Res  | Type | Atoms       | Z      | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|--------|-------------|----------|
| 43  | 1l    | 92   | 0TD  | CSB-SB-CB   | -14.25 | 76.74       | 102.36   |
| 43  | 2l    | 92   | 0TD  | CSB-SB-CB   | -11.44 | 81.80       | 102.36   |
| 54  | 1w    | 37   | MIA  | C12-C13-C14 | -10.07 | 108.93      | 127.01   |
| 54  | 2w    | 37   | MIA  | C5-C4-N3    | -8.70  | 118.01      | 127.18   |
| 1   | 2A    | 2503 | 8AH  | C5-C4-N3    | -8.65  | 118.07      | 127.18   |

There are no chirality outliers.

5 of 63 torsion outliers are listed below:

| Mol | Chain | Res  | Type | Atoms          |
|-----|-------|------|------|----------------|
| 32  | 1a    | 1207 | 2MG  | N3-C2-N2-CM2   |
| 43  | 1l    | 92   | 0TD  | O-C-CA-CB      |
| 43  | 1l    | 92   | 0TD  | CA-CB-SB-CSB   |
| 43  | 1l    | 92   | 0TD  | CG-CB-SB-CSB   |
| 54  | 1w    | 37   | MIA  | N6-C12-C13-C14 |

There are no ring outliers.

38 monomers are involved in 54 short contacts:

| Mol | Chain | Res  | Type | Clashes | Symm-Clashes |
|-----|-------|------|------|---------|--------------|
| 54  | 2w    | 76   | F3N  | 3       | 0            |
| 32  | 1a    | 966  | M2G  | 2       | 0            |
| 55  | 2x    | 76   | 31H  | 2       | 0            |
| 54  | 2w    | 39   | PSU  | 1       | 0            |
| 56  | 2y    | 55   | PSU  | 6       | 0            |
| 56  | 2y    | 37   | MIA  | 2       | 0            |
| 56  | 1y    | 55   | PSU  | 2       | 0            |
| 32  | 2a    | 1518 | MA6  | 2       | 0            |
| 54  | 1w    | 76   | F3N  | 1       | 0            |
| 54  | 2w    | 8    | 4SU  | 1       | 0            |
| 54  | 2w    | 46   | G7M  | 1       | 0            |
| 56  | 2y    | 46   | G7M  | 2       | 0            |
| 32  | 2a    | 967  | 5MC  | 1       | 0            |
| 32  | 2a    | 1519 | MA6  | 1       | 0            |
| 1   | 2A    | 1917 | PSU  | 1       | 0            |
| 55  | 2x    | 8    | 4SU  | 1       | 0            |
| 32  | 1a    | 1518 | MA6  | 2       | 0            |
| 54  | 1w    | 39   | PSU  | 1       | 0            |
| 54  | 1w    | 37   | MIA  | 2       | 0            |
| 56  | 1y    | 39   | PSU  | 1       | 0            |
| 1   | 2A    | 2251 | OMG  | 1       | 0            |
| 55  | 1x    | 8    | 4SU  | 1       | 0            |
| 54  | 2w    | 37   | MIA  | 1       | 0            |
| 55  | 2x    | 54   | 5MU  | 2       | 0            |
| 56  | 1y    | 8    | 4SU  | 2       | 0            |
| 1   | 2A    | 2552 | 2MU  | 2       | 0            |
| 1   | 2A    | 1939 | 5MU  | 1       | 0            |
| 1   | 1A    | 1917 | PSU  | 1       | 0            |
| 1   | 1A    | 2552 | 2MU  | 1       | 0            |
| 32  | 1a    | 1519 | MA6  | 1       | 0            |
| 1   | 1A    | 1939 | 5MU  | 1       | 0            |
| 43  | 2l    | 92   | 0TD  | 1       | 0            |
| 1   | 2A    | 1915 | 5MU  | 1       | 0            |
| 56  | 2y    | 54   | 5MU  | 1       | 0            |
| 32  | 1a    | 1402 | 4OC  | 1       | 0            |
| 32  | 1a    | 516  | PSU  | 1       | 0            |
| 56  | 2y    | 8    | 4SU  | 1       | 0            |
| 54  | 1w    | 8    | 4SU  | 2       | 0            |

## 5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 2472 ligands modelled in this entry, 2470 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 | $\# Z  > 2$ |
| 60  | SF4  | 2d    | 501 | 35   | 0,12,12      | -    | -           | -           |      |             |
| 60  | SF4  | 1d    | 302 | 35   | 0,12,12      | -    | -           | -           |      |             |

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   |
|-----|------|-------|-----|------|---------|----------|---------|
| 60  | SF4  | 2d    | 501 | 35   | -       | -        | 0/6/5/5 |
| 60  | SF4  | 1d    | 302 | 35   | -       | -        | 0/6/5/5 |

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 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, 95<sup>th</sup> 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 <sup>2</sup> ) | Q<0.9 |
|-----|-------|-----------------|--------|----------------|-----------------------|-------|
| 1   | 1A    | 2860/2915 (98%) | -0.35  | 189 (6%) 24 24 | 22, 39, 97, 108       | 0     |
| 1   | 2A    | 2789/2915 (95%) | 0.15   | 156 (5%) 30 29 | 38, 59, 96, 109       | 0     |
| 2   | 1B    | 120/121 (99%)   | -0.23  | 0 100 100      | 34, 53, 65, 87        | 0     |
| 2   | 2B    | 120/121 (99%)   | 0.46   | 3 (2%) 58 59   | 62, 73, 84, 97        | 0     |
| 3   | 1D    | 275/276 (99%)   | 0.02   | 3 (1%) 78 79   | 24, 39, 53, 84        | 0     |
| 3   | 2D    | 275/276 (99%)   | 0.23   | 3 (1%) 78 79   | 34, 50, 62, 78        | 0     |
| 4   | 1E    | 204/206 (99%)   | -0.08  | 1 (0%) 87 89   | 21, 41, 60, 73        | 0     |
| 4   | 2E    | 204/206 (99%)   | 0.83   | 5 (2%) 58 59   | 41, 64, 76, 83        | 0     |
| 5   | 1F    | 202/210 (96%)   | 0.08   | 4 (1%) 65 65   | 21, 44, 68, 82        | 0     |
| 5   | 2F    | 202/210 (96%)   | 0.58   | 6 (2%) 52 54   | 38, 64, 78, 85        | 0     |
| 6   | 1G    | 181/182 (99%)   | 0.59   | 9 (4%) 34 33   | 46, 58, 72, 86        | 0     |
| 6   | 2G    | 181/182 (99%)   | 1.14   | 19 (10%) 11 11 | 63, 74, 82, 88        | 0     |
| 7   | 1H    | 174/180 (96%)   | 0.39   | 4 (2%) 61 62   | 39, 54, 67, 72        | 0     |
| 7   | 2H    | 174/180 (96%)   | 2.03   | 88 (50%) 0 0   | 73, 86, 92, 97        | 0     |
| 8   | 1I    | 146/148 (98%)   | 0.97   | 9 (6%) 26 26   | 51, 73, 80, 84        | 0     |
| 8   | 2I    | 146/148 (98%)   | 1.23   | 22 (15%) 5 5   | 52, 73, 84, 91        | 0     |
| 9   | 1N    | 140/140 (100%)  | -0.07  | 1 (0%) 84 86   | 26, 38, 59, 75        | 0     |
| 9   | 2N    | 140/140 (100%)  | 1.10   | 9 (6%) 25 24   | 51, 69, 80, 84        | 0     |
| 10  | 1O    | 122/122 (100%)  | 0.02   | 1 (0%) 82 84   | 30, 42, 59, 62        | 0     |
| 10  | 2O    | 122/122 (100%)  | 0.81   | 1 (0%) 82 84   | 50, 63, 73, 78        | 0     |
| 11  | 1P    | 149/150 (99%)   | 0.30   | 4 (2%) 56 57   | 24, 52, 69, 77        | 0     |
| 11  | 2P    | 149/150 (99%)   | 0.72   | 5 (3%) 48 49   | 42, 64, 79, 88        | 0     |
| 12  | 1Q    | 141/141 (100%)  | 0.08   | 1 (0%) 84 86   | 26, 42, 57, 71        | 0     |
| 12  | 2Q    | 141/141 (100%)  | 1.15   | 15 (10%) 11 11 | 46, 68, 78, 84        | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2        | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|----------------|-----------------------|-------|
| 13  | 1R    | 118/118 (100%) | -0.18  | 0 100 100      | 28, 37, 51, 57        | 0     |
| 13  | 2R    | 118/118 (100%) | 0.64   | 2 (1%) 69 69   | 48, 58, 66, 76        | 0     |
| 14  | 1S    | 110/112 (98%)  | 0.26   | 1 (0%) 81 83   | 40, 53, 64, 69        | 0     |
| 14  | 2S    | 110/112 (98%)  | 0.86   | 4 (3%) 46 47   | 59, 70, 78, 84        | 0     |
| 15  | 1T    | 131/146 (89%)  | 0.37   | 5 (3%) 44 45   | 37, 46, 72, 84        | 0     |
| 15  | 2T    | 131/146 (89%)  | 1.02   | 12 (9%) 14 14  | 56, 66, 81, 84        | 0     |
| 16  | 1U    | 116/118 (98%)  | -0.30  | 1 (0%) 81 83   | 22, 31, 44, 62        | 0     |
| 16  | 2U    | 116/118 (98%)  | 0.88   | 7 (6%) 27 27   | 45, 66, 76, 81        | 0     |
| 17  | 1V    | 101/101 (100%) | -0.22  | 0 100 100      | 24, 38, 55, 65        | 0     |
| 17  | 2V    | 101/101 (100%) | 0.98   | 6 (5%) 28 27   | 47, 72, 79, 84        | 0     |
| 18  | 1W    | 112/113 (99%)  | -0.21  | 1 (0%) 81 83   | 25, 33, 56, 80        | 0     |
| 18  | 2W    | 112/113 (99%)  | 0.42   | 3 (2%) 56 57   | 43, 52, 67, 90        | 0     |
| 19  | 1X    | 95/96 (98%)    | 0.07   | 3 (3%) 50 51   | 30, 42, 65, 75        | 0     |
| 19  | 2X    | 95/96 (98%)    | 0.70   | 7 (7%) 20 19   | 49, 58, 76, 82        | 0     |
| 20  | 1Y    | 107/110 (97%)  | 0.50   | 3 (2%) 55 56   | 39, 52, 69, 82        | 0     |
| 20  | 2Y    | 107/110 (97%)  | 1.47   | 23 (21%) 2 2   | 58, 70, 84, 89        | 0     |
| 21  | 1Z    | 154/206 (74%)  | 0.95   | 17 (11%) 10 10 | 41, 66, 84, 89        | 0     |
| 21  | 2Z    | 160/206 (77%)  | 1.69   | 44 (27%) 1 1   | 72, 82, 90, 92        | 0     |
| 22  | 10    | 83/85 (97%)    | -0.03  | 1 (1%) 76 77   | 27, 40, 52, 63        | 0     |
| 22  | 20    | 83/85 (97%)    | 0.84   | 6 (7%) 21 20   | 45, 62, 70, 77        | 0     |
| 23  | 11    | 97/98 (98%)    | 0.51   | 3 (3%) 51 52   | 31, 50, 71, 76        | 0     |
| 23  | 21    | 97/98 (98%)    | 0.67   | 4 (4%) 41 42   | 42, 56, 75, 84        | 0     |
| 24  | 12    | 70/72 (97%)    | 0.44   | 2 (2%) 53 55   | 38, 50, 61, 76        | 0     |
| 24  | 22    | 70/72 (97%)    | 0.90   | 4 (5%) 29 29   | 56, 68, 76, 86        | 0     |
| 25  | 13    | 59/60 (98%)    | 0.00   | 2 (3%) 48 49   | 27, 37, 63, 82        | 0     |
| 25  | 23    | 59/60 (98%)    | 0.76   | 3 (5%) 33 33   | 53, 67, 78, 85        | 0     |
| 26  | 14    | 69/71 (97%)    | 1.19   | 14 (20%) 3 2   | 59, 75, 87, 90        | 0     |
| 26  | 24    | 69/71 (97%)    | 1.45   | 14 (20%) 3 2   | 71, 84, 91, 93        | 0     |
| 27  | 15    | 59/60 (98%)    | -0.14  | 0 100 100      | 22, 34, 49, 57        | 0     |
| 27  | 25    | 59/60 (98%)    | 0.49   | 1 (1%) 69 69   | 41, 57, 69, 78        | 0     |
| 28  | 16    | 53/54 (98%)    | 0.20   | 1 (1%) 66 66   | 36, 45, 57, 61        | 0     |

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| Mol | Chain | Analysed        | <RSRZ> | #RSRZ>2        | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-----------------|--------|----------------|-----------------------|-------|
| 28  | 26    | 53/54 (98%)     | 0.59   | 1 (1%) 66 66   | 47, 59, 67, 77        | 0     |
| 29  | 17    | 48/49 (97%)     | 0.06   | 4 (8%) 17 17   | 26, 31, 56, 66        | 0     |
| 29  | 27    | 48/49 (97%)     | 0.52   | 5 (10%) 11 11  | 38, 42, 67, 71        | 0     |
| 30  | 18    | 64/65 (98%)     | -0.09  | 0 100 100      | 29, 37, 44, 56        | 0     |
| 30  | 28    | 64/65 (98%)     | 0.46   | 0 100 100      | 46, 56, 61, 68        | 0     |
| 31  | 19    | 37/37 (100%)    | -0.06  | 0 100 100      | 32, 40, 61, 62        | 0     |
| 31  | 29    | 37/37 (100%)    | 1.39   | 7 (18%) 3 2    | 64, 73, 84, 88        | 0     |
| 32  | 1a    | 1488/1521 (97%) | 0.31   | 58 (3%) 43 44  | 35, 67, 94, 109       | 0     |
| 32  | 2a    | 1491/1521 (98%) | 0.54   | 78 (5%) 33 32  | 45, 72, 94, 108       | 0     |
| 33  | 1b    | 231/256 (90%)   | 1.51   | 62 (26%) 1 1   | 62, 78, 87, 93        | 0     |
| 33  | 2b    | 231/256 (90%)   | 1.74   | 81 (35%) 1 0   | 69, 83, 89, 93        | 0     |
| 34  | 1c    | 206/239 (86%)   | 1.15   | 22 (10%) 11 10 | 63, 73, 83, 90        | 0     |
| 34  | 2c    | 206/239 (86%)   | 1.72   | 69 (33%) 1 0   | 70, 79, 86, 90        | 0     |
| 35  | 1d    | 208/209 (99%)   | 1.12   | 20 (9%) 13 13  | 57, 69, 78, 89        | 0     |
| 35  | 2d    | 208/209 (99%)   | 0.89   | 11 (5%) 32 31  | 56, 66, 75, 85        | 0     |
| 36  | 1e    | 148/162 (91%)   | 0.85   | 7 (4%) 36 36   | 48, 64, 75, 81        | 0     |
| 36  | 2e    | 148/162 (91%)   | 1.02   | 6 (4%) 41 42   | 54, 71, 80, 87        | 0     |
| 37  | 1f    | 100/101 (99%)   | 0.85   | 5 (5%) 34 33   | 55, 68, 76, 80        | 0     |
| 37  | 2f    | 100/101 (99%)   | 0.65   | 2 (2%) 65 65   | 55, 66, 74, 81        | 0     |
| 38  | 1g    | 155/156 (99%)   | 1.02   | 19 (12%) 8 7   | 61, 71, 85, 91        | 0     |
| 38  | 2g    | 155/156 (99%)   | 1.25   | 23 (14%) 5 5   | 68, 75, 85, 96        | 0     |
| 39  | 1h    | 137/138 (99%)   | 0.74   | 2 (1%) 72 73   | 55, 65, 72, 76        | 0     |
| 39  | 2h    | 137/138 (99%)   | 0.93   | 7 (5%) 33 33   | 64, 72, 78, 81        | 0     |
| 40  | 1i    | 127/128 (99%)   | 1.60   | 30 (23%) 2 1   | 51, 78, 85, 88        | 0     |
| 40  | 2i    | 127/128 (99%)   | 1.98   | 61 (48%) 0 0   | 68, 83, 88, 91        | 0     |
| 41  | 1j    | 97/105 (92%)    | 1.85   | 43 (44%) 0 0   | 57, 78, 87, 93        | 0     |
| 41  | 2j    | 96/105 (91%)    | 2.38   | 59 (61%) 0 0   | 72, 83, 89, 96        | 0     |
| 42  | 1k    | 114/129 (88%)   | 0.86   | 9 (7%) 18 18   | 44, 64, 76, 80        | 0     |
| 42  | 2k    | 114/129 (88%)   | 1.05   | 13 (11%) 10 9  | 54, 71, 80, 84        | 0     |
| 43  | 1l    | 121/132 (91%)   | 0.38   | 3 (2%) 58 59   | 48, 54, 65, 71        | 0     |
| 43  | 2l    | 121/132 (91%)   | 0.87   | 7 (5%) 29 28   | 58, 65, 73, 77        | 0     |

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| Mol | Chain | Analysed          | <RSRZ> | #RSRZ>2         | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-------------------|--------|-----------------|-----------------------|-------|
| 44  | 1m    | 123/126 (97%)     | 1.13   | 17 (13%) 6 5    | 54, 70, 77, 86        | 0     |
| 44  | 2m    | 122/126 (96%)     | 1.51   | 27 (22%) 2 2    | 67, 78, 84, 90        | 0     |
| 45  | 1n    | 60/61 (98%)       | 1.13   | 6 (10%) 12 12   | 61, 69, 77, 78        | 0     |
| 45  | 2n    | 60/61 (98%)       | 2.23   | 30 (50%) 0 0    | 72, 79, 87, 89        | 0     |
| 46  | 1o    | 88/89 (98%)       | 0.85   | 7 (7%) 18 18    | 45, 65, 73, 77        | 0     |
| 46  | 2o    | 88/89 (98%)       | 0.86   | 4 (4%) 38 38    | 54, 66, 78, 86        | 0     |
| 47  | 1p    | 82/88 (93%)       | 1.43   | 19 (23%) 2 1    | 59, 71, 79, 84        | 0     |
| 47  | 2p    | 82/88 (93%)       | 1.02   | 9 (10%) 10 10   | 58, 68, 77, 79        | 0     |
| 48  | 1q    | 99/105 (94%)      | 1.03   | 5 (5%) 33 33    | 53, 66, 74, 76        | 0     |
| 48  | 2q    | 99/105 (94%)      | 1.02   | 6 (6%) 27 26    | 58, 70, 79, 80        | 0     |
| 49  | 1r    | 68/88 (77%)       | 0.61   | 4 (5%) 28 27    | 56, 64, 77, 79        | 0     |
| 49  | 2r    | 68/88 (77%)       | 0.75   | 2 (2%) 53 55    | 58, 67, 76, 79        | 0     |
| 50  | 1s    | 83/93 (89%)       | 1.09   | 11 (13%) 7 6    | 62, 73, 81, 86        | 0     |
| 50  | 2s    | 83/93 (89%)       | 1.76   | 29 (34%) 1 0    | 72, 82, 88, 90        | 0     |
| 51  | 1t    | 96/106 (90%)      | 1.14   | 14 (14%) 6 5    | 61, 71, 80, 85        | 0     |
| 51  | 2t    | 96/106 (90%)      | 1.33   | 15 (15%) 5 4    | 60, 72, 82, 85        | 0     |
| 52  | 1u    | 23/27 (85%)       | 1.69   | 7 (30%) 1 0     | 62, 66, 72, 78        | 0     |
| 52  | 2u    | 23/27 (85%)       | 1.84   | 9 (39%) 1 0     | 67, 75, 81, 84        | 0     |
| 53  | 1v    | 13/24 (54%)       | 0.81   | 3 (23%) 2 1     | 48, 55, 91, 97        | 0     |
| 53  | 2v    | 13/24 (54%)       | 1.10   | 3 (23%) 2 1     | 60, 70, 96, 103       | 0     |
| 54  | 1w    | 66/76 (86%)       | 1.34   | 15 (22%) 2 2    | 31, 86, 98, 102       | 0     |
| 54  | 2w    | 64/76 (84%)       | 1.48   | 17 (26%) 1 1    | 50, 95, 100, 104      | 0     |
| 55  | 1x    | 72/77 (93%)       | 0.24   | 2 (2%) 55 56    | 28, 60, 79, 90        | 0     |
| 55  | 2x    | 72/77 (93%)       | 0.36   | 1 (1%) 73 74    | 45, 72, 84, 100       | 0     |
| 56  | 1y    | 67/76 (88%)       | 1.96   | 31 (46%) 0 0    | 58, 99, 103, 105      | 0     |
| 56  | 2y    | 66/76 (86%)       | 2.24   | 41 (62%) 0 0    | 69, 101, 104, 107     | 0     |
| All | All   | 20871/21748 (95%) | 0.52   | 1800 (8%) 16 15 | 21, 64, 89, 109       | 0     |

The worst 5 of 1800 RSRZ outliers are listed below:

| Mol | Chain | Res    | Type | RSRZ |
|-----|-------|--------|------|------|
| 1   | 2A    | 652(V) | C    | 10.3 |
| 1   | 2A    | 652(U) | G    | 10.3 |

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| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 1   | 2A    | 653 | A    | 9.4  |
| 1   | 2A    | 654 | A    | 7.5  |
| 1   | 1A    | 653 | A    | 7.3  |

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

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

| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | 4SU  | 2y    | 8    | 20/21 | 0.37 | 0.19 | 98,102,113,128             | 0     |
| 56  | 5MU  | 2y    | 54   | 21/22 | 0.45 | 0.21 | 94,100,111,124             | 0     |
| 56  | PSU  | 2y    | 55   | 20/21 | 0.45 | 0.16 | 92,99,110,115              | 0     |
| 56  | MIA  | 2y    | 37   | 22/30 | 0.47 | 0.17 | 88,94,108,126              | 0     |
| 56  | G7M  | 2y    | 46   | 24/25 | 0.48 | 0.17 | 86,101,106,121             | 0     |
| 56  | PSU  | 1y    | 55   | 20/21 | 0.52 | 0.17 | 96,101,103,114             | 0     |
| 56  | G7M  | 1y    | 46   | 24/25 | 0.52 | 0.16 | 90,98,107,113              | 0     |
| 56  | 4SU  | 1y    | 8    | 20/21 | 0.54 | 0.15 | 97,101,109,117             | 0     |
| 56  | MIA  | 1y    | 37   | 22/30 | 0.56 | 0.18 | 88,95,103,115              | 0     |
| 56  | PSU  | 1y    | 39   | 20/21 | 0.59 | 0.16 | 88,94,105,106              | 0     |
| 56  | 5MU  | 1y    | 54   | 21/22 | 0.61 | 0.16 | 89,98,103,112              | 0     |
| 56  | PSU  | 2y    | 39   | 20/21 | 0.62 | 0.17 | 88,94,105,111              | 0     |
| 56  | PSU  | 2y    | 32   | 20/21 | 0.67 | 0.16 | 89,96,103,113              | 0     |
| 54  | G7M  | 2w    | 46   | 24/25 | 0.68 | 0.16 | 87,94,105,120              | 0     |
| 56  | PSU  | 1y    | 32   | 20/21 | 0.74 | 0.16 | 90,96,105,109              | 0     |
| 54  | G7M  | 1w    | 46   | 24/25 | 0.75 | 0.15 | 79,86,99,118               | 0     |
| 54  | 4SU  | 2w    | 8    | 20/21 | 0.77 | 0.14 | 89,94,104,105              | 0     |
| 54  | PSU  | 2w    | 55   | 20/21 | 0.83 | 0.11 | 85,89,96,99                | 0     |
| 54  | MIA  | 2w    | 37   | 25/30 | 0.84 | 0.17 | 56,74,82,100               | 0     |
| 54  | 4SU  | 1w    | 8    | 20/21 | 0.84 | 0.14 | 83,88,93,95                | 0     |
| 54  | PSU  | 1w    | 55   | 20/21 | 0.85 | 0.12 | 59,73,84,87                | 0     |
| 54  | 5MU  | 2w    | 54   | 21/22 | 0.86 | 0.12 | 79,84,89,93                | 0     |
| 55  | PSU  | 2x    | 55   | 20/21 | 0.87 | 0.12 | 69,75,87,90                | 0     |
| 55  | PSU  | 1x    | 55   | 20/21 | 0.89 | 0.12 | 57,63,72,72                | 0     |
| 54  | PSU  | 2w    | 32   | 20/21 | 0.90 | 0.12 | 73,78,86,86                | 0     |
| 55  | 4SU  | 2x    | 8    | 20/21 | 0.90 | 0.12 | 71,78,82,83                | 0     |
| 55  | 5MU  | 1x    | 54   | 21/22 | 0.90 | 0.11 | 58,63,72,74                | 0     |
| 32  | 2MG  | 2a    | 1207 | 24/25 | 0.90 | 0.11 | 71,81,83,85                | 0     |
| 54  | MIA  | 1w    | 37   | 29/30 | 0.90 | 0.17 | 51,59,73,87                | 0     |
| 55  | 5MU  | 2x    | 54   | 21/22 | 0.91 | 0.12 | 72,77,80,83                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 43  | 0TD  | 2l    | 92   | 10/11 | 0.91 | 0.11 | 63,65,68,72                 | 0     |
| 32  | G7M  | 2a    | 527  | 24/25 | 0.91 | 0.14 | 56,64,71,72                 | 0     |
| 54  | 5MU  | 1w    | 54   | 21/22 | 0.92 | 0.09 | 52,63,66,70                 | 0     |
| 32  | PSU  | 2a    | 516  | 20/21 | 0.92 | 0.10 | 53,67,71,74                 | 0     |
| 43  | 0TD  | 1l    | 92   | 10/11 | 0.92 | 0.12 | 47,52,55,67                 | 0     |
| 32  | 5MC  | 2a    | 1400 | 21/22 | 0.93 | 0.14 | 61,66,74,74                 | 0     |
| 54  | PSU  | 1w    | 32   | 20/21 | 0.93 | 0.11 | 56,62,69,71                 | 0     |
| 55  | 4SU  | 1x    | 8    | 20/21 | 0.93 | 0.10 | 55,62,66,67                 | 0     |
| 32  | 5MC  | 2a    | 967  | 21/22 | 0.93 | 0.13 | 59,66,72,75                 | 0     |
| 55  | 5MC  | 2x    | 32   | 21/22 | 0.93 | 0.13 | 63,68,73,78                 | 0     |
| 55  | 5MC  | 1x    | 32   | 21/22 | 0.93 | 0.12 | 51,56,60,64                 | 0     |
| 54  | PSU  | 2w    | 39   | 20/21 | 0.93 | 0.11 | 68,78,84,85                 | 0     |
| 1   | 5MU  | 2A    | 1915 | 21/22 | 0.93 | 0.10 | 53,61,65,67                 | 0     |
| 32  | M2G  | 2a    | 966  | 25/26 | 0.94 | 0.14 | 53,62,68,73                 | 0     |
| 32  | 2MG  | 1a    | 1207 | 24/25 | 0.94 | 0.09 | 66,70,74,75                 | 0     |
| 32  | G7M  | 1a    | 527  | 24/25 | 0.94 | 0.10 | 36,49,56,60                 | 0     |
| 32  | M2G  | 1a    | 966  | 25/26 | 0.94 | 0.11 | 39,49,60,63                 | 0     |
| 32  | MA6  | 2a    | 1518 | 24/25 | 0.95 | 0.11 | 52,59,64,67                 | 0     |
| 32  | MA6  | 2a    | 1519 | 24/25 | 0.95 | 0.11 | 48,59,64,66                 | 0     |
| 32  | 5MC  | 1a    | 967  | 21/22 | 0.95 | 0.10 | 45,50,59,62                 | 0     |
| 55  | 31H  | 1x    | 76   | 32/33 | 0.95 | 0.09 | 21,27,33,45                 | 10    |
| 32  | PSU  | 1a    | 516  | 20/21 | 0.95 | 0.07 | 51,57,62,62                 | 0     |
| 32  | 4OC  | 2a    | 1402 | 22/23 | 0.95 | 0.10 | 53,59,63,66                 | 0     |
| 32  | UR3  | 2a    | 1498 | 21/22 | 0.95 | 0.10 | 51,56,59,62                 | 0     |
| 1   | 5MU  | 1A    | 1915 | 21/22 | 0.95 | 0.09 | 44,49,57,57                 | 0     |
| 55  | 31H  | 2x    | 76   | 32/33 | 0.95 | 0.10 | 39,47,57,57                 | 0     |
| 1   | PSU  | 2A    | 1917 | 20/21 | 0.95 | 0.08 | 50,57,63,64                 | 0     |
| 1   | OMC  | 2A    | 1920 | 21/22 | 0.95 | 0.10 | 51,56,60,62                 | 0     |
| 32  | 5MC  | 1a    | 1407 | 21/22 | 0.96 | 0.09 | 35,44,46,50                 | 0     |
| 32  | 5MC  | 2a    | 1404 | 21/22 | 0.96 | 0.09 | 49,52,56,58                 | 0     |
| 1   | PSU  | 2A    | 1911 | 20/21 | 0.96 | 0.08 | 49,53,58,64                 | 0     |
| 32  | 5MC  | 2a    | 1407 | 21/22 | 0.96 | 0.09 | 49,56,60,62                 | 0     |
| 32  | 5MC  | 1a    | 1400 | 21/22 | 0.96 | 0.10 | 45,51,56,56                 | 0     |
| 1   | PSU  | 1A    | 1917 | 20/21 | 0.96 | 0.07 | 47,51,55,55                 | 0     |
| 54  | PSU  | 1w    | 39   | 20/21 | 0.96 | 0.09 | 47,61,66,69                 | 0     |
| 32  | 4OC  | 1a    | 1402 | 22/23 | 0.96 | 0.09 | 36,43,46,50                 | 0     |
| 1   | 5MC  | 2A    | 1942 | 21/22 | 0.96 | 0.08 | 50,57,63,73                 | 0     |
| 1   | 5MC  | 2A    | 1962 | 21/22 | 0.96 | 0.09 | 43,48,53,61                 | 0     |
| 1   | OMG  | 2A    | 2251 | 24/25 | 0.96 | 0.09 | 40,45,50,52                 | 0     |
| 1   | 2MU  | 2A    | 2552 | 21/23 | 0.96 | 0.09 | 44,49,52,58                 | 0     |
| 1   | PSU  | 2A    | 2605 | 20/21 | 0.96 | 0.08 | 36,42,47,51                 | 0     |
| 1   | 5MC  | 1A    | 1942 | 21/22 | 0.97 | 0.08 | 35,41,46,50                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 54  | F3N  | 2w    | 76   | 33/34 | 0.97 | 0.08 | 36,43,47,50                 | 0     |
| 1   | PSU  | 1A    | 1911 | 20/21 | 0.97 | 0.07 | 40,51,54,55                 | 0     |
| 32  | MA6  | 1a    | 1518 | 24/25 | 0.97 | 0.08 | 34,40,47,47                 | 0     |
| 1   | 8AH  | 2A    | 2503 | 24/25 | 0.97 | 0.10 | 35,40,43,49                 | 0     |
| 32  | MA6  | 1a    | 1519 | 24/25 | 0.97 | 0.08 | 33,41,45,49                 | 0     |
| 1   | PSU  | 1A    | 2605 | 20/21 | 0.97 | 0.07 | 23,29,32,35                 | 0     |
| 1   | 5MU  | 2A    | 1939 | 21/22 | 0.97 | 0.07 | 33,41,46,51                 | 0     |
| 32  | 5MC  | 1a    | 1404 | 21/22 | 0.98 | 0.06 | 34,40,45,47                 | 0     |
| 1   | 5MU  | 1A    | 1939 | 21/22 | 0.98 | 0.07 | 25,31,35,42                 | 0     |
| 1   | 8AH  | 1A    | 2503 | 24/25 | 0.98 | 0.07 | 16,25,30,32                 | 0     |
| 32  | UR3  | 1a    | 1498 | 21/22 | 0.98 | 0.07 | 37,42,45,48                 | 0     |
| 1   | 2MU  | 1A    | 2552 | 21/23 | 0.98 | 0.07 | 24,29,34,35                 | 0     |
| 54  | F3N  | 1w    | 76   | 33/34 | 0.98 | 0.07 | 19,27,32,33                 | 0     |
| 1   | OMC  | 1A    | 1920 | 21/22 | 0.98 | 0.07 | 38,47,50,52                 | 0     |
| 1   | 5MC  | 1A    | 1962 | 21/22 | 0.98 | 0.06 | 28,34,37,41                 | 0     |
| 1   | OMG  | 1A    | 2251 | 24/25 | 0.99 | 0.05 | 22,26,30,33                 | 0     |

### 6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

### 6.4 Ligands [i](#)

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

| Mol | Type | Chain | Res  | Atoms | RSCC  | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|-------|------|-----------------------------|-------|
| 57  | MG   | 1B    | 230  | 1/1   | -0.02 | 0.25 | 84,84,84,84                 | 0     |
| 57  | MG   | 1A    | 4003 | 1/1   | 0.38  | 0.19 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3264 | 1/1   | 0.49  | 0.36 | 82,82,82,82                 | 0     |
| 57  | MG   | 2A    | 3384 | 1/1   | 0.49  | 0.32 | 91,91,91,91                 | 0     |
| 57  | MG   | 2A    | 3674 | 1/1   | 0.54  | 0.29 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3592 | 1/1   | 0.55  | 0.32 | 73,73,73,73                 | 0     |
| 57  | MG   | 10    | 106  | 1/1   | 0.58  | 0.28 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 4041 | 1/1   | 0.59  | 0.33 | 70,70,70,70                 | 0     |
| 57  | MG   | 1x    | 111  | 1/1   | 0.60  | 0.20 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3562 | 1/1   | 0.61  | 0.32 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3451 | 1/1   | 0.61  | 0.25 | 68,68,68,68                 | 0     |
| 57  | MG   | 2E    | 302  | 1/1   | 0.63  | 0.17 | 67,67,67,67                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2y    | 105  | 1/1   | 0.63 | 0.28 | 89,89,89,89                 | 0     |
| 57  | MG   | 2A    | 3491 | 1/1   | 0.65 | 0.17 | 82,82,82,82                 | 0     |
| 57  | MG   | 2A    | 3772 | 1/1   | 0.65 | 0.30 | 77,77,77,77                 | 0     |
| 57  | MG   | 1O    | 204  | 1/1   | 0.66 | 0.29 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3884 | 1/1   | 0.66 | 0.30 | 47,47,47,47                 | 0     |
| 57  | MG   | 2w    | 103  | 1/1   | 0.66 | 0.21 | 93,93,93,93                 | 0     |
| 57  | MG   | 1B    | 237  | 1/1   | 0.66 | 0.17 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3791 | 1/1   | 0.68 | 0.19 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 4035 | 1/1   | 0.68 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3235 | 1/1   | 0.69 | 0.21 | 80,80,80,80                 | 0     |
| 57  | MG   | 2A    | 3639 | 1/1   | 0.69 | 0.19 | 88,88,88,88                 | 0     |
| 57  | MG   | 1A    | 4101 | 1/1   | 0.69 | 0.21 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3316 | 1/1   | 0.69 | 0.39 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3525 | 1/1   | 0.70 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3790 | 1/1   | 0.70 | 0.19 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3356 | 1/1   | 0.70 | 0.24 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3792 | 1/1   | 0.70 | 0.27 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3634 | 1/1   | 0.70 | 0.21 | 66,66,66,66                 | 0     |
| 57  | MG   | 18    | 105  | 1/1   | 0.70 | 0.27 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 4022 | 1/1   | 0.70 | 0.24 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1629 | 1/1   | 0.71 | 0.18 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3387 | 1/1   | 0.71 | 0.33 | 79,79,79,79                 | 0     |
| 57  | MG   | 2A    | 3062 | 1/1   | 0.71 | 0.20 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3097 | 1/1   | 0.71 | 0.28 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3749 | 1/1   | 0.72 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3502 | 1/1   | 0.72 | 0.13 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3161 | 1/1   | 0.72 | 0.12 | 87,87,87,87                 | 0     |
| 57  | MG   | 2A    | 3031 | 1/1   | 0.72 | 0.29 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3641 | 1/1   | 0.72 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3983 | 1/1   | 0.72 | 0.18 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3500 | 1/1   | 0.72 | 0.25 | 84,84,84,84                 | 0     |
| 57  | MG   | 2y    | 104  | 1/1   | 0.72 | 0.15 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3721 | 1/1   | 0.72 | 0.16 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3795 | 1/1   | 0.73 | 0.17 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3819 | 1/1   | 0.73 | 0.22 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3506 | 1/1   | 0.73 | 0.24 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3499 | 1/1   | 0.73 | 0.23 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3925 | 1/1   | 0.73 | 0.18 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3939 | 1/1   | 0.73 | 0.23 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 4050 | 1/1   | 0.73 | 0.18 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4073 | 1/1   | 0.73 | 0.15 | 73,73,73,73                 | 0     |
| 57  | MG   | 1a    | 1655 | 1/1   | 0.73 | 0.18 | 66,66,66,66                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2y    | 102  | 1/1   | 0.73 | 0.22 | 87,87,87,87                 | 0     |
| 57  | MG   | 1a    | 1786 | 1/1   | 0.73 | 0.17 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3657 | 1/1   | 0.73 | 0.19 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3733 | 1/1   | 0.74 | 0.19 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3092 | 1/1   | 0.74 | 0.14 | 79,79,79,79                 | 0     |
| 57  | MG   | 2A    | 3562 | 1/1   | 0.74 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3141 | 1/1   | 0.74 | 0.25 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3620 | 1/1   | 0.74 | 0.16 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3633 | 1/1   | 0.74 | 0.26 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3499 | 1/1   | 0.74 | 0.23 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3016 | 1/1   | 0.74 | 0.30 | 67,67,67,67                 | 0     |
| 57  | MG   | 15    | 108  | 1/1   | 0.74 | 0.44 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3269 | 1/1   | 0.74 | 0.21 | 73,73,73,73                 | 0     |
| 57  | MG   | 1a    | 1685 | 1/1   | 0.74 | 0.21 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1645 | 1/1   | 0.75 | 0.26 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3318 | 1/1   | 0.75 | 0.41 | 72,72,72,72                 | 0     |
| 57  | MG   | 1S    | 201  | 1/1   | 0.75 | 0.35 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4070 | 1/1   | 0.75 | 0.17 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1785 | 1/1   | 0.75 | 0.19 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3479 | 1/1   | 0.75 | 0.23 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3494 | 1/1   | 0.75 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3644 | 1/1   | 0.75 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 1b    | 301  | 1/1   | 0.75 | 0.22 | 86,86,86,86                 | 0     |
| 57  | MG   | 1D    | 311  | 1/1   | 0.75 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3814 | 1/1   | 0.75 | 0.16 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1659 | 1/1   | 0.76 | 0.45 | 80,80,80,80                 | 0     |
| 57  | MG   | 1S    | 203  | 1/1   | 0.76 | 0.15 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3673 | 1/1   | 0.76 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1725 | 1/1   | 0.76 | 0.15 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3686 | 1/1   | 0.76 | 0.34 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3072 | 1/1   | 0.76 | 0.30 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3757 | 1/1   | 0.76 | 0.12 | 22,22,22,22                 | 0     |
| 57  | MG   | 1a    | 1818 | 1/1   | 0.76 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4042 | 1/1   | 0.76 | 0.28 | 40,40,40,40                 | 0     |
| 57  | MG   | 1q    | 201  | 1/1   | 0.76 | 0.18 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3567 | 1/1   | 0.76 | 0.37 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3503 | 1/1   | 0.76 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 2B    | 201  | 1/1   | 0.76 | 0.32 | 75,75,75,75                 | 0     |
| 57  | MG   | 2B    | 203  | 1/1   | 0.76 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3617 | 1/1   | 0.76 | 0.25 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3908 | 1/1   | 0.76 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3909 | 1/1   | 0.76 | 0.12 | 61,61,61,61                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3403 | 1/1   | 0.76 | 0.35 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3404 | 1/1   | 0.76 | 0.22 | 72,72,72,72                 | 0     |
| 57  | MG   | 2y    | 107  | 1/1   | 0.76 | 0.19 | 84,84,84,84                 | 0     |
| 57  | MG   | 1a    | 1648 | 1/1   | 0.77 | 0.25 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 4103 | 1/1   | 0.77 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3704 | 1/1   | 0.77 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3708 | 1/1   | 0.77 | 0.19 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3978 | 1/1   | 0.77 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 1B    | 231  | 1/1   | 0.77 | 0.24 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3532 | 1/1   | 0.77 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3776 | 1/1   | 0.77 | 0.25 | 84,84,84,84                 | 0     |
| 57  | MG   | 1A    | 3291 | 1/1   | 0.77 | 0.18 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3428 | 1/1   | 0.77 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3533 | 1/1   | 0.77 | 0.20 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3824 | 1/1   | 0.77 | 0.22 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3293 | 1/1   | 0.77 | 0.33 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3485 | 1/1   | 0.77 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3673 | 1/1   | 0.77 | 0.13 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3734 | 1/1   | 0.77 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3649 | 1/1   | 0.77 | 0.15 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3041 | 1/1   | 0.77 | 0.36 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3352 | 1/1   | 0.77 | 0.30 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3564 | 1/1   | 0.78 | 0.14 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3271 | 1/1   | 0.78 | 0.21 | 80,80,80,80                 | 0     |
| 57  | MG   | 2A    | 3669 | 1/1   | 0.78 | 0.17 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3580 | 1/1   | 0.78 | 0.24 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3106 | 1/1   | 0.78 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3669 | 1/1   | 0.78 | 0.24 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 4010 | 1/1   | 0.78 | 0.12 | 83,83,83,83                 | 0     |
| 57  | MG   | 2Z    | 301  | 1/1   | 0.78 | 0.14 | 80,80,80,80                 | 0     |
| 57  | MG   | 2A    | 3057 | 1/1   | 0.78 | 0.21 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3709 | 1/1   | 0.78 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3238 | 1/1   | 0.78 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 4018 | 1/1   | 0.78 | 0.23 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3945 | 1/1   | 0.78 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1604 | 1/1   | 0.79 | 0.20 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3711 | 1/1   | 0.79 | 0.26 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1632 | 1/1   | 0.79 | 0.35 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 4008 | 1/1   | 0.79 | 0.15 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3721 | 1/1   | 0.79 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 1a    | 1650 | 1/1   | 0.79 | 0.25 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 4014 | 1/1   | 0.79 | 0.14 | 59,59,59,59                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3895 | 1/1   | 0.79 | 0.22 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3518 | 1/1   | 0.79 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3144 | 1/1   | 0.79 | 0.36 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3729 | 1/1   | 0.79 | 0.25 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3762 | 1/1   | 0.79 | 0.14 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3221 | 1/1   | 0.79 | 0.28 | 77,77,77,77                 | 0     |
| 57  | MG   | 1E    | 311  | 1/1   | 0.79 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1727 | 1/1   | 0.79 | 0.16 | 82,82,82,82                 | 0     |
| 57  | MG   | 1A    | 3329 | 1/1   | 0.79 | 0.20 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3591 | 1/1   | 0.79 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3222 | 1/1   | 0.79 | 0.18 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3051 | 1/1   | 0.79 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3298 | 1/1   | 0.79 | 0.26 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3301 | 1/1   | 0.79 | 0.34 | 55,55,55,55                 | 0     |
| 57  | MG   | 2w    | 105  | 1/1   | 0.79 | 0.21 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 3198 | 1/1   | 0.79 | 0.19 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3447 | 1/1   | 0.79 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 1v    | 101  | 1/1   | 0.79 | 0.24 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3696 | 1/1   | 0.79 | 0.21 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3456 | 1/1   | 0.80 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3247 | 1/1   | 0.80 | 0.16 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3252 | 1/1   | 0.80 | 0.27 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3699 | 1/1   | 0.80 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1814 | 1/1   | 0.80 | 0.21 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3521 | 1/1   | 0.80 | 0.25 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3099 | 1/1   | 0.80 | 0.26 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3831 | 1/1   | 0.80 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3310 | 1/1   | 0.80 | 0.33 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3312 | 1/1   | 0.80 | 0.24 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3753 | 1/1   | 0.80 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3975 | 1/1   | 0.80 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3712 | 1/1   | 0.80 | 0.18 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3789 | 1/1   | 0.80 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3329 | 1/1   | 0.80 | 0.23 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3338 | 1/1   | 0.80 | 0.28 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3355 | 1/1   | 0.80 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3598 | 1/1   | 0.80 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3786 | 1/1   | 0.80 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 2B    | 208  | 1/1   | 0.80 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3182 | 1/1   | 0.80 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3199 | 1/1   | 0.80 | 0.18 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3666 | 1/1   | 0.80 | 0.18 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3410 | 1/1   | 0.80 | 0.12 | 73,73,73,73                 | 0     |
| 57  | MG   | 2x    | 103  | 1/1   | 0.80 | 0.14 | 76,76,76,76                 | 0     |
| 57  | MG   | 2x    | 107  | 1/1   | 0.80 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3426 | 1/1   | 0.80 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 2y    | 103  | 1/1   | 0.80 | 0.14 | 80,80,80,80                 | 0     |
| 57  | MG   | 2A    | 3648 | 1/1   | 0.80 | 0.21 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3427 | 1/1   | 0.80 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 4058 | 1/1   | 0.80 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3302 | 1/1   | 0.81 | 0.19 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3142 | 1/1   | 0.81 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3882 | 1/1   | 0.81 | 0.15 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3160 | 1/1   | 0.81 | 0.19 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1742 | 1/1   | 0.81 | 0.15 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1782 | 1/1   | 0.81 | 0.28 | 85,85,85,85                 | 0     |
| 57  | MG   | 2A    | 3188 | 1/1   | 0.81 | 0.16 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 4061 | 1/1   | 0.81 | 0.12 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3281 | 1/1   | 0.81 | 0.34 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3715 | 1/1   | 0.81 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3693 | 1/1   | 0.81 | 0.15 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3731 | 1/1   | 0.81 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3331 | 1/1   | 0.81 | 0.21 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1623 | 1/1   | 0.81 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3514 | 1/1   | 0.81 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3560 | 1/1   | 0.81 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4104 | 1/1   | 0.81 | 0.22 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1634 | 1/1   | 0.81 | 0.28 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3538 | 1/1   | 0.81 | 0.26 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3546 | 1/1   | 0.81 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3350 | 1/1   | 0.81 | 0.38 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3023 | 1/1   | 0.81 | 0.28 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3160 | 1/1   | 0.81 | 0.32 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 4024 | 1/1   | 0.81 | 0.31 | 74,74,74,74                 | 0     |
| 57  | MG   | 2B    | 210  | 1/1   | 0.81 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3713 | 1/1   | 0.81 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1656 | 1/1   | 0.81 | 0.22 | 68,68,68,68                 | 0     |
| 57  | MG   | 25    | 103  | 1/1   | 0.81 | 0.15 | 76,76,76,76                 | 0     |
| 57  | MG   | 2w    | 102  | 1/1   | 0.81 | 0.28 | 86,86,86,86                 | 0     |
| 57  | MG   | 2A    | 3328 | 1/1   | 0.81 | 0.17 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3605 | 1/1   | 0.81 | 0.28 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3082 | 1/1   | 0.81 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3949 | 1/1   | 0.81 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3246 | 1/1   | 0.81 | 0.15 | 56,56,56,56                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3356 | 1/1   | 0.81 | 0.25 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3369 | 1/1   | 0.81 | 0.22 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3102 | 1/1   | 0.81 | 0.14 | 72,72,72,72                 | 0     |
| 57  | MG   | 1a    | 1711 | 1/1   | 0.81 | 0.13 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3788 | 1/1   | 0.82 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1710 | 1/1   | 0.82 | 0.28 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3571 | 1/1   | 0.82 | 0.25 | 84,84,84,84                 | 0     |
| 57  | MG   | 2A    | 3408 | 1/1   | 0.82 | 0.10 | 81,81,81,81                 | 0     |
| 57  | MG   | 2A    | 3757 | 1/1   | 0.82 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3294 | 1/1   | 0.82 | 0.24 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3422 | 1/1   | 0.82 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3423 | 1/1   | 0.82 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3840 | 1/1   | 0.82 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3607 | 1/1   | 0.82 | 0.13 | 66,66,66,66                 | 0     |
| 57  | MG   | 1w    | 104  | 1/1   | 0.82 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1722 | 1/1   | 0.82 | 0.18 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3653 | 1/1   | 0.82 | 0.18 | 40,40,40,40                 | 0     |
| 57  | MG   | 2B    | 205  | 1/1   | 0.82 | 0.25 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3477 | 1/1   | 0.82 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3968 | 1/1   | 0.82 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 2B    | 214  | 1/1   | 0.82 | 0.24 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3493 | 1/1   | 0.82 | 0.20 | 77,77,77,77                 | 0     |
| 57  | MG   | 1a    | 1741 | 1/1   | 0.82 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3322 | 1/1   | 0.82 | 0.16 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3520 | 1/1   | 0.82 | 0.12 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3050 | 1/1   | 0.82 | 0.28 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3818 | 1/1   | 0.82 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 2w    | 106  | 1/1   | 0.82 | 0.37 | 82,82,82,82                 | 0     |
| 57  | MG   | 2A    | 3352 | 1/1   | 0.82 | 0.24 | 65,65,65,65                 | 0     |
| 57  | MG   | 2x    | 106  | 1/1   | 0.82 | 0.19 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3237 | 1/1   | 0.82 | 0.23 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 3456 | 1/1   | 0.82 | 0.14 | 61,61,61,61                 | 0     |
| 57  | MG   | 1B    | 222  | 1/1   | 0.82 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3823 | 1/1   | 0.82 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3560 | 1/1   | 0.82 | 0.17 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3381 | 1/1   | 0.82 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3680 | 1/1   | 0.83 | 0.13 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 4113 | 1/1   | 0.83 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1810 | 1/1   | 0.83 | 0.19 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1635 | 1/1   | 0.83 | 0.23 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3662 | 1/1   | 0.83 | 0.20 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1816 | 1/1   | 0.83 | 0.35 | 67,67,67,67                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3229 | 1/1   | 0.83 | 0.12 | 76,76,76,76                 | 0     |
| 57  | MG   | 1a    | 1817 | 1/1   | 0.83 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3444 | 1/1   | 0.83 | 0.13 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3700 | 1/1   | 0.83 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1646 | 1/1   | 0.83 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3240 | 1/1   | 0.83 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3296 | 1/1   | 0.83 | 0.22 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3697 | 1/1   | 0.83 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3239 | 1/1   | 0.83 | 0.21 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3475 | 1/1   | 0.83 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3117 | 1/1   | 0.83 | 0.22 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3275 | 1/1   | 0.83 | 0.29 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3511 | 1/1   | 0.83 | 0.24 | 74,74,74,74                 | 0     |
| 57  | MG   | 1a    | 1664 | 1/1   | 0.83 | 0.29 | 73,73,73,73                 | 0     |
| 57  | MG   | 1a    | 1666 | 1/1   | 0.83 | 0.19 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3631 | 1/1   | 0.83 | 0.22 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3783 | 1/1   | 0.83 | 0.20 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3529 | 1/1   | 0.83 | 0.24 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1686 | 1/1   | 0.83 | 0.18 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 4051 | 1/1   | 0.83 | 0.13 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3543 | 1/1   | 0.83 | 0.26 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3804 | 1/1   | 0.83 | 0.26 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 4056 | 1/1   | 0.83 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 2B    | 202  | 1/1   | 0.83 | 0.24 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3247 | 1/1   | 0.83 | 0.19 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3320 | 1/1   | 0.83 | 0.20 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3084 | 1/1   | 0.83 | 0.27 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3496 | 1/1   | 0.83 | 0.16 | 87,87,87,87                 | 0     |
| 57  | MG   | 1A    | 3989 | 1/1   | 0.83 | 0.11 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3332 | 1/1   | 0.83 | 0.22 | 72,72,72,72                 | 0     |
| 57  | MG   | 2E    | 307  | 1/1   | 0.83 | 0.17 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3581 | 1/1   | 0.83 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3387 | 1/1   | 0.83 | 0.20 | 75,75,75,75                 | 0     |
| 57  | MG   | 27    | 102  | 1/1   | 0.83 | 0.32 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3399 | 1/1   | 0.83 | 0.27 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3108 | 1/1   | 0.83 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3125 | 1/1   | 0.83 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3365 | 1/1   | 0.83 | 0.23 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3608 | 1/1   | 0.83 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3610 | 1/1   | 0.83 | 0.23 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3615 | 1/1   | 0.83 | 0.20 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1746 | 1/1   | 0.83 | 0.12 | 78,78,78,78                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1755 | 1/1   | 0.83 | 0.14 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3386 | 1/1   | 0.83 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3338 | 1/1   | 0.83 | 0.21 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3158 | 1/1   | 0.83 | 0.34 | 79,79,79,79                 | 0     |
| 57  | MG   | 2A    | 3018 | 1/1   | 0.84 | 0.20 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3905 | 1/1   | 0.84 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3375 | 1/1   | 0.84 | 0.23 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3596 | 1/1   | 0.84 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3238 | 1/1   | 0.84 | 0.21 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3476 | 1/1   | 0.84 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3245 | 1/1   | 0.84 | 0.34 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3590 | 1/1   | 0.84 | 0.32 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3927 | 1/1   | 0.84 | 0.12 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3408 | 1/1   | 0.84 | 0.23 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3076 | 1/1   | 0.84 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1787 | 1/1   | 0.84 | 0.11 | 74,74,74,74                 | 0     |
| 57  | MG   | 1a    | 1795 | 1/1   | 0.84 | 0.19 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1807 | 1/1   | 0.84 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1809 | 1/1   | 0.84 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3297 | 1/1   | 0.84 | 0.37 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3367 | 1/1   | 0.84 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3514 | 1/1   | 0.84 | 0.25 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3480 | 1/1   | 0.84 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 1B    | 233  | 1/1   | 0.84 | 0.21 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1691 | 1/1   | 0.84 | 0.28 | 68,68,68,68                 | 0     |
| 57  | MG   | 2D    | 306  | 1/1   | 0.84 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 4059 | 1/1   | 0.84 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3951 | 1/1   | 0.84 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 2O    | 201  | 1/1   | 0.84 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3143 | 1/1   | 0.84 | 0.22 | 72,72,72,72                 | 0     |
| 57  | MG   | 1l    | 201  | 1/1   | 0.84 | 0.17 | 82,82,82,82                 | 0     |
| 57  | MG   | 2A    | 3510 | 1/1   | 0.84 | 0.13 | 71,71,71,71                 | 0     |
| 57  | MG   | 2w    | 101  | 1/1   | 0.84 | 0.12 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3327 | 1/1   | 0.84 | 0.17 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3151 | 1/1   | 0.84 | 0.38 | 67,67,67,67                 | 0     |
| 57  | MG   | 2w    | 104  | 1/1   | 0.84 | 0.11 | 80,80,80,80                 | 0     |
| 57  | MG   | 1D    | 312  | 1/1   | 0.84 | 0.27 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3331 | 1/1   | 0.84 | 0.14 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3696 | 1/1   | 0.84 | 0.17 | 82,82,82,82                 | 0     |
| 57  | MG   | 1a    | 1643 | 1/1   | 0.84 | 0.28 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3701 | 1/1   | 0.84 | 0.11 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3708 | 1/1   | 0.84 | 0.21 | 44,44,44,44                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3705 | 1/1   | 0.84 | 0.11 | 68,68,68,68                 | 0     |
| 57  | MG   | 1x    | 108  | 1/1   | 0.84 | 0.31 | 72,72,72,72                 | 0     |
| 57  | MG   | 1a    | 1736 | 1/1   | 0.84 | 0.23 | 76,76,76,76                 | 0     |
| 57  | MG   | 1O    | 203  | 1/1   | 0.84 | 0.12 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3398 | 1/1   | 0.85 | 0.17 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3400 | 1/1   | 0.85 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3653 | 1/1   | 0.85 | 0.20 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3027 | 1/1   | 0.85 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3661 | 1/1   | 0.85 | 0.17 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3181 | 1/1   | 0.85 | 0.25 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3853 | 1/1   | 0.85 | 0.16 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3184 | 1/1   | 0.85 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3187 | 1/1   | 0.85 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3679 | 1/1   | 0.85 | 0.20 | 71,71,71,71                 | 0     |
| 57  | MG   | 1m    | 3001 | 1/1   | 0.85 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3189 | 1/1   | 0.85 | 0.17 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3198 | 1/1   | 0.85 | 0.30 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 4060 | 1/1   | 0.85 | 0.17 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3455 | 1/1   | 0.85 | 0.45 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3226 | 1/1   | 0.85 | 0.16 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1692 | 1/1   | 0.85 | 0.20 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3231 | 1/1   | 0.85 | 0.28 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3710 | 1/1   | 0.85 | 0.24 | 85,85,85,85                 | 0     |
| 57  | MG   | 1w    | 101  | 1/1   | 0.85 | 0.37 | 74,74,74,74                 | 0     |
| 57  | MG   | 1a    | 1694 | 1/1   | 0.85 | 0.24 | 62,62,62,62                 | 0     |
| 57  | MG   | 1w    | 108  | 1/1   | 0.85 | 0.29 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3870 | 1/1   | 0.85 | 0.14 | 25,25,25,25                 | 0     |
| 57  | MG   | 1l    | 105  | 1/1   | 0.85 | 0.20 | 78,78,78,78                 | 0     |
| 57  | MG   | 1a    | 1718 | 1/1   | 0.85 | 0.17 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3703 | 1/1   | 0.85 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3284 | 1/1   | 0.85 | 0.31 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 4007 | 1/1   | 0.85 | 0.13 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3889 | 1/1   | 0.85 | 0.16 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3523 | 1/1   | 0.85 | 0.11 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3272 | 1/1   | 0.85 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3274 | 1/1   | 0.85 | 0.25 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3042 | 1/1   | 0.85 | 0.18 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3794 | 1/1   | 0.85 | 0.19 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3002 | 1/1   | 0.85 | 0.16 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3054 | 1/1   | 0.85 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3794 | 1/1   | 0.85 | 0.22 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3547 | 1/1   | 0.85 | 0.20 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1743 | 1/1   | 0.85 | 0.12 | 87,87,87,87                 | 0     |
| 57  | MG   | 1B    | 212  | 1/1   | 0.85 | 0.17 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3425 | 1/1   | 0.85 | 0.21 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1771 | 1/1   | 0.85 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3090 | 1/1   | 0.85 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3575 | 1/1   | 0.85 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1B    | 224  | 1/1   | 0.85 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3098 | 1/1   | 0.85 | 0.17 | 82,82,82,82                 | 0     |
| 57  | MG   | 1B    | 227  | 1/1   | 0.85 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 23    | 101  | 1/1   | 0.85 | 0.19 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3507 | 1/1   | 0.85 | 0.21 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3604 | 1/1   | 0.85 | 0.16 | 16,16,16,16                 | 0     |
| 57  | MG   | 1a    | 1649 | 1/1   | 0.85 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3604 | 1/1   | 0.85 | 0.23 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3110 | 1/1   | 0.85 | 0.15 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3101 | 1/1   | 0.85 | 0.31 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3138 | 1/1   | 0.85 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3139 | 1/1   | 0.85 | 0.31 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1654 | 1/1   | 0.85 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3295 | 1/1   | 0.85 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1813 | 1/1   | 0.85 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3625 | 1/1   | 0.85 | 0.19 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3735 | 1/1   | 0.85 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3825 | 1/1   | 0.85 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3830 | 1/1   | 0.85 | 0.09 | 61,61,61,61                 | 0     |
| 57  | MG   | 2y    | 106  | 1/1   | 0.85 | 0.21 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3741 | 1/1   | 0.85 | 0.10 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3832 | 1/1   | 0.86 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3585 | 1/1   | 0.86 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3567 | 1/1   | 0.86 | 0.19 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3270 | 1/1   | 0.86 | 0.28 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3588 | 1/1   | 0.86 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3595 | 1/1   | 0.86 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3858 | 1/1   | 0.86 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3599 | 1/1   | 0.86 | 0.31 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3859 | 1/1   | 0.86 | 0.14 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3716 | 1/1   | 0.86 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3281 | 1/1   | 0.86 | 0.22 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3874 | 1/1   | 0.86 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3295 | 1/1   | 0.86 | 0.26 | 59,59,59,59                 | 0     |
| 57  | MG   | 1x    | 106  | 1/1   | 0.86 | 0.22 | 58,58,58,58                 | 0     |
| 57  | MG   | 1x    | 107  | 1/1   | 0.86 | 0.24 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3877 | 1/1   | 0.86 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3305 | 1/1   | 0.86 | 0.40 | 71,71,71,71                 | 0     |
| 57  | MG   | 1x    | 109  | 1/1   | 0.86 | 0.14 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 4052 | 1/1   | 0.86 | 0.14 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3484 | 1/1   | 0.86 | 0.20 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3642 | 1/1   | 0.86 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3317 | 1/1   | 0.86 | 0.22 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3725 | 1/1   | 0.86 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3020 | 1/1   | 0.86 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3726 | 1/1   | 0.86 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3893 | 1/1   | 0.86 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3658 | 1/1   | 0.86 | 0.24 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3659 | 1/1   | 0.86 | 0.14 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3359 | 1/1   | 0.86 | 0.12 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1651 | 1/1   | 0.86 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3330 | 1/1   | 0.86 | 0.34 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3672 | 1/1   | 0.86 | 0.15 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1652 | 1/1   | 0.86 | 0.12 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3901 | 1/1   | 0.86 | 0.12 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 4071 | 1/1   | 0.86 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3343 | 1/1   | 0.86 | 0.34 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3902 | 1/1   | 0.86 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3065 | 1/1   | 0.86 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4091 | 1/1   | 0.86 | 0.11 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3357 | 1/1   | 0.86 | 0.26 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3625 | 1/1   | 0.86 | 0.21 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3413 | 1/1   | 0.86 | 0.30 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3085 | 1/1   | 0.86 | 0.21 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3380 | 1/1   | 0.86 | 0.16 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3382 | 1/1   | 0.86 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3720 | 1/1   | 0.86 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1667 | 1/1   | 0.86 | 0.26 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3724 | 1/1   | 0.86 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1676 | 1/1   | 0.86 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3640 | 1/1   | 0.86 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4105 | 1/1   | 0.86 | 0.19 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 4109 | 1/1   | 0.86 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3911 | 1/1   | 0.86 | 0.12 | 29,29,29,29                 | 0     |
| 57  | MG   | 1B    | 203  | 1/1   | 0.86 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3417 | 1/1   | 0.86 | 0.15 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3778 | 1/1   | 0.86 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1B    | 216  | 1/1   | 0.86 | 0.15 | 54,54,54,54                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3784 | 1/1   | 0.86 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3786 | 1/1   | 0.86 | 0.20 | 72,72,72,72                 | 0     |
| 57  | MG   | 1B    | 219  | 1/1   | 0.86 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3423 | 1/1   | 0.86 | 0.20 | 45,45,45,45                 | 0     |
| 57  | MG   | 1B    | 223  | 1/1   | 0.86 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3361 | 1/1   | 0.86 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1731 | 1/1   | 0.86 | 0.28 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3796 | 1/1   | 0.86 | 0.18 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3141 | 1/1   | 0.86 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3510 | 1/1   | 0.86 | 0.28 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3465 | 1/1   | 0.86 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3154 | 1/1   | 0.86 | 0.25 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3377 | 1/1   | 0.86 | 0.15 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3519 | 1/1   | 0.86 | 0.18 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3325 | 1/1   | 0.86 | 0.15 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3171 | 1/1   | 0.86 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 2D    | 303  | 1/1   | 0.86 | 0.36 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1753 | 1/1   | 0.86 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3042 | 1/1   | 0.86 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1756 | 1/1   | 0.86 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 2G    | 201  | 1/1   | 0.86 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3979 | 1/1   | 0.86 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 1E    | 306  | 1/1   | 0.86 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 2I    | 101  | 1/1   | 0.86 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3391 | 1/1   | 0.86 | 0.17 | 58,58,58,58                 | 0     |
| 57  | MG   | 25    | 101  | 1/1   | 0.86 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3396 | 1/1   | 0.86 | 0.27 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3202 | 1/1   | 0.86 | 0.16 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3292 | 1/1   | 0.86 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 1Q    | 204  | 1/1   | 0.86 | 0.20 | 73,73,73,73                 | 0     |
| 57  | MG   | 1Q    | 207  | 1/1   | 0.86 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1R    | 204  | 1/1   | 0.86 | 0.19 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3540 | 1/1   | 0.86 | 0.10 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3827 | 1/1   | 0.86 | 0.30 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3829 | 1/1   | 0.86 | 0.11 | 69,69,69,69                 | 0     |
| 57  | MG   | 1T    | 203  | 1/1   | 0.86 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 1V    | 207  | 1/1   | 0.86 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1W    | 202  | 1/1   | 0.86 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3710 | 1/1   | 0.86 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3250 | 1/1   | 0.86 | 0.25 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3565 | 1/1   | 0.86 | 0.27 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3253 | 1/1   | 0.86 | 0.30 | 64,64,64,64                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3256 | 1/1   | 0.86 | 0.24 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3244 | 1/1   | 0.87 | 0.14 | 72,72,72,72                 | 0     |
| 57  | MG   | 1B    | 214  | 1/1   | 0.87 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3413 | 1/1   | 0.87 | 0.35 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3752 | 1/1   | 0.87 | 0.10 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3162 | 1/1   | 0.87 | 0.23 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1764 | 1/1   | 0.87 | 0.14 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3762 | 1/1   | 0.87 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3440 | 1/1   | 0.87 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3079 | 1/1   | 0.87 | 0.27 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3081 | 1/1   | 0.87 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3467 | 1/1   | 0.87 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3461 | 1/1   | 0.87 | 0.17 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3683 | 1/1   | 0.87 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 4038 | 1/1   | 0.87 | 0.24 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3687 | 1/1   | 0.87 | 0.25 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3688 | 1/1   | 0.87 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3466 | 1/1   | 0.87 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3467 | 1/1   | 0.87 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3474 | 1/1   | 0.87 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3914 | 1/1   | 0.87 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3243 | 1/1   | 0.87 | 0.21 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1790 | 1/1   | 0.87 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4044 | 1/1   | 0.87 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3279 | 1/1   | 0.87 | 0.23 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3851 | 1/1   | 0.87 | 0.24 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3285 | 1/1   | 0.87 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3373 | 1/1   | 0.87 | 0.19 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3506 | 1/1   | 0.87 | 0.22 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3728 | 1/1   | 0.87 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3730 | 1/1   | 0.87 | 0.10 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 3854 | 1/1   | 0.87 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4053 | 1/1   | 0.87 | 0.16 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3736 | 1/1   | 0.87 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3109 | 1/1   | 0.87 | 0.21 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3580 | 1/1   | 0.87 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3581 | 1/1   | 0.87 | 0.21 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3761 | 1/1   | 0.87 | 0.14 | 85,85,85,85                 | 0     |
| 57  | MG   | 2A    | 3524 | 1/1   | 0.87 | 0.19 | 75,75,75,75                 | 0     |
| 57  | MG   | 1F    | 311  | 1/1   | 0.87 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3311 | 1/1   | 0.87 | 0.23 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3780 | 1/1   | 0.87 | 0.14 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3781 | 1/1   | 0.87 | 0.21 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3953 | 1/1   | 0.87 | 0.24 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3800 | 1/1   | 0.87 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1674 | 1/1   | 0.87 | 0.32 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3788 | 1/1   | 0.87 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 1l    | 202  | 1/1   | 0.87 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3970 | 1/1   | 0.87 | 0.11 | 33,33,33,33                 | 0     |
| 57  | MG   | 1Q    | 206  | 1/1   | 0.87 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3811 | 1/1   | 0.87 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3561 | 1/1   | 0.87 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3795 | 1/1   | 0.87 | 0.22 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3174 | 1/1   | 0.87 | 0.18 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3799 | 1/1   | 0.87 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3803 | 1/1   | 0.87 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1w    | 102  | 1/1   | 0.87 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 1R    | 206  | 1/1   | 0.87 | 0.23 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3569 | 1/1   | 0.87 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3165 | 1/1   | 0.87 | 0.25 | 66,66,66,66                 | 0     |
| 57  | MG   | 1w    | 106  | 1/1   | 0.87 | 0.16 | 82,82,82,82                 | 0     |
| 57  | MG   | 2B    | 207  | 1/1   | 0.87 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3577 | 1/1   | 0.87 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3334 | 1/1   | 0.87 | 0.23 | 50,50,50,50                 | 0     |
| 57  | MG   | 2B    | 211  | 1/1   | 0.87 | 0.19 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3177 | 1/1   | 0.87 | 0.27 | 70,70,70,70                 | 0     |
| 57  | MG   | 2B    | 215  | 1/1   | 0.87 | 0.12 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3582 | 1/1   | 0.87 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 1w    | 107  | 1/1   | 0.87 | 0.27 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3587 | 1/1   | 0.87 | 0.19 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3817 | 1/1   | 0.87 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 1w    | 109  | 1/1   | 0.87 | 0.21 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 4083 | 1/1   | 0.87 | 0.19 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3443 | 1/1   | 0.87 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3597 | 1/1   | 0.87 | 0.35 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3362 | 1/1   | 0.87 | 0.44 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1714 | 1/1   | 0.87 | 0.21 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3378 | 1/1   | 0.87 | 0.18 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3372 | 1/1   | 0.87 | 0.22 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 4102 | 1/1   | 0.87 | 0.14 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3212 | 1/1   | 0.87 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3995 | 1/1   | 0.87 | 0.13 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3891 | 1/1   | 0.87 | 0.13 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3136 | 1/1   | 0.87 | 0.21 | 48,48,48,48                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3618 | 1/1   | 0.87 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3522 | 1/1   | 0.87 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3388 | 1/1   | 0.87 | 0.32 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3632 | 1/1   | 0.87 | 0.15 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3397 | 1/1   | 0.87 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3448 | 1/1   | 0.87 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1611 | 1/1   | 0.87 | 0.23 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3402 | 1/1   | 0.87 | 0.27 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4012 | 1/1   | 0.87 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3743 | 1/1   | 0.87 | 0.16 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3493 | 1/1   | 0.88 | 0.15 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3314 | 1/1   | 0.88 | 0.28 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3660 | 1/1   | 0.88 | 0.07 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3317 | 1/1   | 0.88 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3415 | 1/1   | 0.88 | 0.29 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3667 | 1/1   | 0.88 | 0.11 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 4072 | 1/1   | 0.88 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3838 | 1/1   | 0.88 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3028 | 1/1   | 0.88 | 0.36 | 62,62,62,62                 | 0     |
| 57  | MG   | 1V    | 206  | 1/1   | 0.88 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3676 | 1/1   | 0.88 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3428 | 1/1   | 0.88 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3438 | 1/1   | 0.88 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3033 | 1/1   | 0.88 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3080 | 1/1   | 0.88 | 0.21 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3453 | 1/1   | 0.88 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3691 | 1/1   | 0.88 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3736 | 1/1   | 0.88 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3699 | 1/1   | 0.88 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3044 | 1/1   | 0.88 | 0.28 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3459 | 1/1   | 0.88 | 0.13 | 69,69,69,69                 | 0     |
| 57  | MG   | 1W    | 206  | 1/1   | 0.88 | 0.18 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3462 | 1/1   | 0.88 | 0.14 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 4095 | 1/1   | 0.88 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3976 | 1/1   | 0.88 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3257 | 1/1   | 0.88 | 0.14 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3261 | 1/1   | 0.88 | 0.22 | 69,69,69,69                 | 0     |
| 57  | MG   | 1l    | 106  | 1/1   | 0.88 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3267 | 1/1   | 0.88 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1748 | 1/1   | 0.88 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3067 | 1/1   | 0.88 | 0.22 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3244 | 1/1   | 0.88 | 0.14 | 55,55,55,55                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3436 | 1/1   | 0.88 | 0.26 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1602 | 1/1   | 0.88 | 0.19 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3085 | 1/1   | 0.88 | 0.16 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3332 | 1/1   | 0.88 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3867 | 1/1   | 0.88 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1625 | 1/1   | 0.88 | 0.27 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3096 | 1/1   | 0.88 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3517 | 1/1   | 0.88 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3763 | 1/1   | 0.88 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3335 | 1/1   | 0.88 | 0.29 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3296 | 1/1   | 0.88 | 0.19 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 4006 | 1/1   | 0.88 | 0.11 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1633 | 1/1   | 0.88 | 0.30 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3782 | 1/1   | 0.88 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1793 | 1/1   | 0.88 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 1B    | 211  | 1/1   | 0.88 | 0.23 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3537 | 1/1   | 0.88 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3308 | 1/1   | 0.88 | 0.18 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3382 | 1/1   | 0.88 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1808 | 1/1   | 0.88 | 0.24 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1636 | 1/1   | 0.88 | 0.21 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3113 | 1/1   | 0.88 | 0.35 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3785 | 1/1   | 0.88 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3126 | 1/1   | 0.88 | 0.19 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3878 | 1/1   | 0.88 | 0.11 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3452 | 1/1   | 0.88 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3337 | 1/1   | 0.88 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3461 | 1/1   | 0.88 | 0.24 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3535 | 1/1   | 0.88 | 0.32 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3796 | 1/1   | 0.88 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1d    | 301  | 1/1   | 0.88 | 0.34 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3554 | 1/1   | 0.88 | 0.35 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3155 | 1/1   | 0.88 | 0.27 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3336 | 1/1   | 0.88 | 0.28 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 4037 | 1/1   | 0.88 | 0.08 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3068 | 1/1   | 0.88 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3347 | 1/1   | 0.88 | 0.32 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3349 | 1/1   | 0.88 | 0.19 | 69,69,69,69                 | 0     |
| 57  | MG   | 2B    | 216  | 1/1   | 0.88 | 0.28 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3350 | 1/1   | 0.88 | 0.21 | 58,58,58,58                 | 0     |
| 57  | MG   | 1B    | 236  | 1/1   | 0.88 | 0.17 | 71,71,71,71                 | 0     |
| 57  | MG   | 2E    | 301  | 1/1   | 0.88 | 0.15 | 70,70,70,70                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3813 | 1/1   | 0.88 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3166 | 1/1   | 0.88 | 0.23 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3167 | 1/1   | 0.88 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3253 | 1/1   | 0.88 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 2W    | 203  | 1/1   | 0.88 | 0.26 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3260 | 1/1   | 0.88 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 20    | 101  | 1/1   | 0.88 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 1w    | 103  | 1/1   | 0.88 | 0.21 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3370 | 1/1   | 0.88 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3407 | 1/1   | 0.88 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3480 | 1/1   | 0.88 | 0.13 | 45,45,45,45                 | 0     |
| 57  | MG   | 1F    | 310  | 1/1   | 0.88 | 0.16 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3353 | 1/1   | 0.88 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3719 | 1/1   | 0.88 | 0.12 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3720 | 1/1   | 0.88 | 0.08 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3200 | 1/1   | 0.88 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3929 | 1/1   | 0.88 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3390 | 1/1   | 0.88 | 0.09 | 75,75,75,75                 | 0     |
| 57  | MG   | 2x    | 101  | 1/1   | 0.88 | 0.14 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3204 | 1/1   | 0.88 | 0.38 | 55,55,55,55                 | 0     |
| 57  | MG   | 2x    | 104  | 1/1   | 0.88 | 0.38 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3205 | 1/1   | 0.88 | 0.21 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3099 | 1/1   | 0.88 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 2y    | 101  | 1/1   | 0.88 | 0.09 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3645 | 1/1   | 0.88 | 0.12 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3401 | 1/1   | 0.88 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3218 | 1/1   | 0.88 | 0.24 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3651 | 1/1   | 0.88 | 0.25 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3488 | 1/1   | 0.88 | 0.42 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3222 | 1/1   | 0.88 | 0.10 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3239 | 1/1   | 0.89 | 0.27 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3783 | 1/1   | 0.89 | 0.08 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3058 | 1/1   | 0.89 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4026 | 1/1   | 0.89 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3668 | 1/1   | 0.89 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3542 | 1/1   | 0.89 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3433 | 1/1   | 0.89 | 0.26 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3888 | 1/1   | 0.89 | 0.14 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3789 | 1/1   | 0.89 | 0.08 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3434 | 1/1   | 0.89 | 0.31 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3061 | 1/1   | 0.89 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3176 | 1/1   | 0.89 | 0.07 | 45,45,45,45                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3258 | 1/1   | 0.89 | 0.17 | 67,67,67,67                 | 0     |
| 57  | MG   | 1Q    | 205  | 1/1   | 0.89 | 0.29 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3438 | 1/1   | 0.89 | 0.09 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3071 | 1/1   | 0.89 | 0.23 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3457 | 1/1   | 0.89 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4045 | 1/1   | 0.89 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3564 | 1/1   | 0.89 | 0.26 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3701 | 1/1   | 0.89 | 0.24 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3801 | 1/1   | 0.89 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3393 | 1/1   | 0.89 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3566 | 1/1   | 0.89 | 0.19 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3087 | 1/1   | 0.89 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3186 | 1/1   | 0.89 | 0.37 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3714 | 1/1   | 0.89 | 0.19 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3093 | 1/1   | 0.89 | 0.20 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3716 | 1/1   | 0.89 | 0.11 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3490 | 1/1   | 0.89 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3287 | 1/1   | 0.89 | 0.18 | 77,77,77,77                 | 0     |
| 57  | MG   | 1a    | 1752 | 1/1   | 0.89 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3815 | 1/1   | 0.89 | 0.24 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3816 | 1/1   | 0.89 | 0.27 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3196 | 1/1   | 0.89 | 0.12 | 50,50,50,50                 | 0     |
| 57  | MG   | 1X    | 105  | 1/1   | 0.89 | 0.16 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3105 | 1/1   | 0.89 | 0.22 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3740 | 1/1   | 0.89 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3302 | 1/1   | 0.89 | 0.24 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3750 | 1/1   | 0.89 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 10    | 104  | 1/1   | 0.89 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 4064 | 1/1   | 0.89 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3404 | 1/1   | 0.89 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3928 | 1/1   | 0.89 | 0.10 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3112 | 1/1   | 0.89 | 0.18 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3764 | 1/1   | 0.89 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3582 | 1/1   | 0.89 | 0.22 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3822 | 1/1   | 0.89 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3449 | 1/1   | 0.89 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3946 | 1/1   | 0.89 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3534 | 1/1   | 0.89 | 0.11 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3321 | 1/1   | 0.89 | 0.29 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1608 | 1/1   | 0.89 | 0.35 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3325 | 1/1   | 0.89 | 0.09 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3948 | 1/1   | 0.89 | 0.21 | 59,59,59,59                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1621 | 1/1   | 0.89 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3592 | 1/1   | 0.89 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3558 | 1/1   | 0.89 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3041 | 1/1   | 0.89 | 0.16 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1628 | 1/1   | 0.89 | 0.22 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3826 | 1/1   | 0.89 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3966 | 1/1   | 0.89 | 0.16 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3335 | 1/1   | 0.89 | 0.24 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3149 | 1/1   | 0.89 | 0.25 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3969 | 1/1   | 0.89 | 0.19 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3573 | 1/1   | 0.89 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3574 | 1/1   | 0.89 | 0.23 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3339 | 1/1   | 0.89 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3340 | 1/1   | 0.89 | 0.29 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3513 | 1/1   | 0.89 | 0.34 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4114 | 1/1   | 0.89 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 2B    | 209  | 1/1   | 0.89 | 0.10 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3102 | 1/1   | 0.89 | 0.30 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3583 | 1/1   | 0.89 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 2B    | 212  | 1/1   | 0.89 | 0.22 | 73,73,73,73                 | 0     |
| 57  | MG   | 1B    | 204  | 1/1   | 0.89 | 0.19 | 62,62,62,62                 | 0     |
| 57  | MG   | 1p    | 101  | 1/1   | 0.89 | 0.17 | 57,57,57,57                 | 0     |
| 57  | MG   | 1B    | 208  | 1/1   | 0.89 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 1t    | 201  | 1/1   | 0.89 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 1B    | 209  | 1/1   | 0.89 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3359 | 1/1   | 0.89 | 0.14 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3360 | 1/1   | 0.89 | 0.28 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3634 | 1/1   | 0.89 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3363 | 1/1   | 0.89 | 0.21 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3364 | 1/1   | 0.89 | 0.23 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3349 | 1/1   | 0.89 | 0.23 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3473 | 1/1   | 0.89 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3650 | 1/1   | 0.89 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3195 | 1/1   | 0.89 | 0.33 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3374 | 1/1   | 0.89 | 0.15 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3847 | 1/1   | 0.89 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3990 | 1/1   | 0.89 | 0.12 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3619 | 1/1   | 0.89 | 0.10 | 81,81,81,81                 | 0     |
| 57  | MG   | 1A    | 3651 | 1/1   | 0.89 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3624 | 1/1   | 0.89 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3383 | 1/1   | 0.89 | 0.34 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1658 | 1/1   | 0.89 | 0.38 | 77,77,77,77                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3385 | 1/1   | 0.89 | 0.40 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3418 | 1/1   | 0.89 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3636 | 1/1   | 0.89 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1661 | 1/1   | 0.89 | 0.20 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3748 | 1/1   | 0.89 | 0.11 | 23,23,23,23                 | 0     |
| 57  | MG   | 2x    | 105  | 1/1   | 0.89 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3219 | 1/1   | 0.89 | 0.22 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3855 | 1/1   | 0.89 | 0.17 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3656 | 1/1   | 0.89 | 0.12 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3278 | 1/1   | 0.89 | 0.20 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3097 | 1/1   | 0.89 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1682 | 1/1   | 0.89 | 0.23 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1684 | 1/1   | 0.89 | 0.26 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3775 | 1/1   | 0.89 | 0.11 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3671 | 1/1   | 0.89 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1703 | 1/1   | 0.90 | 0.14 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1705 | 1/1   | 0.90 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1706 | 1/1   | 0.90 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3249 | 1/1   | 0.90 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3330 | 1/1   | 0.90 | 0.15 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3251 | 1/1   | 0.90 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3348 | 1/1   | 0.90 | 0.20 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3147 | 1/1   | 0.90 | 0.18 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3494 | 1/1   | 0.90 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3627 | 1/1   | 0.90 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3351 | 1/1   | 0.90 | 0.33 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3254 | 1/1   | 0.90 | 0.24 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3353 | 1/1   | 0.90 | 0.22 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3635 | 1/1   | 0.90 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3086 | 1/1   | 0.90 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3117 | 1/1   | 0.90 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3640 | 1/1   | 0.90 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3276 | 1/1   | 0.90 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1734 | 1/1   | 0.90 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3277 | 1/1   | 0.90 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 1E    | 308  | 1/1   | 0.90 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3684 | 1/1   | 0.90 | 0.11 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3688 | 1/1   | 0.90 | 0.11 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3155 | 1/1   | 0.90 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3656 | 1/1   | 0.90 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 1N    | 205  | 1/1   | 0.90 | 0.36 | 53,53,53,53                 | 0     |
| 57  | MG   | 1N    | 206  | 1/1   | 0.90 | 0.12 | 45,45,45,45                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3371 | 1/1   | 0.90 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3153 | 1/1   | 0.90 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3351 | 1/1   | 0.90 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4001 | 1/1   | 0.90 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3665 | 1/1   | 0.90 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1P    | 204  | 1/1   | 0.90 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1P    | 205  | 1/1   | 0.90 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 1Q    | 203  | 1/1   | 0.90 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1772 | 1/1   | 0.90 | 0.09 | 86,86,86,86                 | 0     |
| 57  | MG   | 1a    | 1780 | 1/1   | 0.90 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3512 | 1/1   | 0.90 | 0.18 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3168 | 1/1   | 0.90 | 0.30 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3430 | 1/1   | 0.90 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3175 | 1/1   | 0.90 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3392 | 1/1   | 0.90 | 0.19 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3395 | 1/1   | 0.90 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3214 | 1/1   | 0.90 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3282 | 1/1   | 0.90 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3437 | 1/1   | 0.90 | 0.24 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1791 | 1/1   | 0.90 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3283 | 1/1   | 0.90 | 0.20 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3833 | 1/1   | 0.90 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3357 | 1/1   | 0.90 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3839 | 1/1   | 0.90 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3706 | 1/1   | 0.90 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3409 | 1/1   | 0.90 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3216 | 1/1   | 0.90 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3843 | 1/1   | 0.90 | 0.07 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3845 | 1/1   | 0.90 | 0.23 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3420 | 1/1   | 0.90 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3445 | 1/1   | 0.90 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3537 | 1/1   | 0.90 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3211 | 1/1   | 0.90 | 0.16 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3722 | 1/1   | 0.90 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3723 | 1/1   | 0.90 | 0.12 | 80,80,80,80                 | 0     |
| 57  | MG   | 1A    | 3446 | 1/1   | 0.90 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3216 | 1/1   | 0.90 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3550 | 1/1   | 0.90 | 0.14 | 48,48,48,48                 | 0     |
| 57  | MG   | 11    | 102  | 1/1   | 0.90 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3125 | 1/1   | 0.90 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3857 | 1/1   | 0.90 | 0.19 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3225 | 1/1   | 0.90 | 0.35 | 64,64,64,64                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3746 | 1/1   | 0.90 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3747 | 1/1   | 0.90 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3724 | 1/1   | 0.90 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3235 | 1/1   | 0.90 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3863 | 1/1   | 0.90 | 0.13 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3866 | 1/1   | 0.90 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3760 | 1/1   | 0.90 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3460 | 1/1   | 0.90 | 0.13 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1607 | 1/1   | 0.90 | 0.20 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3135 | 1/1   | 0.90 | 0.18 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3869 | 1/1   | 0.90 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1614 | 1/1   | 0.90 | 0.09 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3727 | 1/1   | 0.90 | 0.09 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3374 | 1/1   | 0.90 | 0.27 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3163 | 1/1   | 0.90 | 0.21 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3457 | 1/1   | 0.90 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3484 | 1/1   | 0.90 | 0.18 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3487 | 1/1   | 0.90 | 0.14 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3460 | 1/1   | 0.90 | 0.15 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3241 | 1/1   | 0.90 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 1x    | 101  | 1/1   | 0.90 | 0.32 | 69,69,69,69                 | 0     |
| 57  | MG   | 1x    | 102  | 1/1   | 0.90 | 0.30 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3495 | 1/1   | 0.90 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3887 | 1/1   | 0.90 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3463 | 1/1   | 0.90 | 0.20 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 4074 | 1/1   | 0.90 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3266 | 1/1   | 0.90 | 0.36 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4081 | 1/1   | 0.90 | 0.22 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1637 | 1/1   | 0.90 | 0.29 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3001 | 1/1   | 0.90 | 0.39 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3515 | 1/1   | 0.90 | 0.21 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3744 | 1/1   | 0.90 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3745 | 1/1   | 0.90 | 0.09 | 24,24,24,24                 | 0     |
| 57  | MG   | 2B    | 204  | 1/1   | 0.90 | 0.23 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3466 | 1/1   | 0.90 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4096 | 1/1   | 0.90 | 0.13 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3278 | 1/1   | 0.90 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3018 | 1/1   | 0.90 | 0.17 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3280 | 1/1   | 0.90 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3471 | 1/1   | 0.90 | 0.16 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3283 | 1/1   | 0.90 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3595 | 1/1   | 0.90 | 0.10 | 35,35,35,35                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3040 | 1/1   | 0.90 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3541 | 1/1   | 0.90 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3766 | 1/1   | 0.90 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3769 | 1/1   | 0.90 | 0.09 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3770 | 1/1   | 0.90 | 0.08 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3553 | 1/1   | 0.90 | 0.24 | 55,55,55,55                 | 0     |
| 57  | MG   | 2E    | 305  | 1/1   | 0.90 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 2E    | 306  | 1/1   | 0.90 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3047 | 1/1   | 0.90 | 0.36 | 68,68,68,68                 | 0     |
| 57  | MG   | 2F    | 302  | 1/1   | 0.90 | 0.26 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3910 | 1/1   | 0.90 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3312 | 1/1   | 0.90 | 0.24 | 59,59,59,59                 | 0     |
| 57  | MG   | 2U    | 201  | 1/1   | 0.90 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 2W    | 201  | 1/1   | 0.90 | 0.27 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3055 | 1/1   | 0.90 | 0.32 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3303 | 1/1   | 0.90 | 0.17 | 68,68,68,68                 | 0     |
| 57  | MG   | 1B    | 201  | 1/1   | 0.90 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3058 | 1/1   | 0.90 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1660 | 1/1   | 0.90 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3597 | 1/1   | 0.90 | 0.11 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3782 | 1/1   | 0.90 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3314 | 1/1   | 0.90 | 0.11 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3315 | 1/1   | 0.90 | 0.23 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3578 | 1/1   | 0.90 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3598 | 1/1   | 0.90 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3070 | 1/1   | 0.90 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3474 | 1/1   | 0.90 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1669 | 1/1   | 0.90 | 0.20 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3619 | 1/1   | 0.90 | 0.10 | 30,30,30,30                 | 0     |
| 57  | MG   | 2x    | 102  | 1/1   | 0.90 | 0.28 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3937 | 1/1   | 0.90 | 0.15 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3589 | 1/1   | 0.90 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3323 | 1/1   | 0.90 | 0.12 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1681 | 1/1   | 0.90 | 0.29 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3621 | 1/1   | 0.90 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3060 | 1/1   | 0.90 | 0.13 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3315 | 1/1   | 0.90 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3089 | 1/1   | 0.90 | 0.18 | 72,72,72,72                 | 0     |
| 57  | MG   | 1B    | 220  | 1/1   | 0.90 | 0.23 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3477 | 1/1   | 0.90 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3145 | 1/1   | 0.90 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3193 | 1/1   | 0.90 | 0.20 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3616 | 1/1   | 0.91 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1789 | 1/1   | 0.91 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3354 | 1/1   | 0.91 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 15    | 104  | 1/1   | 0.91 | 0.22 | 44,44,44,44                 | 0     |
| 57  | MG   | 15    | 106  | 1/1   | 0.91 | 0.32 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3156 | 1/1   | 0.91 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1792 | 1/1   | 0.91 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3159 | 1/1   | 0.91 | 0.23 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3424 | 1/1   | 0.91 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1794 | 1/1   | 0.91 | 0.23 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 4075 | 1/1   | 0.91 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1804 | 1/1   | 0.91 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3366 | 1/1   | 0.91 | 0.41 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3368 | 1/1   | 0.91 | 0.33 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 4076 | 1/1   | 0.91 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3704 | 1/1   | 0.91 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3318 | 1/1   | 0.91 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3237 | 1/1   | 0.91 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4093 | 1/1   | 0.91 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3573 | 1/1   | 0.91 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1618 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3381 | 1/1   | 0.91 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3655 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3938 | 1/1   | 0.91 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4099 | 1/1   | 0.91 | 0.10 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1820 | 1/1   | 0.91 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1624 | 1/1   | 0.91 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3192 | 1/1   | 0.91 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3193 | 1/1   | 0.91 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3429 | 1/1   | 0.91 | 0.33 | 47,47,47,47                 | 0     |
| 57  | MG   | 1e    | 202  | 1/1   | 0.91 | 0.25 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3199 | 1/1   | 0.91 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3393 | 1/1   | 0.91 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3328 | 1/1   | 0.91 | 0.24 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3127 | 1/1   | 0.91 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 1a    | 1631 | 1/1   | 0.91 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3947 | 1/1   | 0.91 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3583 | 1/1   | 0.91 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3287 | 1/1   | 0.91 | 0.32 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3680 | 1/1   | 0.91 | 0.14 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3682 | 1/1   | 0.91 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3591 | 1/1   | 0.91 | 0.11 | 39,39,39,39                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3173 | 1/1   | 0.91 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3593 | 1/1   | 0.91 | 0.10 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3220 | 1/1   | 0.91 | 0.31 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3689 | 1/1   | 0.91 | 0.22 | 73,73,73,73                 | 0     |
| 57  | MG   | 1a    | 1639 | 1/1   | 0.91 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3693 | 1/1   | 0.91 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 1B    | 202  | 1/1   | 0.91 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3224 | 1/1   | 0.91 | 0.24 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3256 | 1/1   | 0.91 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3441 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3257 | 1/1   | 0.91 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3425 | 1/1   | 0.91 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3230 | 1/1   | 0.91 | 0.21 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3973 | 1/1   | 0.91 | 0.10 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3836 | 1/1   | 0.91 | 0.23 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3432 | 1/1   | 0.91 | 0.24 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3730 | 1/1   | 0.91 | 0.09 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3435 | 1/1   | 0.91 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3502 | 1/1   | 0.91 | 0.26 | 38,38,38,38                 | 0     |
| 57  | MG   | 1B    | 215  | 1/1   | 0.91 | 0.13 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3447 | 1/1   | 0.91 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3599 | 1/1   | 0.91 | 0.13 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3113 | 1/1   | 0.91 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3454 | 1/1   | 0.91 | 0.12 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1657 | 1/1   | 0.91 | 0.33 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3737 | 1/1   | 0.91 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3248 | 1/1   | 0.91 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3732 | 1/1   | 0.91 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3458 | 1/1   | 0.91 | 0.19 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3005 | 1/1   | 0.91 | 0.38 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3737 | 1/1   | 0.91 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3007 | 1/1   | 0.91 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3010 | 1/1   | 0.91 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3011 | 1/1   | 0.91 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3463 | 1/1   | 0.91 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3505 | 1/1   | 0.91 | 0.20 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3993 | 1/1   | 0.91 | 0.08 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3756 | 1/1   | 0.91 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3211 | 1/1   | 0.91 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1663 | 1/1   | 0.91 | 0.24 | 77,77,77,77                 | 0     |
| 57  | MG   | 1B    | 226  | 1/1   | 0.91 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3997 | 1/1   | 0.91 | 0.08 | 50,50,50,50                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3032 | 1/1   | 0.91 | 0.19 | 47,47,47,47                 | 0     |
| 57  | MG   | 1B    | 228  | 1/1   | 0.91 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3765 | 1/1   | 0.91 | 0.10 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3767 | 1/1   | 0.91 | 0.08 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3771 | 1/1   | 0.91 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3488 | 1/1   | 0.91 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3776 | 1/1   | 0.91 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3489 | 1/1   | 0.91 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3036 | 1/1   | 0.91 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3339 | 1/1   | 0.91 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3273 | 1/1   | 0.91 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1670 | 1/1   | 0.91 | 0.31 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3627 | 1/1   | 0.91 | 0.16 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3785 | 1/1   | 0.91 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1675 | 1/1   | 0.91 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 4005 | 1/1   | 0.91 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1677 | 1/1   | 0.91 | 0.23 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3052 | 1/1   | 0.91 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3508 | 1/1   | 0.91 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1B    | 234  | 1/1   | 0.91 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3509 | 1/1   | 0.91 | 0.27 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3286 | 1/1   | 0.91 | 0.26 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3750 | 1/1   | 0.91 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3797 | 1/1   | 0.91 | 0.17 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3394 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3344 | 1/1   | 0.91 | 0.16 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3520 | 1/1   | 0.91 | 0.22 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3521 | 1/1   | 0.91 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3297 | 1/1   | 0.91 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3400 | 1/1   | 0.91 | 0.27 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1693 | 1/1   | 0.91 | 0.26 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3527 | 1/1   | 0.91 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3528 | 1/1   | 0.91 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3299 | 1/1   | 0.91 | 0.22 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3300 | 1/1   | 0.91 | 0.19 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3516 | 1/1   | 0.91 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4021 | 1/1   | 0.91 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3298 | 1/1   | 0.91 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3304 | 1/1   | 0.91 | 0.26 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3774 | 1/1   | 0.91 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3872 | 1/1   | 0.91 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 4032 | 1/1   | 0.91 | 0.09 | 48,48,48,48                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3406 | 1/1   | 0.91 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3175 | 1/1   | 0.91 | 0.18 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3313 | 1/1   | 0.91 | 0.10 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3311 | 1/1   | 0.91 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1724 | 1/1   | 0.91 | 0.21 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4040 | 1/1   | 0.91 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3411 | 1/1   | 0.91 | 0.24 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3089 | 1/1   | 0.91 | 0.30 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3319 | 1/1   | 0.91 | 0.09 | 75,75,75,75                 | 0     |
| 57  | MG   | 2R    | 201  | 1/1   | 0.91 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1733 | 1/1   | 0.91 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 2V    | 201  | 1/1   | 0.91 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3679 | 1/1   | 0.91 | 0.10 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3415 | 1/1   | 0.91 | 0.23 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1739 | 1/1   | 0.91 | 0.17 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3576 | 1/1   | 0.91 | 0.19 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3324 | 1/1   | 0.91 | 0.15 | 78,78,78,78                 | 0     |
| 57  | MG   | 2I    | 102  | 1/1   | 0.91 | 0.52 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3541 | 1/1   | 0.91 | 0.21 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3326 | 1/1   | 0.91 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3685 | 1/1   | 0.91 | 0.13 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3107 | 1/1   | 0.91 | 0.36 | 69,69,69,69                 | 0     |
| 57  | MG   | 2a    | 1602 | 1/1   | 0.91 | 0.33 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3892 | 1/1   | 0.91 | 0.21 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3469 | 1/1   | 0.91 | 0.20 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3280 | 1/1   | 0.91 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3798 | 1/1   | 0.91 | 0.11 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3472 | 1/1   | 0.91 | 0.22 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3118 | 1/1   | 0.91 | 0.14 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3907 | 1/1   | 0.91 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3802 | 1/1   | 0.91 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3135 | 1/1   | 0.91 | 0.26 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3136 | 1/1   | 0.91 | 0.20 | 45,45,45,45                 | 0     |
| 57  | MG   | 1Z    | 302  | 1/1   | 0.91 | 0.21 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3601 | 1/1   | 0.91 | 0.14 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3603 | 1/1   | 0.91 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 4066 | 1/1   | 0.91 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3809 | 1/1   | 0.91 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 10    | 107  | 1/1   | 0.91 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3698 | 1/1   | 0.91 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3422 | 1/1   | 0.91 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3611 | 1/1   | 0.91 | 0.11 | 66,66,66,66                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3006 | 1/1   | 0.91 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3176 | 1/1   | 0.92 | 0.17 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3123 | 1/1   | 0.92 | 0.30 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3376 | 1/1   | 0.92 | 0.14 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3915 | 1/1   | 0.92 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1811 | 1/1   | 0.92 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3922 | 1/1   | 0.92 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3530 | 1/1   | 0.92 | 0.45 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4087 | 1/1   | 0.92 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3691 | 1/1   | 0.92 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3190 | 1/1   | 0.92 | 0.29 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3806 | 1/1   | 0.92 | 0.07 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3228 | 1/1   | 0.92 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3695 | 1/1   | 0.92 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3391 | 1/1   | 0.92 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4098 | 1/1   | 0.92 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3091 | 1/1   | 0.92 | 0.21 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3394 | 1/1   | 0.92 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4100 | 1/1   | 0.92 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3396 | 1/1   | 0.92 | 0.11 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1630 | 1/1   | 0.92 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3384 | 1/1   | 0.92 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3940 | 1/1   | 0.92 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3663 | 1/1   | 0.92 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3207 | 1/1   | 0.92 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3385 | 1/1   | 0.92 | 0.28 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3321 | 1/1   | 0.92 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3213 | 1/1   | 0.92 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3671 | 1/1   | 0.92 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3458 | 1/1   | 0.92 | 0.32 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4106 | 1/1   | 0.92 | 0.16 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4107 | 1/1   | 0.92 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3388 | 1/1   | 0.92 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3559 | 1/1   | 0.92 | 0.20 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3418 | 1/1   | 0.92 | 0.24 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3681 | 1/1   | 0.92 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3390 | 1/1   | 0.92 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3172 | 1/1   | 0.92 | 0.13 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1647 | 1/1   | 0.92 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3955 | 1/1   | 0.92 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3961 | 1/1   | 0.92 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3963 | 1/1   | 0.92 | 0.09 | 64,64,64,64                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3690 | 1/1   | 0.92 | 0.14 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3965 | 1/1   | 0.92 | 0.09 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3465 | 1/1   | 0.92 | 0.16 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3694 | 1/1   | 0.92 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1653 | 1/1   | 0.92 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3070 | 1/1   | 0.92 | 0.18 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3437 | 1/1   | 0.92 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3130 | 1/1   | 0.92 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 1x    | 113  | 1/1   | 0.92 | 0.14 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3442 | 1/1   | 0.92 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 1B    | 213  | 1/1   | 0.92 | 0.26 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3449 | 1/1   | 0.92 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3002 | 1/1   | 0.92 | 0.28 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3246 | 1/1   | 0.92 | 0.09 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3004 | 1/1   | 0.92 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3006 | 1/1   | 0.92 | 0.25 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3036 | 1/1   | 0.92 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3008 | 1/1   | 0.92 | 0.08 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3575 | 1/1   | 0.92 | 0.14 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3286 | 1/1   | 0.92 | 0.35 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3403 | 1/1   | 0.92 | 0.16 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3081 | 1/1   | 0.92 | 0.08 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3259 | 1/1   | 0.92 | 0.20 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3289 | 1/1   | 0.92 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1665 | 1/1   | 0.92 | 0.22 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3984 | 1/1   | 0.92 | 0.08 | 15,15,15,15                 | 0     |
| 57  | MG   | 1A    | 3985 | 1/1   | 0.92 | 0.30 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3587 | 1/1   | 0.92 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3189 | 1/1   | 0.92 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3478 | 1/1   | 0.92 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1671 | 1/1   | 0.92 | 0.26 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3482 | 1/1   | 0.92 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3047 | 1/1   | 0.92 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3731 | 1/1   | 0.92 | 0.08 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3410 | 1/1   | 0.92 | 0.14 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3340 | 1/1   | 0.92 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3046 | 1/1   | 0.92 | 0.31 | 63,63,63,63                 | 0     |
| 57  | MG   | 1B    | 235  | 1/1   | 0.92 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4002 | 1/1   | 0.92 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3849 | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3053 | 1/1   | 0.92 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3284 | 1/1   | 0.92 | 0.11 | 58,58,58,58                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3341 | 1/1   | 0.92 | 0.08 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3342 | 1/1   | 0.92 | 0.23 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3769 | 1/1   | 0.92 | 0.15 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3248 | 1/1   | 0.92 | 0.19 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3289 | 1/1   | 0.92 | 0.10 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3490 | 1/1   | 0.92 | 0.16 | 53,53,53,53                 | 0     |
| 57  | MG   | 1E    | 309  | 1/1   | 0.92 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3856 | 1/1   | 0.92 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3063 | 1/1   | 0.92 | 0.30 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1696 | 1/1   | 0.92 | 0.19 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1699 | 1/1   | 0.92 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1700 | 1/1   | 0.92 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3294 | 1/1   | 0.92 | 0.31 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3074 | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3146 | 1/1   | 0.92 | 0.26 | 37,37,37,37                 | 0     |
| 57  | MG   | 1N    | 202  | 1/1   | 0.92 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1N    | 204  | 1/1   | 0.92 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3306 | 1/1   | 0.92 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3112 | 1/1   | 0.92 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3793 | 1/1   | 0.92 | 0.10 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3531 | 1/1   | 0.92 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3749 | 1/1   | 0.92 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1O    | 201  | 1/1   | 0.92 | 0.25 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3536 | 1/1   | 0.92 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 1O    | 202  | 1/1   | 0.92 | 0.13 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3148 | 1/1   | 0.92 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3201 | 1/1   | 0.92 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3091 | 1/1   | 0.92 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 4025 | 1/1   | 0.92 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3094 | 1/1   | 0.92 | 0.11 | 76,76,76,76                 | 0     |
| 57  | MG   | 1a    | 1730 | 1/1   | 0.92 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3754 | 1/1   | 0.92 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1Q    | 202  | 1/1   | 0.92 | 0.14 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 4028 | 1/1   | 0.92 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3301 | 1/1   | 0.92 | 0.22 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3504 | 1/1   | 0.92 | 0.27 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3062 | 1/1   | 0.92 | 0.24 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3566 | 1/1   | 0.92 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 2B    | 213  | 1/1   | 0.92 | 0.20 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3767 | 1/1   | 0.92 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3568 | 1/1   | 0.92 | 0.21 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3304 | 1/1   | 0.92 | 0.11 | 51,51,51,51                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1R    | 205  | 1/1   | 0.92 | 0.11 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1747 | 1/1   | 0.92 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3360 | 1/1   | 0.92 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3772 | 1/1   | 0.92 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 2E    | 304  | 1/1   | 0.92 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3435 | 1/1   | 0.92 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3119 | 1/1   | 0.92 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3122 | 1/1   | 0.92 | 0.10 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3306 | 1/1   | 0.92 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3511 | 1/1   | 0.92 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3129 | 1/1   | 0.92 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 2Q    | 201  | 1/1   | 0.92 | 0.09 | 64,64,64,64                 | 0     |
| 57  | MG   | 2Q    | 202  | 1/1   | 0.92 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3780 | 1/1   | 0.92 | 0.08 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3362 | 1/1   | 0.92 | 0.23 | 71,71,71,71                 | 0     |
| 57  | MG   | 2U    | 202  | 1/1   | 0.92 | 0.20 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3586 | 1/1   | 0.92 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3365 | 1/1   | 0.92 | 0.18 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3344 | 1/1   | 0.92 | 0.26 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1777 | 1/1   | 0.92 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3140 | 1/1   | 0.92 | 0.28 | 60,60,60,60                 | 0     |
| 57  | MG   | 20    | 102  | 1/1   | 0.92 | 0.17 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3310 | 1/1   | 0.92 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 4057 | 1/1   | 0.92 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1Z    | 303  | 1/1   | 0.92 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3898 | 1/1   | 0.92 | 0.22 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3372 | 1/1   | 0.92 | 0.30 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1788 | 1/1   | 0.92 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 28    | 101  | 1/1   | 0.92 | 0.31 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3787 | 1/1   | 0.92 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3903 | 1/1   | 0.92 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3517 | 1/1   | 0.92 | 0.25 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3677 | 1/1   | 0.92 | 0.15 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3678 | 1/1   | 0.92 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3609 | 1/1   | 0.92 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3087 | 1/1   | 0.92 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3050 | 1/1   | 0.92 | 0.08 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3613 | 1/1   | 0.92 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1798 | 1/1   | 0.92 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1802 | 1/1   | 0.92 | 0.12 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3261 | 1/1   | 0.92 | 0.18 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1806 | 1/1   | 0.92 | 0.15 | 65,65,65,65                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3169 | 1/1   | 0.92 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1601 | 1/1   | 0.92 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3621 | 1/1   | 0.92 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3172 | 1/1   | 0.92 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3913 | 1/1   | 0.92 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3626 | 1/1   | 0.92 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3373 | 1/1   | 0.92 | 0.12 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3631 | 1/1   | 0.92 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1776 | 1/1   | 0.93 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3358 | 1/1   | 0.93 | 0.25 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3778 | 1/1   | 0.93 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3316 | 1/1   | 0.93 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1781 | 1/1   | 0.93 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 1Y    | 201  | 1/1   | 0.93 | 0.25 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1783 | 1/1   | 0.93 | 0.30 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3149 | 1/1   | 0.93 | 0.14 | 61,61,61,61                 | 0     |
| 57  | MG   | 1Y    | 202  | 1/1   | 0.93 | 0.32 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3518 | 1/1   | 0.93 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3459 | 1/1   | 0.93 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3658 | 1/1   | 0.93 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3131 | 1/1   | 0.93 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3638 | 1/1   | 0.93 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3048 | 1/1   | 0.93 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3259 | 1/1   | 0.93 | 0.23 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3526 | 1/1   | 0.93 | 0.15 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3790 | 1/1   | 0.93 | 0.09 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3164 | 1/1   | 0.93 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3912 | 1/1   | 0.93 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3676 | 1/1   | 0.93 | 0.17 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3322 | 1/1   | 0.93 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 16    | 102  | 1/1   | 0.93 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3324 | 1/1   | 0.93 | 0.18 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3170 | 1/1   | 0.93 | 0.15 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1805 | 1/1   | 0.93 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3918 | 1/1   | 0.93 | 0.10 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3173 | 1/1   | 0.93 | 0.14 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3920 | 1/1   | 0.93 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3409 | 1/1   | 0.93 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1606 | 1/1   | 0.93 | 0.08 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3178 | 1/1   | 0.93 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4088 | 1/1   | 0.93 | 0.17 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3666 | 1/1   | 0.93 | 0.19 | 75,75,75,75                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3161 | 1/1   | 0.93 | 0.18 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1812 | 1/1   | 0.93 | 0.17 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3185 | 1/1   | 0.93 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3186 | 1/1   | 0.93 | 0.07 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3096 | 1/1   | 0.93 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3265 | 1/1   | 0.93 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3804 | 1/1   | 0.93 | 0.08 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1619 | 1/1   | 0.93 | 0.07 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1620 | 1/1   | 0.93 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3407 | 1/1   | 0.93 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1819 | 1/1   | 0.93 | 0.09 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3194 | 1/1   | 0.93 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3930 | 1/1   | 0.93 | 0.11 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3197 | 1/1   | 0.93 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3934 | 1/1   | 0.93 | 0.07 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3416 | 1/1   | 0.93 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3936 | 1/1   | 0.93 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3546 | 1/1   | 0.93 | 0.17 | 41,41,41,41                 | 0     |
| 57  | MG   | 1f    | 202  | 1/1   | 0.93 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3692 | 1/1   | 0.93 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3203 | 1/1   | 0.93 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1626 | 1/1   | 0.93 | 0.22 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3808 | 1/1   | 0.93 | 0.08 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3369 | 1/1   | 0.93 | 0.50 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3552 | 1/1   | 0.93 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3371 | 1/1   | 0.93 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3556 | 1/1   | 0.93 | 0.15 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3103 | 1/1   | 0.93 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3217 | 1/1   | 0.93 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3124 | 1/1   | 0.93 | 0.32 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 4110 | 1/1   | 0.93 | 0.10 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3299 | 1/1   | 0.93 | 0.24 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3712 | 1/1   | 0.93 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3713 | 1/1   | 0.93 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3445 | 1/1   | 0.93 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3375 | 1/1   | 0.93 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3376 | 1/1   | 0.93 | 0.17 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3718 | 1/1   | 0.93 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3719 | 1/1   | 0.93 | 0.08 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1641 | 1/1   | 0.93 | 0.26 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3452 | 1/1   | 0.93 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3482 | 1/1   | 0.93 | 0.23 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3960 | 1/1   | 0.93 | 0.19 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3426 | 1/1   | 0.93 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3962 | 1/1   | 0.93 | 0.14 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3729 | 1/1   | 0.93 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 1x    | 104  | 1/1   | 0.93 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3233 | 1/1   | 0.93 | 0.14 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3569 | 1/1   | 0.93 | 0.29 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3236 | 1/1   | 0.93 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 1B    | 210  | 1/1   | 0.93 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3105 | 1/1   | 0.93 | 0.34 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3486 | 1/1   | 0.93 | 0.22 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3743 | 1/1   | 0.93 | 0.09 | 64,64,64,64                 | 0     |
| 57  | MG   | 1x    | 110  | 1/1   | 0.93 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3242 | 1/1   | 0.93 | 0.26 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3748 | 1/1   | 0.93 | 0.09 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3487 | 1/1   | 0.93 | 0.20 | 42,42,42,42                 | 0     |
| 57  | MG   | 1x    | 112  | 1/1   | 0.93 | 0.25 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3752 | 1/1   | 0.93 | 0.07 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3336 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3379 | 1/1   | 0.93 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3491 | 1/1   | 0.93 | 0.20 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3481 | 1/1   | 0.93 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3584 | 1/1   | 0.93 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3722 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3977 | 1/1   | 0.93 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3254 | 1/1   | 0.93 | 0.14 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3835 | 1/1   | 0.93 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3492 | 1/1   | 0.93 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 1B    | 225  | 1/1   | 0.93 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3980 | 1/1   | 0.93 | 0.16 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3017 | 1/1   | 0.93 | 0.26 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3090 | 1/1   | 0.93 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3498 | 1/1   | 0.93 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3019 | 1/1   | 0.93 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3303 | 1/1   | 0.93 | 0.24 | 40,40,40,40                 | 0     |
| 57  | MG   | 1B    | 229  | 1/1   | 0.93 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3026 | 1/1   | 0.93 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3383 | 1/1   | 0.93 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3497 | 1/1   | 0.93 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3129 | 1/1   | 0.93 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3846 | 1/1   | 0.93 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1672 | 1/1   | 0.93 | 0.25 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1673 | 1/1   | 0.93 | 0.32 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3305 | 1/1   | 0.93 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3519 | 1/1   | 0.93 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3732 | 1/1   | 0.93 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3015 | 1/1   | 0.93 | 0.30 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3045 | 1/1   | 0.93 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 1D    | 303  | 1/1   | 0.93 | 0.13 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1678 | 1/1   | 0.93 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3309 | 1/1   | 0.93 | 0.15 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3051 | 1/1   | 0.93 | 0.05 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3220 | 1/1   | 0.93 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3348 | 1/1   | 0.93 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3612 | 1/1   | 0.93 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3618 | 1/1   | 0.93 | 0.08 | 21,21,21,21                 | 0     |
| 57  | MG   | 2A    | 3535 | 1/1   | 0.93 | 0.20 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3056 | 1/1   | 0.93 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 2B    | 206  | 1/1   | 0.93 | 0.10 | 71,71,71,71                 | 0     |
| 57  | MG   | 1E    | 310  | 1/1   | 0.93 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3180 | 1/1   | 0.93 | 0.17 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3060 | 1/1   | 0.93 | 0.16 | 51,51,51,51                 | 0     |
| 57  | MG   | 1F    | 302  | 1/1   | 0.93 | 0.17 | 35,35,35,35                 | 0     |
| 57  | MG   | 1F    | 304  | 1/1   | 0.93 | 0.13 | 42,42,42,42                 | 0     |
| 57  | MG   | 1F    | 308  | 1/1   | 0.93 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3620 | 1/1   | 0.93 | 0.10 | 22,22,22,22                 | 0     |
| 57  | MG   | 2A    | 3550 | 1/1   | 0.93 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3861 | 1/1   | 0.93 | 0.23 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3554 | 1/1   | 0.93 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 2D    | 302  | 1/1   | 0.93 | 0.33 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3069 | 1/1   | 0.93 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 1G    | 202  | 1/1   | 0.93 | 0.15 | 64,64,64,64                 | 0     |
| 57  | MG   | 1H    | 201  | 1/1   | 0.93 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4013 | 1/1   | 0.93 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3746 | 1/1   | 0.93 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 4015 | 1/1   | 0.93 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3508 | 1/1   | 0.93 | 0.19 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1717 | 1/1   | 0.93 | 0.09 | 61,61,61,61                 | 0     |
| 57  | MG   | 2F    | 301  | 1/1   | 0.93 | 0.15 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3083 | 1/1   | 0.93 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 2F    | 303  | 1/1   | 0.93 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3570 | 1/1   | 0.93 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3224 | 1/1   | 0.93 | 0.25 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3395 | 1/1   | 0.93 | 0.12 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3628 | 1/1   | 0.93 | 0.11 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3753 | 1/1   | 0.93 | 0.13 | 32,32,32,32                 | 0     |
| 57  | MG   | 2T    | 201  | 1/1   | 0.93 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 2T    | 202  | 1/1   | 0.93 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 2T    | 203  | 1/1   | 0.93 | 0.11 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3873 | 1/1   | 0.93 | 0.12 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3630 | 1/1   | 0.93 | 0.10 | 66,66,66,66                 | 0     |
| 57  | MG   | 1Q    | 201  | 1/1   | 0.93 | 0.21 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1732 | 1/1   | 0.93 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4031 | 1/1   | 0.93 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 2X    | 101  | 1/1   | 0.93 | 0.18 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3182 | 1/1   | 0.93 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3633 | 1/1   | 0.93 | 0.08 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3584 | 1/1   | 0.93 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1a    | 1738 | 1/1   | 0.93 | 0.09 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3101 | 1/1   | 0.93 | 0.17 | 48,48,48,48                 | 0     |
| 57  | MG   | 2I    | 103  | 1/1   | 0.93 | 0.13 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3879 | 1/1   | 0.93 | 0.08 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3880 | 1/1   | 0.93 | 0.07 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3397 | 1/1   | 0.93 | 0.22 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3333 | 1/1   | 0.93 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3637 | 1/1   | 0.93 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3593 | 1/1   | 0.93 | 0.12 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3594 | 1/1   | 0.93 | 0.23 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1744 | 1/1   | 0.93 | 0.08 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3768 | 1/1   | 0.93 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3455 | 1/1   | 0.93 | 0.12 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3398 | 1/1   | 0.93 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1750 | 1/1   | 0.93 | 0.15 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3115 | 1/1   | 0.93 | 0.24 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1751 | 1/1   | 0.93 | 0.09 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3346 | 1/1   | 0.93 | 0.31 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3606 | 1/1   | 0.93 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3118 | 1/1   | 0.93 | 0.29 | 68,68,68,68                 | 0     |
| 57  | MG   | 1S    | 202  | 1/1   | 0.93 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3643 | 1/1   | 0.93 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3124 | 1/1   | 0.93 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3645 | 1/1   | 0.93 | 0.14 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3649 | 1/1   | 0.93 | 0.07 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3255 | 1/1   | 0.93 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1769 | 1/1   | 0.93 | 0.09 | 81,81,81,81                 | 0     |
| 57  | MG   | 1W    | 201  | 1/1   | 0.93 | 0.19 | 51,51,51,51                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3896 | 1/1   | 0.93 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3215 | 1/1   | 0.94 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3630 | 1/1   | 0.94 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3820 | 1/1   | 0.94 | 0.31 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3821 | 1/1   | 0.94 | 0.06 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3162 | 1/1   | 0.94 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3106 | 1/1   | 0.94 | 0.28 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3950 | 1/1   | 0.94 | 0.05 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3023 | 1/1   | 0.94 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3017 | 1/1   | 0.94 | 0.09 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 4112 | 1/1   | 0.94 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3954 | 1/1   | 0.94 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3641 | 1/1   | 0.94 | 0.17 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3715 | 1/1   | 0.94 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3223 | 1/1   | 0.94 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3307 | 1/1   | 0.94 | 0.20 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3354 | 1/1   | 0.94 | 0.24 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3600 | 1/1   | 0.94 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1B    | 205  | 1/1   | 0.94 | 0.29 | 62,62,62,62                 | 0     |
| 57  | MG   | 1B    | 207  | 1/1   | 0.94 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3654 | 1/1   | 0.94 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3601 | 1/1   | 0.94 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3179 | 1/1   | 0.94 | 0.08 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3308 | 1/1   | 0.94 | 0.20 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3607 | 1/1   | 0.94 | 0.20 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3183 | 1/1   | 0.94 | 0.26 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3834 | 1/1   | 0.94 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3608 | 1/1   | 0.94 | 0.10 | 31,31,31,31                 | 0     |
| 57  | MG   | 1a    | 1640 | 1/1   | 0.94 | 0.13 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3462 | 1/1   | 0.94 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3399 | 1/1   | 0.94 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3114 | 1/1   | 0.94 | 0.28 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3464 | 1/1   | 0.94 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3225 | 1/1   | 0.94 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3191 | 1/1   | 0.94 | 0.30 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3266 | 1/1   | 0.94 | 0.16 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3844 | 1/1   | 0.94 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 1B    | 221  | 1/1   | 0.94 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1w    | 105  | 1/1   | 0.94 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3675 | 1/1   | 0.94 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3622 | 1/1   | 0.94 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3677 | 1/1   | 0.94 | 0.18 | 66,66,66,66                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3624 | 1/1   | 0.94 | 0.10 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3268 | 1/1   | 0.94 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3626 | 1/1   | 0.94 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3417 | 1/1   | 0.94 | 0.09 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3739 | 1/1   | 0.94 | 0.11 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3684 | 1/1   | 0.94 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3685 | 1/1   | 0.94 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3468 | 1/1   | 0.94 | 0.23 | 48,48,48,48                 | 0     |
| 57  | MG   | 1x    | 103  | 1/1   | 0.94 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3991 | 1/1   | 0.94 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3742 | 1/1   | 0.94 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3208 | 1/1   | 0.94 | 0.13 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3210 | 1/1   | 0.94 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3994 | 1/1   | 0.94 | 0.05 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3430 | 1/1   | 0.94 | 0.19 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3177 | 1/1   | 0.94 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3695 | 1/1   | 0.94 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 1B    | 232  | 1/1   | 0.94 | 0.09 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3697 | 1/1   | 0.94 | 0.18 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3698 | 1/1   | 0.94 | 0.07 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3528 | 1/1   | 0.94 | 0.13 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3529 | 1/1   | 0.94 | 0.18 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3470 | 1/1   | 0.94 | 0.20 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3702 | 1/1   | 0.94 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3703 | 1/1   | 0.94 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3531 | 1/1   | 0.94 | 0.13 | 46,46,46,46                 | 0     |
| 57  | MG   | 1x    | 114  | 1/1   | 0.94 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3444 | 1/1   | 0.94 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3860 | 1/1   | 0.94 | 0.14 | 37,37,37,37                 | 0     |
| 57  | MG   | 1D    | 302  | 1/1   | 0.94 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3004 | 1/1   | 0.94 | 0.29 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3450 | 1/1   | 0.94 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1668 | 1/1   | 0.94 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3232 | 1/1   | 0.94 | 0.24 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3227 | 1/1   | 0.94 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 1D    | 307  | 1/1   | 0.94 | 0.29 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3534 | 1/1   | 0.94 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3751 | 1/1   | 0.94 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 4009 | 1/1   | 0.94 | 0.10 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3012 | 1/1   | 0.94 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3014 | 1/1   | 0.94 | 0.07 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3233 | 1/1   | 0.94 | 0.27 | 42,42,42,42                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 4011 | 1/1   | 0.94 | 0.08 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3868 | 1/1   | 0.94 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3279 | 1/1   | 0.94 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3464 | 1/1   | 0.94 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1E    | 312  | 1/1   | 0.94 | 0.23 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3022 | 1/1   | 0.94 | 0.24 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1679 | 1/1   | 0.94 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3735 | 1/1   | 0.94 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3024 | 1/1   | 0.94 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3475 | 1/1   | 0.94 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3025 | 1/1   | 0.94 | 0.13 | 54,54,54,54                 | 0     |
| 57  | MG   | 1E    | 314  | 1/1   | 0.94 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3054 | 1/1   | 0.94 | 0.26 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3251 | 1/1   | 0.94 | 0.22 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3029 | 1/1   | 0.94 | 0.09 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3483 | 1/1   | 0.94 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3648 | 1/1   | 0.94 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1F    | 305  | 1/1   | 0.94 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3255 | 1/1   | 0.94 | 0.27 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3760 | 1/1   | 0.94 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 1a    | 1687 | 1/1   | 0.94 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1690 | 1/1   | 0.94 | 0.27 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3421 | 1/1   | 0.94 | 0.24 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3764 | 1/1   | 0.94 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1F    | 312  | 1/1   | 0.94 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3543 | 1/1   | 0.94 | 0.17 | 38,38,38,38                 | 0     |
| 57  | MG   | 1G    | 203  | 1/1   | 0.94 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3766 | 1/1   | 0.94 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1697 | 1/1   | 0.94 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3501 | 1/1   | 0.94 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3770 | 1/1   | 0.94 | 0.17 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1698 | 1/1   | 0.94 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3236 | 1/1   | 0.94 | 0.14 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3774 | 1/1   | 0.94 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3775 | 1/1   | 0.94 | 0.09 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3075 | 1/1   | 0.94 | 0.25 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3509 | 1/1   | 0.94 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1701 | 1/1   | 0.94 | 0.20 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3654 | 1/1   | 0.94 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3551 | 1/1   | 0.94 | 0.29 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3276 | 1/1   | 0.94 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3516 | 1/1   | 0.94 | 0.30 | 62,62,62,62                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3277 | 1/1   | 0.94 | 0.26 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3657 | 1/1   | 0.94 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3787 | 1/1   | 0.94 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4033 | 1/1   | 0.94 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3076 | 1/1   | 0.94 | 0.20 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1712 | 1/1   | 0.94 | 0.16 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3056 | 1/1   | 0.94 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1716 | 1/1   | 0.94 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3667 | 1/1   | 0.94 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3192 | 1/1   | 0.94 | 0.22 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3242 | 1/1   | 0.94 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3288 | 1/1   | 0.94 | 0.13 | 78,78,78,78                 | 0     |
| 57  | MG   | 2A    | 3068 | 1/1   | 0.94 | 0.16 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3293 | 1/1   | 0.94 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3801 | 1/1   | 0.94 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3802 | 1/1   | 0.94 | 0.08 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1723 | 1/1   | 0.94 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3043 | 1/1   | 0.94 | 0.27 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3805 | 1/1   | 0.94 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4043 | 1/1   | 0.94 | 0.05 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3561 | 1/1   | 0.94 | 0.16 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1729 | 1/1   | 0.94 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3077 | 1/1   | 0.94 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3078 | 1/1   | 0.94 | 0.21 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3897 | 1/1   | 0.94 | 0.21 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3545 | 1/1   | 0.94 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 4047 | 1/1   | 0.94 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3784 | 1/1   | 0.94 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3548 | 1/1   | 0.94 | 0.20 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3290 | 1/1   | 0.94 | 0.20 | 48,48,48,48                 | 0     |
| 57  | MG   | 1R    | 201  | 1/1   | 0.94 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1735 | 1/1   | 0.94 | 0.12 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3557 | 1/1   | 0.94 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3084 | 1/1   | 0.94 | 0.21 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3559 | 1/1   | 0.94 | 0.11 | 72,72,72,72                 | 0     |
| 57  | MG   | 2D    | 301  | 1/1   | 0.94 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3030 | 1/1   | 0.94 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3016 | 1/1   | 0.94 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3906 | 1/1   | 0.94 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3682 | 1/1   | 0.94 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3200 | 1/1   | 0.94 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3568 | 1/1   | 0.94 | 0.13 | 64,64,64,64                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1U    | 204  | 1/1   | 0.94 | 0.33 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3686 | 1/1   | 0.94 | 0.05 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3065 | 1/1   | 0.94 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3570 | 1/1   | 0.94 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3799 | 1/1   | 0.94 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 1W    | 205  | 1/1   | 0.94 | 0.17 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3692 | 1/1   | 0.94 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 1X    | 104  | 1/1   | 0.94 | 0.20 | 45,45,45,45                 | 0     |
| 57  | MG   | 2P    | 201  | 1/1   | 0.94 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3386 | 1/1   | 0.94 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1757 | 1/1   | 0.94 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3579 | 1/1   | 0.94 | 0.19 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3442 | 1/1   | 0.94 | 0.24 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3803 | 1/1   | 0.94 | 0.20 | 26,26,26,26                 | 0     |
| 57  | MG   | 1Z    | 301  | 1/1   | 0.94 | 0.09 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3114 | 1/1   | 0.94 | 0.21 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3250 | 1/1   | 0.94 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 2U    | 203  | 1/1   | 0.94 | 0.15 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1773 | 1/1   | 0.94 | 0.07 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1775 | 1/1   | 0.94 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3805 | 1/1   | 0.94 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3120 | 1/1   | 0.94 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4077 | 1/1   | 0.94 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3204 | 1/1   | 0.94 | 0.18 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3337 | 1/1   | 0.94 | 0.26 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 4082 | 1/1   | 0.94 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3252 | 1/1   | 0.94 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3127 | 1/1   | 0.94 | 0.27 | 68,68,68,68                 | 0     |
| 57  | MG   | 1l    | 104  | 1/1   | 0.94 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3130 | 1/1   | 0.94 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3131 | 1/1   | 0.94 | 0.13 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3600 | 1/1   | 0.94 | 0.08 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3134 | 1/1   | 0.94 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3165 | 1/1   | 0.94 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3700 | 1/1   | 0.94 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 12    | 101  | 1/1   | 0.94 | 0.17 | 51,51,51,51                 | 0     |
| 57  | MG   | 13    | 103  | 1/1   | 0.94 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3812 | 1/1   | 0.94 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3343 | 1/1   | 0.94 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4094 | 1/1   | 0.94 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3133 | 1/1   | 0.94 | 0.25 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3347 | 1/1   | 0.94 | 0.12 | 48,48,48,48                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3612 | 1/1   | 0.94 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3145 | 1/1   | 0.94 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3146 | 1/1   | 0.94 | 0.22 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3147 | 1/1   | 0.94 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 4097 | 1/1   | 0.94 | 0.07 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3706 | 1/1   | 0.94 | 0.22 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1796 | 1/1   | 0.94 | 0.10 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3707 | 1/1   | 0.94 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3943 | 1/1   | 0.94 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3944 | 1/1   | 0.94 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3367 | 1/1   | 0.94 | 0.39 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3451 | 1/1   | 0.94 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3103 | 1/1   | 0.95 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3933 | 1/1   | 0.95 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3756 | 1/1   | 0.95 | 0.07 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3282 | 1/1   | 0.95 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3935 | 1/1   | 0.95 | 0.07 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3678 | 1/1   | 0.95 | 0.06 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3470 | 1/1   | 0.95 | 0.15 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1803 | 1/1   | 0.95 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3432 | 1/1   | 0.95 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1642 | 1/1   | 0.95 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4046 | 1/1   | 0.95 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3758 | 1/1   | 0.95 | 0.06 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3589 | 1/1   | 0.95 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3290 | 1/1   | 0.95 | 0.21 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3219 | 1/1   | 0.95 | 0.19 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3116 | 1/1   | 0.95 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 1F    | 301  | 1/1   | 0.95 | 0.16 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3137 | 1/1   | 0.95 | 0.12 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3942 | 1/1   | 0.95 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4054 | 1/1   | 0.95 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3681 | 1/1   | 0.95 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1815 | 1/1   | 0.95 | 0.09 | 74,74,74,74                 | 0     |
| 57  | MG   | 1F    | 309  | 1/1   | 0.95 | 0.08 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3008 | 1/1   | 0.95 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3497 | 1/1   | 0.95 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3848 | 1/1   | 0.95 | 0.05 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3128 | 1/1   | 0.95 | 0.24 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3683 | 1/1   | 0.95 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1F    | 313  | 1/1   | 0.95 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3594 | 1/1   | 0.95 | 0.11 | 36,36,36,36                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3504 | 1/1   | 0.95 | 0.24 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3133 | 1/1   | 0.95 | 0.19 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3507 | 1/1   | 0.95 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3523 | 1/1   | 0.95 | 0.20 | 42,42,42,42                 | 0     |
| 57  | MG   | 1e    | 201  | 1/1   | 0.95 | 0.11 | 69,69,69,69                 | 0     |
| 57  | MG   | 1G    | 205  | 1/1   | 0.95 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 1f    | 201  | 1/1   | 0.95 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3525 | 1/1   | 0.95 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1662 | 1/1   | 0.95 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1N    | 201  | 1/1   | 0.95 | 0.15 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3179 | 1/1   | 0.95 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 1n    | 101  | 1/1   | 0.95 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3717 | 1/1   | 0.95 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4067 | 1/1   | 0.95 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3689 | 1/1   | 0.95 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3952 | 1/1   | 0.95 | 0.06 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3522 | 1/1   | 0.95 | 0.08 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3478 | 1/1   | 0.95 | 0.16 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3148 | 1/1   | 0.95 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3028 | 1/1   | 0.95 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3526 | 1/1   | 0.95 | 0.14 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3115 | 1/1   | 0.95 | 0.19 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3956 | 1/1   | 0.95 | 0.16 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3183 | 1/1   | 0.95 | 0.25 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3532 | 1/1   | 0.95 | 0.17 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 4079 | 1/1   | 0.95 | 0.06 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3533 | 1/1   | 0.95 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4080 | 1/1   | 0.95 | 0.07 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3862 | 1/1   | 0.95 | 0.25 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3327 | 1/1   | 0.95 | 0.27 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3865 | 1/1   | 0.95 | 0.17 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 4086 | 1/1   | 0.95 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3010 | 1/1   | 0.95 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3967 | 1/1   | 0.95 | 0.14 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3542 | 1/1   | 0.95 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1x    | 105  | 1/1   | 0.95 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3544 | 1/1   | 0.95 | 0.16 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3609 | 1/1   | 0.95 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3755 | 1/1   | 0.95 | 0.11 | 83,83,83,83                 | 0     |
| 57  | MG   | 1A    | 3611 | 1/1   | 0.95 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3031 | 1/1   | 0.95 | 0.17 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3758 | 1/1   | 0.95 | 0.10 | 58,58,58,58                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3971 | 1/1   | 0.95 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3549 | 1/1   | 0.95 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3345 | 1/1   | 0.95 | 0.40 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3551 | 1/1   | 0.95 | 0.11 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3613 | 1/1   | 0.95 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3121 | 1/1   | 0.95 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3555 | 1/1   | 0.95 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3405 | 1/1   | 0.95 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3489 | 1/1   | 0.95 | 0.30 | 38,38,38,38                 | 0     |
| 57  | MG   | 1V    | 203  | 1/1   | 0.95 | 0.14 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3055 | 1/1   | 0.95 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3194 | 1/1   | 0.95 | 0.08 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3773 | 1/1   | 0.95 | 0.08 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3450 | 1/1   | 0.95 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3563 | 1/1   | 0.95 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3180 | 1/1   | 0.95 | 0.24 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3565 | 1/1   | 0.95 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3982 | 1/1   | 0.95 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1W    | 204  | 1/1   | 0.95 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3333 | 1/1   | 0.95 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1702 | 1/1   | 0.95 | 0.19 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3881 | 1/1   | 0.95 | 0.08 | 19,19,19,19                 | 0     |
| 57  | MG   | 1a    | 1704 | 1/1   | 0.95 | 0.06 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3572 | 1/1   | 0.95 | 0.26 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3361 | 1/1   | 0.95 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1X    | 101  | 1/1   | 0.95 | 0.25 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3014 | 1/1   | 0.95 | 0.20 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3986 | 1/1   | 0.95 | 0.09 | 24,24,24,24                 | 0     |
| 57  | MG   | 1X    | 106  | 1/1   | 0.95 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1X    | 107  | 1/1   | 0.95 | 0.08 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3495 | 1/1   | 0.95 | 0.06 | 68,68,68,68                 | 0     |
| 57  | MG   | 1a    | 1715 | 1/1   | 0.95 | 0.18 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3555 | 1/1   | 0.95 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3454 | 1/1   | 0.95 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3557 | 1/1   | 0.95 | 0.23 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1721 | 1/1   | 0.95 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3272 | 1/1   | 0.95 | 0.25 | 35,35,35,35                 | 0     |
| 57  | MG   | 10    | 101  | 1/1   | 0.95 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3273 | 1/1   | 0.95 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3588 | 1/1   | 0.95 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3030 | 1/1   | 0.95 | 0.12 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3996 | 1/1   | 0.95 | 0.06 | 29,29,29,29                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1726 | 1/1   | 0.95 | 0.15 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3206 | 1/1   | 0.95 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3412 | 1/1   | 0.95 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3034 | 1/1   | 0.95 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 11    | 101  | 1/1   | 0.95 | 0.25 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3596 | 1/1   | 0.95 | 0.09 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3039 | 1/1   | 0.95 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3998 | 1/1   | 0.95 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 11    | 103  | 1/1   | 0.95 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3810 | 1/1   | 0.95 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3639 | 1/1   | 0.95 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3602 | 1/1   | 0.95 | 0.19 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3019 | 1/1   | 0.95 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4004 | 1/1   | 0.95 | 0.09 | 76,76,76,76                 | 0     |
| 57  | MG   | 13    | 102  | 1/1   | 0.95 | 0.16 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3049 | 1/1   | 0.95 | 0.20 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3563 | 1/1   | 0.95 | 0.19 | 45,45,45,45                 | 0     |
| 57  | MG   | 14    | 101  | 1/1   | 0.95 | 0.09 | 74,74,74,74                 | 0     |
| 57  | MG   | 2D    | 304  | 1/1   | 0.95 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 2D    | 305  | 1/1   | 0.95 | 0.26 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1740 | 1/1   | 0.95 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3642 | 1/1   | 0.95 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 15    | 105  | 1/1   | 0.95 | 0.13 | 40,40,40,40                 | 0     |
| 57  | MG   | 2E    | 303  | 1/1   | 0.95 | 0.12 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3228 | 1/1   | 0.95 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3414 | 1/1   | 0.95 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3614 | 1/1   | 0.95 | 0.09 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3003 | 1/1   | 0.95 | 0.06 | 25,25,25,25                 | 0     |
| 57  | MG   | 16    | 101  | 1/1   | 0.95 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3232 | 1/1   | 0.95 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3904 | 1/1   | 0.95 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3234 | 1/1   | 0.95 | 0.13 | 72,72,72,72                 | 0     |
| 57  | MG   | 17    | 103  | 1/1   | 0.95 | 0.16 | 37,37,37,37                 | 0     |
| 57  | MG   | 18    | 101  | 1/1   | 0.95 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3622 | 1/1   | 0.95 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3623 | 1/1   | 0.95 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 2Q    | 204  | 1/1   | 0.95 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3025 | 1/1   | 0.95 | 0.32 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3045 | 1/1   | 0.95 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3064 | 1/1   | 0.95 | 0.30 | 62,62,62,62                 | 0     |
| 57  | MG   | 1B    | 217  | 1/1   | 0.95 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3241 | 1/1   | 0.95 | 0.15 | 50,50,50,50                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3421 | 1/1   | 0.95 | 0.07 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3066 | 1/1   | 0.95 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3170 | 1/1   | 0.95 | 0.06 | 22,22,22,22                 | 0     |
| 57  | MG   | 1a    | 1605 | 1/1   | 0.95 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2W    | 202  | 1/1   | 0.95 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3205 | 1/1   | 0.95 | 0.21 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3088 | 1/1   | 0.95 | 0.24 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3346 | 1/1   | 0.95 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3072 | 1/1   | 0.95 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3431 | 1/1   | 0.95 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3655 | 1/1   | 0.95 | 0.06 | 23,23,23,23                 | 0     |
| 57  | MG   | 1a    | 1613 | 1/1   | 0.95 | 0.15 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 4019 | 1/1   | 0.95 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1616 | 1/1   | 0.95 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3647 | 1/1   | 0.95 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3110 | 1/1   | 0.95 | 0.14 | 39,39,39,39                 | 0     |
| 57  | MG   | 27    | 101  | 1/1   | 0.95 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3576 | 1/1   | 0.95 | 0.11 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3650 | 1/1   | 0.95 | 0.28 | 61,61,61,61                 | 0     |
| 57  | MG   | 2a    | 1601 | 1/1   | 0.95 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3441 | 1/1   | 0.95 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3652 | 1/1   | 0.95 | 0.09 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1778 | 1/1   | 0.95 | 0.07 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 4023 | 1/1   | 0.95 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3579 | 1/1   | 0.95 | 0.15 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3260 | 1/1   | 0.95 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3661 | 1/1   | 0.95 | 0.06 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3086 | 1/1   | 0.95 | 0.18 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3917 | 1/1   | 0.95 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4027 | 1/1   | 0.95 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3662 | 1/1   | 0.95 | 0.14 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3111 | 1/1   | 0.95 | 0.16 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3427 | 1/1   | 0.95 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3664 | 1/1   | 0.95 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3923 | 1/1   | 0.95 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3515 | 1/1   | 0.95 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4036 | 1/1   | 0.95 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3313 | 1/1   | 0.95 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3285 | 1/1   | 0.95 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3674 | 1/1   | 0.95 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3026 | 1/1   | 0.95 | 0.17 | 42,42,42,42                 | 0     |
| 58  | K    | 2A    | 3377 | 1/1   | 0.95 | 0.07 | 65,65,65,65                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3021 | 1/1   | 0.96 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3007 | 1/1   | 0.96 | 0.06 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3664 | 1/1   | 0.96 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3931 | 1/1   | 0.96 | 0.05 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3665 | 1/1   | 0.96 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3221 | 1/1   | 0.96 | 0.27 | 47,47,47,47                 | 0     |
| 57  | MG   | 15    | 107  | 1/1   | 0.96 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3711 | 1/1   | 0.96 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3270 | 1/1   | 0.96 | 0.14 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3035 | 1/1   | 0.96 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3074 | 1/1   | 0.96 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3539 | 1/1   | 0.96 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 17    | 101  | 1/1   | 0.96 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 17    | 102  | 1/1   | 0.96 | 0.21 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3841 | 1/1   | 0.96 | 0.11 | 21,21,21,21                 | 0     |
| 57  | MG   | 17    | 104  | 1/1   | 0.96 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3274 | 1/1   | 0.96 | 0.17 | 51,51,51,51                 | 0     |
| 57  | MG   | 18    | 102  | 1/1   | 0.96 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 18    | 103  | 1/1   | 0.96 | 0.17 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3196 | 1/1   | 0.96 | 0.31 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3044 | 1/1   | 0.96 | 0.13 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3725 | 1/1   | 0.96 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3727 | 1/1   | 0.96 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3043 | 1/1   | 0.96 | 0.06 | 56,56,56,56                 | 0     |
| 57  | MG   | 19    | 101  | 1/1   | 0.96 | 0.19 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3941 | 1/1   | 0.96 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3552 | 1/1   | 0.96 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3201 | 1/1   | 0.96 | 0.11 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3061 | 1/1   | 0.96 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1603 | 1/1   | 0.96 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 1D    | 305  | 1/1   | 0.96 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1D    | 306  | 1/1   | 0.96 | 0.16 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3738 | 1/1   | 0.96 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3739 | 1/1   | 0.96 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3139 | 1/1   | 0.96 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 1D    | 309  | 1/1   | 0.96 | 0.17 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 4048 | 1/1   | 0.96 | 0.10 | 14,14,14,14                 | 0     |
| 57  | MG   | 2A    | 3209 | 1/1   | 0.96 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1609 | 1/1   | 0.96 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3759 | 1/1   | 0.96 | 0.10 | 19,19,19,19                 | 0     |
| 57  | MG   | 1E    | 302  | 1/1   | 0.96 | 0.13 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3751 | 1/1   | 0.96 | 0.08 | 41,41,41,41                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1E    | 305  | 1/1   | 0.96 | 0.14 | 38,38,38,38                 | 0     |
| 57  | MG   | 1a    | 1615 | 1/1   | 0.96 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3059 | 1/1   | 0.96 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1761 | 1/1   | 0.96 | 0.10 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3416 | 1/1   | 0.96 | 0.18 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3524 | 1/1   | 0.96 | 0.22 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3850 | 1/1   | 0.96 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3763 | 1/1   | 0.96 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3852 | 1/1   | 0.96 | 0.08 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3319 | 1/1   | 0.96 | 0.38 | 47,47,47,47                 | 0     |
| 57  | MG   | 1E    | 313  | 1/1   | 0.96 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3765 | 1/1   | 0.96 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3320 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1627 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3419 | 1/1   | 0.96 | 0.21 | 43,43,43,43                 | 0     |
| 57  | MG   | 1F    | 303  | 1/1   | 0.96 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3073 | 1/1   | 0.96 | 0.32 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3140 | 1/1   | 0.96 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1784 | 1/1   | 0.96 | 0.20 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 4063 | 1/1   | 0.96 | 0.14 | 40,40,40,40                 | 0     |
| 57  | MG   | 1F    | 306  | 1/1   | 0.96 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3077 | 1/1   | 0.96 | 0.10 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3777 | 1/1   | 0.96 | 0.08 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3080 | 1/1   | 0.96 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3779 | 1/1   | 0.96 | 0.08 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3234 | 1/1   | 0.96 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3959 | 1/1   | 0.96 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3771 | 1/1   | 0.96 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3406 | 1/1   | 0.96 | 0.18 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3602 | 1/1   | 0.96 | 0.06 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3687 | 1/1   | 0.96 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3184 | 1/1   | 0.96 | 0.28 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3864 | 1/1   | 0.96 | 0.11 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3411 | 1/1   | 0.96 | 0.24 | 54,54,54,54                 | 0     |
| 57  | MG   | 1G    | 204  | 1/1   | 0.96 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3606 | 1/1   | 0.96 | 0.07 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3249 | 1/1   | 0.96 | 0.27 | 75,75,75,75                 | 0     |
| 57  | MG   | 1a    | 1797 | 1/1   | 0.96 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3092 | 1/1   | 0.96 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1644 | 1/1   | 0.96 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3142 | 1/1   | 0.96 | 0.26 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3187 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3188 | 1/1   | 0.96 | 0.18 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3610 | 1/1   | 0.96 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3079 | 1/1   | 0.96 | 0.17 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3100 | 1/1   | 0.96 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3380 | 1/1   | 0.96 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3974 | 1/1   | 0.96 | 0.11 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 4084 | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3262 | 1/1   | 0.96 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3263 | 1/1   | 0.96 | 0.21 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3104 | 1/1   | 0.96 | 0.18 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3265 | 1/1   | 0.96 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3483 | 1/1   | 0.96 | 0.23 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3439 | 1/1   | 0.96 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3098 | 1/1   | 0.96 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3268 | 1/1   | 0.96 | 0.06 | 58,58,58,58                 | 0     |
| 57  | MG   | 1P    | 202  | 1/1   | 0.96 | 0.14 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3119 | 1/1   | 0.96 | 0.27 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 4090 | 1/1   | 0.96 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3446 | 1/1   | 0.96 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3548 | 1/1   | 0.96 | 0.22 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3120 | 1/1   | 0.96 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3434 | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3705 | 1/1   | 0.96 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3334 | 1/1   | 0.96 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3797 | 1/1   | 0.96 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3885 | 1/1   | 0.96 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3886 | 1/1   | 0.96 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 1R    | 202  | 1/1   | 0.96 | 0.15 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3553 | 1/1   | 0.96 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3053 | 1/1   | 0.96 | 0.12 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3197 | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3153 | 1/1   | 0.96 | 0.36 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3629 | 1/1   | 0.96 | 0.08 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3122 | 1/1   | 0.96 | 0.22 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3714 | 1/1   | 0.96 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 1U    | 202  | 1/1   | 0.96 | 0.29 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3558 | 1/1   | 0.96 | 0.17 | 41,41,41,41                 | 0     |
| 57  | MG   | 1U    | 206  | 1/1   | 0.96 | 0.26 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3291 | 1/1   | 0.96 | 0.22 | 65,65,65,65                 | 0     |
| 57  | MG   | 2F    | 306  | 1/1   | 0.96 | 0.23 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3469 | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3132 | 1/1   | 0.96 | 0.11 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3471 | 1/1   | 0.96 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3473 | 1/1   | 0.96 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4108 | 1/1   | 0.96 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 1V    | 204  | 1/1   | 0.96 | 0.20 | 50,50,50,50                 | 0     |
| 57  | MG   | 1V    | 205  | 1/1   | 0.96 | 0.12 | 34,34,34,34                 | 0     |
| 57  | MG   | 2R    | 202  | 1/1   | 0.96 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1680 | 1/1   | 0.96 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3632 | 1/1   | 0.96 | 0.10 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3999 | 1/1   | 0.96 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3389 | 1/1   | 0.96 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3159 | 1/1   | 0.96 | 0.20 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3100 | 1/1   | 0.96 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3485 | 1/1   | 0.96 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3392 | 1/1   | 0.96 | 0.15 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1688 | 1/1   | 0.96 | 0.15 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1689 | 1/1   | 0.96 | 0.30 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3203 | 1/1   | 0.96 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3307 | 1/1   | 0.96 | 0.06 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3063 | 1/1   | 0.96 | 0.25 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3670 | 1/1   | 0.96 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1X    | 102  | 1/1   | 0.96 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3064 | 1/1   | 0.96 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3496 | 1/1   | 0.96 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3150 | 1/1   | 0.96 | 0.23 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3207 | 1/1   | 0.96 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 25    | 102  | 1/1   | 0.96 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1695 | 1/1   | 0.96 | 0.23 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3728 | 1/1   | 0.96 | 0.11 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3644 | 1/1   | 0.96 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3210 | 1/1   | 0.96 | 0.25 | 46,46,46,46                 | 0     |
| 57  | MG   | 28    | 102  | 1/1   | 0.96 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3503 | 1/1   | 0.96 | 0.27 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3646 | 1/1   | 0.96 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3505 | 1/1   | 0.96 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3126 | 1/1   | 0.96 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3213 | 1/1   | 0.96 | 0.09 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3453 | 1/1   | 0.96 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3258 | 1/1   | 0.96 | 0.17 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3163 | 1/1   | 0.96 | 0.11 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3916 | 1/1   | 0.96 | 0.04 | 16,16,16,16                 | 0     |
| 57  | MG   | 1A    | 3574 | 1/1   | 0.96 | 0.45 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3402 | 1/1   | 0.96 | 0.18 | 40,40,40,40                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3740 | 1/1   | 0.96 | 0.05 | 16,16,16,16                 | 0     |
| 57  | MG   | 1A    | 3921 | 1/1   | 0.96 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3029 | 1/1   | 0.96 | 0.39 | 37,37,37,37                 | 0     |
| 57  | MG   | 1a    | 1713 | 1/1   | 0.96 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3577 | 1/1   | 0.96 | 0.33 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3128 | 1/1   | 0.96 | 0.28 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3015 | 1/1   | 0.96 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3174 | 1/1   | 0.96 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3066 | 1/1   | 0.96 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 4029 | 1/1   | 0.96 | 0.07 | 27,27,27,27                 | 0     |
| 57  | MG   | 12    | 102  | 1/1   | 0.96 | 0.08 | 50,50,50,50                 | 0     |
| 58  | K    | 1A    | 3536 | 1/1   | 0.96 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1720 | 1/1   | 0.96 | 0.06 | 47,47,47,47                 | 0     |
| 59  | ZN   | 14    | 102  | 1/1   | 0.96 | 0.09 | 113,113,113,113             | 0     |
| 59  | ZN   | 24    | 501  | 1/1   | 0.96 | 0.12 | 127,127,127,127             | 0     |
| 57  | MG   | 2A    | 3726 | 1/1   | 0.97 | 0.06 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3243 | 1/1   | 0.97 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3094 | 1/1   | 0.97 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1U    | 205  | 1/1   | 0.97 | 0.23 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3368 | 1/1   | 0.97 | 0.36 | 44,44,44,44                 | 0     |
| 57  | MG   | 1V    | 202  | 1/1   | 0.97 | 0.30 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3132 | 1/1   | 0.97 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3370 | 1/1   | 0.97 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3738 | 1/1   | 0.97 | 0.05 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3001 | 1/1   | 0.97 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3585 | 1/1   | 0.97 | 0.21 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3405 | 1/1   | 0.97 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3586 | 1/1   | 0.97 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3022 | 1/1   | 0.97 | 0.04 | 18,18,18,18                 | 0     |
| 57  | MG   | 1A    | 3046 | 1/1   | 0.97 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3744 | 1/1   | 0.97 | 0.06 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3745 | 1/1   | 0.97 | 0.05 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3663 | 1/1   | 0.97 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3111 | 1/1   | 0.97 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3323 | 1/1   | 0.97 | 0.22 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3412 | 1/1   | 0.97 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3590 | 1/1   | 0.97 | 0.07 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3414 | 1/1   | 0.97 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3083 | 1/1   | 0.97 | 0.19 | 31,31,31,31                 | 0     |
| 57  | MG   | 1X    | 103  | 1/1   | 0.97 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3167 | 1/1   | 0.97 | 0.27 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3668 | 1/1   | 0.97 | 0.05 | 27,27,27,27                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1683 | 1/1   | 0.97 | 0.12 | 41,41,41,41                 | 0     |
| 57  | MG   | 1B    | 218  | 1/1   | 0.97 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3527 | 1/1   | 0.97 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3121 | 1/1   | 0.97 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3424 | 1/1   | 0.97 | 0.09 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3168 | 1/1   | 0.97 | 0.23 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3123 | 1/1   | 0.97 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3040 | 1/1   | 0.97 | 0.27 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3005 | 1/1   | 0.97 | 0.14 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3755 | 1/1   | 0.97 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 4030 | 1/1   | 0.97 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3932 | 1/1   | 0.97 | 0.05 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3433 | 1/1   | 0.97 | 0.14 | 25,25,25,25                 | 0     |
| 57  | MG   | 10    | 103  | 1/1   | 0.97 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3675 | 1/1   | 0.97 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3436 | 1/1   | 0.97 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 10    | 105  | 1/1   | 0.97 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3842 | 1/1   | 0.97 | 0.15 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 4034 | 1/1   | 0.97 | 0.06 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3059 | 1/1   | 0.97 | 0.20 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3245 | 1/1   | 0.97 | 0.18 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3206 | 1/1   | 0.97 | 0.13 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3443 | 1/1   | 0.97 | 0.05 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3431 | 1/1   | 0.97 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4039 | 1/1   | 0.97 | 0.15 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3761 | 1/1   | 0.97 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3073 | 1/1   | 0.97 | 0.04 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3448 | 1/1   | 0.97 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3143 | 1/1   | 0.97 | 0.13 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3603 | 1/1   | 0.97 | 0.04 | 34,34,34,34                 | 0     |
| 57  | MG   | 1B    | 238  | 1/1   | 0.97 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3538 | 1/1   | 0.97 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 15    | 102  | 1/1   | 0.97 | 0.17 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3292 | 1/1   | 0.97 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3539 | 1/1   | 0.97 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3049 | 1/1   | 0.97 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3003 | 1/1   | 0.97 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3011 | 1/1   | 0.97 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3107 | 1/1   | 0.97 | 0.34 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3152 | 1/1   | 0.97 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3800 | 1/1   | 0.97 | 0.06 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3545 | 1/1   | 0.97 | 0.12 | 46,46,46,46                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3020 | 1/1   | 0.97 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3181 | 1/1   | 0.97 | 0.34 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3628 | 1/1   | 0.97 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3009 | 1/1   | 0.97 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3157 | 1/1   | 0.97 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1E    | 301  | 1/1   | 0.97 | 0.28 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3773 | 1/1   | 0.97 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3468 | 1/1   | 0.97 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1E    | 303  | 1/1   | 0.97 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3013 | 1/1   | 0.97 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 1E    | 304  | 1/1   | 0.97 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 17    | 105  | 1/1   | 0.97 | 0.13 | 46,46,46,46                 | 0     |
| 57  | MG   | 17    | 106  | 1/1   | 0.97 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3549 | 1/1   | 0.97 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3615 | 1/1   | 0.97 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1E    | 307  | 1/1   | 0.97 | 0.16 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3479 | 1/1   | 0.97 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 18    | 104  | 1/1   | 0.97 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3694 | 1/1   | 0.97 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3777 | 1/1   | 0.97 | 0.06 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3617 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3957 | 1/1   | 0.97 | 0.06 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3958 | 1/1   | 0.97 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3779 | 1/1   | 0.97 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1737 | 1/1   | 0.97 | 0.06 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3439 | 1/1   | 0.97 | 0.14 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3440 | 1/1   | 0.97 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3217 | 1/1   | 0.97 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3492 | 1/1   | 0.97 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4068 | 1/1   | 0.97 | 0.05 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3218 | 1/1   | 0.97 | 0.11 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1610 | 1/1   | 0.97 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3037 | 1/1   | 0.97 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3964 | 1/1   | 0.97 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3052 | 1/1   | 0.97 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1F    | 307  | 1/1   | 0.97 | 0.12 | 31,31,31,31                 | 0     |
| 57  | MG   | 2F    | 304  | 1/1   | 0.97 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2F    | 305  | 1/1   | 0.97 | 0.27 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3871 | 1/1   | 0.97 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3300 | 1/1   | 0.97 | 0.15 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1617 | 1/1   | 0.97 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3151 | 1/1   | 0.97 | 0.08 | 36,36,36,36                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3345 | 1/1   | 0.97 | 0.13 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3875 | 1/1   | 0.97 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2Q    | 203  | 1/1   | 0.97 | 0.37 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3048 | 1/1   | 0.97 | 0.19 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3876 | 1/1   | 0.97 | 0.04 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3342 | 1/1   | 0.97 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1G    | 201  | 1/1   | 0.97 | 0.11 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1758 | 1/1   | 0.97 | 0.07 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3972 | 1/1   | 0.97 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3513 | 1/1   | 0.97 | 0.04 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1762 | 1/1   | 0.97 | 0.07 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3152 | 1/1   | 0.97 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1767 | 1/1   | 0.97 | 0.10 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3498 | 1/1   | 0.97 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3791 | 1/1   | 0.97 | 0.05 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3185 | 1/1   | 0.97 | 0.24 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3500 | 1/1   | 0.97 | 0.28 | 38,38,38,38                 | 0     |
| 57  | MG   | 2X    | 102  | 1/1   | 0.97 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3078 | 1/1   | 0.97 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3883 | 1/1   | 0.97 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 4089 | 1/1   | 0.97 | 0.04 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3093 | 1/1   | 0.97 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3262 | 1/1   | 0.97 | 0.20 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 4092 | 1/1   | 0.97 | 0.17 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3263 | 1/1   | 0.97 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3635 | 1/1   | 0.97 | 0.04 | 25,25,25,25                 | 0     |
| 57  | MG   | 1a    | 1638 | 1/1   | 0.97 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3530 | 1/1   | 0.97 | 0.10 | 61,61,61,61                 | 0     |
| 57  | MG   | 1P    | 201  | 1/1   | 0.97 | 0.32 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3214 | 1/1   | 0.97 | 0.07 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3215 | 1/1   | 0.97 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3636 | 1/1   | 0.97 | 0.04 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3264 | 1/1   | 0.97 | 0.23 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3988 | 1/1   | 0.97 | 0.05 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3717 | 1/1   | 0.97 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3638 | 1/1   | 0.97 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3156 | 1/1   | 0.97 | 0.23 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3992 | 1/1   | 0.97 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3226 | 1/1   | 0.97 | 0.20 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3707 | 1/1   | 0.97 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3157 | 1/1   | 0.97 | 0.18 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3269 | 1/1   | 0.97 | 0.32 | 41,41,41,41                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3572 | 1/1   | 0.97 | 0.23 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3900 | 1/1   | 0.97 | 0.03 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3229 | 1/1   | 0.97 | 0.16 | 33,33,33,33                 | 0     |
| 57  | MG   | 1a    | 1801 | 1/1   | 0.97 | 0.19 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3230 | 1/1   | 0.97 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3231 | 1/1   | 0.97 | 0.34 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3647 | 1/1   | 0.97 | 0.05 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 4111 | 1/1   | 0.97 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3158 | 1/1   | 0.97 | 0.17 | 29,29,29,29                 | 0     |
| 57  | MG   | 1T    | 201  | 1/1   | 0.97 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1T    | 202  | 1/1   | 0.97 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3364 | 1/1   | 0.97 | 0.17 | 28,28,28,28                 | 0     |
| 57  | MG   | 1U    | 201  | 1/1   | 0.97 | 0.12 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3095 | 1/1   | 0.97 | 0.13 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3275 | 1/1   | 0.97 | 0.08 | 34,34,34,34                 | 0     |
| 59  | ZN   | 2Y    | 501  | 1/1   | 0.97 | 0.05 | 105,105,105,105             | 0     |
| 57  | MG   | 1U    | 203  | 1/1   | 0.97 | 0.11 | 37,37,37,37                 | 0     |
| 59  | ZN   | 2n    | 501  | 1/1   | 0.97 | 0.06 | 96,96,96,96                 | 0     |
| 57  | MG   | 1A    | 3578 | 1/1   | 0.98 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4017 | 1/1   | 0.98 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3038 | 1/1   | 0.98 | 0.07 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3309 | 1/1   | 0.98 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3108 | 1/1   | 0.98 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 4020 | 1/1   | 0.98 | 0.04 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3138 | 1/1   | 0.98 | 0.06 | 23,23,23,23                 | 0     |
| 57  | MG   | 10    | 102  | 1/1   | 0.98 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3267 | 1/1   | 0.98 | 0.24 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3429 | 1/1   | 0.98 | 0.18 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3208 | 1/1   | 0.98 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3209 | 1/1   | 0.98 | 0.27 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1749 | 1/1   | 0.98 | 0.05 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3109 | 1/1   | 0.98 | 0.20 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3271 | 1/1   | 0.98 | 0.25 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3540 | 1/1   | 0.98 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3240 | 1/1   | 0.98 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3798 | 1/1   | 0.98 | 0.08 | 73,73,73,73                 | 0     |
| 57  | MG   | 1a    | 1754 | 1/1   | 0.98 | 0.05 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3032 | 1/1   | 0.98 | 0.08 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3556 | 1/1   | 0.98 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3212 | 1/1   | 0.98 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3544 | 1/1   | 0.98 | 0.24 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3067 | 1/1   | 0.98 | 0.09 | 30,30,30,30                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3890 | 1/1   | 0.98 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3501 | 1/1   | 0.98 | 0.26 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1763 | 1/1   | 0.98 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3702 | 1/1   | 0.98 | 0.04 | 18,18,18,18                 | 0     |
| 57  | MG   | 2A    | 3223 | 1/1   | 0.98 | 0.05 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1765 | 1/1   | 0.98 | 0.04 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3547 | 1/1   | 0.98 | 0.19 | 27,27,27,27                 | 0     |
| 57  | MG   | 1a    | 1768 | 1/1   | 0.98 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3420 | 1/1   | 0.98 | 0.24 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1770 | 1/1   | 0.98 | 0.05 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3033 | 1/1   | 0.98 | 0.18 | 32,32,32,32                 | 0     |
| 57  | MG   | 15    | 103  | 1/1   | 0.98 | 0.41 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3069 | 1/1   | 0.98 | 0.09 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3144 | 1/1   | 0.98 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3341 | 1/1   | 0.98 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3164 | 1/1   | 0.98 | 0.06 | 17,17,17,17                 | 0     |
| 57  | MG   | 2A    | 3021 | 1/1   | 0.98 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3012 | 1/1   | 0.98 | 0.12 | 27,27,27,27                 | 0     |
| 57  | MG   | 1N    | 203  | 1/1   | 0.98 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 1B    | 206  | 1/1   | 0.98 | 0.05 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3652 | 1/1   | 0.98 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3190 | 1/1   | 0.98 | 0.14 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3027 | 1/1   | 0.98 | 0.14 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3837 | 1/1   | 0.98 | 0.09 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3191 | 1/1   | 0.98 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3166 | 1/1   | 0.98 | 0.14 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3137 | 1/1   | 0.98 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3009 | 1/1   | 0.98 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3605 | 1/1   | 0.98 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3116 | 1/1   | 0.98 | 0.19 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3472 | 1/1   | 0.98 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 1P    | 203  | 1/1   | 0.98 | 0.29 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3035 | 1/1   | 0.98 | 0.09 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3718 | 1/1   | 0.98 | 0.03 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3476 | 1/1   | 0.98 | 0.11 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3659 | 1/1   | 0.98 | 0.05 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3660 | 1/1   | 0.98 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 4055 | 1/1   | 0.98 | 0.06 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3781 | 1/1   | 0.98 | 0.06 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3195 | 1/1   | 0.98 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3082 | 1/1   | 0.98 | 0.18 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3723 | 1/1   | 0.98 | 0.09 | 55,55,55,55                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3355 | 1/1   | 0.98 | 0.04 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1799 | 1/1   | 0.98 | 0.05 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1800 | 1/1   | 0.98 | 0.07 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3288 | 1/1   | 0.98 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4062 | 1/1   | 0.98 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3919 | 1/1   | 0.98 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3104 | 1/1   | 0.98 | 0.04 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 4065 | 1/1   | 0.98 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3358 | 1/1   | 0.98 | 0.29 | 27,27,27,27                 | 0     |
| 57  | MG   | 1a    | 1612 | 1/1   | 0.98 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3378 | 1/1   | 0.98 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3379 | 1/1   | 0.98 | 0.11 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3734 | 1/1   | 0.98 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3227 | 1/1   | 0.98 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3614 | 1/1   | 0.98 | 0.09 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 4069 | 1/1   | 0.98 | 0.14 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3924 | 1/1   | 0.98 | 0.04 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3150 | 1/1   | 0.98 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3792 | 1/1   | 0.98 | 0.04 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3741 | 1/1   | 0.98 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1707 | 1/1   | 0.98 | 0.03 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1708 | 1/1   | 0.98 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 23    | 102  | 1/1   | 0.98 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1709 | 1/1   | 0.98 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3389 | 1/1   | 0.98 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3793 | 1/1   | 0.98 | 0.29 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3670 | 1/1   | 0.98 | 0.08 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3616 | 1/1   | 0.98 | 0.04 | 28,28,28,28                 | 0     |
| 57  | MG   | 1a    | 1622 | 1/1   | 0.98 | 0.06 | 53,53,53,53                 | 0     |
| 57  | MG   | 1D    | 301  | 1/1   | 0.98 | 0.14 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3629 | 1/1   | 0.98 | 0.04 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4000 | 1/1   | 0.98 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1V    | 201  | 1/1   | 0.98 | 0.19 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3733 | 1/1   | 0.98 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1D    | 304  | 1/1   | 0.98 | 0.04 | 21,21,21,21                 | 0     |
| 57  | MG   | 1a    | 1719 | 1/1   | 0.98 | 0.06 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3759 | 1/1   | 0.98 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3037 | 1/1   | 0.98 | 0.14 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3075 | 1/1   | 0.98 | 0.23 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3637 | 1/1   | 0.98 | 0.05 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3326 | 1/1   | 0.98 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3481 | 1/1   | 0.98 | 0.18 | 24,24,24,24                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1D    | 308  | 1/1   | 0.98 | 0.17 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3401 | 1/1   | 0.98 | 0.17 | 39,39,39,39                 | 0     |
| 57  | MG   | 1D    | 310  | 1/1   | 0.98 | 0.23 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3768 | 1/1   | 0.98 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 1W    | 203  | 1/1   | 0.98 | 0.23 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3571 | 1/1   | 0.98 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3363 | 1/1   | 0.98 | 0.31 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4085 | 1/1   | 0.98 | 0.05 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3623 | 1/1   | 0.98 | 0.04 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3134 | 1/1   | 0.98 | 0.27 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3057 | 1/1   | 0.98 | 0.06 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3088 | 1/1   | 0.98 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3366 | 1/1   | 0.98 | 0.17 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3807 | 1/1   | 0.98 | 0.15 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3154 | 1/1   | 0.98 | 0.06 | 42,42,42,42                 | 0     |
| 59  | ZN   | 29    | 501  | 1/1   | 0.98 | 0.04 | 84,84,84,84                 | 0     |
| 57  | MG   | 1A    | 3178 | 1/1   | 0.98 | 0.10 | 41,41,41,41                 | 0     |
| 60  | SF4  | 2d    | 501  | 8/8   | 0.98 | 0.04 | 61,68,76,83                 | 0     |
| 57  | MG   | 1A    | 4078 | 1/1   | 0.99 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1728 | 1/1   | 0.99 | 0.04 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 4016 | 1/1   | 0.99 | 0.02 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3754 | 1/1   | 0.99 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 15    | 101  | 1/1   | 0.99 | 0.21 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3894 | 1/1   | 0.99 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1759 | 1/1   | 0.99 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1760 | 1/1   | 0.99 | 0.04 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3643 | 1/1   | 0.99 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3034 | 1/1   | 0.99 | 0.27 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3747 | 1/1   | 0.99 | 0.05 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3646 | 1/1   | 0.99 | 0.04 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3981 | 1/1   | 0.99 | 0.03 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3095 | 1/1   | 0.99 | 0.12 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3024 | 1/1   | 0.99 | 0.16 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1766 | 1/1   | 0.99 | 0.03 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3038 | 1/1   | 0.99 | 0.15 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3899 | 1/1   | 0.99 | 0.02 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3828 | 1/1   | 0.99 | 0.11 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3690 | 1/1   | 0.99 | 0.04 | 15,15,15,15                 | 0     |
| 57  | MG   | 1A    | 3987 | 1/1   | 0.99 | 0.04 | 40,40,40,40                 | 0     |
| 57  | MG   | 1R    | 203  | 1/1   | 0.99 | 0.28 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3169 | 1/1   | 0.99 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3512 | 1/1   | 0.99 | 0.04 | 43,43,43,43                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3202 | 1/1   | 0.99 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 1a    | 1774 | 1/1   | 0.99 | 0.05 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 4049 | 1/1   | 0.99 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 1a    | 1745 | 1/1   | 0.99 | 0.04 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3672 | 1/1   | 0.99 | 0.08 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3071 | 1/1   | 0.99 | 0.10 | 15,15,15,15                 | 0     |
| 57  | MG   | 1a    | 1779 | 1/1   | 0.99 | 0.04 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3171 | 1/1   | 0.99 | 0.04 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3039 | 1/1   | 0.99 | 0.15 | 31,31,31,31                 | 0     |
| 59  | ZN   | 1Y    | 203  | 1/1   | 0.99 | 0.03 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3486 | 1/1   | 0.99 | 0.05 | 45,45,45,45                 | 0     |
| 59  | ZN   | 15    | 109  | 1/1   | 0.99 | 0.03 | 43,43,43,43                 | 0     |
| 59  | ZN   | 16    | 103  | 1/1   | 0.99 | 0.03 | 42,42,42,42                 | 0     |
| 59  | ZN   | 19    | 102  | 1/1   | 0.99 | 0.04 | 46,46,46,46                 | 0     |
| 59  | ZN   | 1n    | 102  | 1/1   | 0.99 | 0.03 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3013 | 1/1   | 0.99 | 0.07 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3419 | 1/1   | 0.99 | 0.06 | 64,64,64,64                 | 0     |
| 59  | ZN   | 25    | 104  | 1/1   | 0.99 | 0.05 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3709 | 1/1   | 0.99 | 0.06 | 23,23,23,23                 | 0     |
| 57  | MG   | 13    | 101  | 1/1   | 0.99 | 0.05 | 32,32,32,32                 | 0     |
| 60  | SF4  | 1d    | 302  | 8/8   | 0.99 | 0.04 | 58,66,72,72                 | 0     |
| 57  | MG   | 1A    | 3926 | 1/1   | 0.99 | 0.04 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3742 | 1/1   | 1.00 | 0.06 | 37,37,37,37                 | 0     |
| 59  | ZN   | 26    | 501  | 1/1   | 1.00 | 0.03 | 60,60,60,60                 | 0     |

## 6.5 Other polymers [i](#)

There are no such residues in this entry.