



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 20, 2026 – 08:47 AM UTC

PDB ID : 6XHV / pdb\_00006xhv  
Title : Crystal structure of the A2058-dimethylated *Thermus thermophilus* 70S ribosome in complex with mRNA, aminoacylated A- and P-site tRNAs, and deacylated E-site tRNA at 2.40Å resolution  
Authors : Svetlov, M.S.; Syroegin, E.A.; Aleksandrova, E.V.; Atkinson, G.C.; Gregory, S.T.; Mankin, A.S.; Polikanov, Y.S.  
Deposited on : 2020-06-19  
Resolution : 2.40 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                           | : | 9.0.010 (Gargrove)                                               |
| Density-Fitness                | : | 1.0.12                                                           |
| Ideal geometry (proteins)      | : | Engh & Huber (2001)                                              |
| Ideal geometry (DNA, RNA)      | : | Parkinson et al. (1996)                                          |
| Validation Pipeline (wwPDB-VP) | : | 2.49                                                             |

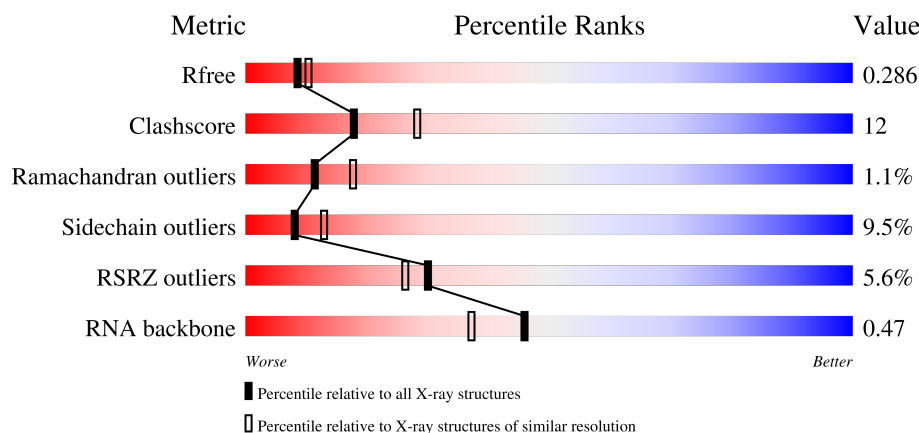
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.40 Å.

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



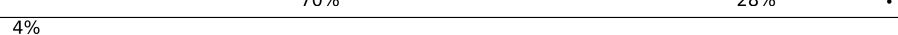
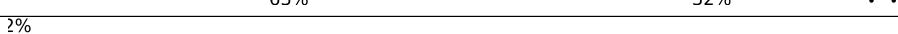
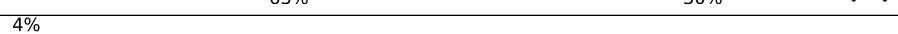
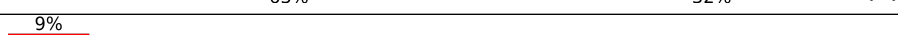
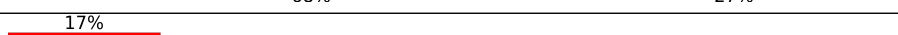
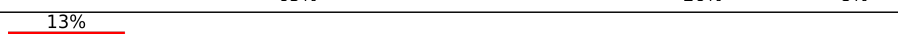
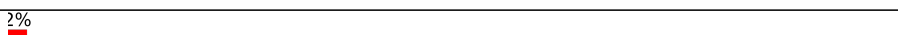
| Metric                | Whole archive<br>(#Entries) | Similar resolution<br>(#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|-------------------------------------------------------|
| $R_{free}$            | 180053                      | 4912 (2.40-2.40)                                      |
| Clashscore            | 190562                      | 5391 (2.40-2.40)                                      |
| Ramachandran outliers | 187476                      | 5320 (2.40-2.40)                                      |
| Sidechain outliers    | 187428                      | 5321 (2.40-2.40)                                      |
| RSRZ outliers         | 180081                      | 4916 (2.40-2.40)                                      |
| RNA backbone          | 3983                        | 1155 (2.70-2.10)                                      |

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>4%</div> <div>53% 36% 9%</div> </div> |
| 1   | 2A    | 2915   | <div> <div>5%</div> <div>47% 40% 9%</div> </div> |
| 2   | 1B    | 121    | <div> <div>66% 30%</div> </div>                  |

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| Mol | Chain | Length | Quality of chain                                                                     |
|-----|-------|--------|--------------------------------------------------------------------------------------|
| 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    |  |
| 14  | 2S    | 112    |  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 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     |                  |
| 27  | 15    | 60     |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 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    |                  |
| 39  | 2h    | 138    |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 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    |                  |
| 52  | 1u    | 27     |                  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 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 |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 56  | PSU  | 2y    | 55  | -         | -        | X       | -                |

## 2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 300906 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     |
|     |       |          | 61854 | 27533 | 11572 | 19878 | 2871 |         |         |       |
| 1   | 2A    | 2800     | Total | C     | N     | O     | P    | 0       | 0       | 0     |
|     |       |          | 60324 | 26850 | 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    | 203      | Total | C    | N   | O   | S | 0       | 0       | 1     |
|     |       |          | 1584  | 1009 | 298 | 275 | 2 |         |         |       |
| 5   | 2F    | 203      | Total | C    | N   | O   | S | 0       | 0       | 1     |
|     |       |          | 1580  | 1007 | 297 | 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 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 tRNA.

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

- Molecule 55 is a RNA chain called P-site tRNA.

| Mol | Chain | Residues | Atoms |     |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 55  | 1x    | 76       | Total | C   | N   | O   | P  | S       | 0       | 0     |
|     |       |          | 1635  | 731 | 296 | 530 | 76 | 2       |         |       |
| 55  | 2x    | 76       | Total | C   | N   | O   | P  | S       | 0       | 0     |
|     |       |          | 1635  | 731 | 296 | 530 | 76 | 2       |         |       |

- Molecule 56 is a RNA chain called E-site tRNA.

| Mol | Chain | Residues | Atoms |     |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 56  | 1y    | 74       | Total | C   | N   | O   | P  | S       | 0       | 0     |
|     |       |          | 1585  | 707 | 285 | 518 | 74 | 1       |         |       |
| 56  | 2y    | 73       | Total | C   | N   | O   | P  | S       | 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    | 1121     | Total | Mg   | 0       | 0       |
|     |       |          | 1121  | 1121 |         |         |
| 57  | 1B    | 34       | Total | Mg   | 0       | 0       |
|     |       |          | 34    | 34   |         |         |
| 57  | 1D    | 12       | Total | Mg   | 0       | 0       |
|     |       |          | 12    | 12   |         |         |
| 57  | 1E    | 13       | Total | Mg   | 0       | 0       |
|     |       |          | 13    | 13   |         |         |
| 57  | 1F    | 11       | Total | Mg   | 0       | 0       |
|     |       |          | 11    | 11   |         |         |

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| Mol | Chain | Residues | Atoms      |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 57  | 1G    | 5        | Total<br>5 | Mg<br>5 | 0       | 0       |
| 57  | 1I    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 1N    | 5        | Total<br>5 | Mg<br>5 | 0       | 0       |
| 57  | 1O    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 1P    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 1Q    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |
| 57  | 1R    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 1S    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 1T    | 4        | Total<br>4 | Mg<br>4 | 0       | 0       |
| 57  | 1U    | 9        | Total<br>9 | Mg<br>9 | 0       | 0       |
| 57  | 1V    | 9        | Total<br>9 | Mg<br>9 | 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    | 3        | Total<br>3 | Mg<br>3 | 0       | 0       |
| 57  | 1Z    | 2        | Total<br>2 | Mg<br>2 | 0       | 0       |
| 57  | 10    | 9        | Total<br>9 | Mg<br>9 | 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    | 5        | Total<br>5 | Mg<br>5 | 0       | 0       |
| 57  | 14    | 1        | Total<br>1 | Mg<br>1 | 0       | 0       |
| 57  | 15    | 7        | Total<br>7 | Mg<br>7 | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 57  | 16    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 17    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |
| 57  | 18    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |
| 57  | 19    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 1a    | 219      | Total<br>219 | Mg<br>219 | 0       | 0       |
| 57  | 1b    | 2        | Total<br>2   | Mg<br>2   | 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    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 1n    | 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    | 10       | Total<br>10  | Mg<br>10  | 0       | 0       |
| 57  | 1x    | 15       | Total<br>15  | Mg<br>15  | 0       | 0       |
| 57  | 1y    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 57  | 2A    | 890      | Total<br>890 | Mg<br>890 | 0       | 0       |
| 57  | 2B    | 20       | Total<br>20  | Mg<br>20  | 0       | 0       |
| 57  | 2D    | 7        | Total<br>7   | Mg<br>7   | 0       | 0       |
| 57  | 2E    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 57  | 2F    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |
| 57  | 2G    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 2N    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 2O    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 2P    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 2Q    | 5        | Total<br>5   | Mg<br>5   | 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    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 2V    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 57  | 2W    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 57  | 2X    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 57  | 2Z    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 20    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 21    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 23    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 57  | 25    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |
| 57  | 26    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 27    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 57  | 28    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 57  | 2a    | 238      | Total<br>238 | Mg<br>238 | 0       | 0       |

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| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 57  | 2d    | 2        | Total | Mg | 0       | 0       |
|     |       |          | 2     | 2  |         |         |
| 57  | 2e    | 1        | Total | Mg | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 57  | 2f    | 2        | Total | Mg | 0       | 0       |
|     |       |          | 2     | 2  |         |         |
| 57  | 2g    | 1        | Total | Mg | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 57  | 2j    | 2        | Total | Mg | 0       | 0       |
|     |       |          | 2     | 2  |         |         |
| 57  | 2l    | 3        | Total | Mg | 0       | 0       |
|     |       |          | 3     | 3  |         |         |
| 57  | 2q    | 3        | Total | Mg | 0       | 0       |
|     |       |          | 3     | 3  |         |         |
| 57  | 2r    | 1        | Total | Mg | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 57  | 2t    | 1        | Total | Mg | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 57  | 2v    | 4        | Total | Mg | 0       | 0       |
|     |       |          | 4     | 4  |         |         |
| 57  | 2w    | 9        | Total | Mg | 0       | 0       |
|     |       |          | 9     | 9  |         |         |
| 57  | 2x    | 5        | Total | Mg | 0       | 0       |
|     |       |          | 5     | 5  |         |         |
| 57  | 2y    | 6        | Total | Mg | 0       | 0       |
|     |       |          | 6     | 6  |         |         |

- 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).

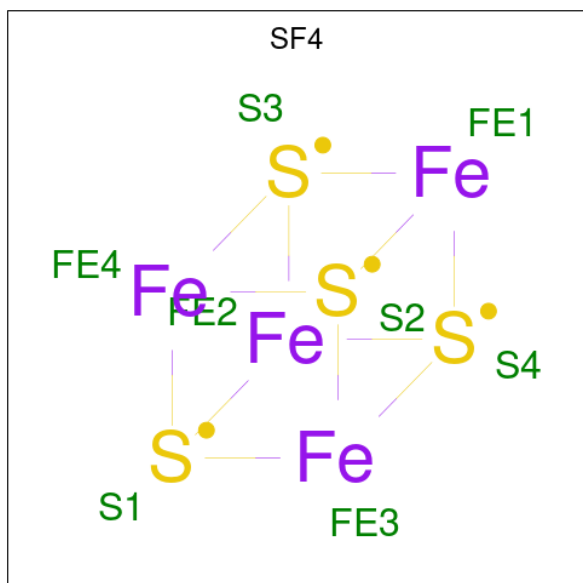
| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 59  | 1Y    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 59  | 14    | 1        | Total | Zn | 0       | 0       |
|     |       |          | 1     | 1  |         |         |

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| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 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:  $\text{Fe}_4\text{S}_4$ ).



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

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

- Molecule 61 is water.

| Mol | Chain | Residues | Atoms |      | ZeroOcc | AltConf |
|-----|-------|----------|-------|------|---------|---------|
| 61  | 1A    | 2266     | Total | O    | 0       | 0       |
|     |       |          | 2266  | 2266 |         |         |
| 61  | 1B    | 69       | Total | O    | 0       | 0       |
|     |       |          | 69    | 69   |         |         |
| 61  | 1D    | 25       | Total | O    | 0       | 0       |
|     |       |          | 25    | 25   |         |         |
| 61  | 1E    | 26       | Total | O    | 0       | 0       |
|     |       |          | 26    | 26   |         |         |
| 61  | 1F    | 19       | Total | O    | 0       | 0       |
|     |       |          | 19    | 19   |         |         |
| 61  | 1G    | 7        | Total | O    | 0       | 0       |
|     |       |          | 7     | 7    |         |         |
| 61  | 1H    | 2        | Total | O    | 0       | 0       |
|     |       |          | 2     | 2    |         |         |
| 61  | 1N    | 7        | Total | O    | 0       | 0       |
|     |       |          | 7     | 7    |         |         |
| 61  | 1O    | 6        | Total | O    | 0       | 0       |
|     |       |          | 6     | 6    |         |         |
| 61  | 1P    | 24       | Total | O    | 0       | 0       |
|     |       |          | 24    | 24   |         |         |
| 61  | 1Q    | 9        | Total | O    | 0       | 0       |
|     |       |          | 9     | 9    |         |         |
| 61  | 1R    | 15       | Total | O    | 0       | 0       |
|     |       |          | 15    | 15   |         |         |
| 61  | 1S    | 6        | Total | O    | 0       | 0       |
|     |       |          | 6     | 6    |         |         |
| 61  | 1T    | 8        | Total | O    | 0       | 0       |
|     |       |          | 8     | 8    |         |         |
| 61  | 1U    | 9        | Total | O    | 0       | 0       |
|     |       |          | 9     | 9    |         |         |
| 61  | 1V    | 8        | Total | O    | 0       | 0       |
|     |       |          | 8     | 8    |         |         |
| 61  | 1W    | 6        | Total | O    | 0       | 0       |
|     |       |          | 6     | 6    |         |         |
| 61  | 1X    | 8        | Total | O    | 0       | 0       |
|     |       |          | 8     | 8    |         |         |

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| Mol | Chain | Residues | Atoms        |          | ZeroOcc | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|
| 61  | 1Y    | 4        | Total<br>4   | O<br>4   | 0       | 0       |
| 61  | 1Z    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 10    | 14       | Total<br>14  | O<br>14  | 0       | 0       |
| 61  | 11    | 11       | Total<br>11  | O<br>11  | 0       | 0       |
| 61  | 12    | 4        | Total<br>4   | O<br>4   | 0       | 0       |
| 61  | 13    | 6        | Total<br>6   | O<br>6   | 0       | 0       |
| 61  | 14    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 15    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 16    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 17    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 18    | 9        | Total<br>9   | O<br>9   | 0       | 0       |
| 61  | 19    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 1a    | 410      | Total<br>410 | O<br>410 | 0       | 0       |
| 61  | 1b    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 1d    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 1e    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 1i    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 1l    | 7        | Total<br>7   | O<br>7   | 0       | 0       |
| 61  | 1m    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 1o    | 2        | Total<br>2   | O<br>2   | 0       | 0       |
| 61  | 1p    | 1        | Total<br>1   | O<br>1   | 0       | 0       |

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| Mol | Chain | Residues | Atoms         |           | ZeroOcc | AltConf |
|-----|-------|----------|---------------|-----------|---------|---------|
| 61  | 1q    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 1u    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 1v    | 6        | Total<br>6    | O<br>6    | 0       | 0       |
| 61  | 1w    | 21       | Total<br>21   | O<br>21   | 0       | 0       |
| 61  | 1x    | 15       | Total<br>15   | O<br>15   | 0       | 0       |
| 61  | 1y    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 2A    | 1381     | Total<br>1381 | O<br>1381 | 0       | 0       |
| 61  | 2B    | 24       | Total<br>24   | O<br>24   | 0       | 0       |
| 61  | 2D    | 25       | Total<br>25   | O<br>25   | 0       | 0       |
| 61  | 2E    | 16       | Total<br>16   | O<br>16   | 0       | 0       |
| 61  | 2F    | 13       | Total<br>13   | O<br>13   | 0       | 0       |
| 61  | 2I    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 2N    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 2O    | 2        | Total<br>2    | O<br>2    | 0       | 0       |
| 61  | 2P    | 16       | Total<br>16   | O<br>16   | 0       | 0       |
| 61  | 2Q    | 3        | Total<br>3    | O<br>3    | 0       | 0       |
| 61  | 2R    | 3        | Total<br>3    | O<br>3    | 0       | 0       |
| 61  | 2T    | 4        | Total<br>4    | O<br>4    | 0       | 0       |
| 61  | 2U    | 4        | Total<br>4    | O<br>4    | 0       | 0       |
| 61  | 2V    | 1        | Total<br>1    | O<br>1    | 0       | 0       |
| 61  | 2W    | 3        | Total<br>3    | O<br>3    | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |          | ZeroOcc | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|
| 61  | 2X    | 5        | Total<br>5   | O<br>5   | 0       | 0       |
| 61  | 2Y    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 2Z    | 2        | Total<br>2   | O<br>2   | 0       | 0       |
| 61  | 20    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 21    | 12       | Total<br>12  | O<br>12  | 0       | 0       |
| 61  | 22    | 2        | Total<br>2   | O<br>2   | 0       | 0       |
| 61  | 23    | 2        | Total<br>2   | O<br>2   | 0       | 0       |
| 61  | 25    | 6        | Total<br>6   | O<br>6   | 0       | 0       |
| 61  | 27    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 28    | 6        | Total<br>6   | O<br>6   | 0       | 0       |
| 61  | 29    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 2a    | 366      | Total<br>366 | O<br>366 | 0       | 0       |
| 61  | 2d    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 2e    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 2g    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 2i    | 1        | Total<br>1   | O<br>1   | 0       | 0       |
| 61  | 2j    | 4        | Total<br>4   | O<br>4   | 0       | 0       |
| 61  | 2l    | 6        | Total<br>6   | O<br>6   | 0       | 0       |
| 61  | 2o    | 2        | Total<br>2   | O<br>2   | 0       | 0       |
| 61  | 2p    | 3        | Total<br>3   | O<br>3   | 0       | 0       |
| 61  | 2q    | 1        | Total<br>1   | O<br>1   | 0       | 0       |

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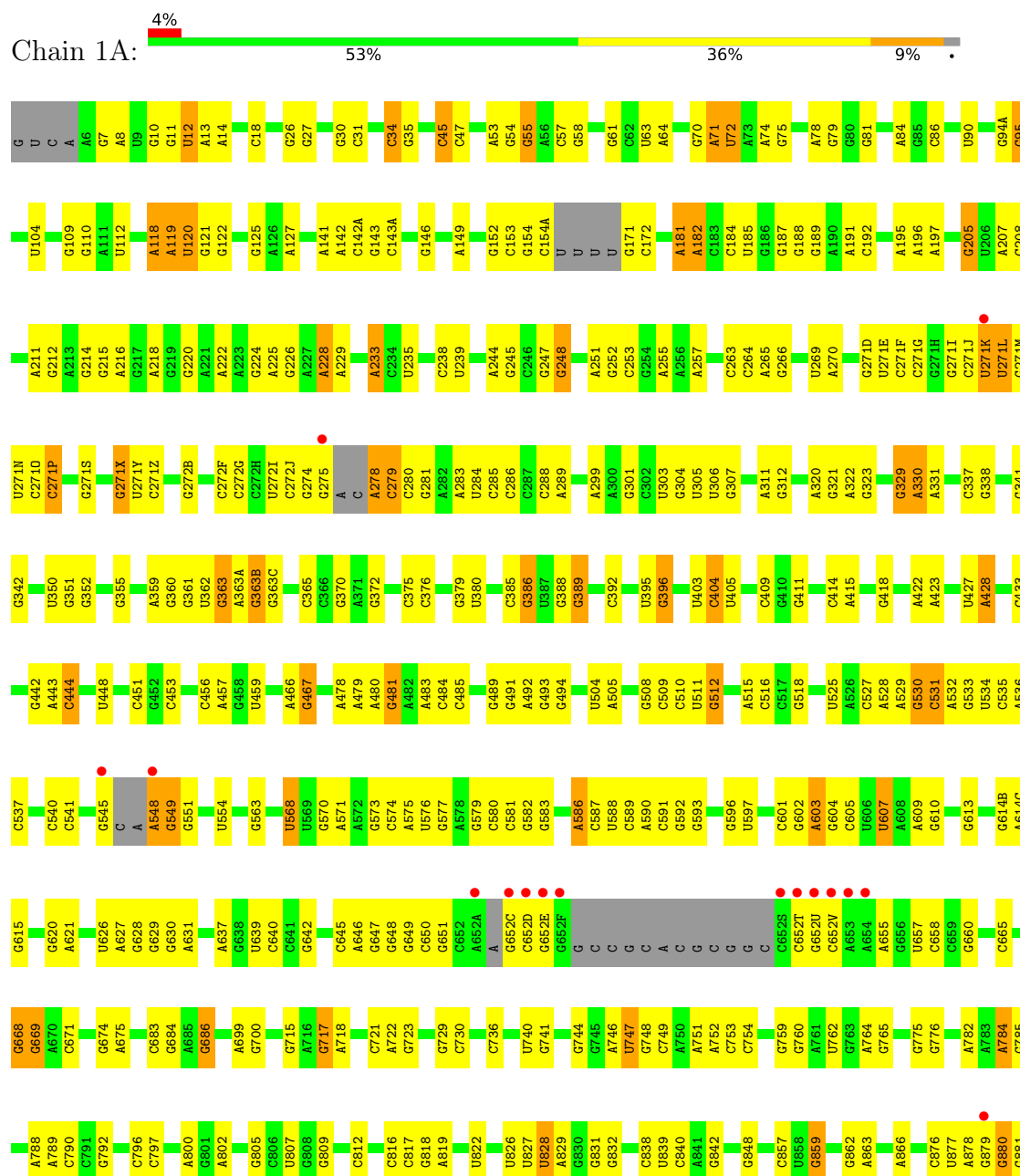
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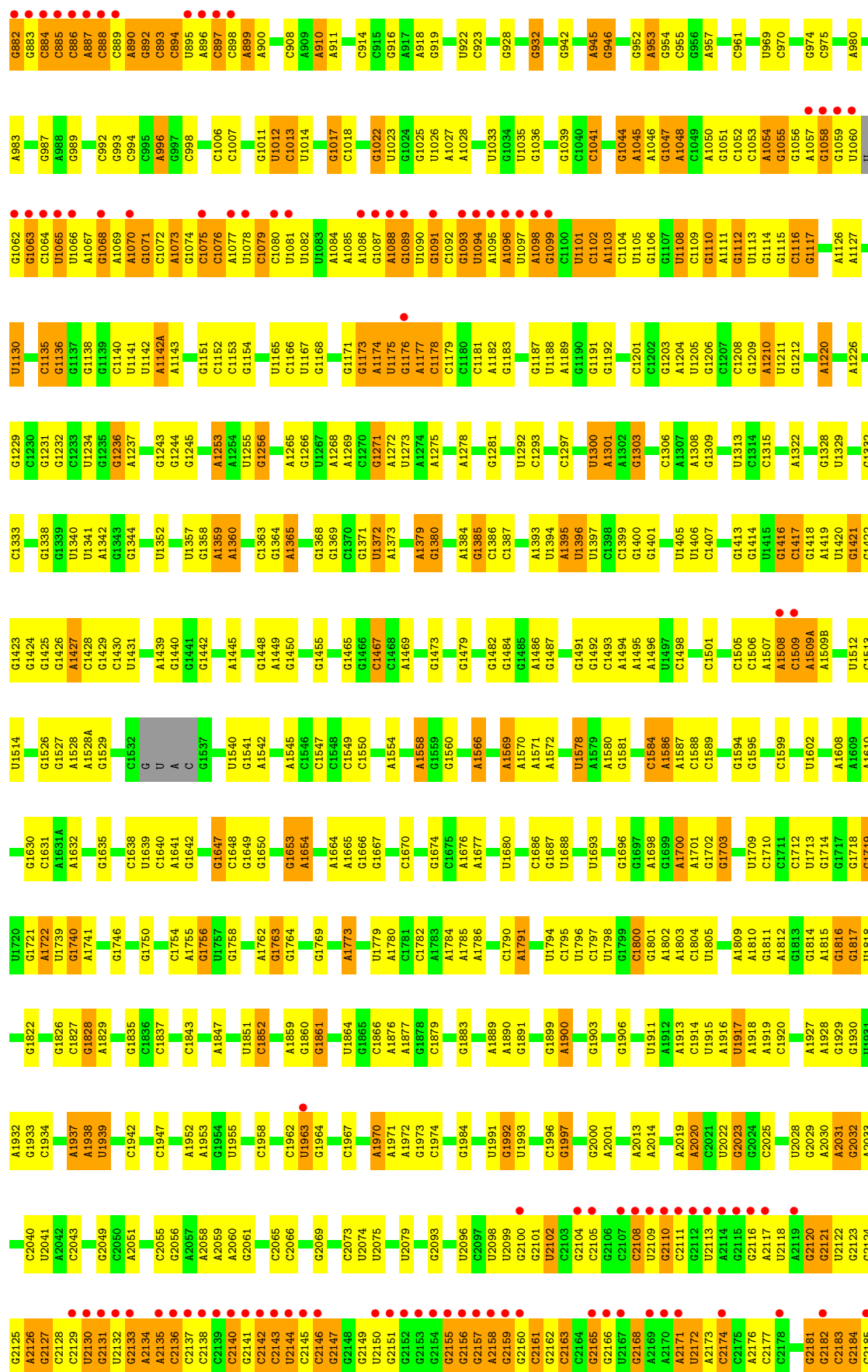
| Mol | Chain | Residues | Atoms |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 61  | 2r    | 1        | Total | O  | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 61  | 2t    | 3        | Total | O  | 0       | 0       |
|     |       |          | 3     | 3  |         |         |
| 61  | 2v    | 2        | Total | O  | 0       | 0       |
|     |       |          | 2     | 2  |         |         |
| 61  | 2w    | 1        | Total | O  | 0       | 0       |
|     |       |          | 1     | 1  |         |         |
| 61  | 2x    | 9        | Total | O  | 0       | 0       |
|     |       |          | 9     | 9  |         |         |
| 61  | 2y    | 20       | Total | O  | 0       | 0       |
|     |       |          | 20    | 20 |         |         |

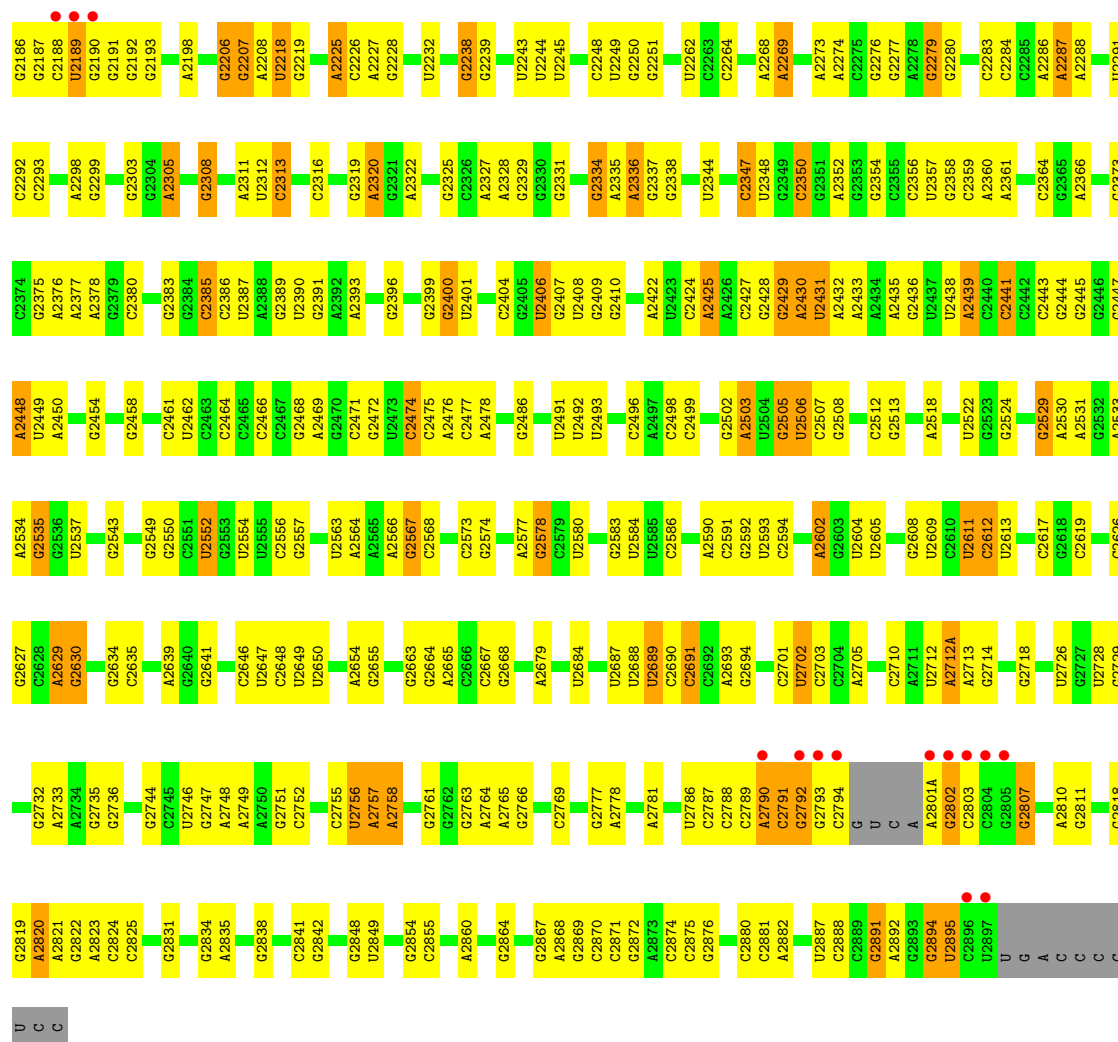
### 3 Residue-property plots

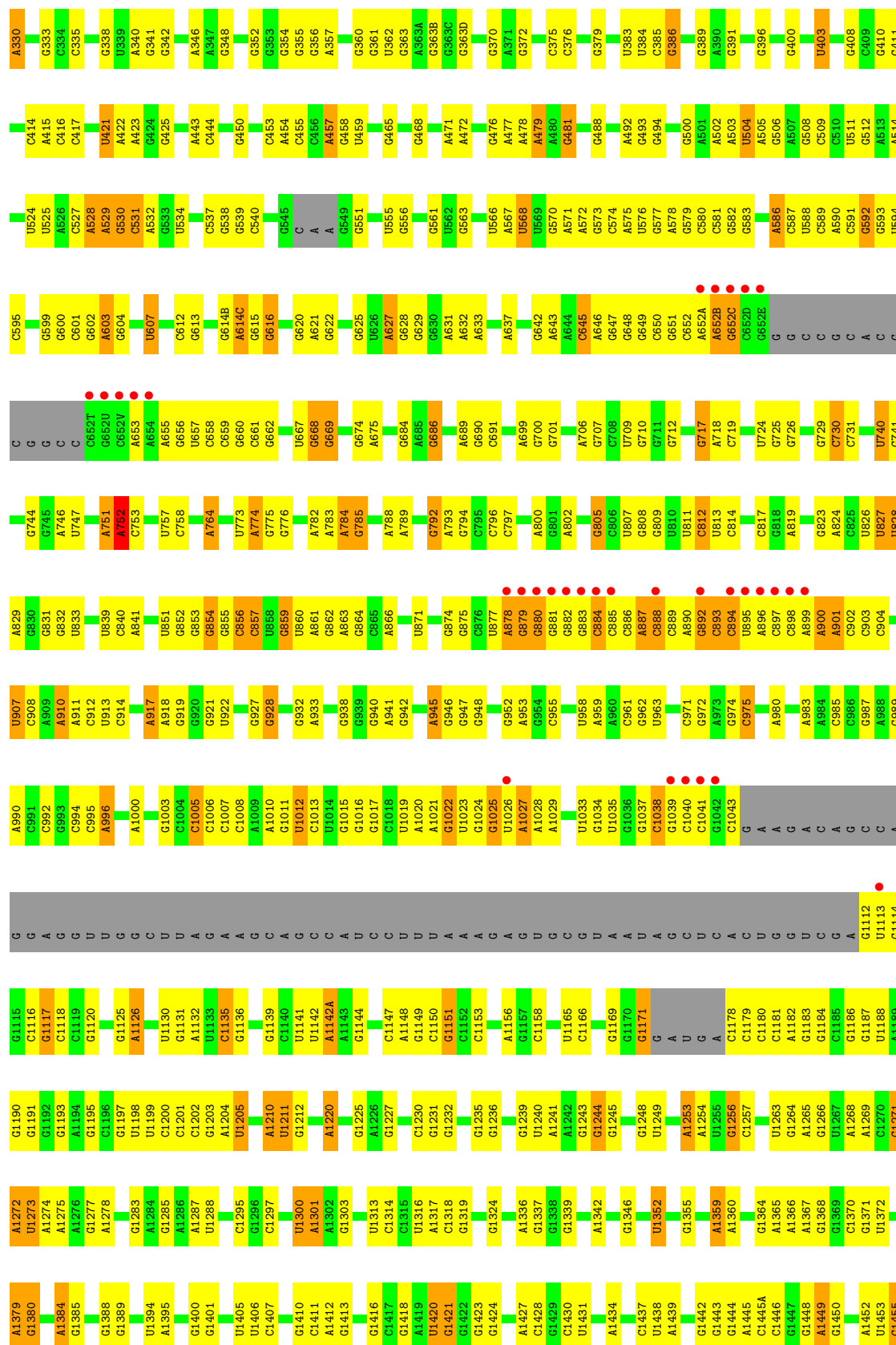
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

#### • Molecule 1: 23S Ribosomal RNA

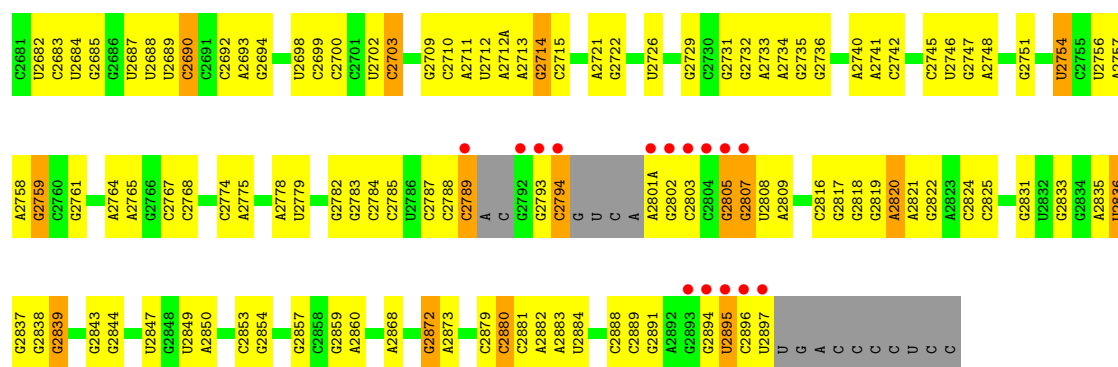




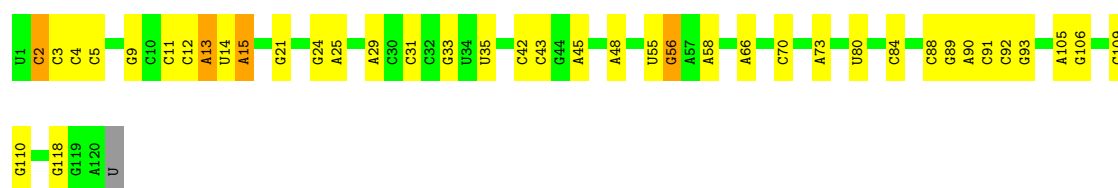




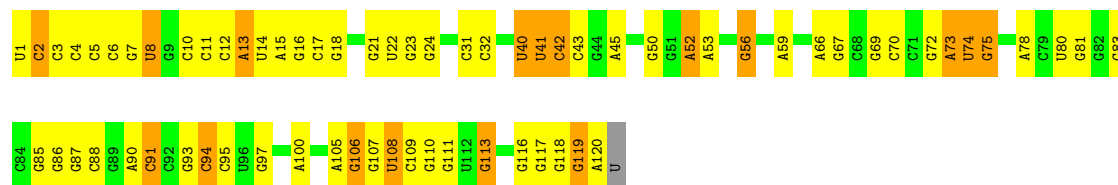
|       |       |       |       |       |       |       |       |       |        |        |        |        |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| G2592 | G2512 | A2435 | G2354 | A2267 | G2185 | C2105 | A2033 | U1931 | G1747A | A1641  | G1541  | G1460  |
| U2593 | G2513 | U2438 | G2355 | A2268 | G2166 | G2106 | U2034 | A1932 | G1748  | G1642  | A1542  | G1461  |
| A2600 | G2516 | U2439 | G2356 | A2269 | U2167 | C2107 | G2035 | G1933 | C1752  | G1645  | C1543  | C1462  |
| A2601 | G2517 | A2440 | U2357 | A2270 | U2168 | U2108 | C2036 | A1934 | G1753  | G1646  | A1544  | C1463  |
| A2602 | G2518 | C2441 | G2358 | G2271 | U2169 | U2109 | G2037 | A1935 | G1754  | G1647  | A1545  | G1464  |
| G2603 | A2519 | C2442 | G2359 | U2272 | A2171 | C2111 | G2038 | A1936 | G1755  | G1648  | C1546  | G1465  |
| U2604 | G2520 | G2447 | G2360 | A2273 | U2172 | C2112 | C2040 | U1937 | U1756  | G1649  | C1547  | G1466  |
| U2605 | G2521 | A2448 | G2361 | A2274 | A2173 | U2113 | U2041 | U1938 | G1650  | G1651  | C1557  | C1467  |
| C2606 | G2526 | G2451 | A2369 | G2275 | C2174 | A2114 | C2042 | C1942 | G1758  | A1652  | A1558  |        |
| U2609 | U2527 | G2454 | G2370 | A2277 | A2176 | G2115 | C2043 | C1943 | A1759  | G1653  | A1559  | A1471  |
| G2610 | G2528 | G2454 | G2371 | A2278 | C2177 | U2116 | G2046 | A1952 | A1762  | G1654  | A1566  | C1474  |
| U2611 | G2529 | G2454 | G2372 | G2282 | C2178 | U2118 | G2049 | G1953 | G1763  | G1657  | A1569  |        |
| U2612 | A2530 | A2459 | G2373 | G2283 | G2181 | A2119 | C2050 | U1955 | G1764  | C1658  | A1578  | G1477  |
| U2613 | A2531 | U2460 | G2374 | A2284 | C2182 | G2120 | A2051 | C1958 | U1768  | C1659  | U1578  | G1478  |
| C2614 | A2532 | A2461 | A2376 | A2285 | G2183 | U2121 | G2052 | A1847 | A1665  | G1675  | G1579  | G1479  |
| U2615 | A2533 | U2462 | A2377 | A2286 | C2184 | U2122 | A2053 | A1848 | A1666  | C1676  | A1580  | U1481  |
| C2616 | U2537 | C2463 | A2378 | A2287 | G2185 | G2123 | G2054 | C1962 | G1667  | G1687  | G1581  | G1482  |
| U2617 | C2538 | G2464 | C2379 | G2288 | C2186 | G2124 | A2055 | U1963 | A1773  | A1688  | C1582  |        |
|       | G2539 | C2465 | C2380 | U2291 | G2187 | G2125 | C2056 | C1967 | U1777  | A1669  | A1583  | G1487  |
| A2629 | C2540 | C2466 | G2381 | C2292 | C2188 | G2126 | A2057 | A1852 | U1778  | C1670  | C1584  | G1488  |
| G2630 | A2541 | G2467 | G2382 | A2298 | U2189 | C2128 | G2058 | A1970 | U1779  | U1671  | A1586  | U1489  |
| G2631 | A2542 | G2468 | G2383 | G2299 | G2190 | U2129 | A2059 | A1971 | A1780  | G1674  | A1496  | A1490  |
|       | G2543 | A2469 | G2384 | G2300 | C2191 | C2130 | A2060 | A1972 | C1781  | G1675  | G1492  | G1491  |
| G2634 | G2544 | G2470 | C2385 | G2301 | G2192 | U2132 | G2062 | G1973 | A1782  | C1676  | C1591  | G1493  |
| G2635 |       | G2471 | G2386 | A2305 | A2198 | G2133 | C2063 | C1983 | A1783  | G1686  | C1592  | G1494  |
| A2639 | G2549 | G2472 | G2387 | G2306 | G2199 | A2134 | C2064 | G1984 | A1784  | G1687  | G1593  | A1495  |
| G2640 | U2550 | A2475 | G2388 | G2307 | U2203 | C2135 | U2068 | U1991 | A1785  | A1688  | C1598  | A1496  |
| G2641 | C2551 | A2476 | G2389 | G2308 | G2205 | A2136 | G2069 | G1992 | A1786  | A1689  | C1600  | U1497  |
| G2645 | G2552 | G2477 | G2390 | G2309 | G2206 | C2137 | U2070 | G1993 | U1789  | U1693  | C1599  | G1498  |
| C2646 | U2553 | A2478 | G2391 | G2310 | G2207 | U2138 | A2071 | A1889 | A1791  | A1603  | C1499  | G1500  |
| U2647 | U2554 | G2479 | C2403 | G2311 | A2208 | C2139 |       | A1890 | G1792  | G1607  | A1507  | A1508  |
|       | G2555 | G2480 | U2406 | G2312 | U2218 | G2140 | U2074 | G1996 | G1793  | A1608  | C1509  | A1509A |
| G2651 | G2556 | G2481 | G2410 | G2313 | G2219 | C2141 | U2075 | G1997 | U1794  | A1609  | A1509A |        |
|       | C2557 | G2482 | A2411 | G2314 | G2220 | C2142 | U2076 | G1998 | C1795  | A1610  | U1514  | G1515  |
| G2654 | C2558 | G2483 | A2412 | G2315 | U2232 | U2144 | U2079 | C1999 | U1796  | G1622  | G1517  | G1516  |
| G2658 | G2559 | G2484 | A2413 | G2316 | U2233 | C2145 | G2080 | G2000 | U1797  | G1623  | U1518  | G1519  |
| A2660 | A2561 | G2485 | G2414 | G2317 | G2234 | C2146 | C2081 | A2001 | C1798  | G1624  | G1519  |        |
| G2661 | G2564 | A2488 | G2415 | G2318 | U2235 | G2147 | A2082 | G2002 | G1799  | G1625  | G1520  | G1528  |
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| G2663 | G2566 | U2491 | G2420 | G2320 | G2237 | G2149 | G2084 | U2011 | G1801  | G1630  | A1529  | G1530  |
| G2664 | G2567 | U2492 | A2421 | G2321 | U2238 | U2150 | U2086 | G2012 | G1802  | A1631A | C1530  | C1531  |
| A2665 | C2568 | U2493 | G2422 | G2322 | U2239 | G2151 | G2087 | A2013 | A1803  | A1632  | C1531  | C1532  |
|       | G2569 | G2495 | G2423 | G2323 | U2240 | G2152 |       | A2014 | G1804  | G1633  | C1532  | C1533  |
|       | U2573 | C2496 | A2424 | G2324 | A2247 | G2153 | G2093 | U2017 | U1805  | A1634  | G1533  | G1533  |
| G2669 | G2574 | A2497 | A2425 | G2325 | G2248 | G2154 | G2094 | U2018 | A1809  | U1637  | U1638  | A      |
|       | C2575 | C2498 | A2426 | G2326 | G2249 | G2155 | C2095 | G2019 | G1721  | A1637  | C1639  | C1636  |
| G2673 | G2576 | U2499 | G2427 | G2327 | G2250 | G2156 | C2096 | A2019 | A1722  | U1639  | U1640  | U1540  |
| G2674 | A2577 | G2502 | U2428 | G2328 | G2251 | G2157 | U2097 | A1919 | A1723  |        |        |        |
| A2675 | G2578 | U2503 | G2429 | G2329 | G2252 | A2158 | U2098 | A1919 | U1739  |        |        |        |
| G2676 | C2579 | A2504 | A2430 | G2330 | G2253 | G2159 | U2099 | C2021 | G1811  |        |        |        |
| G2677 | G2582 | U2505 | U2431 | G2331 | G2254 | G2160 | G2100 | U2022 | G1812  |        |        |        |
| G2678 | U2583 | G2506 | A2432 | G2332 | C2258 | G2161 | G2101 | G2023 | G1813  |        |        |        |
| A2679 | G2584 | U2507 | A2433 | G2333 | G2259 | G2162 | U2102 | A2030 | A1815  |        |        |        |
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• Molecule 2: 5S Ribosomal RNA



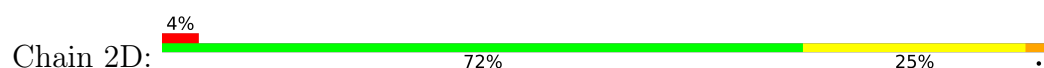
• Molecule 2: 5S Ribosomal RNA

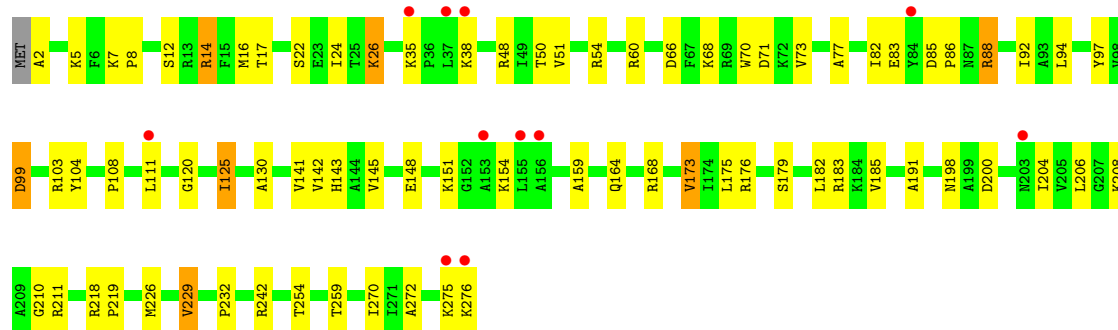


• Molecule 3: 50S ribosomal protein L2



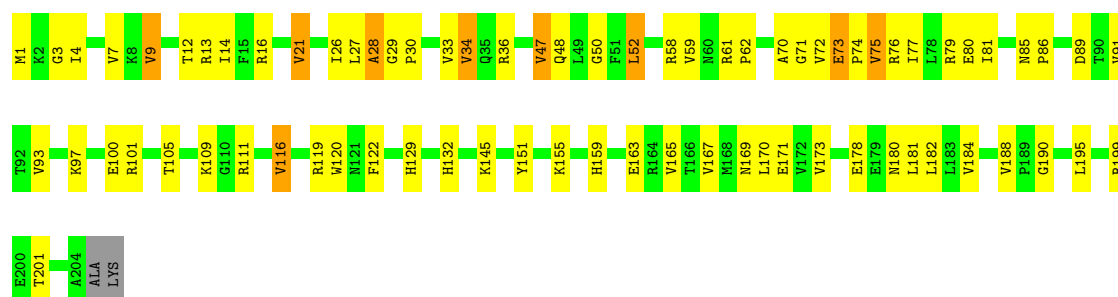
• Molecule 3: 50S ribosomal protein L2





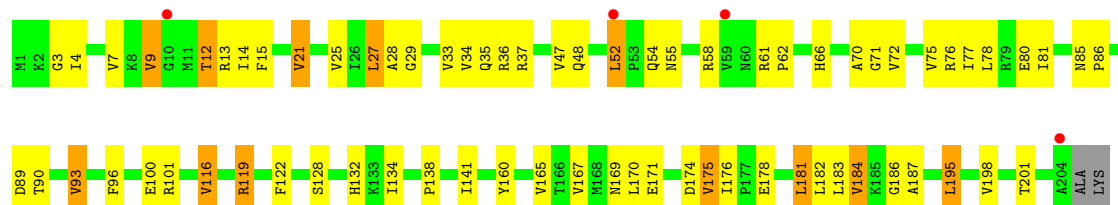
• Molecule 4: 50S ribosomal protein L3

Chain 1E: 63% 32% . .



• Molecule 4: 50S ribosomal protein L3

Chain 2E: 65% 29% 6% .

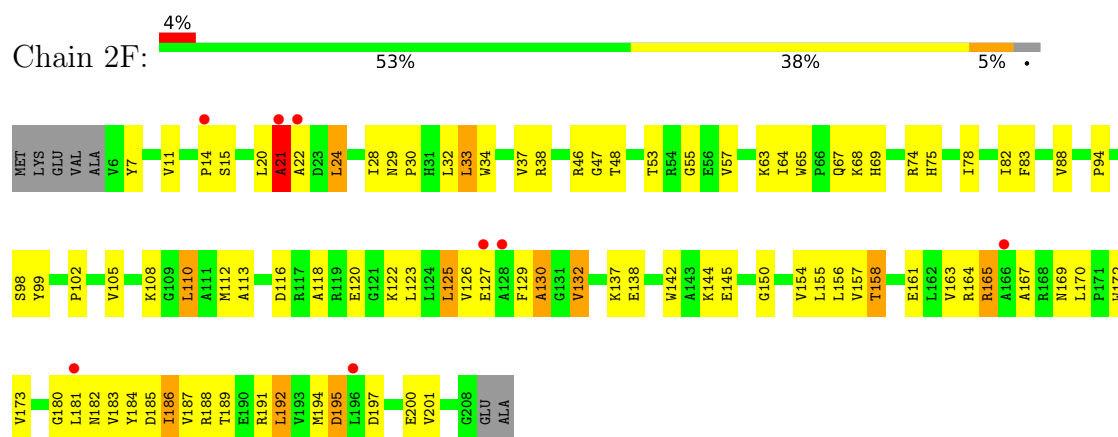


• Molecule 5: 50S ribosomal protein L4

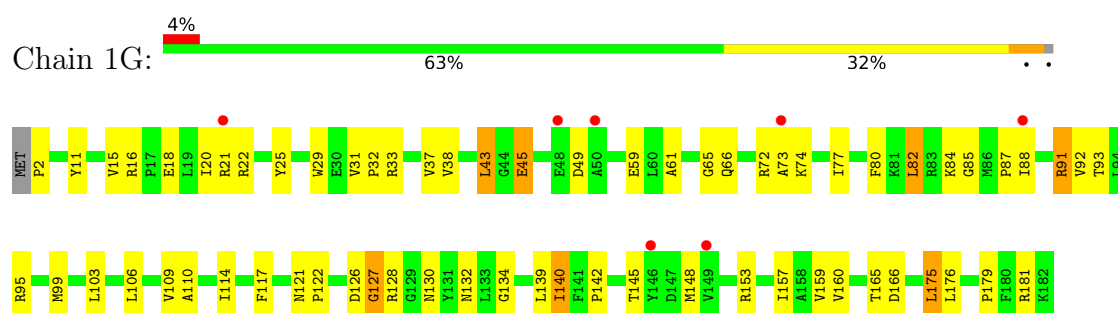
Chain 1F: 63% 30% . .



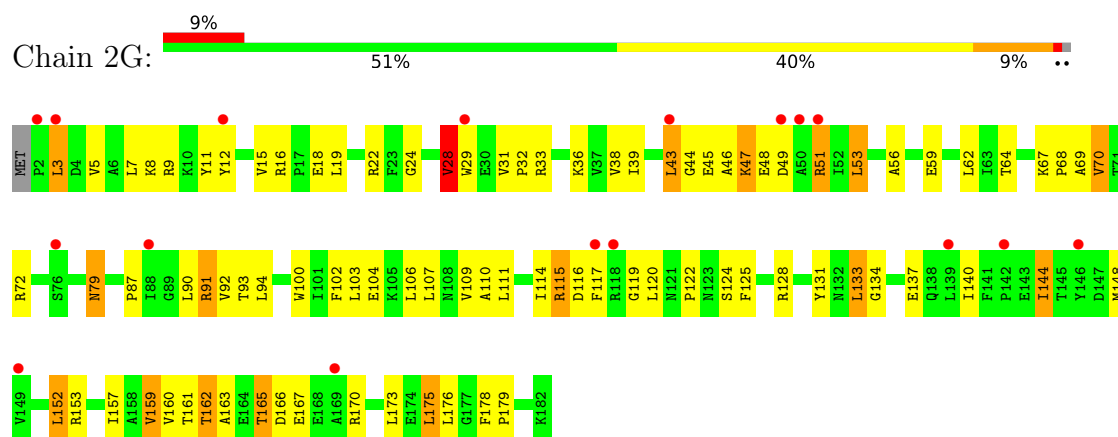
• Molecule 5: 50S ribosomal protein L4



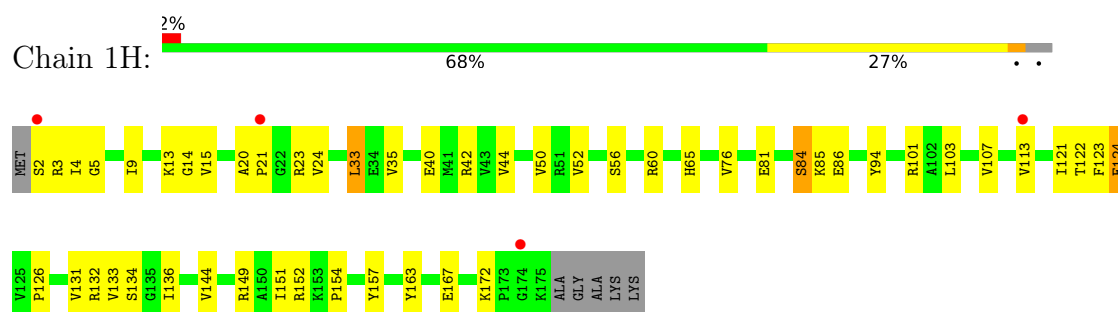
- Molecule 6: 50S ribosomal protein L5



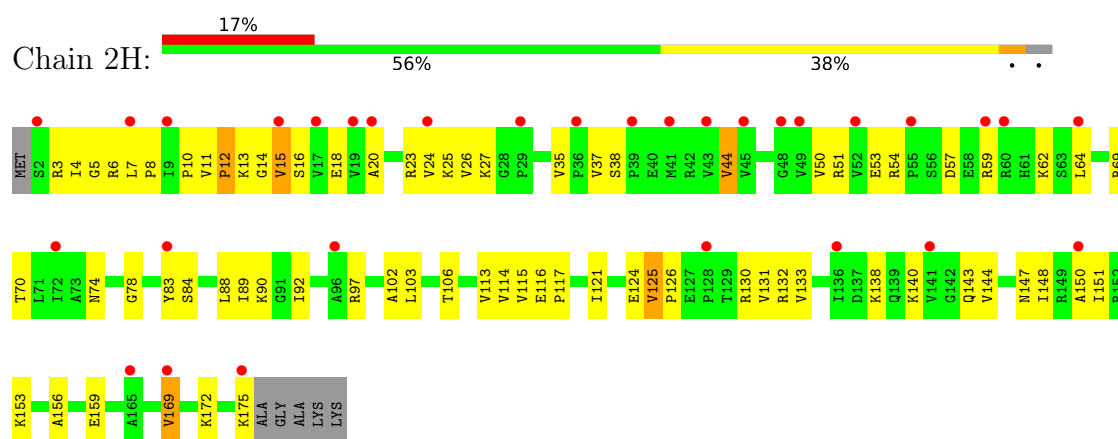
- Molecule 6: 50S ribosomal protein L5



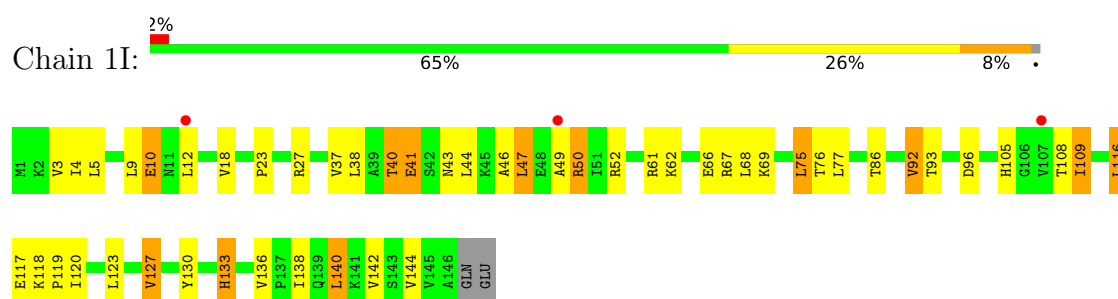
- Molecule 7: 50S ribosomal protein L6



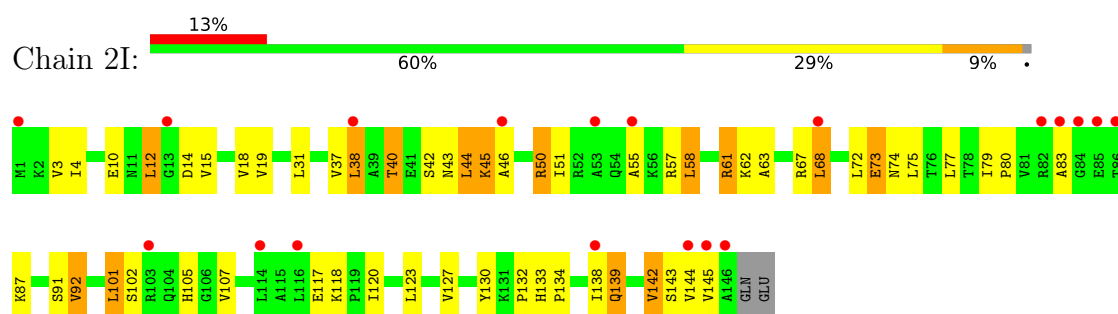
- Molecule 7: 50S ribosomal protein L6



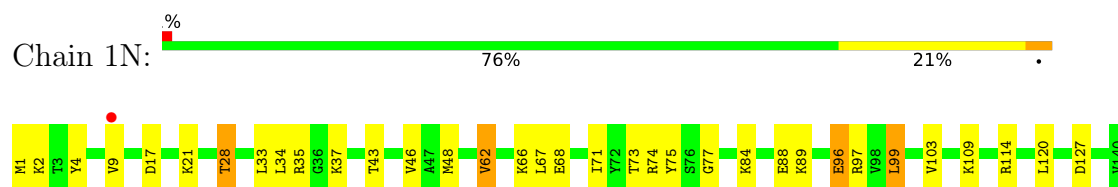
• Molecule 8: 50S ribosomal protein L9



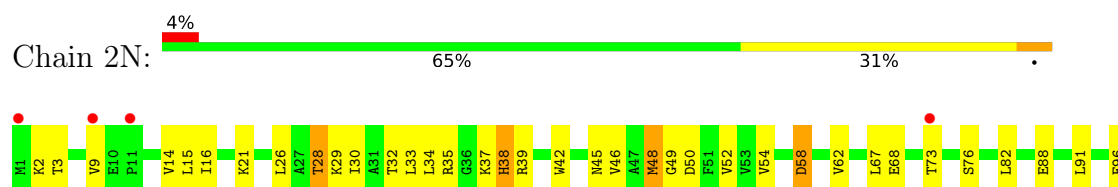
• Molecule 8: 50S ribosomal protein L9



• Molecule 9: 50S ribosomal protein L13

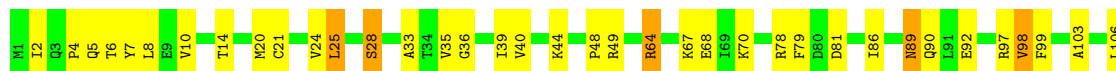


• Molecule 9: 50S ribosomal protein L13

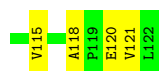




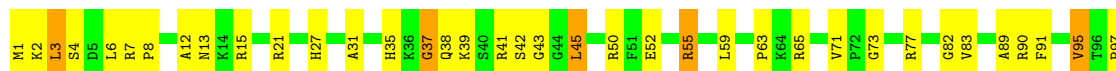
- Molecule 10: 50S ribosomal protein L14



- Molecule 10: 50S ribosomal protein L14



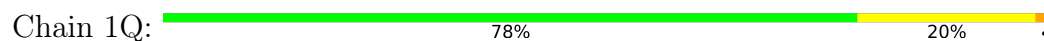
- Molecule 11: 50S ribosomal protein L15

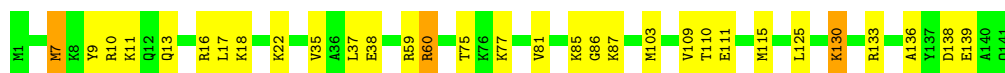


- Molecule 11: 50S ribosomal protein L15

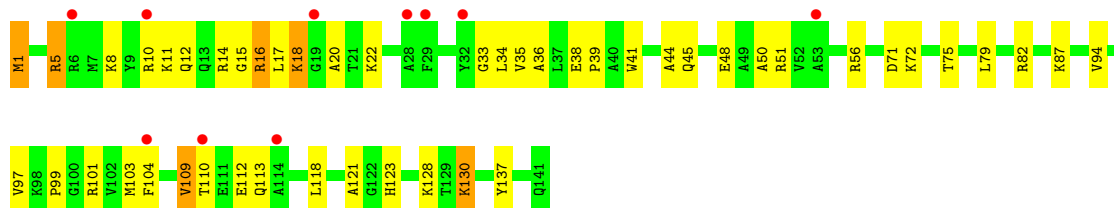


- Molecule 12: 50S ribosomal protein L16

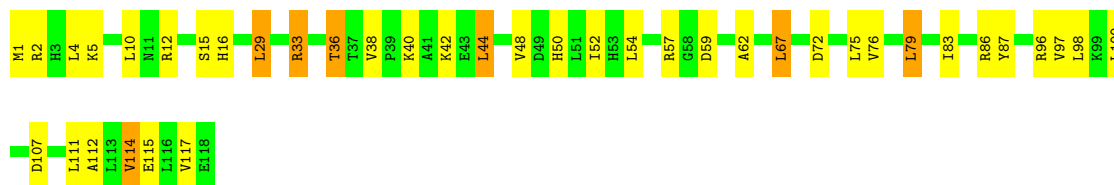




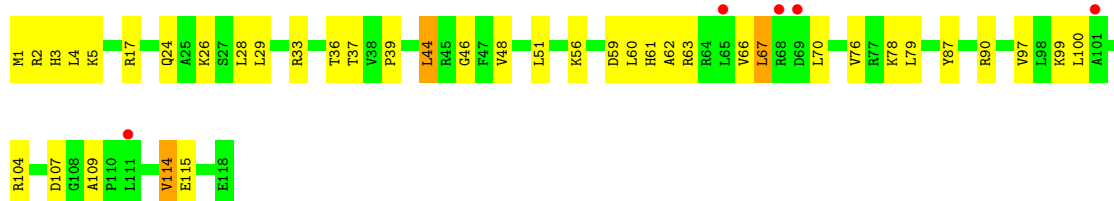
- Molecule 12: 50S ribosomal protein L16



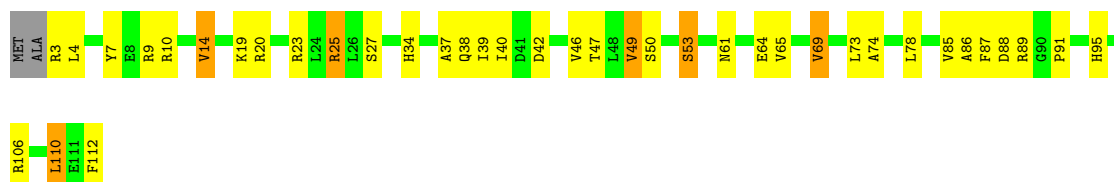
- Molecule 13: 50S ribosomal protein L17



- Molecule 13: 50S ribosomal protein L17

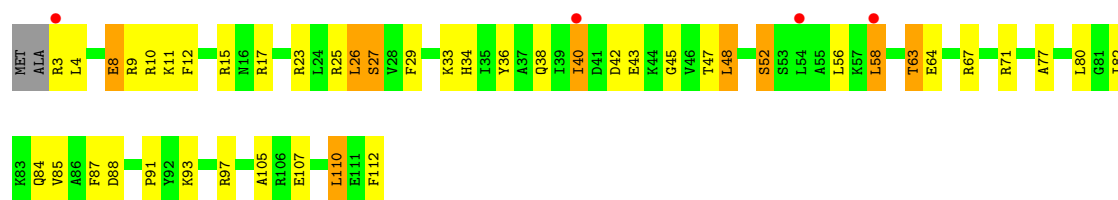


- Molecule 14: 50S ribosomal protein L18

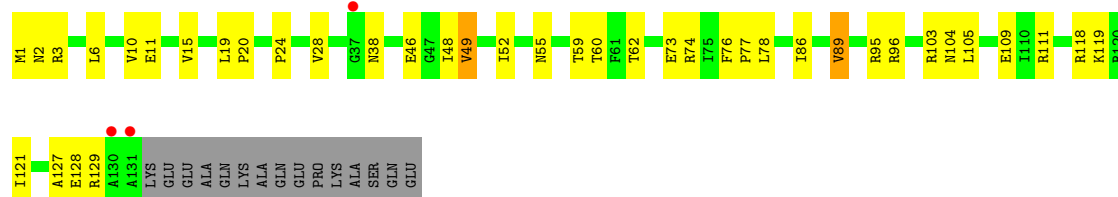


- Molecule 14: 50S ribosomal protein L18

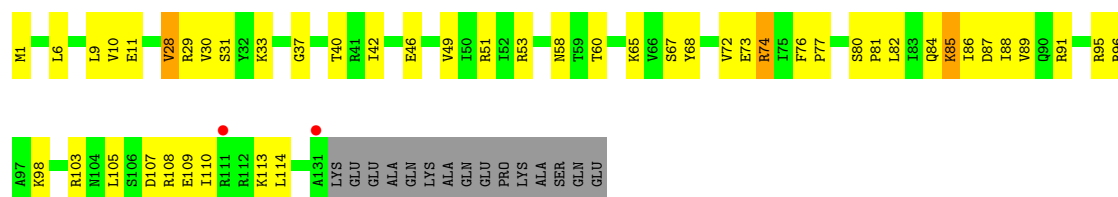




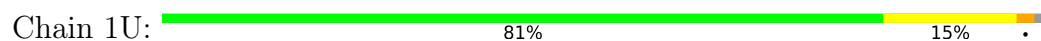
- Molecule 15: 50S ribosomal protein L19



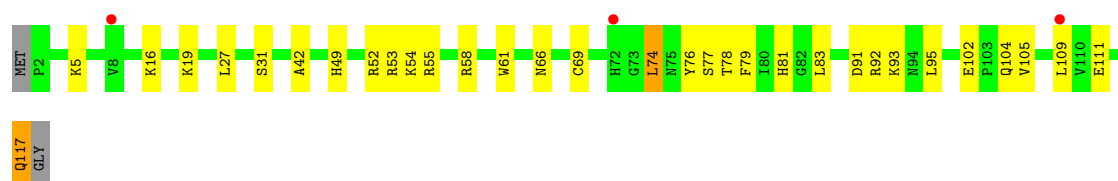
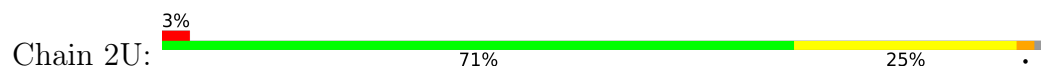
- Molecule 15: 50S ribosomal protein L19



- Molecule 16: 50S ribosomal protein L20



- Molecule 16: 50S ribosomal protein L20



- Molecule 17: 50S ribosomal protein L21





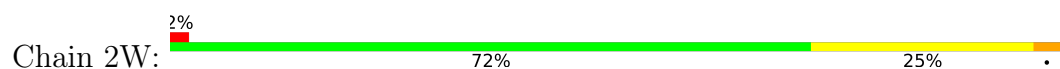
- Molecule 17: 50S ribosomal protein L21



- Molecule 18: 50S ribosomal protein L22



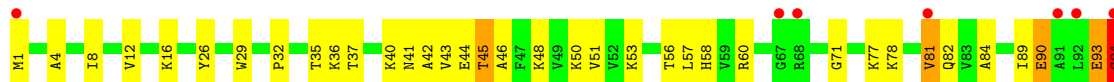
- Molecule 18: 50S ribosomal protein L22



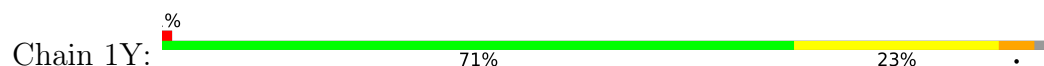
- Molecule 19: 50S ribosomal protein L23



- Molecule 19: 50S ribosomal protein L23

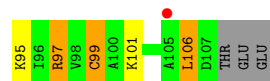
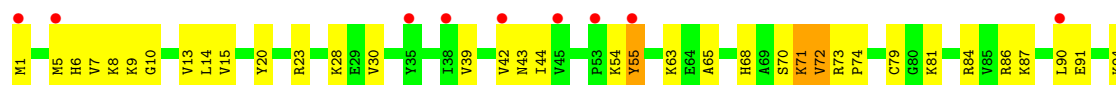


- Molecule 20: 50S ribosomal protein L24

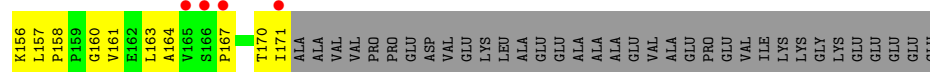
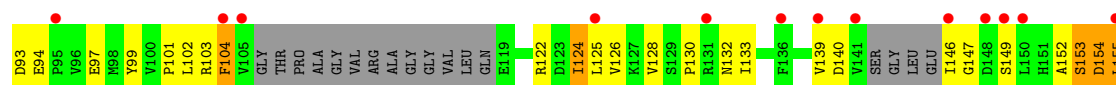
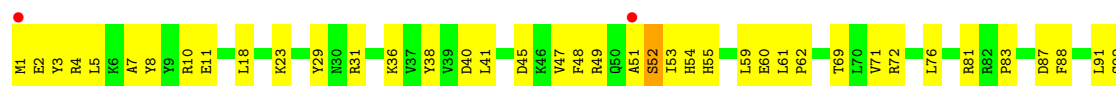




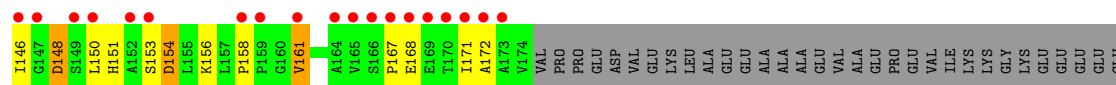
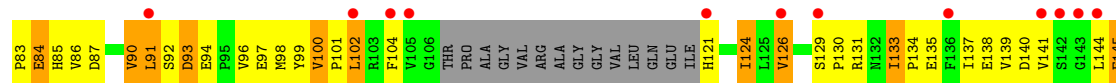
- Molecule 20: 50S ribosomal protein L24



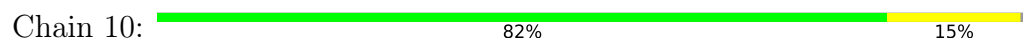
- Molecule 21: 50S ribosomal protein L25



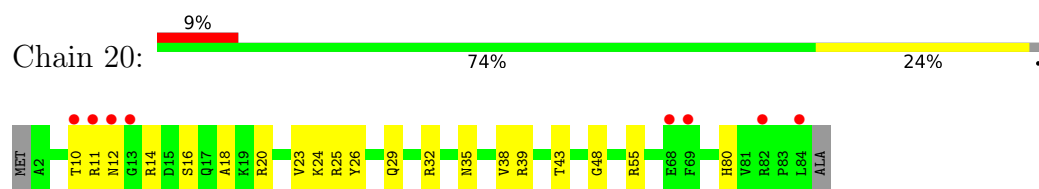
- Molecule 21: 50S ribosomal protein L25



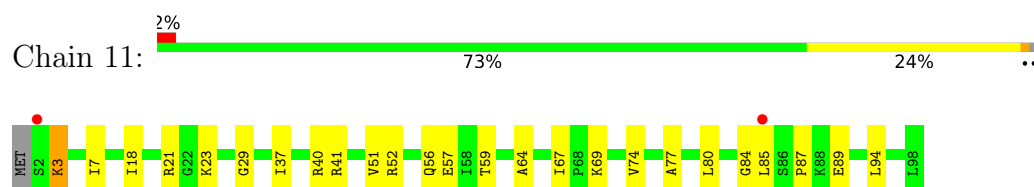
- Molecule 22: 50S ribosomal protein L27



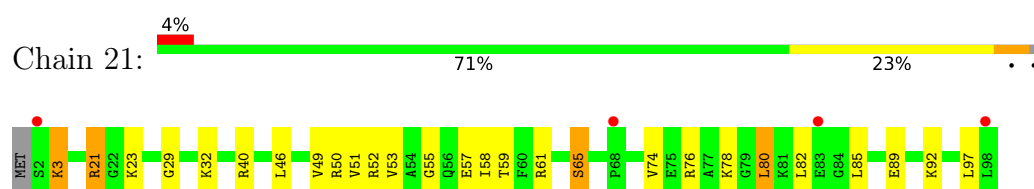
- Molecule 22: 50S ribosomal protein L27



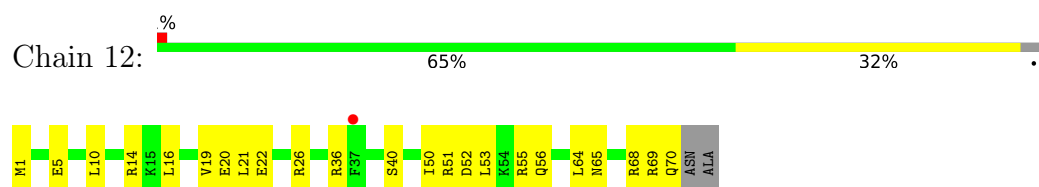
- Molecule 23: 50S ribosomal protein L28



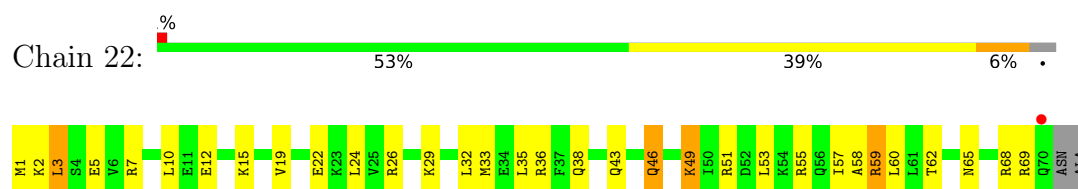
- Molecule 23: 50S ribosomal protein L28



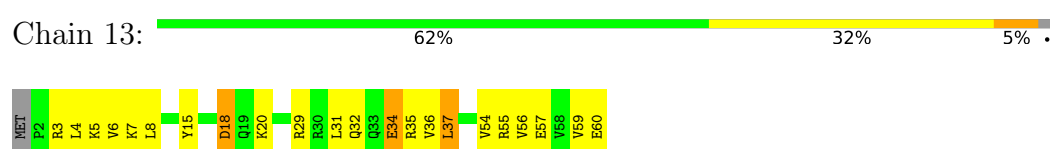
- Molecule 24: 50S ribosomal protein L29



- Molecule 24: 50S ribosomal protein L29

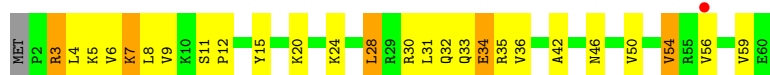


- Molecule 25: 50S ribosomal protein L30

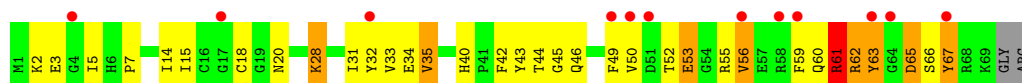


- Molecule 25: 50S ribosomal protein L30





- Molecule 26: 50S ribosomal protein L31



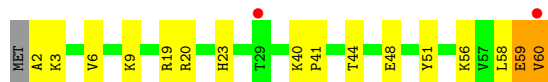
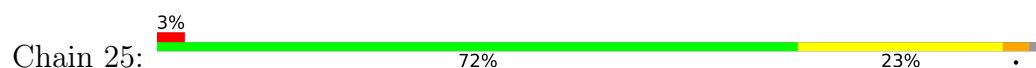
- Molecule 26: 50S ribosomal protein L31



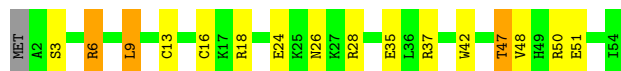
- Molecule 27: 50S ribosomal protein L32



- Molecule 27: 50S ribosomal protein L32



- Molecule 28: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34

Chain 17:  76% 22% .



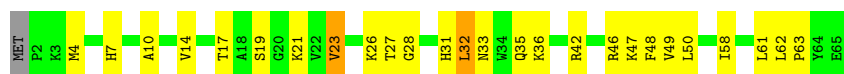
- Molecule 29: 50S ribosomal protein L34

Chain 27:  73% 22% ..



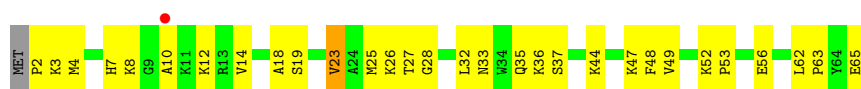
- Molecule 30: 50S ribosomal protein L35

Chain 18:  58% 37% ..



- Molecule 30: 50S ribosomal protein L35

Chain 28:  52% 45% ..



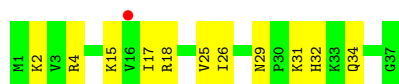
- Molecule 31: 50S ribosomal protein L36

Chain 19:  70% 27% .



- Molecule 31: 50S ribosomal protein L36

Chain 29:  70% 30%

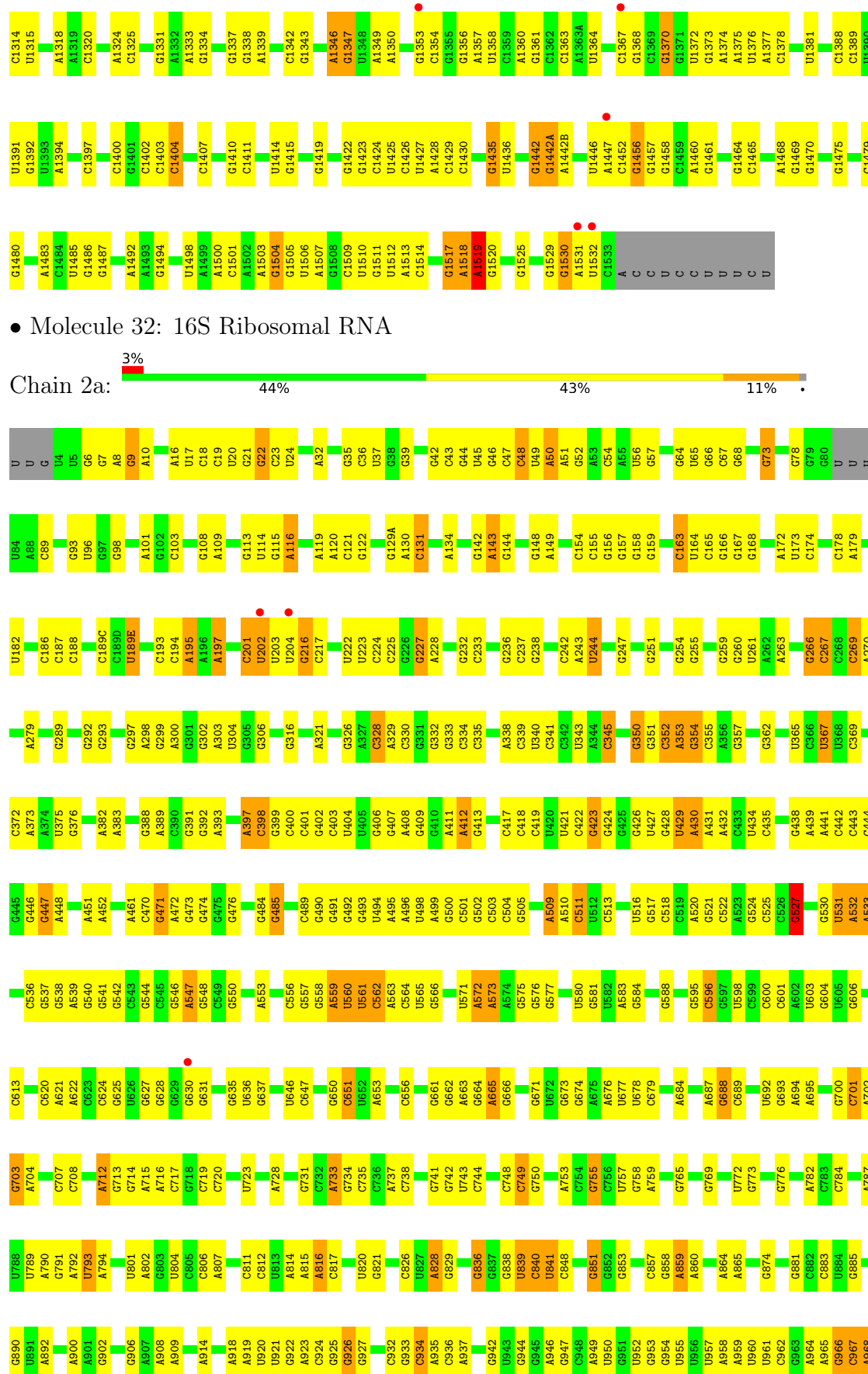


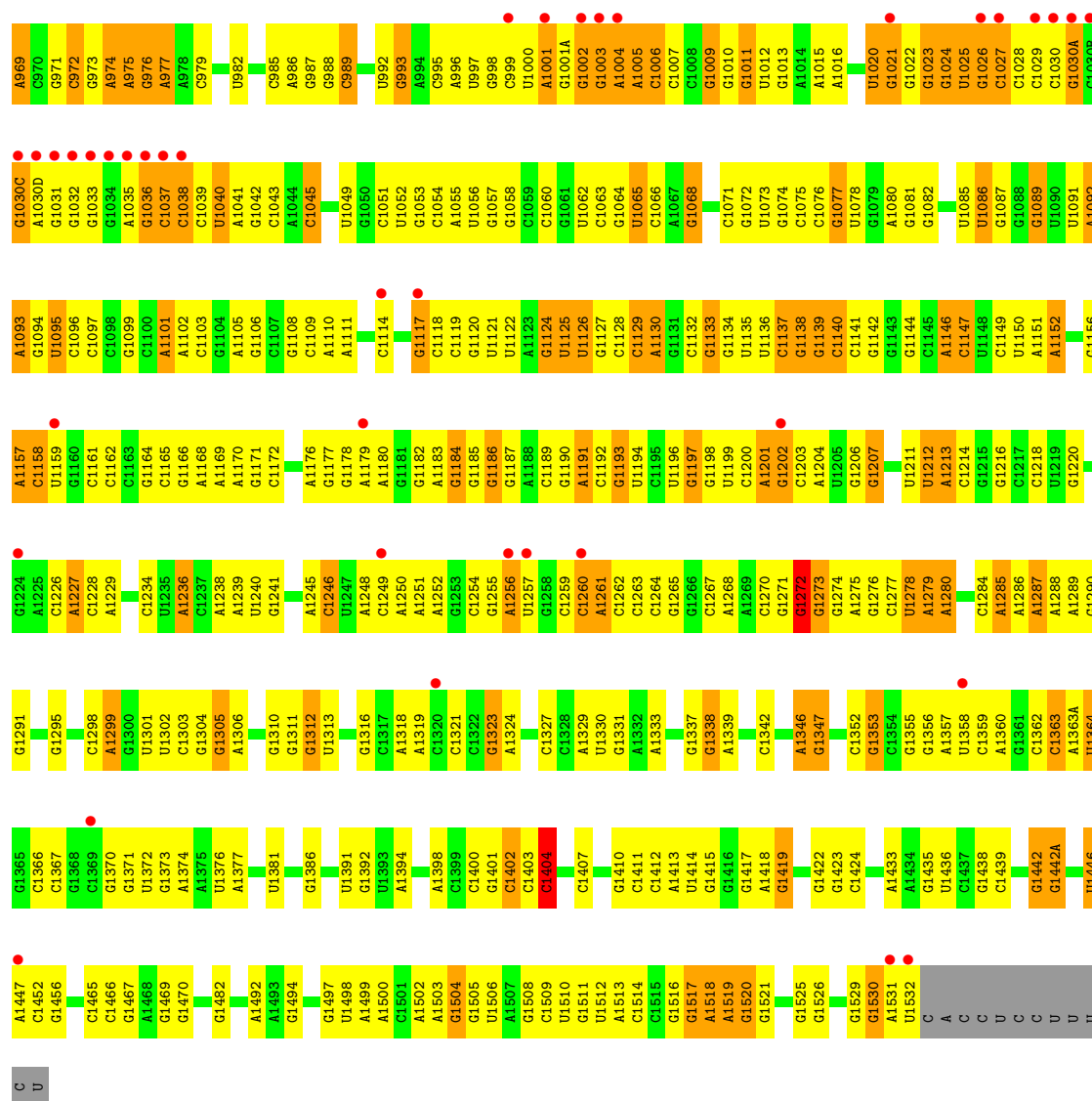
- Molecule 32: 16S Ribosomal RNA

Chain 1a:  49% 40% 9% .

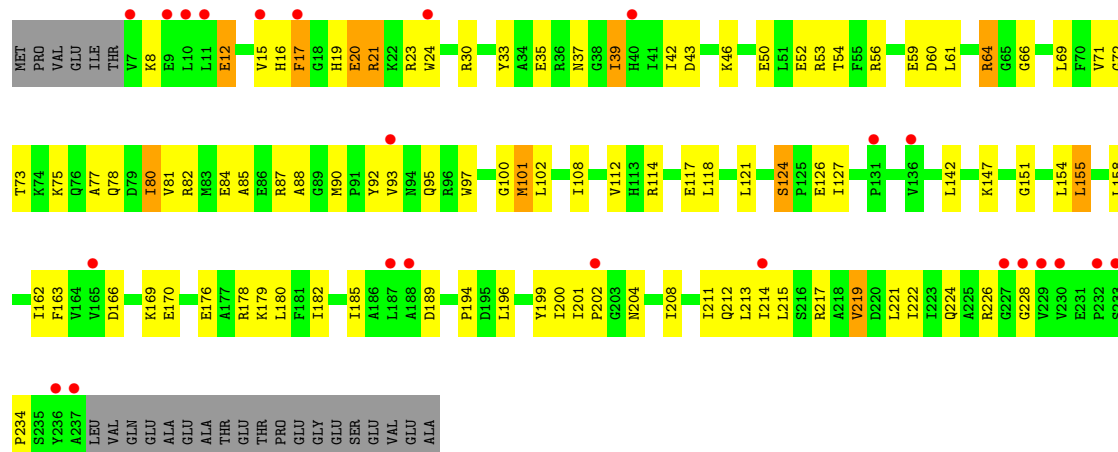


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| C1228 | G1138 | A1055 | A994  | A815 | G721 | U641 | C854 | A461 | U365 |  | C271 | A172 | U     |
| A1236 | C1140 | U1056 | C995  | A816 | G722 | A642 | C555 | C470 | C366 |  | G276 | U173 | A     |
| C1237 | G1144 | G1057 | A996  | C817 | G723 | A653 | C556 | A472 | U367 |  | C277 | C174 | C     |
| A1238 | C1145 | G1058 | U997  | G821 | G724 |      | G558 | G473 | C372 |  | G278 | U182 | G90   |
| A1239 | C1146 | G1059 | G998  | C826 | G727 | G657 | A559 | G474 | A373 |  | A279 | G189 | C92   |
| U1240 | C1147 | U1060 | G926  | U827 |      | U659 | U561 | G475 | A374 |  | C280 |      | G93   |
| C1242 | U1148 | A1001 | G927  | A828 | G730 | G660 | C562 | G485 | G376 |  | G285 |      | U96   |
| C1243 | C1149 | G1002 | C931  | U829 | G731 | G661 | A563 | U486 | C381 |  | G289 |      | G98   |
| C1244 | C1150 | G1003 | C932  | A829 | G732 | G662 | C563 | A487 | A382 |  | G290 |      | U99   |
| A1245 | U1151 | G1004 | G933  | U839 | G735 | G663 | C564 | A488 | A383 |  | G293 |      | C100  |
| C1246 | A1152 | C1069 | C934  | C840 | C736 | G664 | U565 |      | G384 |  | G299 |      | A101  |
|       |       | U1070 | A1005 | U841 | C736 |      | G566 | A495 | A383 |  | G300 |      | G102  |
| C1249 | C1153 | C1071 | C1006 | G851 | C738 | G665 | G567 | A496 | G384 |  | G301 |      | C103  |
| A1250 | G1154 | G1072 | U1073 | G852 | C739 | G666 | G568 | U498 | U387 |  | G302 |      | G104  |
|       |       | U1073 | G1010 | G852 | U740 | G667 | C569 |      | G388 |  | G303 |      | G105  |
| G1253 | U1159 | G1074 | G942  | G855 | G741 | G670 | A572 | C501 | U387 |  | G309 |      | G106  |
| G1254 | G1160 |       | U943  | C856 | G742 | U671 | A573 | G502 | G392 |  | G310 |      | G107  |
| G1255 | A1168 | U1078 | G944  |      | U672 | G672 | A574 | G503 |      |  | G311 |      | G112  |
| A1256 | A1169 | G1079 | G945  | A860 | G673 | U673 | A575 | G504 | A397 |  | C312 |      | U114  |
| U1257 | A1170 | A946  | A947  | G861 | G674 | G674 | G575 | C504 | C398 |  | G313 |      | G115  |
| G1258 | G1171 | U947  | G947  | G862 | G675 |      | G576 | G505 | C399 |  | G314 |      | G108  |
|       | C1172 | C948  | C948  | U863 | C748 | A675 | G577 | G506 | G399 |  | G315 |      | G109  |
|       |       | U949  | U949  | A864 | C749 | U676 | C578 | C507 | G399 |  | G316 |      |       |
| C1263 | G1173 | U950  | U950  | A865 | G750 | U677 | G579 | C508 | C400 |  | G317 |      | G113  |
| C1264 | G1174 | G951  | G951  | U865 | U751 | U678 | G580 | A509 | C401 |  | C318 |      | U114  |
|       | G1175 | U952  | U952  | A866 | G752 | C679 | G581 | A510 | G402 |  | G319 |      | G115  |
| A1269 | G1176 | G953  | G953  | C868 | C680 | G680 | G582 | C511 | C403 |  | G320 |      | A116  |
| C1270 | A1179 | U954  | U955  | G869 | C754 | G681 | G583 | U512 | U404 |  | G321 |      |       |
|       |       | U955  |       | U870 | G755 | G682 | G584 | C513 | U405 |  | G322 |      | A120  |
| G1273 | G1182 | U960  | U960  | U871 | C756 | U683 | G585 | U516 | G406 |  | G323 |      | G122  |
| G1274 | A1183 | U961  | U961  | A872 | G757 | A684 | C596 | G517 | G407 |  | G324 |      | C123  |
| A1275 | G1184 | C962  | C962  | U873 | G758 | G685 | C597 | G518 | A411 |  | G325 |      | G129A |
| G1276 | G1094 | G963  | G963  | A874 | G766 | U686 | C600 | C519 | A412 |  | G326 |      | A130  |
| U1277 | A1191 | A964  | A964  | C877 | A767 | G688 | C601 | A520 | G413 |  | G327 |      | G131  |
| C1278 | G1192 | U965  | U965  | C880 | A768 | C689 | A607 | G521 | U421 |  | G328 |      |       |
| A1279 | G1193 | C966  | C966  | C881 | G769 | G690 | A608 | G524 | C422 |  | G329 |      | A134  |
| A1280 | U1194 | A968  | A968  | U884 | G776 | U691 | A609 | G525 | G423 |  | G330 |      |       |
|       | C1195 | U969  | U969  | G885 | G776 | U692 | A610 | C526 | G424 |  | G331 |      | G138  |
| C1284 | U1196 | A970  | A970  | U886 | G776 | U693 | A611 | G527 | U427 |  | G332 |      | G139  |
| A1285 | G1197 | G970  | G970  | G890 | A782 | U694 | G615 | G527 | G428 |  | G333 |      |       |
| A1286 | A1201 | C971  | C971  | U891 | C783 | A695 | G616 | G531 | U429 |  | G339 |      | G144  |
| A1287 | G1202 | C972  | C972  | A892 | C784 |      | G620 | U531 | C436 |  | U340 |      | G145  |
|       |       | G973  | G973  | C893 | A787 | A701 | A621 | A532 | U437 |  | C341 |      | G146  |
| G1291 | G1206 | A974  | A974  | G893 | A787 | A702 | C620 | A532 | U437 |  | C342 |      | G147  |
| U1292 | G1207 | A975  | A975  | C893 | A787 | A702 | A621 | A532 | U437 |  | U343 |      |       |
|       | C1119 | G976  | G976  | U901 | A792 | G703 | G625 | G536 | G438 |  | G344 |      | A151  |
| C1298 | U1212 | A977  | A977  | G902 | A793 | A704 | G625 | G537 | A439 |  | G345 |      |       |
| A1299 | A1213 | U981  | U981  | G903 | A794 |      | G625 | G538 | A441 |  | G346 |      |       |
| G1300 | C1214 | U982  | U982  | G906 | A794 |      | G625 | G539 | C442 |  | G347 |      | G159  |
| U1301 | G1215 | A983  | A983  | G906 | A802 | G709 | G628 | G540 | A448 |  | G348 |      | A160  |
| U1302 | C1217 | C984  | C984  | A913 | G803 | G711 | G629 | G541 | C449 |  | G349 |      | A161  |
| G1304 | U1218 | A985  | A985  | A914 | G804 | A712 | G630 | G542 | A450 |  | G351 |      | A162  |
| G1305 | U1219 | C985  | C985  | U915 | U805 | G713 | G631 | C543 | G450 |  | G352 |      | C163  |
|       | G1220 | U986  | U986  | A916 | C806 | G714 | A632 | G544 | A451 |  | G353 |      | U164  |
| G1309 | U1135 | U991  | U991  | G917 | C806 | G714 | A632 | C545 | A452 |  | G354 |      |       |
| G1310 | U1135 | U991  | U991  | G917 | A715 | U636 | G637 | A547 | C457 |  | G354 |      | G168  |
|       | C1226 | U992  | U992  | A918 | U813 | C717 | G637 | A547 | C457 |  | G362 |      |       |



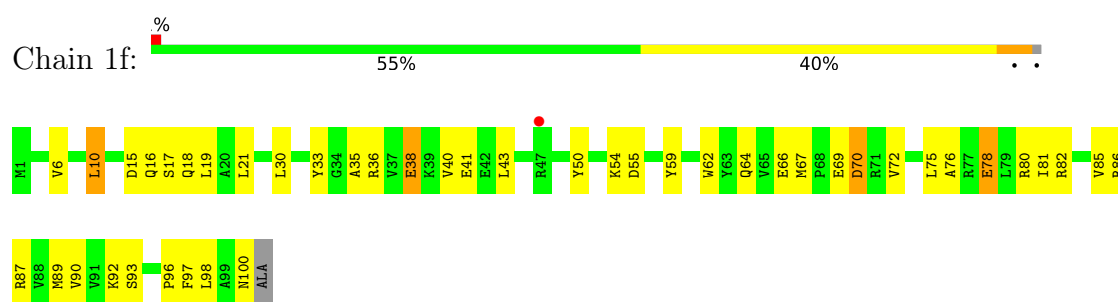


• Molecule 33: 30S ribosomal protein S2

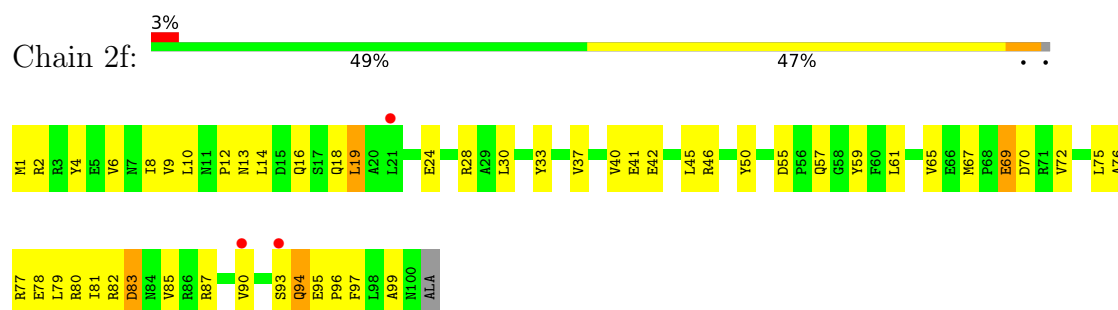




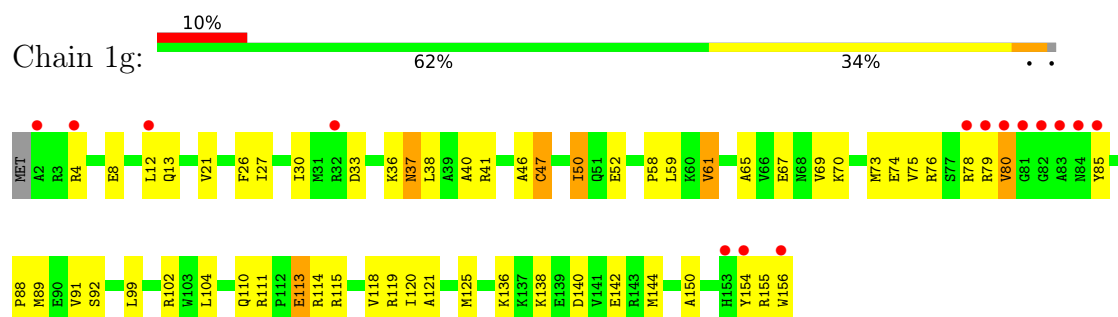




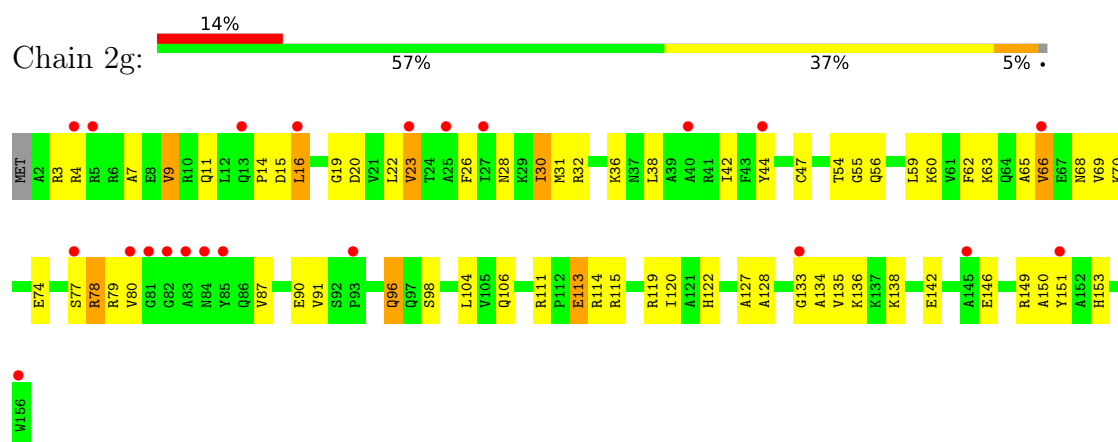
• Molecule 37: 30S ribosomal protein S6



• Molecule 38: 30S ribosomal protein S7

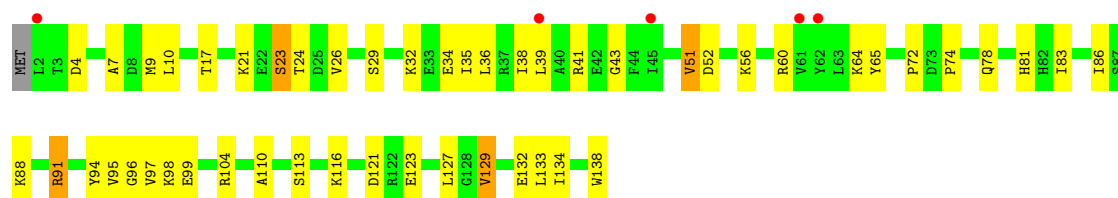


• Molecule 38: 30S ribosomal protein S7

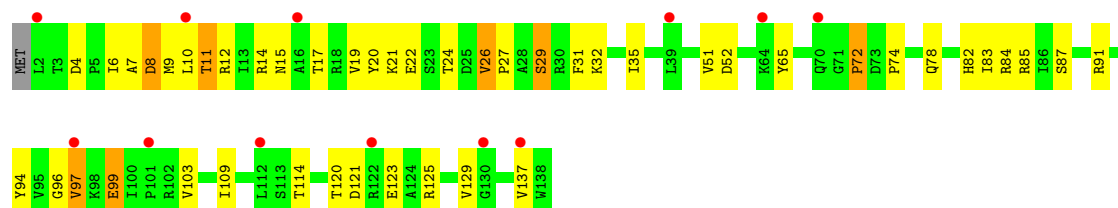


• Molecule 39: 30S ribosomal protein S8

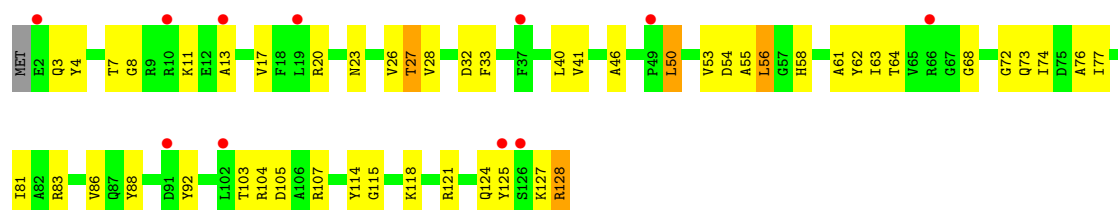




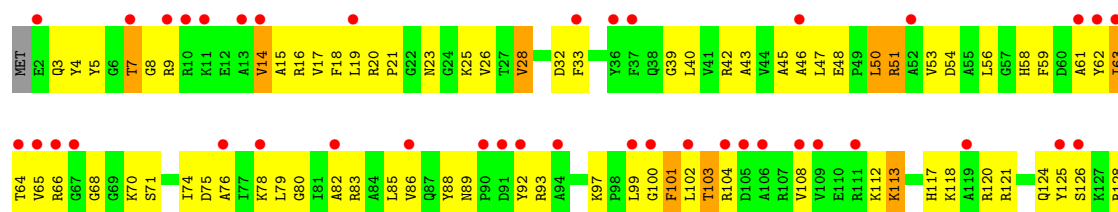
• Molecule 39: 30S ribosomal protein S8



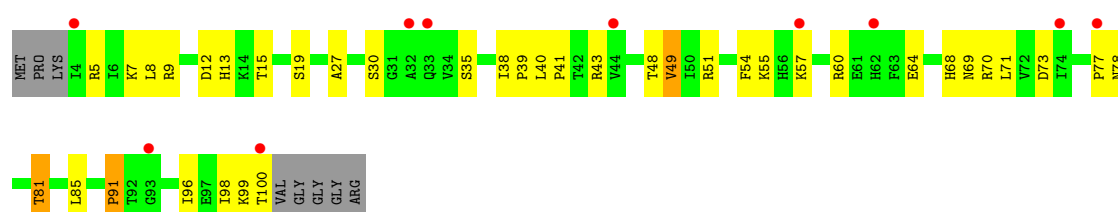
• Molecule 40: 30S ribosomal protein S9



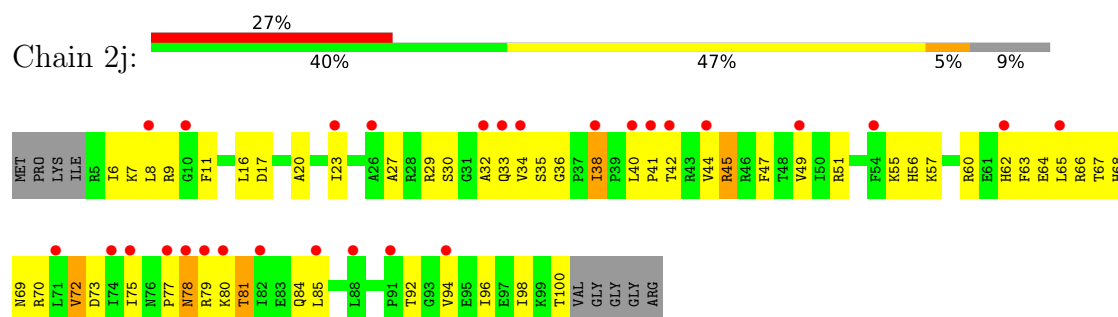
• Molecule 40: 30S ribosomal protein S9



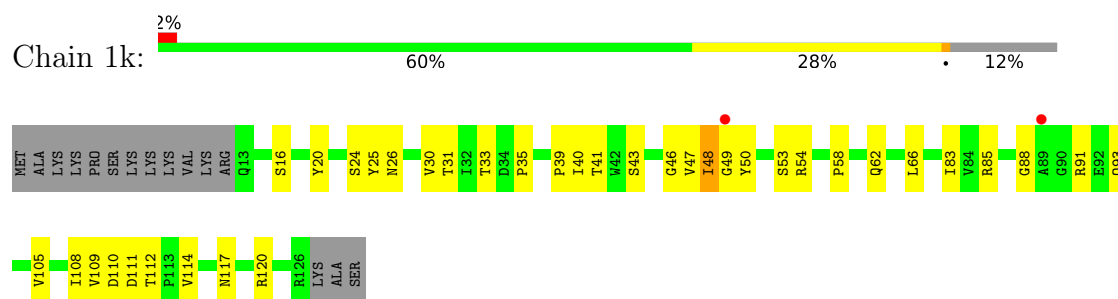
• Molecule 41: 30S ribosomal protein S10



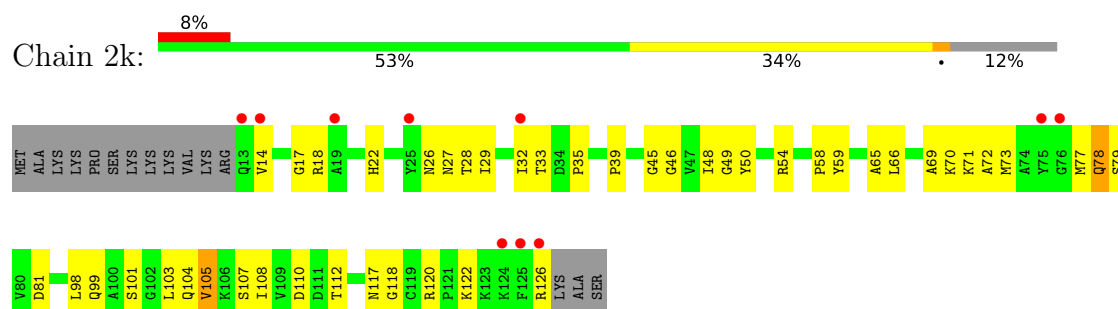
- Molecule 41: 30S ribosomal protein S10



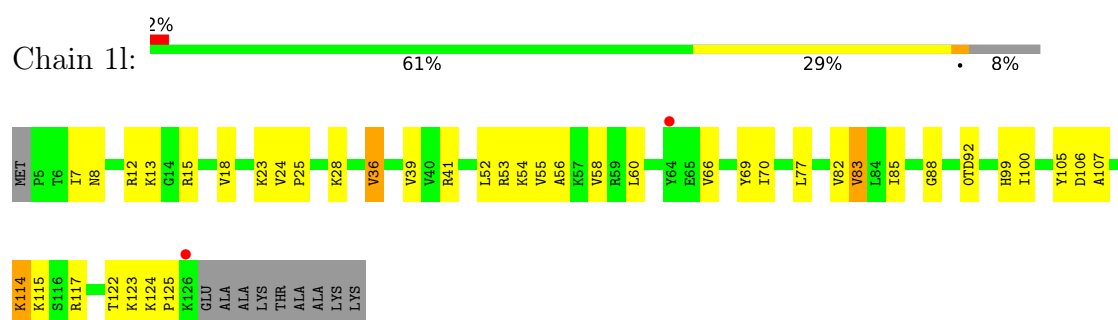
- Molecule 42: 30S ribosomal protein S11



- Molecule 42: 30S ribosomal protein S11

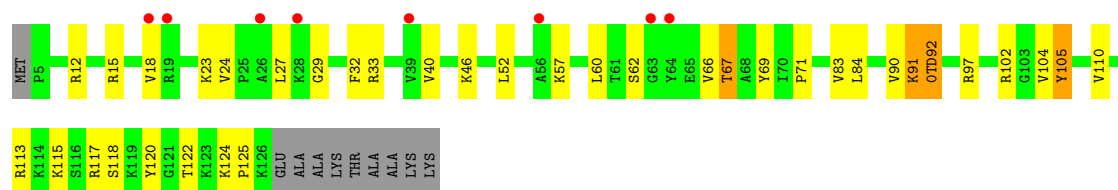


- Molecule 43: 30S ribosomal protein S12



- Molecule 43: 30S ribosomal protein S12

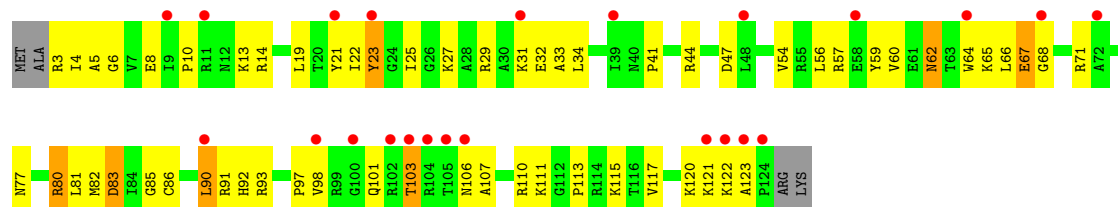




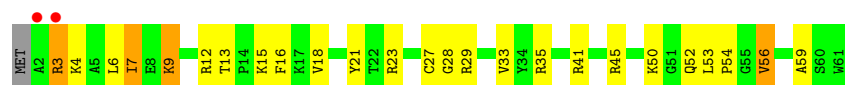
- Molecule 44: 30S ribosomal protein S13



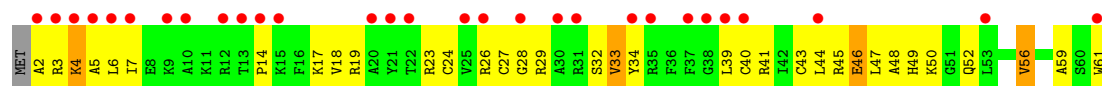
- Molecule 44: 30S ribosomal protein S13



- Molecule 45: 30S ribosomal protein S14 type Z



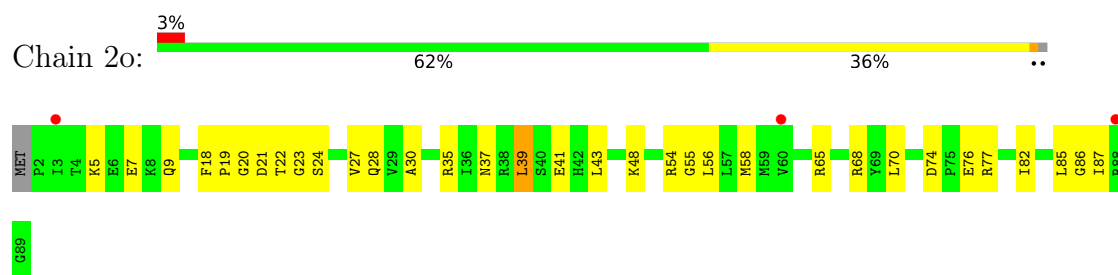
- Molecule 45: 30S ribosomal protein S14 type Z



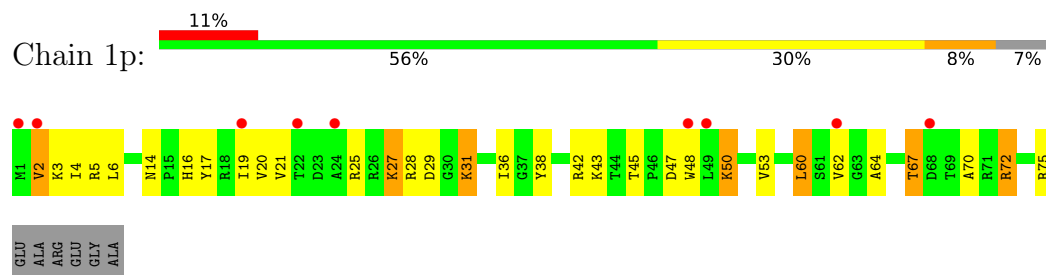
- Molecule 46: 30S ribosomal protein S15



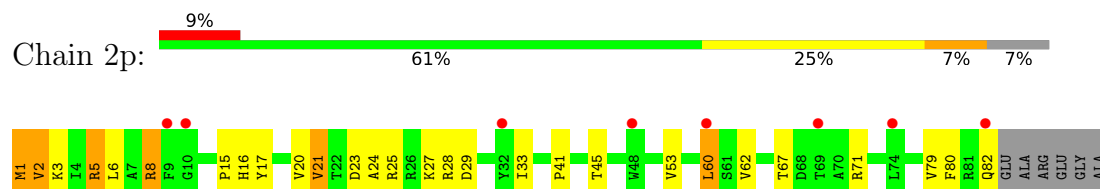
- Molecule 46: 30S ribosomal protein S15



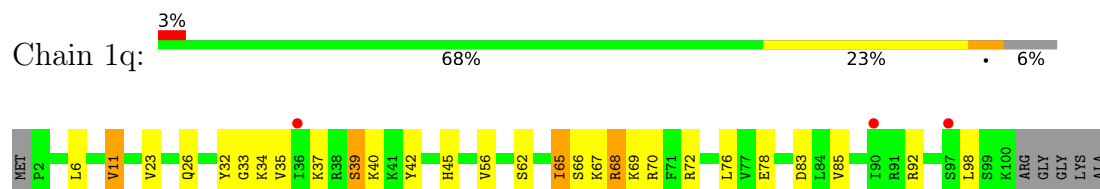
- Molecule 47: 30S ribosomal protein S16



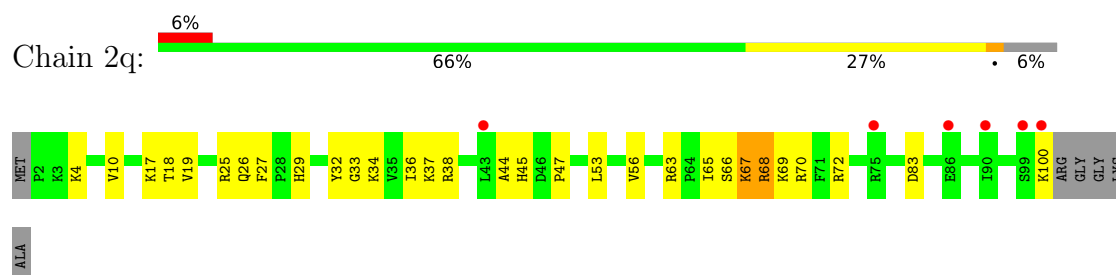
- Molecule 47: 30S ribosomal protein S16



- Molecule 48: 30S ribosomal protein S17

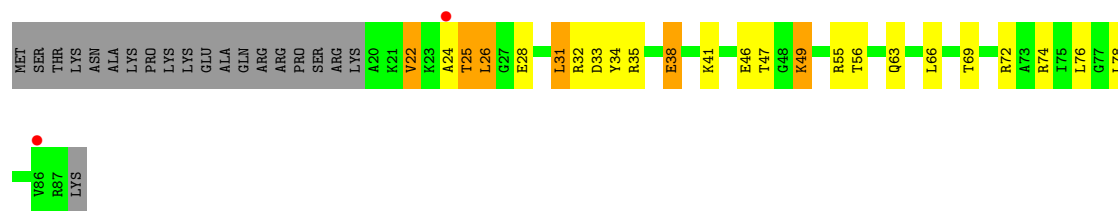


- Molecule 48: 30S ribosomal protein S17

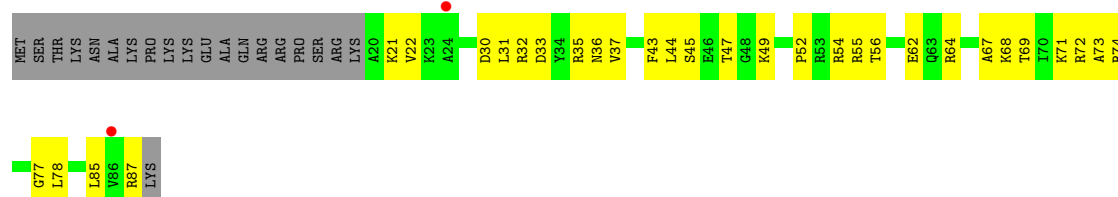
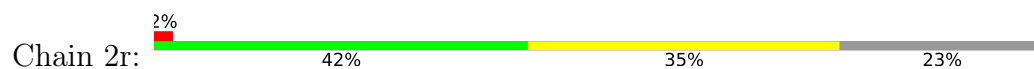


- Molecule 49: 30S ribosomal protein S18

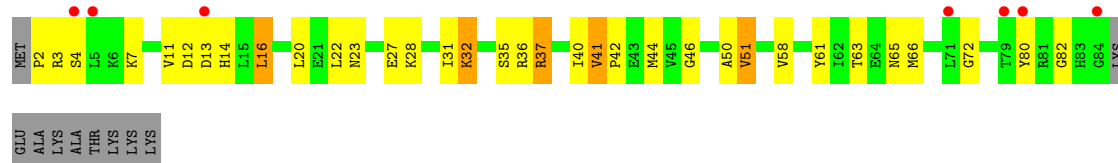




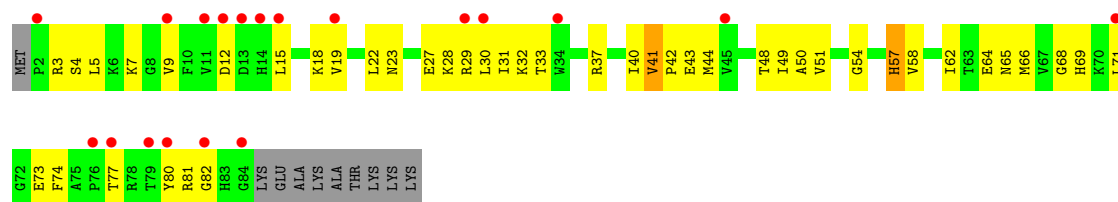
- Molecule 49: 30S ribosomal protein S18



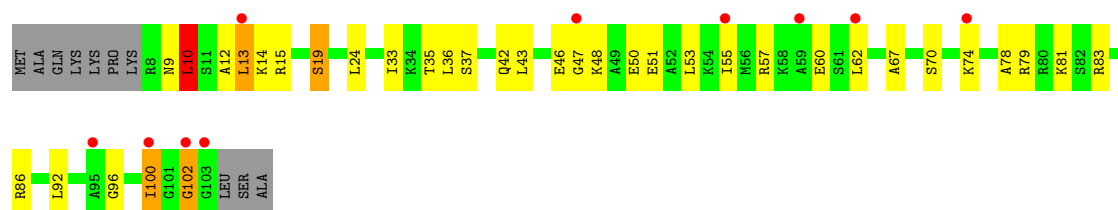
- Molecule 50: 30S ribosomal protein S19



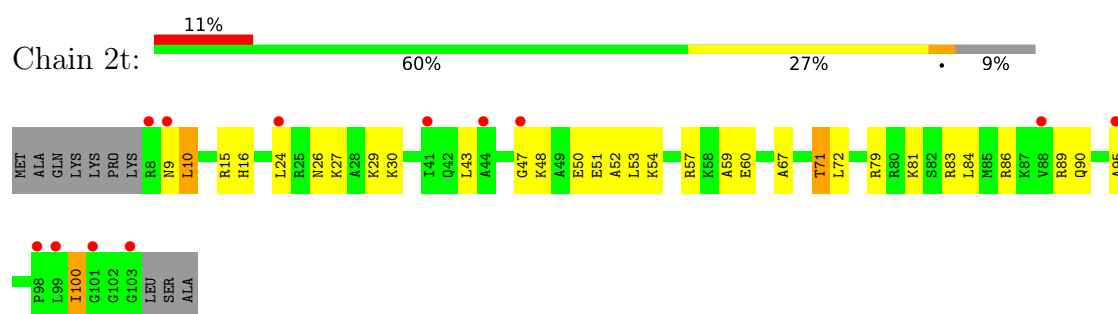
- Molecule 50: 30S ribosomal protein S19



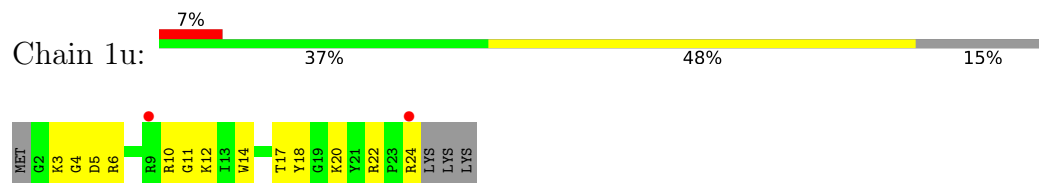
- Molecule 51: 30S ribosomal protein S20



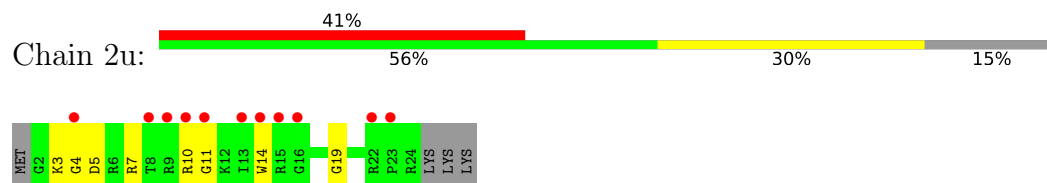
- Molecule 51: 30S ribosomal protein S20



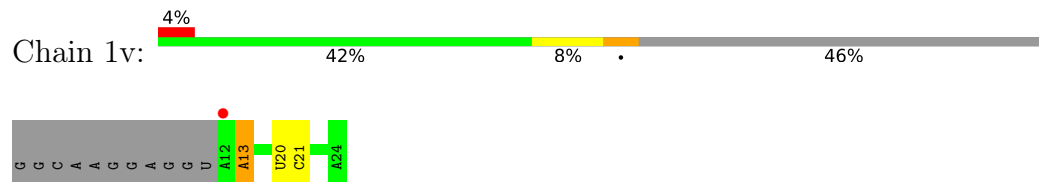
- Molecule 52: 30S ribosomal protein Thx



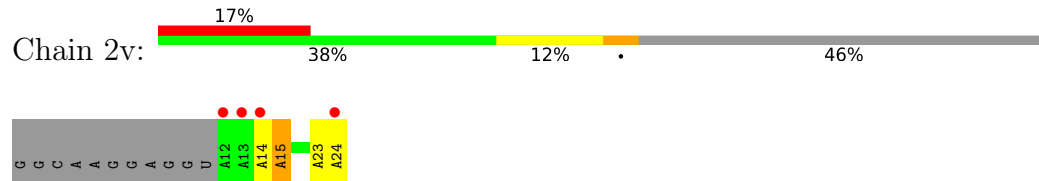
- Molecule 52: 30S ribosomal protein Thx



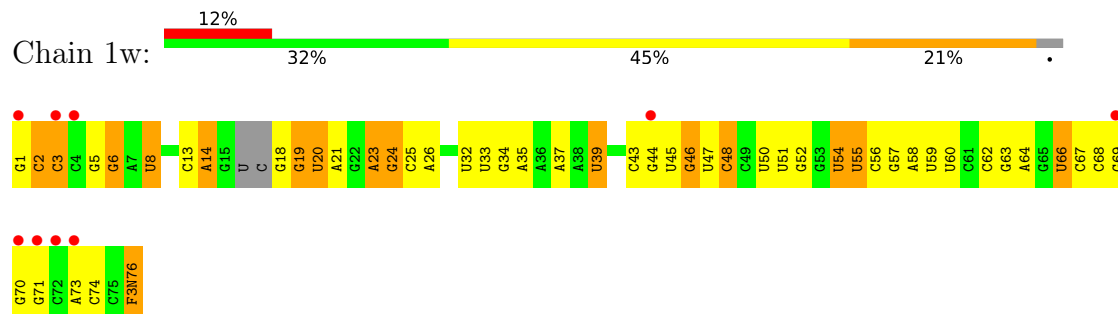
- Molecule 53: mRNA



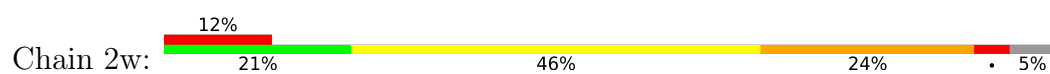
- Molecule 53: mRNA



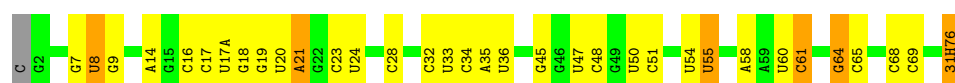
- Molecule 54: A-site tRNA



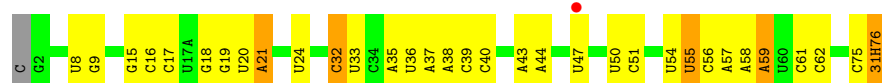
- Molecule 54: A-site tRNA



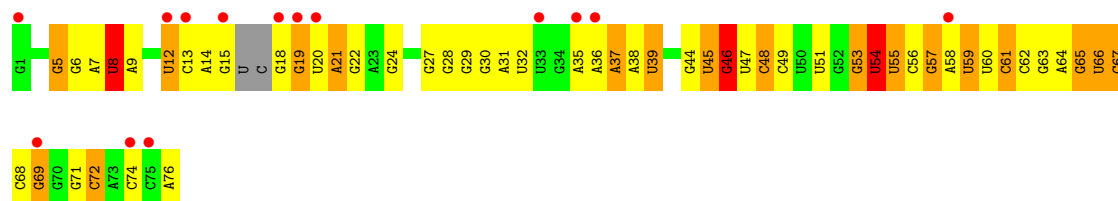
• Molecule 55: P-site tRNA



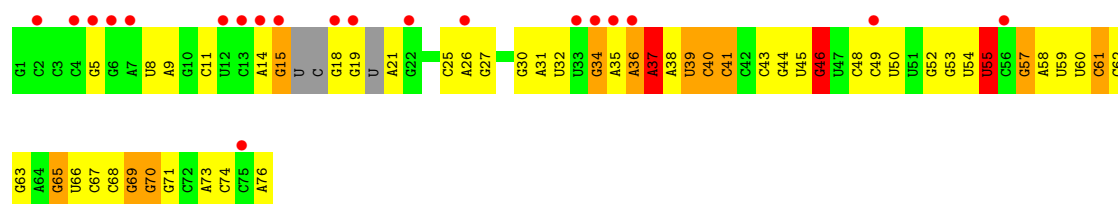
• Molecule 55: P-site tRNA



• Molecule 56: E-site tRNA



• Molecule 56: E-site tRNA



## 4 Data and refinement statistics

| Property                                                                | Value                                                       | Source           |
|-------------------------------------------------------------------------|-------------------------------------------------------------|------------------|
| Space group                                                             | P 21 21 21                                                  | Depositor        |
| Cell constants<br>a, b, c, $\alpha$ , $\beta$ , $\gamma$                | 207.74Å 444.07Å 613.65Å<br>90.00° 90.00° 90.00°             | Depositor        |
| Resolution (Å)                                                          | 208.79 – 2.40<br>208.79 – 2.40                              | Depositor<br>EDS |
| % Data completeness<br>(in resolution range)                            | 99.9 (208.79-2.40)<br>99.9 (208.79-2.40)                    | Depositor<br>EDS |
| $R_{merge}$                                                             | 0.28                                                        | Depositor        |
| $R_{sym}$                                                               | (Not available)                                             | Depositor        |
| $\langle I/\sigma(I) \rangle$ <sup>1</sup>                              | 1.11 (at 2.40Å)                                             | Xtriage          |
| Refinement program                                                      | PHENIX 1.17.1 _3660                                         | Depositor        |
| R, $R_{free}$                                                           | 0.237 , 0.286<br>0.237 , 0.286                              | Depositor<br>DCC |
| $R_{free}$ test set                                                     | 108927 reflections (5.00%)                                  | wwPDB-VP         |
| Wilson B-factor (Å <sup>2</sup> )                                       | 45.8                                                        | Xtriage          |
| Anisotropy                                                              | 0.080                                                       | Xtriage          |
| Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> ) | 0.36 , 56.5                                                 | EDS              |
| L-test for twinning <sup>2</sup>                                        | $\langle  L  \rangle = 0.33$ , $\langle L^2 \rangle = 0.15$ | Xtriage          |
| Estimated twinning fraction                                             | No twinning to report.                                      | Xtriage          |
| $F_o, F_c$ correlation                                                  | 0.90                                                        | EDS              |
| Total number of atoms                                                   | 300906                                                      | wwPDB-VP         |
| Average B, all atoms (Å <sup>2</sup> )                                  | 54.0                                                        | wwPDB-VP         |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% 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: PSU, M2G, UR3, 2MA, 7MG, 0TD, ZN, MIA, 2MG, MG, K, SF4, 31H, 4SU, MA6, F3N, 2MU, OMG, 5MC, 4OC, 5MU

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    | 0.31         | 0/68983 | 0.49        | 3/107669 (0.0%) |
| 1   | 2A    | 0.24         | 0/67267 | 0.43        | 1/104991 (0.0%) |
| 2   | 1B    | 0.25         | 0/2882  | 0.43        | 0/4494          |
| 2   | 2B    | 0.20         | 0/2879  | 0.39        | 0/4487          |
| 3   | 1D    | 0.29         | 0/2186  | 0.53        | 0/2944          |
| 3   | 2D    | 0.25         | 0/2186  | 0.47        | 0/2944          |
| 4   | 1E    | 0.29         | 0/1592  | 0.54        | 0/2149          |
| 4   | 2E    | 0.24         | 0/1592  | 0.44        | 0/2149          |
| 5   | 1F    | 0.27         | 0/1619  | 0.53        | 1/2193 (0.0%)   |
| 5   | 2F    | 0.23         | 0/1615  | 0.49        | 2/2188 (0.1%)   |
| 6   | 1G    | 0.25         | 0/1448  | 0.48        | 1/1957 (0.1%)   |
| 6   | 2G    | 0.20         | 0/1453  | 0.45        | 0/1963          |
| 7   | 1H    | 0.23         | 0/1356  | 0.43        | 0/1834          |
| 7   | 2H    | 0.18         | 0/1356  | 0.37        | 0/1834          |
| 8   | 1I    | 0.20         | 0/1112  | 0.46        | 1/1514 (0.1%)   |
| 8   | 2I    | 0.24         | 0/1079  | 0.48        | 0/1475          |
| 9   | 1N    | 0.27         | 0/1144  | 0.51        | 0/1543          |
| 9   | 2N    | 0.19         | 0/1144  | 0.41        | 0/1543          |
| 10  | 1O    | 0.28         | 0/943   | 0.49        | 0/1269          |
| 10  | 2O    | 0.23         | 0/943   | 0.43        | 0/1269          |
| 11  | 1P    | 0.26         | 0/1152  | 0.53        | 0/1533          |
| 11  | 2P    | 0.22         | 0/1152  | 0.52        | 0/1533          |
| 12  | 1Q    | 0.28         | 0/1143  | 0.50        | 0/1527          |
| 12  | 2Q    | 0.21         | 0/1143  | 0.43        | 0/1527          |
| 13  | 1R    | 0.29         | 0/982   | 0.49        | 0/1312          |
| 13  | 2R    | 0.22         | 0/982   | 0.47        | 0/1312          |
| 14  | 1S    | 0.23         | 0/883   | 0.49        | 0/1176          |
| 14  | 2S    | 0.20         | 0/880   | 0.45        | 0/1172          |
| 15  | 1T    | 0.26         | 0/1105  | 0.51        | 0/1477          |
| 15  | 2T    | 0.21         | 0/1097  | 0.44        | 0/1468          |
| 16  | 1U    | 0.29         | 0/977   | 0.49        | 0/1301          |

| Mol | Chain | Bond lengths |         | Bond angles |                |
|-----|-------|--------------|---------|-------------|----------------|
|     |       | RMSZ         | # Z  >5 | RMSZ        | # Z  >5        |
| 16  | 2U    | 0.22         | 0/977   | 0.41        | 0/1301         |
| 17  | 1V    | 0.27         | 0/782   | 0.50        | 0/1049         |
| 17  | 2V    | 0.19         | 0/782   | 0.43        | 0/1049         |
| 18  | 1W    | 0.30         | 0/897   | 0.49        | 0/1205         |
| 18  | 2W    | 0.22         | 0/897   | 0.41        | 0/1205         |
| 19  | 1X    | 0.26         | 0/764   | 0.56        | 2/1025 (0.2%)  |
| 19  | 2X    | 0.22         | 0/764   | 0.49        | 2/1025 (0.2%)  |
| 20  | 1Y    | 0.23         | 0/819   | 0.48        | 0/1095         |
| 20  | 2Y    | 0.22         | 0/819   | 0.51        | 1/1095 (0.1%)  |
| 21  | 1Z    | 0.23         | 0/1267  | 0.51        | 0/1717         |
| 21  | 2Z    | 0.21         | 0/1299  | 0.44        | 0/1763         |
| 22  | 10    | 0.31         | 0/662   | 0.52        | 0/881          |
| 22  | 20    | 0.24         | 0/662   | 0.47        | 0/881          |
| 23  | 11    | 0.25         | 0/762   | 0.44        | 0/1014         |
| 23  | 21    | 0.22         | 0/762   | 0.42        | 0/1014         |
| 24  | 12    | 0.25         | 0/590   | 0.43        | 0/781          |
| 24  | 22    | 0.19         | 0/590   | 0.37        | 0/781          |
| 25  | 13    | 0.25         | 0/474   | 0.49        | 0/635          |
| 25  | 23    | 0.20         | 0/469   | 0.45        | 0/630          |
| 26  | 14    | 0.24         | 0/565   | 0.54        | 0/761          |
| 26  | 24    | 0.22         | 0/545   | 0.50        | 0/737          |
| 27  | 15    | 0.34         | 0/469   | 0.61        | 0/635          |
| 27  | 25    | 0.26         | 0/469   | 0.47        | 0/635          |
| 28  | 16    | 0.29         | 0/460   | 0.49        | 0/613          |
| 28  | 26    | 0.22         | 0/456   | 0.45        | 0/608          |
| 29  | 17    | 0.30         | 0/426   | 0.54        | 0/561          |
| 29  | 27    | 0.26         | 0/426   | 0.50        | 0/561          |
| 30  | 18    | 0.27         | 0/525   | 0.48        | 0/691          |
| 30  | 28    | 0.22         | 0/525   | 0.42        | 0/691          |
| 31  | 19    | 0.28         | 0/310   | 0.46        | 0/407          |
| 31  | 29    | 0.21         | 0/310   | 0.41        | 0/407          |
| 32  | 1a    | 0.22         | 0/35795 | 0.41        | 1/55864 (0.0%) |
| 32  | 2a    | 0.21         | 0/35886 | 0.40        | 1/56005 (0.0%) |
| 33  | 1b    | 0.22         | 0/1881  | 0.48        | 0/2542         |
| 33  | 2b    | 0.22         | 0/1860  | 0.48        | 0/2518         |
| 34  | 1c    | 0.22         | 0/1572  | 0.46        | 1/2126 (0.0%)  |
| 34  | 2c    | 0.22         | 0/1566  | 0.46        | 0/2119         |
| 35  | 1d    | 0.20         | 0/1685  | 0.44        | 0/2262         |
| 35  | 2d    | 0.19         | 0/1704  | 0.44        | 0/2284         |
| 36  | 1e    | 0.23         | 0/1145  | 0.49        | 0/1543         |
| 36  | 2e    | 0.20         | 0/1149  | 0.49        | 0/1548         |
| 37  | 1f    | 0.20         | 0/823   | 0.43        | 0/1115         |
| 37  | 2f    | 0.21         | 0/829   | 0.42        | 0/1123         |

| Mol | Chain | Bond lengths |                 | Bond angles |                  |
|-----|-------|--------------|-----------------|-------------|------------------|
|     |       | RMSZ         | # Z  >5         | RMSZ        | # Z  >5          |
| 38  | 1g    | 0.21         | 0/1250          | 0.40        | 0/1679           |
| 38  | 2g    | 0.19         | 0/1254          | 0.47        | 0/1683           |
| 39  | 1h    | 0.20         | 0/1108          | 0.40        | 0/1494           |
| 39  | 2h    | 0.19         | 0/1108          | 0.41        | 0/1494           |
| 40  | 1i    | 0.19         | 0/1002          | 0.47        | 0/1346           |
| 40  | 2i    | 0.26         | 0/997           | 0.52        | 0/1343           |
| 41  | 1j    | 0.19         | 0/722           | 0.44        | 0/982            |
| 41  | 2j    | 0.21         | 0/727           | 0.51        | 0/988            |
| 42  | 1k    | 0.20         | 0/844           | 0.42        | 0/1145           |
| 42  | 2k    | 0.18         | 0/848           | 0.39        | 0/1149           |
| 43  | 1l    | 0.24         | 0/937           | 0.45        | 0/1260           |
| 43  | 2l    | 0.19         | 0/937           | 0.43        | 0/1260           |
| 44  | 1m    | 0.21         | 0/969           | 0.49        | 0/1302           |
| 44  | 2m    | 0.21         | 0/961           | 0.49        | 0/1291           |
| 45  | 1n    | 0.20         | 0/501           | 0.44        | 0/664            |
| 45  | 2n    | 0.21         | 0/501           | 0.46        | 0/664            |
| 46  | 1o    | 0.20         | 0/739           | 0.37        | 0/985            |
| 46  | 2o    | 0.18         | 0/739           | 0.39        | 0/985            |
| 47  | 1p    | 0.22         | 0/697           | 0.44        | 0/939            |
| 47  | 2p    | 0.20         | 0/693           | 0.46        | 0/935            |
| 48  | 1q    | 0.19         | 0/836           | 0.53        | 1/1117 (0.1%)    |
| 48  | 2q    | 0.20         | 0/836           | 0.48        | 0/1117           |
| 49  | 1r    | 0.20         | 0/560           | 0.39        | 0/746            |
| 49  | 2r    | 0.21         | 0/560           | 0.44        | 0/746            |
| 50  | 1s    | 0.20         | 0/667           | 0.52        | 0/900            |
| 50  | 2s    | 0.21         | 0/661           | 0.53        | 0/893            |
| 51  | 1t    | 0.21         | 0/730           | 0.50        | 0/965            |
| 51  | 2t    | 0.22         | 0/729           | 0.47        | 0/965            |
| 52  | 1u    | 0.20         | 0/203           | 0.41        | 0/266            |
| 52  | 2u    | 0.19         | 0/203           | 0.51        | 0/266            |
| 53  | 1v    | 0.24         | 0/310           | 0.37        | 0/480            |
| 53  | 2v    | 0.24         | 0/310           | 0.42        | 0/480            |
| 54  | 1w    | 0.27         | 0/1581          | 0.46        | 0/2458           |
| 54  | 2w    | 0.27         | 1/1531 (0.1%)   | 0.44        | 0/2379           |
| 55  | 1x    | 0.30         | 0/1700          | 0.43        | 0/2650           |
| 55  | 2x    | 0.26         | 0/1700          | 0.40        | 0/2650           |
| 56  | 1y    | 0.29         | 1/1606 (0.1%)   | 0.45        | 0/2497           |
| 56  | 2y    | 0.29         | 0/1583          | 0.48        | 0/2459           |
| All | All   | 0.25         | 2/316534 (0.0%) | 0.45        | 18/473871 (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 |
|-----|-------|---------------------|---------------------|
| 11  | 1P    | 0                   | 2                   |
| 11  | 2P    | 0                   | 1                   |
| 44  | 2m    | 0                   | 1                   |
| All | All   | 0                   | 4                   |

All (2) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z    | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|-------|------|-------------|----------|
| 56  | 1y    | 8   | 4SU  | O3'-P | 5.32 | 1.61        | 1.56     |
| 54  | 2w    | 8   | 4SU  | O3'-P | 5.00 | 1.61        | 1.56     |

The worst 5 of 18 bond angle outliers are listed below:

| Mol | Chain | Res  | Type | Atoms       | Z     | Observed(°) | Ideal(°) |
|-----|-------|------|------|-------------|-------|-------------|----------|
| 48  | 1q    | 65   | ILE  | N-CA-C      | -7.92 | 105.04      | 112.96   |
| 6   | 1G    | 127  | GLY  | N-CA-C      | -7.38 | 105.66      | 115.40   |
| 5   | 1F    | 78   | ILE  | N-CA-C      | -6.58 | 104.75      | 112.98   |
| 1   | 1A    | 1992 | G    | C2'-C3'-O3' | 6.53  | 119.30      | 109.50   |
| 8   | 1I    | 67   | ARG  | N-CA-C      | -6.29 | 105.71      | 113.19   |

There are no chirality outliers.

All (4) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group   |
|-----|-------|-----|------|---------|
| 11  | 1P    | 35  | HIS  | Peptide |
| 11  | 1P    | 37  | GLY  | Peptide |
| 11  | 2P    | 35  | HIS  | Peptide |
| 44  | 2m    | 106 | ASN  | 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    | 61854 | 0        | 31195    | 942     | 0            |
| 1   | 2A    | 60324 | 0        | 30428    | 1053    | 0            |
| 2   | 1B    | 2577  | 0        | 1305     | 29      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 2   | 2B    | 2575  | 0        | 1303     | 51      | 0            |
| 3   | 1D    | 2136  | 0        | 2218     | 64      | 0            |
| 3   | 2D    | 2136  | 0        | 2218     | 60      | 0            |
| 4   | 1E    | 1559  | 0        | 1618     | 51      | 0            |
| 4   | 2E    | 1559  | 0        | 1618     | 51      | 0            |
| 5   | 1F    | 1584  | 0        | 1625     | 53      | 0            |
| 5   | 2F    | 1580  | 0        | 1619     | 65      | 0            |
| 6   | 1G    | 1423  | 0        | 1436     | 52      | 0            |
| 6   | 2G    | 1428  | 0        | 1438     | 66      | 0            |
| 7   | 1H    | 1330  | 0        | 1407     | 32      | 0            |
| 7   | 2H    | 1330  | 0        | 1407     | 43      | 0            |
| 8   | 1I    | 1097  | 0        | 1140     | 29      | 0            |
| 8   | 2I    | 1064  | 0        | 1082     | 33      | 0            |
| 9   | 1N    | 1117  | 0        | 1184     | 21      | 0            |
| 9   | 2N    | 1117  | 0        | 1184     | 30      | 0            |
| 10  | 1O    | 933   | 0        | 996      | 33      | 0            |
| 10  | 2O    | 933   | 0        | 996      | 29      | 0            |
| 11  | 1P    | 1135  | 0        | 1212     | 45      | 0            |
| 11  | 2P    | 1135  | 0        | 1212     | 42      | 0            |
| 12  | 1Q    | 1122  | 0        | 1179     | 23      | 0            |
| 12  | 2Q    | 1122  | 0        | 1179     | 41      | 0            |
| 13  | 1R    | 968   | 0        | 1033     | 30      | 0            |
| 13  | 2R    | 968   | 0        | 1033     | 33      | 0            |
| 14  | 1S    | 873   | 0        | 926      | 28      | 0            |
| 14  | 2S    | 870   | 0        | 923      | 33      | 0            |
| 15  | 1T    | 1091  | 0        | 1151     | 24      | 0            |
| 15  | 2T    | 1083  | 0        | 1136     | 31      | 0            |
| 16  | 1U    | 959   | 0        | 1019     | 14      | 0            |
| 16  | 2U    | 959   | 0        | 1019     | 25      | 0            |
| 17  | 1V    | 771   | 0        | 830      | 16      | 0            |
| 17  | 2V    | 771   | 0        | 830      | 22      | 0            |
| 18  | 1W    | 886   | 0        | 940      | 18      | 0            |
| 18  | 2W    | 886   | 0        | 940      | 16      | 0            |
| 19  | 1X    | 750   | 0        | 814      | 27      | 0            |
| 19  | 2X    | 750   | 0        | 814      | 27      | 0            |
| 20  | 1Y    | 806   | 0        | 881      | 15      | 0            |
| 20  | 2Y    | 806   | 0        | 881      | 30      | 0            |
| 21  | 1Z    | 1240  | 0        | 1240     | 46      | 0            |
| 21  | 2Z    | 1271  | 0        | 1273     | 60      | 0            |
| 22  | 10    | 653   | 0        | 674      | 16      | 0            |
| 22  | 20    | 653   | 0        | 674      | 18      | 0            |
| 23  | 11    | 755   | 0        | 826      | 18      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 23  | 21    | 755   | 0        | 826      | 23      | 0            |
| 24  | 12    | 588   | 0        | 643      | 15      | 0            |
| 24  | 22    | 588   | 0        | 643      | 20      | 0            |
| 25  | 13    | 469   | 0        | 518      | 14      | 0            |
| 25  | 23    | 464   | 0        | 514      | 21      | 0            |
| 26  | 14    | 552   | 0        | 533      | 28      | 0            |
| 26  | 24    | 532   | 0        | 503      | 28      | 0            |
| 27  | 15    | 455   | 0        | 465      | 15      | 0            |
| 27  | 25    | 455   | 0        | 465      | 13      | 0            |
| 28  | 16    | 453   | 0        | 473      | 11      | 0            |
| 28  | 26    | 449   | 0        | 469      | 18      | 0            |
| 29  | 17    | 418   | 0        | 467      | 9       | 0            |
| 29  | 27    | 418   | 0        | 467      | 10      | 0            |
| 30  | 18    | 517   | 0        | 582      | 19      | 0            |
| 30  | 28    | 517   | 0        | 582      | 24      | 0            |
| 31  | 19    | 307   | 0        | 335      | 8       | 0            |
| 31  | 29    | 307   | 0        | 335      | 7       | 0            |
| 32  | 1a    | 32246 | 0        | 16294    | 565     | 0            |
| 32  | 2a    | 32327 | 0        | 16339    | 716     | 0            |
| 33  | 1b    | 1846  | 0        | 1867     | 64      | 0            |
| 33  | 2b    | 1825  | 0        | 1828     | 100     | 0            |
| 34  | 1c    | 1548  | 0        | 1535     | 38      | 0            |
| 34  | 2c    | 1542  | 0        | 1517     | 56      | 0            |
| 35  | 1d    | 1655  | 0        | 1672     | 60      | 0            |
| 35  | 2d    | 1674  | 0        | 1714     | 59      | 0            |
| 36  | 1e    | 1129  | 0        | 1185     | 49      | 0            |
| 36  | 2e    | 1133  | 0        | 1191     | 40      | 0            |
| 37  | 1f    | 810   | 0        | 804      | 26      | 0            |
| 37  | 2f    | 816   | 0        | 808      | 41      | 0            |
| 38  | 1g    | 1231  | 0        | 1238     | 38      | 0            |
| 38  | 2g    | 1235  | 0        | 1249     | 43      | 0            |
| 39  | 1h    | 1088  | 0        | 1126     | 34      | 0            |
| 39  | 2h    | 1088  | 0        | 1126     | 32      | 0            |
| 40  | 1i    | 983   | 0        | 986      | 36      | 0            |
| 40  | 2i    | 978   | 0        | 966      | 68      | 0            |
| 41  | 1j    | 709   | 0        | 650      | 33      | 0            |
| 41  | 2j    | 714   | 0        | 672      | 47      | 0            |
| 42  | 1k    | 829   | 0        | 825      | 18      | 0            |
| 42  | 2k    | 833   | 0        | 836      | 34      | 0            |
| 43  | 1l    | 932   | 0        | 978      | 24      | 0            |
| 43  | 2l    | 932   | 0        | 981      | 26      | 0            |
| 44  | 1m    | 958   | 0        | 1002     | 36      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 44  | 2m    | 950   | 0        | 988      | 55      | 0            |
| 45  | 1n    | 492   | 0        | 529      | 20      | 0            |
| 45  | 2n    | 492   | 0        | 529      | 25      | 0            |
| 46  | 1o    | 728   | 0        | 760      | 20      | 0            |
| 46  | 2o    | 728   | 0        | 760      | 22      | 0            |
| 47  | 1p    | 681   | 0        | 697      | 24      | 0            |
| 47  | 2p    | 677   | 0        | 686      | 20      | 0            |
| 48  | 1q    | 823   | 0        | 891      | 21      | 0            |
| 48  | 2q    | 823   | 0        | 891      | 18      | 0            |
| 49  | 1r    | 555   | 0        | 618      | 14      | 0            |
| 49  | 2r    | 555   | 0        | 618      | 27      | 0            |
| 50  | 1s    | 652   | 0        | 662      | 27      | 0            |
| 50  | 2s    | 646   | 0        | 644      | 35      | 0            |
| 51  | 1t    | 728   | 0        | 798      | 25      | 0            |
| 51  | 2t    | 727   | 0        | 796      | 25      | 0            |
| 52  | 1u    | 199   | 0        | 208      | 8       | 0            |
| 52  | 2u    | 199   | 0        | 208      | 8       | 0            |
| 53  | 1v    | 277   | 0        | 140      | 3       | 0            |
| 53  | 2v    | 277   | 0        | 140      | 7       | 0            |
| 54  | 1w    | 1603  | 0        | 829      | 32      | 0            |
| 54  | 2w    | 1555  | 0        | 798      | 46      | 0            |
| 55  | 1x    | 1635  | 0        | 838      | 20      | 0            |
| 55  | 2x    | 1635  | 0        | 838      | 21      | 0            |
| 56  | 1y    | 1585  | 0        | 804      | 42      | 0            |
| 56  | 2y    | 1565  | 0        | 795      | 44      | 0            |
| 57  | 10    | 9     | 0        | 0        | 0       | 0            |
| 57  | 11    | 6     | 0        | 0        | 0       | 0            |
| 57  | 12    | 2     | 0        | 0        | 0       | 0            |
| 57  | 13    | 5     | 0        | 0        | 0       | 0            |
| 57  | 14    | 1     | 0        | 0        | 0       | 0            |
| 57  | 15    | 7     | 0        | 0        | 0       | 0            |
| 57  | 16    | 1     | 0        | 0        | 0       | 0            |
| 57  | 17    | 5     | 0        | 0        | 0       | 0            |
| 57  | 18    | 6     | 0        | 0        | 0       | 0            |
| 57  | 19    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1A    | 1121  | 0        | 0        | 0       | 0            |
| 57  | 1B    | 34    | 0        | 0        | 0       | 0            |
| 57  | 1D    | 12    | 0        | 0        | 0       | 0            |
| 57  | 1E    | 13    | 0        | 0        | 0       | 0            |
| 57  | 1F    | 11    | 0        | 0        | 0       | 0            |
| 57  | 1G    | 5     | 0        | 0        | 0       | 0            |
| 57  | 1I    | 1     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 57  | 1N    | 5     | 0        | 0        | 0       | 0            |
| 57  | 1O    | 4     | 0        | 0        | 0       | 0            |
| 57  | 1P    | 4     | 0        | 0        | 0       | 0            |
| 57  | 1Q    | 7     | 0        | 0        | 0       | 0            |
| 57  | 1R    | 4     | 0        | 0        | 0       | 0            |
| 57  | 1S    | 3     | 0        | 0        | 0       | 0            |
| 57  | 1T    | 4     | 0        | 0        | 0       | 0            |
| 57  | 1U    | 9     | 0        | 0        | 0       | 0            |
| 57  | 1V    | 9     | 0        | 0        | 0       | 0            |
| 57  | 1W    | 6     | 0        | 0        | 0       | 0            |
| 57  | 1X    | 7     | 0        | 0        | 0       | 0            |
| 57  | 1Y    | 3     | 0        | 0        | 0       | 0            |
| 57  | 1Z    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1a    | 219   | 0        | 0        | 0       | 0            |
| 57  | 1b    | 2     | 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    | 2     | 0        | 0        | 0       | 0            |
| 57  | 1n    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1t    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1v    | 1     | 0        | 0        | 0       | 0            |
| 57  | 1w    | 10    | 0        | 0        | 0       | 0            |
| 57  | 1x    | 15    | 0        | 0        | 0       | 0            |
| 57  | 1y    | 3     | 0        | 0        | 0       | 0            |
| 57  | 20    | 1     | 0        | 0        | 0       | 0            |
| 57  | 21    | 1     | 0        | 0        | 0       | 0            |
| 57  | 23    | 4     | 0        | 0        | 0       | 0            |
| 57  | 25    | 5     | 0        | 0        | 0       | 0            |
| 57  | 26    | 1     | 0        | 0        | 0       | 0            |
| 57  | 27    | 1     | 0        | 0        | 0       | 0            |
| 57  | 28    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2A    | 890   | 0        | 0        | 0       | 0            |
| 57  | 2B    | 20    | 0        | 0        | 0       | 0            |
| 57  | 2D    | 7     | 0        | 0        | 0       | 0            |
| 57  | 2E    | 5     | 0        | 0        | 0       | 0            |
| 57  | 2F    | 6     | 0        | 0        | 0       | 0            |
| 57  | 2G    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2N    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2O    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2P    | 1     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 57  | 2Q    | 5     | 0        | 0        | 0       | 0            |
| 57  | 2R    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2T    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2U    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2V    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2W    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2X    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2Z    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2a    | 238   | 0        | 0        | 0       | 0            |
| 57  | 2d    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2e    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2f    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2g    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2j    | 2     | 0        | 0        | 0       | 0            |
| 57  | 2l    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2q    | 3     | 0        | 0        | 0       | 0            |
| 57  | 2r    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2t    | 1     | 0        | 0        | 0       | 0            |
| 57  | 2v    | 4     | 0        | 0        | 0       | 0            |
| 57  | 2w    | 9     | 0        | 0        | 0       | 0            |
| 57  | 2x    | 5     | 0        | 0        | 0       | 0            |
| 57  | 2y    | 6     | 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        | 1       | 0            |
| 61  | 10    | 14    | 0        | 0        | 0       | 0            |
| 61  | 11    | 11    | 0        | 0        | 1       | 0            |
| 61  | 12    | 4     | 0        | 0        | 1       | 0            |
| 61  | 13    | 6     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 61  | 14    | 1     | 0        | 0        | 0       | 0            |
| 61  | 15    | 5     | 0        | 0        | 0       | 0            |
| 61  | 16    | 5     | 0        | 0        | 1       | 0            |
| 61  | 17    | 7     | 0        | 0        | 1       | 0            |
| 61  | 18    | 9     | 0        | 0        | 1       | 0            |
| 61  | 19    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1A    | 2266  | 0        | 0        | 121     | 0            |
| 61  | 1B    | 69    | 0        | 0        | 2       | 0            |
| 61  | 1D    | 25    | 0        | 0        | 3       | 0            |
| 61  | 1E    | 26    | 0        | 0        | 3       | 0            |
| 61  | 1F    | 19    | 0        | 0        | 1       | 0            |
| 61  | 1G    | 7     | 0        | 0        | 0       | 0            |
| 61  | 1H    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1N    | 7     | 0        | 0        | 1       | 0            |
| 61  | 1O    | 6     | 0        | 0        | 1       | 0            |
| 61  | 1P    | 24    | 0        | 0        | 3       | 0            |
| 61  | 1Q    | 9     | 0        | 0        | 0       | 0            |
| 61  | 1R    | 15    | 0        | 0        | 2       | 0            |
| 61  | 1S    | 6     | 0        | 0        | 0       | 0            |
| 61  | 1T    | 8     | 0        | 0        | 0       | 0            |
| 61  | 1U    | 9     | 0        | 0        | 1       | 0            |
| 61  | 1V    | 8     | 0        | 0        | 0       | 0            |
| 61  | 1W    | 6     | 0        | 0        | 1       | 0            |
| 61  | 1X    | 8     | 0        | 0        | 0       | 0            |
| 61  | 1Y    | 4     | 0        | 0        | 1       | 0            |
| 61  | 1Z    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1a    | 410   | 0        | 0        | 36      | 0            |
| 61  | 1b    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1d    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1e    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1i    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1l    | 7     | 0        | 0        | 1       | 0            |
| 61  | 1m    | 3     | 0        | 0        | 0       | 0            |
| 61  | 1o    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1p    | 1     | 0        | 0        | 0       | 0            |
| 61  | 1q    | 2     | 0        | 0        | 0       | 0            |
| 61  | 1u    | 1     | 0        | 0        | 1       | 0            |
| 61  | 1v    | 6     | 0        | 0        | 0       | 0            |
| 61  | 1w    | 21    | 0        | 0        | 3       | 0            |
| 61  | 1x    | 15    | 0        | 0        | 1       | 0            |
| 61  | 1y    | 2     | 0        | 0        | 0       | 0            |
| 61  | 20    | 3     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H  | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 61  | 21    | 12     | 0        | 0        | 1       | 0            |
| 61  | 22    | 2      | 0        | 0        | 0       | 0            |
| 61  | 23    | 2      | 0        | 0        | 0       | 0            |
| 61  | 25    | 6      | 0        | 0        | 1       | 0            |
| 61  | 27    | 3      | 0        | 0        | 0       | 0            |
| 61  | 28    | 6      | 0        | 0        | 0       | 0            |
| 61  | 29    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2A    | 1381   | 0        | 0        | 112     | 0            |
| 61  | 2B    | 24     | 0        | 0        | 1       | 0            |
| 61  | 2D    | 25     | 0        | 0        | 2       | 0            |
| 61  | 2E    | 16     | 0        | 0        | 1       | 0            |
| 61  | 2F    | 13     | 0        | 0        | 0       | 0            |
| 61  | 2I    | 2      | 0        | 0        | 0       | 0            |
| 61  | 2N    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2O    | 2      | 0        | 0        | 0       | 0            |
| 61  | 2P    | 16     | 0        | 0        | 2       | 0            |
| 61  | 2Q    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2R    | 3      | 0        | 0        | 1       | 0            |
| 61  | 2T    | 4      | 0        | 0        | 0       | 0            |
| 61  | 2U    | 4      | 0        | 0        | 0       | 0            |
| 61  | 2V    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2W    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2X    | 5      | 0        | 0        | 2       | 0            |
| 61  | 2Y    | 1      | 0        | 0        | 1       | 0            |
| 61  | 2Z    | 2      | 0        | 0        | 0       | 0            |
| 61  | 2a    | 366    | 0        | 0        | 32      | 0            |
| 61  | 2d    | 3      | 0        | 0        | 1       | 0            |
| 61  | 2e    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2g    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2i    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2j    | 4      | 0        | 0        | 0       | 0            |
| 61  | 2l    | 6      | 0        | 0        | 0       | 0            |
| 61  | 2o    | 2      | 0        | 0        | 1       | 0            |
| 61  | 2p    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2q    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2r    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2t    | 3      | 0        | 0        | 0       | 0            |
| 61  | 2v    | 2      | 0        | 0        | 0       | 0            |
| 61  | 2w    | 1      | 0        | 0        | 0       | 0            |
| 61  | 2x    | 9      | 0        | 0        | 1       | 0            |
| 61  | 2y    | 20     | 0        | 0        | 1       | 0            |
| All | All   | 300906 | 0        | 196730   | 5767    | 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 12.

The worst 5 of 5767 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 | 1.21                     | 1.35              |
| 1:1A:1054:A:N6 | 1:1A:1105:U:H3 | 1.36                     | 1.22              |
| 1:1A:1082:U:O4 | 1:1A:1086:A:N1 | 1.86                     | 1.06              |
| 1:1A:2128:C:N4 | 1:1A:2160:G:H1 | 1.54                     | 1.05              |
| 1:2A:2138:C:N4 | 1:2A:2153:G:H1 | 1.60                     | 1.00              |

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%) | 261 (96%) | 12 (4%)  | 0        | 100         | 100 |
| 3   | 2D    | 273/276 (99%) | 254 (93%) | 18 (7%)  | 1 (0%)   | 30          | 43  |
| 4   | 1E    | 202/206 (98%) | 191 (95%) | 8 (4%)   | 3 (2%)   | 8           | 12  |
| 4   | 2E    | 202/206 (98%) | 189 (94%) | 11 (5%)  | 2 (1%)   | 12          | 20  |
| 5   | 1F    | 201/210 (96%) | 193 (96%) | 7 (4%)   | 1 (0%)   | 24          | 37  |
| 5   | 2F    | 201/210 (96%) | 179 (89%) | 20 (10%) | 2 (1%)   | 12          | 20  |
| 6   | 1G    | 179/182 (98%) | 165 (92%) | 14 (8%)  | 0        | 100         | 100 |
| 6   | 2G    | 179/182 (98%) | 158 (88%) | 15 (8%)  | 6 (3%)   | 3           | 2   |
| 7   | 1H    | 172/180 (96%) | 164 (95%) | 7 (4%)   | 1 (1%)   | 21          | 32  |
| 7   | 2H    | 172/180 (96%) | 151 (88%) | 17 (10%) | 4 (2%)   | 5           | 6   |
| 8   | 1I    | 144/148 (97%) | 123 (85%) | 20 (14%) | 1 (1%)   | 18          | 28  |
| 8   | 2I    | 144/148 (97%) | 121 (84%) | 22 (15%) | 1 (1%)   | 18          | 28  |

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| Mol | Chain | Analysed      | Favoured   | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|------------|----------|----------|-------------|-----|
| 9   | 1N    | 138/140 (99%) | 136 (99%)  | 1 (1%)   | 1 (1%)   | 18          | 28  |
| 9   | 2N    | 138/140 (99%) | 132 (96%)  | 5 (4%)   | 1 (1%)   | 18          | 28  |
| 10  | 1O    | 120/122 (98%) | 111 (92%)  | 8 (7%)   | 1 (1%)   | 16          | 25  |
| 10  | 2O    | 120/122 (98%) | 109 (91%)  | 11 (9%)  | 0        | 100         | 100 |
| 11  | 1P    | 147/150 (98%) | 133 (90%)  | 14 (10%) | 0        | 100         | 100 |
| 11  | 2P    | 147/150 (98%) | 130 (88%)  | 14 (10%) | 3 (2%)   | 6           | 7   |
| 12  | 1Q    | 139/141 (99%) | 133 (96%)  | 6 (4%)   | 0        | 100         | 100 |
| 12  | 2Q    | 139/141 (99%) | 119 (86%)  | 19 (14%) | 1 (1%)   | 18          | 28  |
| 13  | 1R    | 116/118 (98%) | 111 (96%)  | 5 (4%)   | 0        | 100         | 100 |
| 13  | 2R    | 116/118 (98%) | 108 (93%)  | 8 (7%)   | 0        | 100         | 100 |
| 14  | 1S    | 108/112 (96%) | 104 (96%)  | 4 (4%)   | 0        | 100         | 100 |
| 14  | 2S    | 108/112 (96%) | 99 (92%)   | 8 (7%)   | 1 (1%)   | 14          | 22  |
| 15  | 1T    | 129/146 (88%) | 118 (92%)  | 10 (8%)  | 1 (1%)   | 16          | 25  |
| 15  | 2T    | 129/146 (88%) | 118 (92%)  | 10 (8%)  | 1 (1%)   | 16          | 25  |
| 16  | 1U    | 114/118 (97%) | 114 (100%) | 0        | 0        | 100         | 100 |
| 16  | 2U    | 114/118 (97%) | 111 (97%)  | 3 (3%)   | 0        | 100         | 100 |
| 17  | 1V    | 99/101 (98%)  | 96 (97%)   | 2 (2%)   | 1 (1%)   | 12          | 20  |
| 17  | 2V    | 99/101 (98%)  | 94 (95%)   | 4 (4%)   | 1 (1%)   | 12          | 20  |
| 18  | 1W    | 110/113 (97%) | 110 (100%) | 0        | 0        | 100         | 100 |
| 18  | 2W    | 110/113 (97%) | 107 (97%)  | 3 (3%)   | 0        | 100         | 100 |
| 19  | 1X    | 93/96 (97%)   | 90 (97%)   | 2 (2%)   | 1 (1%)   | 11          | 18  |
| 19  | 2X    | 93/96 (97%)   | 85 (91%)   | 7 (8%)   | 1 (1%)   | 11          | 18  |
| 20  | 1Y    | 105/110 (96%) | 99 (94%)   | 5 (5%)   | 1 (1%)   | 12          | 20  |
| 20  | 2Y    | 105/110 (96%) | 94 (90%)   | 9 (9%)   | 2 (2%)   | 6           | 8   |
| 21  | 1Z    | 148/206 (72%) | 125 (84%)  | 22 (15%) | 1 (1%)   | 18          | 28  |
| 21  | 2Z    | 156/206 (76%) | 133 (85%)  | 20 (13%) | 3 (2%)   | 6           | 8   |
| 22  | 10    | 81/85 (95%)   | 78 (96%)   | 3 (4%)   | 0        | 100         | 100 |
| 22  | 20    | 81/85 (95%)   | 77 (95%)   | 4 (5%)   | 0        | 100         | 100 |
| 23  | 11    | 95/98 (97%)   | 90 (95%)   | 3 (3%)   | 2 (2%)   | 5           | 7   |
| 23  | 21    | 95/98 (97%)   | 91 (96%)   | 3 (3%)   | 1 (1%)   | 11          | 18  |
| 24  | 12    | 68/72 (94%)   | 68 (100%)  | 0        | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 24  | 22    | 68/72 (94%)   | 67 (98%)  | 1 (2%)   | 0        | 100         | 100 |
| 25  | 13    | 57/60 (95%)   | 54 (95%)  | 3 (5%)   | 0        | 100         | 100 |
| 25  | 23    | 57/60 (95%)   | 53 (93%)  | 4 (7%)   | 0        | 100         | 100 |
| 26  | 14    | 67/71 (94%)   | 50 (75%)  | 12 (18%) | 5 (8%)   | 1           | 0   |
| 26  | 24    | 67/71 (94%)   | 53 (79%)  | 13 (19%) | 1 (2%)   | 8           | 12  |
| 27  | 15    | 57/60 (95%)   | 56 (98%)  | 1 (2%)   | 0        | 100         | 100 |
| 27  | 25    | 57/60 (95%)   | 54 (95%)  | 3 (5%)   | 0        | 100         | 100 |
| 28  | 16    | 51/54 (94%)   | 51 (100%) | 0        | 0        | 100         | 100 |
| 28  | 26    | 51/54 (94%)   | 48 (94%)  | 3 (6%)   | 0        | 100         | 100 |
| 29  | 17    | 46/49 (94%)   | 44 (96%)  | 2 (4%)   | 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%)   | 62 (100%) | 0        | 0        | 100         | 100 |
| 31  | 19    | 35/37 (95%)   | 35 (100%) | 0        | 0        | 100         | 100 |
| 31  | 29    | 35/37 (95%)   | 34 (97%)  | 1 (3%)   | 0        | 100         | 100 |
| 33  | 1b    | 229/256 (90%) | 187 (82%) | 38 (17%) | 4 (2%)   | 7           | 10  |
| 33  | 2b    | 229/256 (90%) | 187 (82%) | 31 (14%) | 11 (5%)  | 2           | 1   |
| 34  | 1c    | 204/239 (85%) | 191 (94%) | 12 (6%)  | 1 (0%)   | 24          | 37  |
| 34  | 2c    | 204/239 (85%) | 176 (86%) | 26 (13%) | 2 (1%)   | 12          | 20  |
| 35  | 1d    | 206/209 (99%) | 190 (92%) | 14 (7%)  | 2 (1%)   | 12          | 20  |
| 35  | 2d    | 206/209 (99%) | 188 (91%) | 15 (7%)  | 3 (2%)   | 8           | 12  |
| 36  | 1e    | 146/162 (90%) | 134 (92%) | 10 (7%)  | 2 (1%)   | 9           | 13  |
| 36  | 2e    | 146/162 (90%) | 130 (89%) | 14 (10%) | 2 (1%)   | 9           | 13  |
| 37  | 1f    | 98/101 (97%)  | 93 (95%)  | 4 (4%)   | 1 (1%)   | 12          | 20  |
| 37  | 2f    | 98/101 (97%)  | 93 (95%)  | 5 (5%)   | 0        | 100         | 100 |
| 38  | 1g    | 153/156 (98%) | 137 (90%) | 14 (9%)  | 2 (1%)   | 9           | 14  |
| 38  | 2g    | 153/156 (98%) | 133 (87%) | 17 (11%) | 3 (2%)   | 6           | 7   |
| 39  | 1h    | 135/138 (98%) | 128 (95%) | 7 (5%)   | 0        | 100         | 100 |
| 39  | 2h    | 135/138 (98%) | 126 (93%) | 8 (6%)   | 1 (1%)   | 18          | 28  |
| 40  | 1i    | 125/128 (98%) | 111 (89%) | 13 (10%) | 1 (1%)   | 16          | 25  |
| 40  | 2i    | 125/128 (98%) | 98 (78%)  | 25 (20%) | 2 (2%)   | 7           | 11  |

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| Mol | Chain | Analysed          | Favoured    | Allowed  | Outliers | Percentiles |     |
|-----|-------|-------------------|-------------|----------|----------|-------------|-----|
| 41  | 1j    | 95/105 (90%)      | 81 (85%)    | 11 (12%) | 3 (3%)   | 3           | 3   |
| 41  | 2j    | 94/105 (90%)      | 80 (85%)    | 9 (10%)  | 5 (5%)   | 1           | 1   |
| 42  | 1k    | 112/129 (87%)     | 103 (92%)   | 7 (6%)   | 2 (2%)   | 6           | 9   |
| 42  | 2k    | 112/129 (87%)     | 98 (88%)    | 10 (9%)  | 4 (4%)   | 2           | 2   |
| 43  | 1l    | 119/132 (90%)     | 110 (92%)   | 9 (8%)   | 0        | 100         | 100 |
| 43  | 2l    | 119/132 (90%)     | 107 (90%)   | 10 (8%)  | 2 (2%)   | 7           | 10  |
| 44  | 1m    | 121/126 (96%)     | 109 (90%)   | 11 (9%)  | 1 (1%)   | 16          | 25  |
| 44  | 2m    | 120/126 (95%)     | 100 (83%)   | 17 (14%) | 3 (2%)   | 4           | 5   |
| 45  | 1n    | 58/61 (95%)       | 54 (93%)    | 4 (7%)   | 0        | 100         | 100 |
| 45  | 2n    | 58/61 (95%)       | 47 (81%)    | 10 (17%) | 1 (2%)   | 7           | 10  |
| 46  | 1o    | 86/89 (97%)       | 81 (94%)    | 4 (5%)   | 1 (1%)   | 10          | 16  |
| 46  | 2o    | 86/89 (97%)       | 79 (92%)    | 6 (7%)   | 1 (1%)   | 10          | 16  |
| 47  | 1p    | 80/88 (91%)       | 75 (94%)    | 5 (6%)   | 0        | 100         | 100 |
| 47  | 2p    | 80/88 (91%)       | 77 (96%)    | 3 (4%)   | 0        | 100         | 100 |
| 48  | 1q    | 97/105 (92%)      | 91 (94%)    | 4 (4%)   | 2 (2%)   | 5           | 7   |
| 48  | 2q    | 97/105 (92%)      | 86 (89%)    | 8 (8%)   | 3 (3%)   | 3           | 3   |
| 49  | 1r    | 66/88 (75%)       | 59 (89%)    | 5 (8%)   | 2 (3%)   | 3           | 3   |
| 49  | 2r    | 66/88 (75%)       | 62 (94%)    | 4 (6%)   | 0        | 100         | 100 |
| 50  | 1s    | 81/93 (87%)       | 72 (89%)    | 9 (11%)  | 0        | 100         | 100 |
| 50  | 2s    | 81/93 (87%)       | 62 (76%)    | 18 (22%) | 1 (1%)   | 10          | 16  |
| 51  | 1t    | 94/106 (89%)      | 84 (89%)    | 6 (6%)   | 4 (4%)   | 2           | 1   |
| 51  | 2t    | 94/106 (89%)      | 82 (87%)    | 9 (10%)  | 3 (3%)   | 3           | 3   |
| 52  | 1u    | 21/27 (78%)       | 21 (100%)   | 0        | 0        | 100         | 100 |
| 52  | 2u    | 21/27 (78%)       | 19 (90%)    | 2 (10%)  | 0        | 100         | 100 |
| All | All   | 11370/12128 (94%) | 10382 (91%) | 861 (8%) | 127 (1%) | 11          | 18  |

5 of 127 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 4   | 1E    | 71  | GLY  |
| 5   | 1F    | 130 | ALA  |
| 7   | 1H    | 126 | PRO  |
| 26  | 14    | 62  | ARG  |
| 33  | 1b    | 17  | PHE  |

### 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%)  | 205 (95%) | 10 (5%)  | 23          | 41 |
| 3   | 2D    | 215/218 (99%)  | 203 (94%) | 12 (6%)  | 19          | 33 |
| 4   | 1E    | 164/166 (99%)  | 152 (93%) | 12 (7%)  | 13          | 22 |
| 4   | 2E    | 164/166 (99%)  | 147 (90%) | 17 (10%) | 7           | 10 |
| 5   | 1F    | 160/166 (96%)  | 148 (92%) | 12 (8%)  | 12          | 21 |
| 5   | 2F    | 159/166 (96%)  | 141 (89%) | 18 (11%) | 5           | 8  |
| 6   | 1G    | 143/156 (92%)  | 130 (91%) | 13 (9%)  | 9           | 14 |
| 6   | 2G    | 143/156 (92%)  | 124 (87%) | 19 (13%) | 4           | 5  |
| 7   | 1H    | 144/148 (97%)  | 136 (94%) | 8 (6%)   | 19          | 33 |
| 7   | 2H    | 144/148 (97%)  | 135 (94%) | 9 (6%)   | 16          | 29 |
| 8   | 1I    | 113/124 (91%)  | 96 (85%)  | 17 (15%) | 3           | 3  |
| 8   | 2I    | 105/124 (85%)  | 81 (77%)  | 24 (23%) | 1           | 1  |
| 9   | 1N    | 118/119 (99%)  | 109 (92%) | 9 (8%)   | 12          | 21 |
| 9   | 2N    | 118/119 (99%)  | 106 (90%) | 12 (10%) | 7           | 11 |
| 10  | 1O    | 100/100 (100%) | 95 (95%)  | 5 (5%)   | 22          | 38 |
| 10  | 2O    | 100/100 (100%) | 93 (93%)  | 7 (7%)   | 14          | 24 |
| 11  | 1P    | 115/116 (99%)  | 102 (89%) | 13 (11%) | 5           | 8  |
| 11  | 2P    | 115/116 (99%)  | 100 (87%) | 15 (13%) | 4           | 5  |
| 12  | 1Q    | 111/111 (100%) | 103 (93%) | 8 (7%)   | 13          | 23 |
| 12  | 2Q    | 111/111 (100%) | 105 (95%) | 6 (5%)   | 20          | 35 |
| 13  | 1R    | 101/101 (100%) | 90 (89%)  | 11 (11%) | 6           | 9  |
| 13  | 2R    | 101/101 (100%) | 94 (93%)  | 7 (7%)   | 14          | 24 |
| 14  | 1S    | 86/88 (98%)    | 75 (87%)  | 11 (13%) | 4           | 6  |
| 14  | 2S    | 85/88 (97%)    | 70 (82%)  | 15 (18%) | 2           | 2  |
| 15  | 1T    | 115/127 (91%)  | 108 (94%) | 7 (6%)   | 17          | 30 |
| 15  | 2T    | 113/127 (89%)  | 102 (90%) | 11 (10%) | 8           | 12 |

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| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|-------------|-----|
| 16  | 1U    | 93/94 (99%)   | 87 (94%)  | 6 (6%)   | 15          | 27  |
| 16  | 2U    | 93/94 (99%)   | 87 (94%)  | 6 (6%)   | 15          | 27  |
| 17  | 1V    | 80/82 (98%)   | 72 (90%)  | 8 (10%)  | 7           | 11  |
| 17  | 2V    | 80/82 (98%)   | 69 (86%)  | 11 (14%) | 3           | 4   |
| 18  | 1W    | 90/92 (98%)   | 84 (93%)  | 6 (7%)   | 15          | 26  |
| 18  | 2W    | 90/92 (98%)   | 83 (92%)  | 7 (8%)   | 11          | 20  |
| 19  | 1X    | 77/78 (99%)   | 70 (91%)  | 7 (9%)   | 9           | 14  |
| 19  | 2X    | 77/78 (99%)   | 73 (95%)  | 4 (5%)   | 21          | 36  |
| 20  | 1Y    | 85/91 (93%)   | 74 (87%)  | 11 (13%) | 4           | 6   |
| 20  | 2Y    | 85/91 (93%)   | 76 (89%)  | 9 (11%)  | 6           | 10  |
| 21  | 1Z    | 135/179 (75%) | 122 (90%) | 13 (10%) | 8           | 12  |
| 21  | 2Z    | 137/179 (76%) | 115 (84%) | 22 (16%) | 2           | 3   |
| 22  | 10    | 65/67 (97%)   | 65 (100%) | 0        | 100         | 100 |
| 22  | 20    | 65/67 (97%)   | 65 (100%) | 0        | 100         | 100 |
| 23  | 11    | 80/83 (96%)   | 78 (98%)  | 2 (2%)   | 42          | 64  |
| 23  | 21    | 80/83 (96%)   | 73 (91%)  | 7 (9%)   | 9           | 15  |
| 24  | 12    | 65/67 (97%)   | 61 (94%)  | 4 (6%)   | 16          | 29  |
| 24  | 22    | 65/67 (97%)   | 60 (92%)  | 5 (8%)   | 12          | 20  |
| 25  | 13    | 51/52 (98%)   | 46 (90%)  | 5 (10%)  | 7           | 12  |
| 25  | 23    | 50/52 (96%)   | 44 (88%)  | 6 (12%)  | 5           | 7   |
| 26  | 14    | 59/63 (94%)   | 48 (81%)  | 11 (19%) | 1           | 2   |
| 26  | 24    | 53/63 (84%)   | 44 (83%)  | 9 (17%)  | 2           | 2   |
| 27  | 15    | 50/52 (96%)   | 43 (86%)  | 7 (14%)  | 3           | 4   |
| 27  | 25    | 50/52 (96%)   | 46 (92%)  | 4 (8%)   | 11          | 19  |
| 28  | 16    | 51/52 (98%)   | 47 (92%)  | 4 (8%)   | 11          | 20  |
| 28  | 26    | 50/52 (96%)   | 44 (88%)  | 6 (12%)  | 5           | 7   |
| 29  | 17    | 41/42 (98%)   | 37 (90%)  | 4 (10%)  | 7           | 12  |
| 29  | 27    | 41/42 (98%)   | 39 (95%)  | 2 (5%)   | 22          | 39  |
| 30  | 18    | 54/55 (98%)   | 49 (91%)  | 5 (9%)   | 8           | 14  |
| 30  | 28    | 54/55 (98%)   | 49 (91%)  | 5 (9%)   | 8           | 14  |
| 31  | 19    | 34/34 (100%)  | 32 (94%)  | 2 (6%)   | 18          | 31  |

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| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|----------|-------------|----|
| 31  | 29    | 34/34 (100%)  | 33 (97%)  | 1 (3%)   | 37          | 60 |
| 33  | 1b    | 192/220 (87%) | 172 (90%) | 20 (10%) | 7           | 10 |
| 33  | 2b    | 187/220 (85%) | 159 (85%) | 28 (15%) | 3           | 3  |
| 34  | 1c    | 142/188 (76%) | 127 (89%) | 15 (11%) | 6           | 10 |
| 34  | 2c    | 140/188 (74%) | 128 (91%) | 12 (9%)  | 10          | 16 |
| 35  | 1d    | 169/181 (93%) | 145 (86%) | 24 (14%) | 3           | 4  |
| 35  | 2d    | 173/181 (96%) | 153 (88%) | 20 (12%) | 5           | 8  |
| 36  | 1e    | 113/123 (92%) | 98 (87%)  | 15 (13%) | 4           | 5  |
| 36  | 2e    | 114/123 (93%) | 100 (88%) | 14 (12%) | 4           | 6  |
| 37  | 1f    | 84/90 (93%)   | 77 (92%)  | 7 (8%)   | 10          | 17 |
| 37  | 2f    | 85/90 (94%)   | 77 (91%)  | 8 (9%)   | 8           | 13 |
| 38  | 1g    | 119/127 (94%) | 104 (87%) | 15 (13%) | 4           | 6  |
| 38  | 2g    | 120/127 (94%) | 106 (88%) | 14 (12%) | 5           | 7  |
| 39  | 1h    | 114/119 (96%) | 107 (94%) | 7 (6%)   | 17          | 30 |
| 39  | 2h    | 114/119 (96%) | 101 (89%) | 13 (11%) | 5           | 8  |
| 40  | 1i    | 90/99 (91%)   | 80 (89%)  | 10 (11%) | 6           | 9  |
| 40  | 2i    | 89/99 (90%)   | 74 (83%)  | 15 (17%) | 2           | 3  |
| 41  | 1j    | 66/92 (72%)   | 62 (94%)  | 4 (6%)   | 17          | 30 |
| 41  | 2j    | 69/92 (75%)   | 63 (91%)  | 6 (9%)   | 9           | 16 |
| 42  | 1k    | 82/99 (83%)   | 74 (90%)  | 8 (10%)  | 7           | 12 |
| 42  | 2k    | 83/99 (84%)   | 79 (95%)  | 4 (5%)   | 23          | 40 |
| 43  | 1l    | 96/108 (89%)  | 90 (94%)  | 6 (6%)   | 16          | 29 |
| 43  | 2l    | 96/108 (89%)  | 89 (93%)  | 7 (7%)   | 13          | 22 |
| 44  | 1m    | 93/101 (92%)  | 83 (89%)  | 10 (11%) | 6           | 9  |
| 44  | 2m    | 92/101 (91%)  | 83 (90%)  | 9 (10%)  | 7           | 12 |
| 45  | 1n    | 49/50 (98%)   | 42 (86%)  | 7 (14%)  | 3           | 4  |
| 45  | 2n    | 49/50 (98%)   | 43 (88%)  | 6 (12%)  | 5           | 7  |
| 46  | 1o    | 78/80 (98%)   | 68 (87%)  | 10 (13%) | 4           | 6  |
| 46  | 2o    | 78/80 (98%)   | 75 (96%)  | 3 (4%)   | 29          | 49 |
| 47  | 1p    | 69/74 (93%)   | 57 (83%)  | 12 (17%) | 2           | 2  |
| 47  | 2p    | 68/74 (92%)   | 56 (82%)  | 12 (18%) | 2           | 2  |

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| Mol | Chain | Analysed         | Rotameric  | Outliers  | Percentiles |     |
|-----|-------|------------------|------------|-----------|-------------|-----|
| 48  | 1q    | 94/97 (97%)      | 90 (96%)   | 4 (4%)    | 26          | 44  |
| 48  | 2q    | 94/97 (97%)      | 90 (96%)   | 4 (4%)    | 26          | 44  |
| 49  | 1r    | 59/77 (77%)      | 51 (86%)   | 8 (14%)   | 3           | 5   |
| 49  | 2r    | 59/77 (77%)      | 57 (97%)   | 2 (3%)    | 32          | 54  |
| 50  | 1s    | 69/80 (86%)      | 63 (91%)   | 6 (9%)    | 9           | 16  |
| 50  | 2s    | 67/80 (84%)      | 60 (90%)   | 7 (10%)   | 7           | 10  |
| 51  | 1t    | 70/82 (85%)      | 65 (93%)   | 5 (7%)    | 13          | 23  |
| 51  | 2t    | 70/82 (85%)      | 68 (97%)   | 2 (3%)    | 37          | 60  |
| 52  | 1u    | 18/22 (82%)      | 17 (94%)   | 1 (6%)    | 19          | 33  |
| 52  | 2u    | 18/22 (82%)      | 18 (100%)  | 0         | 100         | 100 |
| All | All   | 9303/10064 (92%) | 8416 (90%) | 887 (10%) | 8           | 13  |

5 of 887 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 5   | 2F    | 144 | LYS  |
| 51  | 2t    | 71  | THR  |
| 14  | 2S    | 15  | ARG  |
| 49  | 2r    | 44  | LEU  |
| 39  | 2h    | 22  | GLU  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 138 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 36  | 2e    | 20  | GLN  |
| 37  | 2f    | 100 | ASN  |
| 47  | 2p    | 13  | HIS  |
| 38  | 1g    | 28  | ASN  |
| 38  | 1g    | 13  | GLN  |

### 5.3.3 RNA ⓘ

| Mol | Chain | Analysed        | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1   | 1A    | 2864/2915 (98%) | 476 (16%)         | 34 (1%)         |
| 1   | 2A    | 2791/2915 (95%) | 501 (17%)         | 25 (0%)         |
| 2   | 1B    | 119/121 (98%)   | 8 (6%)            | 0               |

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| Mol | Chain | Analysed        | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 2   | 2B    | 118/121 (97%)   | 28 (23%)          | 0               |
| 32  | 1a    | 1497/1521 (98%) | 265 (17%)         | 0               |
| 32  | 2a    | 1501/1521 (98%) | 290 (19%)         | 0               |
| 53  | 1v    | 12/24 (50%)     | 1 (8%)            | 0               |
| 53  | 2v    | 12/24 (50%)     | 1 (8%)            | 0               |
| 54  | 1w    | 71/76 (93%)     | 23 (32%)          | 0               |
| 54  | 2w    | 68/76 (89%)     | 25 (36%)          | 0               |
| 55  | 1x    | 74/77 (96%)     | 10 (13%)          | 0               |
| 55  | 2x    | 74/77 (96%)     | 7 (9%)            | 0               |
| 56  | 1y    | 72/76 (94%)     | 26 (36%)          | 0               |
| 56  | 2y    | 70/76 (92%)     | 26 (37%)          | 0               |
| All | All   | 9343/9620 (97%) | 1687 (18%)        | 59 (0%)         |

5 of 1687 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | 1A    | 10  | G    |
| 1   | 1A    | 12  | U    |
| 1   | 1A    | 14  | A    |
| 1   | 1A    | 34  | C    |
| 1   | 1A    | 45  | C    |

5 of 59 RNA pucker outliers are listed below:

| Mol | Chain | Res  | Type |
|-----|-------|------|------|
| 1   | 1A    | 2406 | U    |
| 1   | 2A    | 2119 | A    |
| 1   | 2A    | 266  | G    |
| 1   | 2A    | 1992 | G    |
| 1   | 2A    | 1442 | G    |

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

90 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 |
| 32  | 4OC  | 2a    | 1402 | 32      | 20,23,24     | 0.76 | 0        | 25,32,35    | 1.08 | 3 (12%)  |
| 32  | 7MG  | 2a    | 527  | 32,57   | 23,26,27     | 1.28 | 3 (13%)  | 27,39,42    | 2.62 | 7 (25%)  |
| 55  | 5MC  | 2x    | 32   | 55      | 19,22,23     | 1.69 | 3 (15%)  | 26,32,35    | 1.27 | 4 (15%)  |
| 1   | OMG  | 1A    | 2251 | 55,57,1 | 23,26,27     | 1.31 | 3 (13%)  | 32,38,41    | 1.92 | 7 (21%)  |
| 54  | PSU  | 1w    | 55   | 54      | 18,21,22     | 1.35 | 2 (11%)  | 21,30,33    | 2.10 | 3 (14%)  |
| 56  | PSU  | 2y    | 39   | 56      | 18,21,22     | 1.34 | 2 (11%)  | 21,30,33    | 1.99 | 4 (19%)  |
| 43  | 0TD  | 1l    | 92   | 43      | 8,9,10       | 4.55 | 1 (12%)  | 6,11,13     | 9.51 | 3 (50%)  |
| 55  | PSU  | 1x    | 55   | 55      | 18,21,22     | 1.38 | 2 (11%)  | 21,30,33    | 1.96 | 3 (14%)  |
| 32  | 5MC  | 2a    | 1404 | 32      | 19,22,23     | 1.60 | 3 (15%)  | 26,32,35    | 1.17 | 3 (11%)  |
| 56  | 5MU  | 1y    | 54   | 56      | 19,22,23     | 1.49 | 5 (26%)  | 27,32,35    | 1.84 | 5 (18%)  |
| 54  | 5MU  | 2w    | 54   | 54      | 19,22,23     | 1.36 | 3 (15%)  | 27,32,35    | 1.94 | 6 (22%)  |
| 55  | 5MU  | 1x    | 54   | 55      | 19,22,23     | 1.36 | 4 (21%)  | 27,32,35    | 1.96 | 6 (22%)  |
| 54  | 7MG  | 1w    | 46   | 54      | 23,26,27     | 1.43 | 4 (17%)  | 27,39,42    | 2.53 | 7 (25%)  |
| 56  | 4SU  | 1y    | 8    | 56      | 18,21,22     | 1.76 | 5 (27%)  | 25,30,33    | 1.90 | 5 (20%)  |
| 1   | 2MA  | 1A    | 2503 | 57,1    | 22,25,26     | 1.44 | 4 (18%)  | 32,37,40    | 2.32 | 9 (28%)  |
| 56  | 4SU  | 2y    | 8    | 56      | 18,21,22     | 1.87 | 5 (27%)  | 25,30,33    | 1.99 | 5 (20%)  |
| 32  | 5MC  | 1a    | 1400 | 32      | 19,22,23     | 1.72 | 3 (15%)  | 26,32,35    | 1.12 | 3 (11%)  |
| 54  | 7MG  | 2w    | 46   | 54      | 23,26,27     | 1.33 | 3 (13%)  | 27,39,42    | 2.60 | 7 (25%)  |
| 32  | MA6  | 1a    | 1519 | 32      | 23,26,27     | 0.47 | 0        | 33,38,41    | 2.12 | 9 (27%)  |
| 32  | 5MC  | 1a    | 1407 | 32      | 19,22,23     | 1.62 | 2 (10%)  | 26,32,35    | 1.20 | 3 (11%)  |
| 32  | MA6  | 1a    | 1518 | 32      | 23,26,27     | 0.42 | 0        | 33,38,41    | 1.93 | 8 (24%)  |
| 32  | 7MG  | 1a    | 527  | 32      | 23,26,27     | 1.38 | 3 (13%)  | 27,39,42    | 2.55 | 7 (25%)  |
| 56  | MIA  | 1y    | 37   | 56      | 21,24,32     | 1.59 | 4 (19%)  | 30,35,47    | 2.07 | 7 (23%)  |
| 43  | 0TD  | 2l    | 92   | 43      | 8,9,10       | 4.51 | 1 (12%)  | 6,11,13     | 8.69 | 3 (50%)  |
| 32  | 2MG  | 1a    | 1207 | 32      | 23,26,27     | 1.24 | 3 (13%)  | 33,38,41    | 2.21 | 9 (27%)  |
| 1   | 2MA  | 2A    | 2503 | 57,1    | 22,25,26     | 1.51 | 5 (22%)  | 32,37,40    | 2.32 | 8 (25%)  |
| 55  | 31H  | 2x    | 76   | 57,55   | 31,34,35     | 1.18 | 3 (9%)   | 35,47,50    | 2.09 | 11 (31%) |
| 1   | PSU  | 2A    | 2605 | 1       | 18,21,22     | 1.46 | 3 (16%)  | 21,30,33    | 2.00 | 5 (23%)  |
| 56  | PSU  | 2y    | 32   | 56      | 18,21,22     | 1.39 | 2 (11%)  | 21,30,33    | 1.90 | 4 (19%)  |
| 1   | 5MC  | 2A    | 1942 | 1       | 19,22,23     | 1.75 | 3 (15%)  | 26,32,35    | 1.19 | 3 (11%)  |
| 32  | UR3  | 2a    | 1498 | 32      | 19,22,23     | 1.06 | 2 (10%)  | 26,32,35    | 1.81 | 3 (11%)  |
| 54  | 4SU  | 2w    | 8    | 54      | 18,21,22     | 1.68 | 4 (22%)  | 25,30,33    | 2.59 | 5 (20%)  |
| 54  | PSU  | 2w    | 32   | 54      | 18,21,22     | 1.35 | 2 (11%)  | 21,30,33    | 1.82 | 3 (14%)  |
| 55  | 4SU  | 1x    | 8    | 55      | 18,21,22     | 2.15 | 4 (22%)  | 25,30,33    | 1.54 | 5 (20%)  |
| 1   | PSU  | 2A    | 1917 | 1       | 18,21,22     | 1.38 | 2 (11%)  | 21,30,33    | 2.03 | 4 (19%)  |

| Mol | Type | Chain | Res  | Link    | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|---------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |         | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 56  | 5MU  | 2y    | 54   | 56      | 19,22,23     | 1.47 | 4 (21%)  | 27,32,35    | 2.12 | 5 (18%)  |
| 32  | 5MC  | 2a    | 1407 | 32      | 19,22,23     | 1.55 | 3 (15%)  | 26,32,35    | 1.12 | 3 (11%)  |
| 56  | PSU  | 1y    | 32   | 56      | 18,21,22     | 1.34 | 2 (11%)  | 21,30,33    | 1.91 | 3 (14%)  |
| 54  | 4SU  | 1w    | 8    | 54      | 18,21,22     | 1.85 | 5 (27%)  | 25,30,33    | 1.89 | 5 (20%)  |
| 56  | MIA  | 2y    | 37   | 56      | 21,24,32     | 1.67 | 3 (14%)  | 30,35,47    | 2.04 | 8 (26%)  |
| 32  | MA6  | 2a    | 1518 | 32      | 23,26,27     | 0.43 | 0        | 33,38,41    | 2.06 | 10 (30%) |
| 32  | 5MC  | 1a    | 1404 | 32      | 19,22,23     | 1.79 | 3 (15%)  | 26,32,35    | 1.08 | 2 (7%)   |
| 32  | 5MC  | 1a    | 967  | 32      | 19,22,23     | 1.58 | 3 (15%)  | 26,32,35    | 1.15 | 3 (11%)  |
| 54  | F3N  | 2w    | 76   | 1,54    | 33,36,37     | 1.49 | 5 (15%)  | 41,51,54    | 1.75 | 10 (24%) |
| 1   | 2MU  | 2A    | 2552 | 57,1    | 19,22,24     | 1.30 | 3 (15%)  | 25,31,36    | 1.93 | 6 (24%)  |
| 32  | M2G  | 2a    | 966  | 32      | 24,27,28     | 1.32 | 4 (16%)  | 33,40,43    | 1.85 | 6 (18%)  |
| 54  | PSU  | 2w    | 39   | 54      | 18,21,22     | 1.45 | 2 (11%)  | 21,30,33    | 1.68 | 4 (19%)  |
| 1   | MA6  | 1A    | 2058 | 57,1    | 23,26,27     | 0.41 | 0        | 33,38,41    | 2.18 | 9 (27%)  |
| 56  | 7MG  | 1y    | 46   | 56      | 23,26,27     | 1.40 | 3 (13%)  | 27,39,42    | 2.69 | 6 (22%)  |
| 1   | 2MU  | 1A    | 2552 | 57,1    | 19,22,24     | 1.24 | 3 (15%)  | 25,31,36    | 1.91 | 7 (28%)  |
| 1   | OMG  | 2A    | 2251 | 55,57,1 | 23,26,27     | 1.23 | 4 (17%)  | 32,38,41    | 1.87 | 6 (18%)  |
| 54  | MIA  | 1w    | 37   | 54      | 28,31,32     | 2.44 | 7 (25%)  | 38,44,47    | 2.71 | 11 (28%) |
| 32  | 5MC  | 2a    | 967  | 32,57   | 19,22,23     | 1.78 | 3 (15%)  | 26,32,35    | 1.19 | 4 (15%)  |
| 1   | 4OC  | 1A    | 1920 | 1       | 19,22,24     | 0.83 | 0        | 25,31,35    | 0.91 | 0        |
| 1   | PSU  | 2A    | 1911 | 1       | 18,21,22     | 1.37 | 3 (16%)  | 21,30,33    | 2.17 | 4 (19%)  |
| 56  | PSU  | 2y    | 55   | 56      | 18,21,22     | 1.40 | 2 (11%)  | 21,30,33    | 1.97 | 4 (19%)  |
| 1   | PSU  | 1A    | 1911 | 1       | 18,21,22     | 1.43 | 2 (11%)  | 21,30,33    | 2.07 | 4 (19%)  |
| 54  | PSU  | 2w    | 55   | 54      | 18,21,22     | 1.36 | 2 (11%)  | 21,30,33    | 1.94 | 4 (19%)  |
| 1   | 5MC  | 2A    | 1962 | 57,1    | 19,22,23     | 1.78 | 3 (15%)  | 26,32,35    | 1.07 | 2 (7%)   |
| 32  | M2G  | 1a    | 966  | 32      | 24,27,28     | 1.33 | 4 (16%)  | 33,40,43    | 1.86 | 5 (15%)  |
| 56  | PSU  | 1y    | 39   | 56      | 18,21,22     | 1.37 | 2 (11%)  | 21,30,33    | 1.91 | 4 (19%)  |
| 1   | MA6  | 2A    | 2058 | 1       | 23,26,27     | 0.41 | 0        | 33,38,41    | 2.09 | 7 (21%)  |
| 54  | PSU  | 1w    | 39   | 54      | 18,21,22     | 1.34 | 2 (11%)  | 21,30,33    | 2.02 | 4 (19%)  |
| 54  | PSU  | 1w    | 32   | 57,54   | 18,21,22     | 1.29 | 2 (11%)  | 21,30,33    | 1.93 | 3 (14%)  |
| 32  | 2MG  | 2a    | 1207 | 32      | 23,26,27     | 1.23 | 3 (13%)  | 33,38,41    | 2.14 | 8 (24%)  |
| 55  | 5MC  | 1x    | 32   | 55      | 19,22,23     | 1.57 | 3 (15%)  | 26,32,35    | 1.32 | 3 (11%)  |
| 1   | PSU  | 1A    | 1917 | 1       | 18,21,22     | 1.38 | 2 (11%)  | 21,30,33    | 2.02 | 3 (14%)  |
| 1   | 5MU  | 1A    | 1939 | 1       | 19,22,23     | 1.39 | 6 (31%)  | 27,32,35    | 2.29 | 6 (22%)  |
| 32  | MA6  | 2a    | 1519 | 32      | 23,26,27     | 0.43 | 0        | 33,38,41    | 2.13 | 9 (27%)  |
| 1   | 5MU  | 2A    | 1939 | 57,1    | 19,22,23     | 1.33 | 4 (21%)  | 27,32,35    | 2.29 | 6 (22%)  |

| Mol | Type | Chain | Res  | Link  | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|-------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |       | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 55  | 5MU  | 2x    | 54   | 55    | 19,22,23     | 1.40 | 6 (31%)  | 27,32,35    | 2.14 | 6 (22%)  |
| 55  | PSU  | 2x    | 55   | 55    | 18,21,22     | 1.37 | 2 (11%)  | 21,30,33    | 2.00 | 4 (19%)  |
| 32  | PSU  | 1a    | 516  | 32    | 18,21,22     | 1.37 | 2 (11%)  | 21,30,33    | 2.04 | 5 (23%)  |
| 56  | 7MG  | 2y    | 46   | 56    | 23,26,27     | 1.39 | 3 (13%)  | 27,39,42    | 2.79 | 8 (29%)  |
| 1   | 5MC  | 1A    | 1942 | 1     | 19,22,23     | 1.67 | 3 (15%)  | 26,32,35    | 1.24 | 3 (11%)  |
| 1   | 5MU  | 2A    | 1915 | 1     | 19,22,23     | 1.41 | 5 (26%)  | 27,32,35    | 2.14 | 6 (22%)  |
| 1   | 4OC  | 2A    | 1920 | 1     | 19,22,24     | 0.80 | 0        | 25,31,35    | 0.89 | 1 (4%)   |
| 32  | 4OC  | 1a    | 1402 | 32    | 20,23,24     | 0.76 | 0        | 25,32,35    | 1.06 | 1 (4%)   |
| 54  | F3N  | 1w    | 76   | 1,54  | 33,36,37     | 1.52 | 4 (12%)  | 41,51,54    | 1.81 | 9 (21%)  |
| 54  | MIA  | 2w    | 37   | 54    | 24,27,32     | 2.04 | 5 (20%)  | 32,39,47    | 2.59 | 11 (34%) |
| 1   | PSU  | 1A    | 2605 | 57,1  | 18,21,22     | 1.44 | 3 (16%)  | 21,30,33    | 2.07 | 5 (23%)  |
| 55  | 4SU  | 2x    | 8    | 55    | 18,21,22     | 2.11 | 4 (22%)  | 25,30,33    | 1.56 | 6 (24%)  |
| 1   | 5MC  | 1A    | 1962 | 1     | 19,22,23     | 1.94 | 3 (15%)  | 26,32,35    | 1.19 | 3 (11%)  |
| 32  | UR3  | 1a    | 1498 | 32    | 19,22,23     | 1.02 | 2 (10%)  | 26,32,35    | 1.78 | 3 (11%)  |
| 32  | PSU  | 2a    | 516  | 32    | 18,21,22     | 1.36 | 2 (11%)  | 21,30,33    | 2.06 | 5 (23%)  |
| 32  | 5MC  | 2a    | 1400 | 32    | 19,22,23     | 1.68 | 3 (15%)  | 26,32,35    | 1.18 | 3 (11%)  |
| 54  | 5MU  | 1w    | 54   | 54    | 19,22,23     | 1.38 | 4 (21%)  | 27,32,35    | 1.99 | 5 (18%)  |
| 55  | 31H  | 1x    | 76   | 57,55 | 31,34,35     | 1.13 | 3 (9%)   | 35,47,50    | 2.38 | 13 (37%) |
| 56  | PSU  | 1y    | 55   | 56    | 18,21,22     | 1.39 | 2 (11%)  | 21,30,33    | 2.07 | 3 (14%)  |
| 1   | 5MU  | 1A    | 1915 | 1     | 19,22,23     | 1.37 | 5 (26%)  | 27,32,35    | 2.30 | 7 (25%)  |

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   |
|-----|------|-------|------|---------|---------|-----------|---------|
| 32  | 4OC  | 2a    | 1402 | 32      | -       | 1/9/29/30 | 0/2/2/2 |
| 32  | 7MG  | 2a    | 527  | 32,57   | -       | 3/7/37/38 | 0/3/3/3 |
| 55  | 5MC  | 2x    | 32   | 55      | -       | 0/7/25/26 | 0/2/2/2 |
| 1   | OMG  | 1A    | 2251 | 55,57,1 | -       | 0/9/27/28 | 0/3/3/3 |
| 54  | PSU  | 1w    | 55   | 54      | -       | 0/7/25/26 | 0/2/2/2 |
| 56  | PSU  | 2y    | 39   | 56      | -       | 0/7/25/26 | 0/2/2/2 |
| 43  | 0TD  | 1l    | 92   | 43      | -       | 3/7/12/14 | -       |
| 55  | PSU  | 1x    | 55   | 55      | -       | 0/7/25/26 | 0/2/2/2 |
| 32  | 5MC  | 2a    | 1404 | 32      | -       | 2/7/25/26 | 0/2/2/2 |
| 56  | 5MU  | 1y    | 54   | 56      | -       | 2/7/25/26 | 0/2/2/2 |

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| Mol | Type | Chain | Res  | Link  | Chirals | Torsions   | Rings   |
|-----|------|-------|------|-------|---------|------------|---------|
| 54  | 5MU  | 2w    | 54   | 54    | -       | 2/7/25/26  | 0/2/2/2 |
| 55  | 5MU  | 1x    | 54   | 55    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | 7MG  | 1w    | 46   | 54    | -       | 2/7/37/38  | 0/3/3/3 |
| 56  | 4SU  | 1y    | 8    | 56    | -       | 3/7/25/26  | 0/2/2/2 |
| 1   | 2MA  | 1A    | 2503 | 57,1  | -       | 1/7/25/26  | 0/3/3/3 |
| 56  | 4SU  | 2y    | 8    | 56    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 1a    | 1400 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | 7MG  | 2w    | 46   | 54    | -       | 3/7/37/38  | 0/3/3/3 |
| 32  | MA6  | 1a    | 1519 | 32    | -       | 3/11/29/30 | 0/3/3/3 |
| 32  | 5MC  | 1a    | 1407 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | MA6  | 1a    | 1518 | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 32  | 7MG  | 1a    | 527  | 32    | -       | 3/7/37/38  | 0/3/3/3 |
| 56  | MIA  | 1y    | 37   | 56    | -       | 0/7/25/34  | 0/3/3/3 |
| 43  | 0TD  | 2l    | 92   | 43    | -       | 2/7/12/14  | -       |
| 32  | 2MG  | 1a    | 1207 | 32    | -       | 0/9/27/28  | 0/3/3/3 |
| 1   | 2MA  | 2A    | 2503 | 57,1  | -       | 0/7/25/26  | 0/3/3/3 |
| 55  | 31H  | 2x    | 76   | 57,55 | -       | 3/22/40/41 | 0/3/3/3 |
| 1   | PSU  | 2A    | 2605 | 1     | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | PSU  | 2y    | 32   | 56    | -       | 2/7/25/26  | 0/2/2/2 |
| 1   | 5MC  | 2A    | 1942 | 1     | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | UR3  | 2a    | 1498 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | 4SU  | 2w    | 8    | 54    | -       | 1/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 2w    | 32   | 54    | -       | 2/7/25/26  | 0/2/2/2 |
| 55  | 4SU  | 1x    | 8    | 55    | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 2A    | 1917 | 1     | -       | 1/7/25/26  | 0/2/2/2 |
| 56  | 5MU  | 2y    | 54   | 56    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 2a    | 1407 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | PSU  | 1y    | 32   | 56    | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | 4SU  | 1w    | 8    | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | MIA  | 2y    | 37   | 56    | -       | 3/7/25/34  | 0/3/3/3 |
| 32  | MA6  | 2a    | 1518 | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 32  | 5MC  | 1a    | 1404 | 32    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 1a    | 967  | 32    | -       | 1/7/25/26  | 0/2/2/2 |
| 54  | F3N  | 2w    | 76   | 1,54  | -       | 2/19/37/38 | 0/4/4/4 |
| 1   | 2MU  | 2A    | 2552 | 57,1  | -       | 0/9/27/28  | 0/2/2/2 |
| 32  | M2G  | 2a    | 966  | 32    | -       | 0/11/29/30 | 0/3/3/3 |
| 54  | PSU  | 2w    | 39   | 54    | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | MA6  | 1A    | 2058 | 57,1  | -       | 0/11/29/30 | 0/3/3/3 |
| 56  | 7MG  | 1y    | 46   | 56    | -       | 1/7/37/38  | 0/3/3/3 |

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| Mol | Type | Chain | Res  | Link    | Chirals | Torsions   | Rings   |
|-----|------|-------|------|---------|---------|------------|---------|
| 1   | 2MU  | 1A    | 2552 | 57,1    | -       | 0/9/27/28  | 0/2/2/2 |
| 1   | OMG  | 2A    | 2251 | 55,57,1 | -       | 1/9/27/28  | 0/3/3/3 |
| 54  | MIA  | 1w    | 37   | 54      | -       | 2/15/33/34 | 0/3/3/3 |
| 32  | 5MC  | 2a    | 967  | 32,57   | -       | 1/7/25/26  | 0/2/2/2 |
| 1   | 4OC  | 1A    | 1920 | 1       | -       | 0/9/27/30  | 0/2/2/2 |
| 1   | PSU  | 2A    | 1911 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | PSU  | 2y    | 55   | 56      | -       | 5/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 1A    | 1911 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 2w    | 55   | 54      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MC  | 2A    | 1962 | 57,1    | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | M2G  | 1a    | 966  | 32      | -       | 0/11/29/30 | 0/3/3/3 |
| 56  | PSU  | 1y    | 39   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | MA6  | 2A    | 2058 | 1       | -       | 0/11/29/30 | 0/3/3/3 |
| 54  | PSU  | 1w    | 39   | 54      | -       | 0/7/25/26  | 0/2/2/2 |
| 54  | PSU  | 1w    | 32   | 57,54   | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 2MG  | 2a    | 1207 | 32      | -       | 0/9/27/28  | 0/3/3/3 |
| 55  | 5MC  | 1x    | 32   | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | PSU  | 1A    | 1917 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MU  | 1A    | 1939 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | MA6  | 2a    | 1519 | 32      | -       | 3/11/29/30 | 0/3/3/3 |
| 1   | 5MU  | 2A    | 1939 | 57,1    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 5MU  | 2x    | 54   | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | PSU  | 2x    | 55   | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | PSU  | 1a    | 516  | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 56  | 7MG  | 2y    | 46   | 56      | -       | 5/7/37/38  | 0/3/3/3 |
| 1   | 5MC  | 1A    | 1942 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MU  | 2A    | 1915 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 4OC  | 2A    | 1920 | 1       | -       | 0/9/27/30  | 0/2/2/2 |
| 32  | 4OC  | 1a    | 1402 | 32      | -       | 0/9/29/30  | 0/2/2/2 |
| 54  | F3N  | 1w    | 76   | 1,54    | -       | 0/19/37/38 | 0/4/4/4 |
| 54  | MIA  | 2w    | 37   | 54      | -       | 1/11/29/34 | 0/3/3/3 |
| 1   | PSU  | 1A    | 2605 | 57,1    | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 4SU  | 2x    | 8    | 55      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MC  | 1A    | 1962 | 1       | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | UR3  | 1a    | 1498 | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | PSU  | 2a    | 516  | 32      | -       | 0/7/25/26  | 0/2/2/2 |
| 32  | 5MC  | 2a    | 1400 | 32      | -       | 4/7/25/26  | 0/2/2/2 |
| 54  | 5MU  | 1w    | 54   | 54      | -       | 0/7/25/26  | 0/2/2/2 |
| 55  | 31H  | 1x    | 76   | 57,55   | -       | 5/22/40/41 | 0/3/3/3 |
| 56  | PSU  | 1y    | 55   | 56      | -       | 0/7/25/26  | 0/2/2/2 |
| 1   | 5MU  | 1A    | 1915 | 1       | -       | 0/7/25/26  | 0/2/2/2 |

The worst 5 of 256 bond length outliers are listed below:

| Mol | Chain | Res  | Type | Atoms   | Z      | Observed(Å) | Ideal(Å) |
|-----|-------|------|------|---------|--------|-------------|----------|
| 43  | 1l    | 92   | 0TD  | CB-SB   | -12.37 | 1.69        | 1.82     |
| 43  | 2l    | 92   | 0TD  | CB-SB   | -12.37 | 1.69        | 1.82     |
| 54  | 1w    | 37   | MIA  | C2-S10  | -8.14  | 1.69        | 1.75     |
| 1   | 1A    | 1962 | 5MC  | C5-C4   | 7.35   | 1.49        | 1.44     |
| 54  | 1w    | 37   | MIA  | C13-C14 | 6.84   | 1.52        | 1.32     |

The worst 5 of 478 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms       | Z      | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|--------|-------------|----------|
| 43  | 1l    | 92  | 0TD  | CSB-SB-CB   | -22.85 | 61.30       | 102.36   |
| 43  | 2l    | 92  | 0TD  | CSB-SB-CB   | -20.94 | 64.73       | 102.36   |
| 56  | 2y    | 46  | 7MG  | N9-C4-N3    | 9.95   | 140.04      | 125.46   |
| 56  | 1y    | 46  | 7MG  | N9-C4-N3    | 9.64   | 139.59      | 125.46   |
| 54  | 1w    | 37  | MIA  | C12-C13-C14 | -9.50  | 109.96      | 127.01   |

There are no chirality outliers.

5 of 73 torsion outliers are listed below:

| Mol | Chain | Res  | Type | Atoms           |
|-----|-------|------|------|-----------------|
| 32  | 1a    | 1519 | MA6  | O4'-C4'-C5'-O5' |
| 43  | 1l    | 92   | 0TD  | O-C-CA-CB       |
| 43  | 1l    | 92   | 0TD  | CA-CB-SB-CSB    |
| 43  | 1l    | 92   | 0TD  | CG-CB-SB-CSB    |
| 32  | 2a    | 1519 | MA6  | O4'-C4'-C5'-O5' |

There are no ring outliers.

53 monomers are involved in 78 short contacts:

| Mol | Chain | Res  | Type | Clashes | Symm-Clashes |
|-----|-------|------|------|---------|--------------|
| 32  | 2a    | 1402 | 4OC  | 3       | 0            |
| 32  | 2a    | 527  | 7MG  | 1       | 0            |
| 55  | 2x    | 32   | 5MC  | 1       | 0            |
| 54  | 1w    | 55   | PSU  | 1       | 0            |
| 56  | 2y    | 39   | PSU  | 1       | 0            |
| 55  | 1x    | 55   | PSU  | 1       | 0            |
| 32  | 2a    | 1404 | 5MC  | 1       | 0            |
| 56  | 1y    | 54   | 5MU  | 1       | 0            |
| 54  | 2w    | 54   | 5MU  | 1       | 0            |
| 56  | 1y    | 8    | 4SU  | 1       | 0            |
| 1   | 1A    | 2503 | 2MA  | 1       | 0            |

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| Mol | Chain | Res  | Type | Clashes | Symm-Clashes |
|-----|-------|------|------|---------|--------------|
| 54  | 2w    | 46   | 7MG  | 1       | 0            |
| 32  | 1a    | 1519 | MA6  | 2       | 0            |
| 32  | 1a    | 1518 | MA6  | 3       | 0            |
| 56  | 1y    | 37   | MIA  | 1       | 0            |
| 43  | 2l    | 92   | 0TD  | 3       | 0            |
| 1   | 2A    | 2503 | 2MA  | 2       | 0            |
| 55  | 2x    | 76   | 31H  | 3       | 0            |
| 54  | 2w    | 8    | 4SU  | 1       | 0            |
| 55  | 1x    | 8    | 4SU  | 1       | 0            |
| 56  | 2y    | 37   | MIA  | 1       | 0            |
| 32  | 2a    | 1518 | MA6  | 3       | 0            |
| 32  | 1a    | 1404 | 5MC  | 1       | 0            |
| 32  | 1a    | 967  | 5MC  | 1       | 0            |
| 54  | 2w    | 76   | F3N  | 5       | 0            |
| 1   | 2A    | 2552 | 2MU  | 2       | 0            |
| 32  | 2a    | 966  | M2G  | 1       | 0            |
| 54  | 2w    | 39   | PSU  | 2       | 0            |
| 56  | 1y    | 46   | 7MG  | 3       | 0            |
| 1   | 1A    | 2552 | 2MU  | 1       | 0            |
| 1   | 2A    | 2251 | OMG  | 1       | 0            |
| 32  | 2a    | 967  | 5MC  | 1       | 0            |
| 1   | 1A    | 1920 | 4OC  | 1       | 0            |
| 56  | 2y    | 55   | PSU  | 7       | 0            |
| 54  | 2w    | 55   | PSU  | 1       | 0            |
| 32  | 1a    | 966  | M2G  | 3       | 0            |
| 56  | 1y    | 39   | PSU  | 1       | 0            |
| 1   | 2A    | 2058 | MA6  | 1       | 0            |
| 54  | 1w    | 39   | PSU  | 1       | 0            |
| 32  | 2a    | 1207 | 2MG  | 2       | 0            |
| 1   | 1A    | 1917 | PSU  | 1       | 0            |
| 1   | 1A    | 1939 | 5MU  | 2       | 0            |
| 32  | 2a    | 1519 | MA6  | 4       | 0            |
| 1   | 2A    | 1939 | 5MU  | 2       | 0            |
| 55  | 2x    | 55   | PSU  | 1       | 0            |
| 32  | 1a    | 516  | PSU  | 1       | 0            |
| 56  | 2y    | 46   | 7MG  | 1       | 0            |
| 1   | 2A    | 1915 | 5MU  | 1       | 0            |
| 54  | 1w    | 76   | F3N  | 1       | 0            |
| 54  | 2w    | 37   | MIA  | 1       | 0            |
| 54  | 1w    | 54   | 5MU  | 2       | 0            |
| 55  | 1x    | 76   | 31H  | 2       | 0            |
| 56  | 1y    | 55   | PSU  | 1       | 0            |

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 2832 ligands modelled in this entry, 2830 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    | 303 | 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    | 303 | 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.

1 monomer is involved in 1 short contact:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 60  | 2d    | 303 | SF4  | 1       | 0            |

## 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    | 2859/2915 (98%) | -0.42  | 127 (4%) | 39  | 34  | 19, 36, 83, 94        | 0     |
| 1   | 2A    | 2788/2915 (95%) | 0.08   | 135 (4%) | 35  | 32  | 32, 53, 82, 93        | 0     |
| 2   | 1B    | 120/121 (99%)   | -0.32  | 0        | 100 | 100 | 31, 47, 59, 79        | 0     |
| 2   | 2B    | 120/121 (99%)   | 0.54   | 0        | 100 | 100 | 56, 64, 72, 78        | 0     |
| 3   | 1D    | 275/276 (99%)   | 0.03   | 3 (1%)   | 78  | 74  | 21, 36, 50, 65        | 0     |
| 3   | 2D    | 275/276 (99%)   | 0.42   | 11 (4%)  | 42  | 38  | 29, 46, 57, 75        | 0     |
| 4   | 1E    | 204/206 (99%)   | 0.01   | 0        | 100 | 100 | 21, 40, 58, 63        | 0     |
| 4   | 2E    | 204/206 (99%)   | 0.58   | 4 (1%)   | 65  | 60  | 33, 54, 65, 73        | 0     |
| 5   | 1F    | 203/210 (96%)   | 0.12   | 3 (1%)   | 72  | 68  | 21, 42, 64, 71        | 0     |
| 5   | 2F    | 203/210 (96%)   | 0.70   | 8 (3%)   | 43  | 39  | 33, 59, 70, 77        | 0     |
| 6   | 1G    | 181/182 (99%)   | 0.61   | 7 (3%)   | 43  | 39  | 39, 54, 66, 75        | 0     |
| 6   | 2G    | 181/182 (99%)   | 1.15   | 17 (9%)  | 14  | 11  | 57, 66, 73, 81        | 0     |
| 7   | 1H    | 174/180 (96%)   | 0.49   | 4 (2%)   | 61  | 57  | 35, 51, 60, 68        | 0     |
| 7   | 2H    | 174/180 (96%)   | 1.42   | 31 (17%) | 4   | 3   | 59, 72, 79, 82        | 0     |
| 8   | 1I    | 146/148 (98%)   | 0.84   | 3 (2%)   | 63  | 59  | 44, 64, 70, 73        | 0     |
| 8   | 2I    | 146/148 (98%)   | 1.24   | 19 (13%) | 7   | 5   | 53, 65, 73, 76        | 0     |
| 9   | 1N    | 140/140 (100%)  | -0.01  | 1 (0%)   | 84  | 81  | 25, 37, 54, 65        | 0     |
| 9   | 2N    | 140/140 (100%)  | 0.77   | 5 (3%)   | 46  | 42  | 43, 57, 69, 73        | 0     |
| 10  | 1O    | 122/122 (100%)  | -0.04  | 0        | 100 | 100 | 26, 39, 54, 58        | 0     |
| 10  | 2O    | 122/122 (100%)  | 0.63   | 2 (1%)   | 70  | 66  | 43, 55, 64, 69        | 0     |
| 11  | 1P    | 149/150 (99%)   | 0.20   | 1 (0%)   | 84  | 81  | 19, 45, 64, 70        | 0     |
| 11  | 2P    | 149/150 (99%)   | 0.91   | 12 (8%)  | 18  | 14  | 36, 58, 71, 79        | 0     |
| 12  | 1Q    | 141/141 (100%)  | 0.06   | 0        | 100 | 100 | 24, 38, 51, 62        | 0     |
| 12  | 2Q    | 141/141 (100%)  | 0.90   | 10 (7%)  | 22  | 18  | 40, 58, 67, 71        | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2       | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|---------------|-----------------------|-------|
| 13  | 1R    | 118/118 (100%) | -0.13  | 0 100 100     | 24, 34, 48, 53        | 0     |
| 13  | 2R    | 118/118 (100%) | 0.50   | 5 (4%) 40 36  | 39, 49, 58, 65        | 0     |
| 14  | 1S    | 110/112 (98%)  | 0.34   | 0 100 100     | 36, 47, 57, 62        | 0     |
| 14  | 2S    | 110/112 (98%)  | 0.94   | 4 (3%) 46 42  | 51, 61, 68, 71        | 0     |
| 15  | 1T    | 131/146 (89%)  | 0.24   | 3 (2%) 61 57  | 32, 44, 64, 73        | 0     |
| 15  | 2T    | 131/146 (89%)  | 0.66   | 2 (1%) 72 68  | 46, 56, 66, 73        | 0     |
| 16  | 1U    | 116/118 (98%)  | -0.31  | 0 100 100     | 20, 30, 44, 53        | 0     |
| 16  | 2U    | 116/118 (98%)  | 0.75   | 3 (2%) 57 53  | 41, 54, 66, 72        | 0     |
| 17  | 1V    | 101/101 (100%) | -0.10  | 1 (0%) 79 76  | 22, 39, 54, 63        | 0     |
| 17  | 2V    | 101/101 (100%) | 0.81   | 3 (2%) 52 48  | 42, 62, 68, 76        | 0     |
| 18  | 1W    | 112/113 (99%)  | -0.13  | 0 100 100     | 24, 32, 49, 77        | 0     |
| 18  | 2W    | 112/113 (99%)  | 0.43   | 2 (1%) 67 63  | 35, 48, 61, 78        | 0     |
| 19  | 1X    | 95/96 (98%)    | 0.08   | 1 (1%) 78 74  | 27, 40, 57, 68        | 0     |
| 19  | 2X    | 95/96 (98%)    | 0.77   | 8 (8%) 17 14  | 44, 55, 69, 73        | 0     |
| 20  | 1Y    | 107/110 (97%)  | 0.40   | 1 (0%) 81 78  | 35, 49, 62, 68        | 0     |
| 20  | 2Y    | 107/110 (97%)  | 1.12   | 10 (9%) 14 11 | 52, 63, 72, 79        | 0     |
| 21  | 1Z    | 154/206 (74%)  | 0.89   | 19 (12%) 8 6  | 37, 58, 74, 78        | 0     |
| 21  | 2Z    | 160/206 (77%)  | 1.47   | 40 (25%) 2 1  | 57, 69, 78, 84        | 0     |
| 22  | 10    | 83/85 (97%)    | -0.02  | 0 100 100     | 27, 36, 47, 61        | 0     |
| 22  | 20    | 83/85 (97%)    | 0.85   | 8 (9%) 13 10  | 44, 54, 61, 69        | 0     |
| 23  | 11    | 97/98 (98%)    | 0.45   | 2 (2%) 63 59  | 30, 46, 64, 72        | 0     |
| 23  | 21    | 97/98 (98%)    | 0.78   | 4 (4%) 41 37  | 38, 52, 66, 74        | 0     |
| 24  | 12    | 70/72 (97%)    | 0.33   | 1 (1%) 73 69  | 33, 46, 57, 62        | 0     |
| 24  | 22    | 70/72 (97%)    | 0.82   | 1 (1%) 73 69  | 53, 63, 69, 75        | 0     |
| 25  | 13    | 59/60 (98%)    | -0.16  | 0 100 100     | 23, 35, 54, 66        | 0     |
| 25  | 23    | 59/60 (98%)    | 0.82   | 1 (1%) 69 65  | 49, 57, 65, 69        | 0     |
| 26  | 14    | 69/71 (97%)    | 1.10   | 12 (17%) 4 3  | 50, 66, 74, 77        | 0     |
| 26  | 24    | 69/71 (97%)    | 1.53   | 16 (23%) 2 1  | 65, 72, 78, 80        | 0     |
| 27  | 15    | 59/60 (98%)    | -0.18  | 1 (1%) 69 65  | 21, 32, 47, 58        | 0     |
| 27  | 25    | 59/60 (98%)    | 0.45   | 2 (3%) 48 44  | 33, 51, 62, 67        | 0     |
| 28  | 16    | 53/54 (98%)    | 0.13   | 0 100 100     | 32, 43, 52, 58        | 0     |

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| Mol | Chain | Analysed        | <RSRZ> | #RSRZ>2       | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 28  | 26    | 53/54 (98%)     | 0.71   | 1 (1%) 66 62  | 45, 53, 59, 62        | 0     |
| 29  | 17    | 48/49 (97%)     | -0.24  | 0 100 100     | 21, 27, 44, 55        | 0     |
| 29  | 27    | 48/49 (97%)     | 0.24   | 2 (4%) 40 36  | 35, 40, 58, 63        | 0     |
| 30  | 18    | 64/65 (98%)     | -0.03  | 0 100 100     | 28, 35, 41, 52        | 0     |
| 30  | 28    | 64/65 (98%)     | 0.66   | 1 (1%) 70 66  | 42, 51, 55, 59        | 0     |
| 31  | 19    | 37/37 (100%)    | -0.14  | 0 100 100     | 27, 38, 48, 51        | 0     |
| 31  | 29    | 37/37 (100%)    | 0.82   | 1 (2%) 56 52  | 53, 60, 65, 67        | 0     |
| 32  | 1a    | 1488/1521 (97%) | 0.23   | 30 (2%) 65 60 | 33, 58, 80, 89        | 0     |
| 32  | 2a    | 1491/1521 (98%) | 0.48   | 41 (2%) 56 52 | 46, 67, 81, 93        | 0     |
| 33  | 1b    | 231/256 (90%)   | 1.14   | 24 (10%) 11 9 | 55, 66, 74, 78        | 0     |
| 33  | 2b    | 231/256 (90%)   | 1.41   | 44 (19%) 3 2  | 61, 72, 77, 82        | 0     |
| 34  | 1c    | 206/239 (86%)   | 0.83   | 8 (3%) 43 39  | 50, 61, 71, 77        | 0     |
| 34  | 2c    | 206/239 (86%)   | 1.35   | 35 (16%) 4 3  | 62, 71, 75, 81        | 0     |
| 35  | 1d    | 208/209 (99%)   | 0.94   | 14 (6%) 24 20 | 48, 60, 68, 72        | 0     |
| 35  | 2d    | 208/209 (99%)   | 0.97   | 11 (5%) 32 28 | 51, 62, 69, 75        | 0     |
| 36  | 1e    | 148/162 (91%)   | 0.63   | 4 (2%) 56 52  | 47, 57, 66, 67        | 0     |
| 36  | 2e    | 148/162 (91%)   | 1.14   | 13 (8%) 15 12 | 57, 65, 71, 75        | 0     |
| 37  | 1f    | 100/101 (99%)   | 0.64   | 1 (1%) 79 76  | 49, 58, 66, 67        | 0     |
| 37  | 2f    | 100/101 (99%)   | 0.70   | 3 (3%) 52 48  | 51, 61, 65, 67        | 0     |
| 38  | 1g    | 155/156 (99%)   | 0.91   | 15 (9%) 13 10 | 50, 62, 72, 80        | 0     |
| 38  | 2g    | 155/156 (99%)   | 1.34   | 22 (14%) 6 5  | 60, 69, 74, 77        | 0     |
| 39  | 1h    | 137/138 (99%)   | 0.78   | 5 (3%) 46 42  | 49, 59, 65, 68        | 0     |
| 39  | 2h    | 137/138 (99%)   | 1.10   | 12 (8%) 15 12 | 55, 66, 72, 78        | 0     |
| 40  | 1i    | 127/128 (99%)   | 1.18   | 11 (8%) 16 13 | 49, 65, 73, 75        | 0     |
| 40  | 2i    | 127/128 (99%)   | 1.61   | 40 (31%) 1 1  | 56, 71, 76, 80        | 0     |
| 41  | 1j    | 97/105 (92%)    | 1.17   | 10 (10%) 12 9 | 51, 66, 73, 76        | 0     |
| 41  | 2j    | 96/105 (91%)    | 1.72   | 28 (29%) 1 1  | 63, 73, 77, 80        | 0     |
| 42  | 1k    | 114/129 (88%)   | 0.79   | 2 (1%) 67 63  | 41, 59, 67, 73        | 0     |
| 42  | 2k    | 114/129 (88%)   | 0.97   | 10 (8%) 15 12 | 51, 64, 70, 76        | 0     |
| 43  | 1l    | 121/132 (91%)   | 0.52   | 2 (1%) 69 65  | 40, 48, 58, 64        | 0     |
| 43  | 2l    | 121/132 (91%)   | 0.92   | 8 (6%) 24 20  | 47, 58, 66, 74        | 0     |

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| Mol | Chain | Analysed          | <RSRZ> | #RSRZ>2         | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-------------------|--------|-----------------|-----------------------|-------|
| 44  | 1m    | 123/126 (97%)     | 0.88   | 6 (4%) 35 31    | 50, 61, 66, 71        | 0     |
| 44  | 2m    | 122/126 (96%)     | 1.45   | 23 (18%) 3 2    | 59, 69, 74, 76        | 0     |
| 45  | 1n    | 60/61 (98%)       | 0.99   | 2 (3%) 49 45    | 48, 58, 63, 69        | 0     |
| 45  | 2n    | 60/61 (98%)       | 2.06   | 29 (48%) 0 0    | 66, 71, 76, 77        | 0     |
| 46  | 1o    | 88/89 (98%)       | 0.87   | 6 (6%) 23 20    | 43, 57, 65, 67        | 0     |
| 46  | 2o    | 88/89 (98%)       | 0.94   | 3 (3%) 48 44    | 54, 63, 70, 74        | 0     |
| 47  | 1p    | 82/88 (93%)       | 1.19   | 10 (12%) 8 6    | 53, 61, 65, 67        | 0     |
| 47  | 2p    | 82/88 (93%)       | 1.09   | 8 (9%) 13 10    | 54, 61, 67, 72        | 0     |
| 48  | 1q    | 99/105 (94%)      | 0.86   | 3 (3%) 52 48    | 50, 59, 66, 72        | 0     |
| 48  | 2q    | 99/105 (94%)      | 1.04   | 6 (6%) 27 23    | 56, 64, 71, 75        | 0     |
| 49  | 1r    | 68/88 (77%)       | 0.73   | 2 (2%) 53 50    | 50, 58, 68, 70        | 0     |
| 49  | 2r    | 68/88 (77%)       | 0.72   | 2 (2%) 53 50    | 56, 63, 71, 75        | 0     |
| 50  | 1s    | 83/93 (89%)       | 0.89   | 7 (8%) 17 14    | 53, 62, 67, 71        | 0     |
| 50  | 2s    | 83/93 (89%)       | 1.51   | 19 (22%) 2 1    | 64, 71, 76, 80        | 0     |
| 51  | 1t    | 96/106 (90%)      | 1.05   | 10 (10%) 11 9   | 52, 62, 69, 73        | 0     |
| 51  | 2t    | 96/106 (90%)      | 1.06   | 12 (12%) 8 6    | 55, 63, 72, 76        | 0     |
| 52  | 1u    | 23/27 (85%)       | 1.35   | 2 (8%) 16 13    | 54, 58, 65, 66        | 0     |
| 52  | 2u    | 23/27 (85%)       | 1.93   | 11 (47%) 0 0    | 65, 69, 71, 75        | 0     |
| 53  | 1v    | 13/24 (54%)       | 0.54   | 1 (7%) 19 16    | 45, 48, 77, 86        | 0     |
| 53  | 2v    | 13/24 (54%)       | 1.49   | 4 (30%) 1 1     | 56, 64, 85, 87        | 0     |
| 54  | 1w    | 66/76 (86%)       | 1.07   | 9 (13%) 7 5     | 25, 73, 83, 87        | 0     |
| 54  | 2w    | 64/76 (84%)       | 1.19   | 9 (14%) 6 5     | 44, 78, 85, 88        | 0     |
| 55  | 1x    | 71/77 (92%)       | 0.16   | 0 100 100       | 24, 55, 72, 75        | 0     |
| 55  | 2x    | 71/77 (92%)       | 0.42   | 1 (1%) 73 69    | 39, 65, 76, 83        | 0     |
| 56  | 1y    | 67/76 (88%)       | 1.57   | 14 (20%) 2 2    | 56, 83, 88, 90        | 0     |
| 56  | 2y    | 66/76 (86%)       | 1.75   | 20 (30%) 1 1    | 66, 86, 90, 92        | 0     |
| All | All   | 20869/21748 (95%) | 0.44   | 1170 (5%) 30 26 | 19, 57, 77, 94        | 0     |

The worst 5 of 1170 RSRZ outliers are listed below:

| Mol | Chain | Res    | Type | RSRZ |
|-----|-------|--------|------|------|
| 1   | 1A    | 652(V) | C    | 7.8  |
| 1   | 1A    | 652(U) | G    | 7.0  |

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| Mol | Chain | Res    | Type | RSRZ |
|-----|-------|--------|------|------|
| 1   | 1A    | 654    | A    | 6.7  |
| 1   | 2A    | 2146   | C    | 6.6  |
| 1   | 1A    | 652(C) | G    | 6.6  |

## 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  | 7MG  | 1y    | 46   | 24/25 | 0.54 | 0.18 | 74,84,96,103               | 0     |
| 56  | 4SU  | 2y    | 8    | 20/21 | 0.55 | 0.18 | 85,90,100,110              | 0     |
| 56  | PSU  | 1y    | 55   | 20/21 | 0.61 | 0.16 | 81,84,96,104               | 0     |
| 56  | 5MU  | 2y    | 54   | 21/22 | 0.62 | 0.19 | 77,85,91,108               | 0     |
| 56  | 4SU  | 1y    | 8    | 20/21 | 0.67 | 0.15 | 82,86,93,99                | 0     |
| 56  | MIA  | 2y    | 37   | 22/30 | 0.68 | 0.19 | 72,83,86,92                | 0     |
| 54  | 7MG  | 1w    | 46   | 24/25 | 0.68 | 0.16 | 65,76,91,106               | 0     |
| 54  | 7MG  | 2w    | 46   | 24/25 | 0.69 | 0.16 | 69,79,92,108               | 0     |
| 56  | 7MG  | 2y    | 46   | 24/25 | 0.69 | 0.16 | 78,86,90,106               | 0     |
| 56  | PSU  | 2y    | 32   | 20/21 | 0.71 | 0.14 | 77,84,91,95                | 0     |
| 56  | 5MU  | 1y    | 54   | 21/22 | 0.74 | 0.15 | 78,80,87,94                | 0     |
| 56  | PSU  | 2y    | 55   | 20/21 | 0.74 | 0.14 | 67,85,89,96                | 0     |
| 56  | PSU  | 2y    | 39   | 20/21 | 0.75 | 0.15 | 78,83,91,95                | 0     |
| 56  | PSU  | 1y    | 39   | 20/21 | 0.76 | 0.16 | 74,82,85,86                | 0     |
| 56  | MIA  | 1y    | 37   | 22/30 | 0.77 | 0.17 | 72,77,83,92                | 0     |
| 56  | PSU  | 1y    | 32   | 20/21 | 0.81 | 0.14 | 70,78,85,94                | 0     |
| 54  | 4SU  | 2w    | 8    | 20/21 | 0.83 | 0.13 | 74,80,90,93                | 0     |
| 54  | PSU  | 2w    | 55   | 20/21 | 0.83 | 0.12 | 64,71,80,81                | 0     |
| 54  | 4SU  | 1w    | 8    | 20/21 | 0.87 | 0.12 | 69,76,83,84                | 0     |
| 55  | 5MU  | 2x    | 54   | 21/22 | 0.90 | 0.13 | 67,71,76,79                | 0     |
| 32  | 2MG  | 2a    | 1207 | 24/25 | 0.90 | 0.13 | 66,70,73,75                | 0     |
| 54  | PSU  | 1w    | 55   | 20/21 | 0.91 | 0.11 | 53,61,68,69                | 0     |
| 55  | PSU  | 2x    | 55   | 20/21 | 0.91 | 0.11 | 58,67,70,74                | 0     |
| 43  | 0TD  | 2l    | 92   | 10/11 | 0.92 | 0.11 | 49,56,61,72                | 0     |
| 1   | 5MU  | 2A    | 1915 | 21/22 | 0.92 | 0.12 | 51,58,62,64                | 0     |
| 55  | 5MC  | 2x    | 32   | 21/22 | 0.92 | 0.15 | 57,62,69,74                | 0     |
| 43  | 0TD  | 1l    | 92   | 10/11 | 0.92 | 0.10 | 38,45,48,62                | 0     |
| 54  | PSU  | 1w    | 32   | 20/21 | 0.92 | 0.12 | 49,58,63,64                | 0     |
| 54  | PSU  | 2w    | 32   | 20/21 | 0.92 | 0.15 | 61,69,76,81                | 0     |
| 32  | 5MC  | 2a    | 967  | 21/22 | 0.93 | 0.13 | 54,63,68,70                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 55  | 4SU  | 1x    | 8    | 20/21 | 0.93 | 0.10 | 52,58,63,66                 | 0     |
| 55  | 5MU  | 1x    | 54   | 21/22 | 0.93 | 0.10 | 52,60,64,66                 | 0     |
| 55  | 4SU  | 2x    | 8    | 20/21 | 0.93 | 0.10 | 61,65,72,73                 | 0     |
| 55  | PSU  | 1x    | 55   | 20/21 | 0.93 | 0.10 | 51,55,65,68                 | 0     |
| 32  | 7MG  | 2a    | 527  | 24/25 | 0.93 | 0.11 | 53,58,70,76                 | 0     |
| 32  | M2G  | 2a    | 966  | 25/26 | 0.93 | 0.13 | 54,60,72,75                 | 0     |
| 54  | 5MU  | 2w    | 54   | 21/22 | 0.93 | 0.11 | 49,65,70,73                 | 0     |
| 54  | PSU  | 2w    | 39   | 20/21 | 0.94 | 0.12 | 60,67,72,74                 | 0     |
| 32  | 5MC  | 2a    | 1400 | 21/22 | 0.94 | 0.14 | 53,59,67,70                 | 0     |
| 32  | 5MC  | 2a    | 1404 | 21/22 | 0.94 | 0.11 | 47,55,60,69                 | 0     |
| 32  | PSU  | 2a    | 516  | 20/21 | 0.94 | 0.10 | 55,63,67,69                 | 0     |
| 1   | 5MC  | 2A    | 1942 | 21/22 | 0.95 | 0.09 | 43,50,54,63                 | 0     |
| 1   | 5MC  | 2A    | 1962 | 21/22 | 0.95 | 0.09 | 37,46,56,61                 | 0     |
| 32  | 5MC  | 2a    | 1407 | 21/22 | 0.95 | 0.11 | 48,53,57,64                 | 0     |
| 32  | MA6  | 2a    | 1519 | 24/25 | 0.95 | 0.12 | 45,55,59,61                 | 0     |
| 55  | 5MC  | 1x    | 32   | 21/22 | 0.95 | 0.12 | 40,45,51,56                 | 0     |
| 32  | 2MG  | 1a    | 1207 | 24/25 | 0.95 | 0.10 | 44,56,63,68                 | 0     |
| 54  | MIA  | 2w    | 37   | 25/30 | 0.95 | 0.11 | 53,65,69,75                 | 0     |
| 32  | 5MC  | 1a    | 1400 | 21/22 | 0.95 | 0.10 | 39,47,50,54                 | 0     |
| 32  | 7MG  | 1a    | 527  | 24/25 | 0.95 | 0.10 | 37,44,49,58                 | 0     |
| 32  | 4OC  | 2a    | 1402 | 22/23 | 0.95 | 0.11 | 46,55,58,61                 | 0     |
| 54  | 5MU  | 1w    | 54   | 21/22 | 0.95 | 0.09 | 44,54,59,66                 | 0     |
| 1   | 5MU  | 1A    | 1915 | 21/22 | 0.95 | 0.10 | 35,48,55,60                 | 0     |
| 32  | M2G  | 1a    | 966  | 25/26 | 0.95 | 0.10 | 44,50,56,59                 | 0     |
| 1   | PSU  | 2A    | 1917 | 20/21 | 0.95 | 0.09 | 45,55,60,62                 | 0     |
| 32  | PSU  | 1a    | 516  | 20/21 | 0.96 | 0.07 | 41,47,51,52                 | 0     |
| 55  | 31H  | 2x    | 76   | 32/33 | 0.96 | 0.10 | 35,43,50,55                 | 0     |
| 1   | MA6  | 2A    | 2058 | 24/25 | 0.96 | 0.10 | 30,39,45,45                 | 0     |
| 1   | 2MU  | 2A    | 2552 | 21/23 | 0.96 | 0.09 | 35,43,49,53                 | 0     |
| 1   | PSU  | 2A    | 1911 | 20/21 | 0.96 | 0.09 | 49,53,60,62                 | 0     |
| 32  | 5MC  | 1a    | 1404 | 21/22 | 0.96 | 0.10 | 33,41,46,47                 | 0     |
| 32  | MA6  | 2a    | 1518 | 24/25 | 0.96 | 0.11 | 45,54,59,61                 | 0     |
| 54  | F3N  | 2w    | 76   | 33/34 | 0.96 | 0.10 | 29,39,44,46                 | 0     |
| 32  | MA6  | 1a    | 1519 | 24/25 | 0.96 | 0.10 | 35,39,46,48                 | 0     |
| 1   | 4OC  | 2A    | 1920 | 21/23 | 0.96 | 0.08 | 51,56,58,60                 | 0     |
| 54  | PSU  | 1w    | 39   | 20/21 | 0.96 | 0.09 | 45,52,58,62                 | 0     |
| 1   | 5MC  | 1A    | 1942 | 21/22 | 0.97 | 0.08 | 27,38,44,52                 | 0     |
| 32  | 5MC  | 1a    | 1407 | 21/22 | 0.97 | 0.08 | 31,41,44,46                 | 0     |
| 1   | PSU  | 1A    | 1911 | 20/21 | 0.97 | 0.08 | 36,43,51,51                 | 0     |
| 32  | UR3  | 1a    | 1498 | 21/22 | 0.97 | 0.09 | 36,42,47,48                 | 0     |
| 1   | OMG  | 2A    | 2251 | 24/25 | 0.97 | 0.09 | 29,36,43,46                 | 0     |
| 32  | 4OC  | 1a    | 1402 | 22/23 | 0.97 | 0.08 | 37,42,47,55                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 1   | PSU  | 2A    | 2605 | 20/21 | 0.97 | 0.08 | 28,37,42,43                 | 0     |
| 32  | 5MC  | 1a    | 967  | 21/22 | 0.97 | 0.10 | 38,50,55,57                 | 0     |
| 32  | UR3  | 2a    | 1498 | 21/22 | 0.97 | 0.10 | 49,52,58,59                 | 0     |
| 55  | 31H  | 1x    | 76   | 32/33 | 0.97 | 0.09 | 19,26,36,36                 | 10    |
| 1   | 5MU  | 2A    | 1939 | 21/22 | 0.97 | 0.09 | 29,37,41,44                 | 0     |
| 54  | MIA  | 1w    | 37   | 29/30 | 0.97 | 0.09 | 36,45,59,63                 | 0     |
| 32  | MA6  | 1a    | 1518 | 24/25 | 0.98 | 0.08 | 32,42,46,46                 | 0     |
| 1   | MA6  | 1A    | 2058 | 24/25 | 0.98 | 0.07 | 15,22,29,39                 | 0     |
| 1   | 4OC  | 1A    | 1920 | 21/23 | 0.98 | 0.08 | 29,40,44,45                 | 0     |
| 1   | OMG  | 1A    | 2251 | 24/25 | 0.98 | 0.06 | 20,27,31,34                 | 0     |
| 1   | PSU  | 1A    | 1917 | 20/21 | 0.98 | 0.07 | 27,43,47,48                 | 0     |
| 1   | 2MA  | 1A    | 2503 | 23/24 | 0.98 | 0.07 | 15,23,28,30                 | 0     |
| 1   | 2MA  | 2A    | 2503 | 23/24 | 0.98 | 0.09 | 30,35,39,41                 | 0     |
| 1   | 2MU  | 1A    | 2552 | 21/23 | 0.98 | 0.06 | 19,27,29,38                 | 0     |
| 1   | 5MC  | 1A    | 1962 | 21/22 | 0.98 | 0.06 | 20,32,35,39                 | 0     |
| 1   | PSU  | 1A    | 2605 | 20/21 | 0.98 | 0.06 | 23,27,30,32                 | 0     |
| 54  | F3N  | 1w    | 76   | 33/34 | 0.99 | 0.05 | 17,22,26,27                 | 0     |
| 1   | 5MU  | 1A    | 1939 | 21/22 | 0.99 | 0.05 | 18,27,34,38                 | 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   | 2B    | 218  | 1/1   | 0.59 | 0.20 | 81,81,81,81                 | 0     |
| 57  | MG   | 2a    | 1838 | 1/1   | 0.61 | 0.20 | 78,78,78,78                 | 0     |
| 57  | MG   | 2a    | 1825 | 1/1   | 0.62 | 0.19 | 76,76,76,76                 | 0     |
| 57  | MG   | 1B    | 225  | 1/1   | 0.63 | 0.22 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 4082 | 1/1   | 0.64 | 0.24 | 75,75,75,75                 | 0     |
| 57  | MG   | 2a    | 1734 | 1/1   | 0.66 | 0.15 | 88,88,88,88                 | 0     |
| 57  | MG   | 2A    | 3577 | 1/1   | 0.67 | 0.23 | 67,67,67,67                 | 0     |
| 57  | MG   | 1G    | 204  | 1/1   | 0.68 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3605 | 1/1   | 0.69 | 0.31 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3716 | 1/1   | 0.69 | 0.27 | 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    | 3855 | 1/1   | 0.70 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1764 | 1/1   | 0.71 | 0.35 | 66,66,66,66                 | 0     |
| 57  | MG   | 2a    | 1744 | 1/1   | 0.71 | 0.18 | 79,79,79,79                 | 0     |
| 57  | MG   | 2a    | 1801 | 1/1   | 0.71 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3791 | 1/1   | 0.71 | 0.17 | 72,72,72,72                 | 0     |
| 57  | MG   | 1y    | 103  | 1/1   | 0.71 | 0.17 | 83,83,83,83                 | 0     |
| 57  | MG   | 2a    | 1618 | 1/1   | 0.72 | 0.22 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3699 | 1/1   | 0.72 | 0.19 | 83,83,83,83                 | 0     |
| 57  | MG   | 1B    | 226  | 1/1   | 0.72 | 0.25 | 71,71,71,71                 | 0     |
| 57  | MG   | 2w    | 105  | 1/1   | 0.72 | 0.16 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 3996 | 1/1   | 0.73 | 0.23 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3410 | 1/1   | 0.73 | 0.17 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3731 | 1/1   | 0.73 | 0.19 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3884 | 1/1   | 0.73 | 0.29 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3589 | 1/1   | 0.74 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3544 | 1/1   | 0.74 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4033 | 1/1   | 0.74 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3872 | 1/1   | 0.74 | 0.20 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3722 | 1/1   | 0.75 | 0.21 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1807 | 1/1   | 0.75 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1803 | 1/1   | 0.75 | 0.16 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3853 | 1/1   | 0.75 | 0.15 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3974 | 1/1   | 0.75 | 0.12 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1699 | 1/1   | 0.76 | 0.31 | 69,69,69,69                 | 0     |
| 57  | MG   | 1d    | 301  | 1/1   | 0.76 | 0.27 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3657 | 1/1   | 0.76 | 0.17 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3764 | 1/1   | 0.76 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3349 | 1/1   | 0.76 | 0.20 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3633 | 1/1   | 0.76 | 0.20 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3654 | 1/1   | 0.76 | 0.18 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3669 | 1/1   | 0.76 | 0.23 | 75,75,75,75                 | 0     |
| 57  | MG   | 2a    | 1670 | 1/1   | 0.77 | 0.23 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3773 | 1/1   | 0.77 | 0.23 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3352 | 1/1   | 0.77 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3678 | 1/1   | 0.77 | 0.18 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 4065 | 1/1   | 0.78 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3617 | 1/1   | 0.78 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3841 | 1/1   | 0.78 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 2B    | 212  | 1/1   | 0.79 | 0.28 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 4046 | 1/1   | 0.79 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4105 | 1/1   | 0.79 | 0.13 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3748 | 1/1   | 0.79 | 0.18 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1V    | 209  | 1/1   | 0.79 | 0.12 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3768 | 1/1   | 0.79 | 0.19 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 4112 | 1/1   | 0.79 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3430 | 1/1   | 0.79 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1778 | 1/1   | 0.79 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1788 | 1/1   | 0.79 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2w    | 102  | 1/1   | 0.79 | 0.26 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3578 | 1/1   | 0.79 | 0.21 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3402 | 1/1   | 0.80 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 2N    | 201  | 1/1   | 0.80 | 0.20 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3111 | 1/1   | 0.80 | 0.22 | 67,67,67,67                 | 0     |
| 57  | MG   | 2a    | 1829 | 1/1   | 0.80 | 0.18 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1774 | 1/1   | 0.80 | 0.12 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3292 | 1/1   | 0.80 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3645 | 1/1   | 0.80 | 0.26 | 66,66,66,66                 | 0     |
| 57  | MG   | 18    | 106  | 1/1   | 0.81 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3420 | 1/1   | 0.81 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3422 | 1/1   | 0.81 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3442 | 1/1   | 0.81 | 0.43 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3683 | 1/1   | 0.81 | 0.18 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3534 | 1/1   | 0.81 | 0.27 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1681 | 1/1   | 0.81 | 0.24 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1711 | 1/1   | 0.81 | 0.20 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3892 | 1/1   | 0.81 | 0.18 | 31,31,31,31                 | 0     |
| 57  | MG   | 1v    | 101  | 1/1   | 0.81 | 0.16 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 4056 | 1/1   | 0.81 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3090 | 1/1   | 0.81 | 0.13 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3597 | 1/1   | 0.81 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3854 | 1/1   | 0.81 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1830 | 1/1   | 0.81 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 2a    | 1837 | 1/1   | 0.81 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3690 | 1/1   | 0.81 | 0.22 | 69,69,69,69                 | 0     |
| 57  | MG   | 2j    | 201  | 1/1   | 0.81 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3779 | 1/1   | 0.81 | 0.10 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3640 | 1/1   | 0.81 | 0.15 | 39,39,39,39                 | 0     |
| 57  | MG   | 2a    | 1620 | 1/1   | 0.82 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 2a    | 1631 | 1/1   | 0.82 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 2a    | 1664 | 1/1   | 0.82 | 0.20 | 78,78,78,78                 | 0     |
| 57  | MG   | 1a    | 1766 | 1/1   | 0.82 | 0.18 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3752 | 1/1   | 0.82 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3620 | 1/1   | 0.82 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 2a    | 1724 | 1/1   | 0.82 | 0.24 | 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    | 3916 | 1/1   | 0.82 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 4111 | 1/1   | 0.82 | 0.11 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3101 | 1/1   | 0.82 | 0.28 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3805 | 1/1   | 0.82 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3811 | 1/1   | 0.82 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3731 | 1/1   | 0.82 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3258 | 1/1   | 0.82 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 2a    | 1834 | 1/1   | 0.82 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3287 | 1/1   | 0.82 | 0.31 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3348 | 1/1   | 0.82 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3651 | 1/1   | 0.82 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3533 | 1/1   | 0.82 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3380 | 1/1   | 0.82 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 2y    | 106  | 1/1   | 0.82 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3278 | 1/1   | 0.83 | 0.20 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 4073 | 1/1   | 0.83 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3305 | 1/1   | 0.83 | 0.17 | 62,62,62,62                 | 0     |
| 57  | MG   | 2a    | 1797 | 1/1   | 0.83 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3531 | 1/1   | 0.83 | 0.23 | 67,67,67,67                 | 0     |
| 57  | MG   | 2a    | 1803 | 1/1   | 0.83 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3323 | 1/1   | 0.83 | 0.15 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3758 | 1/1   | 0.83 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1609 | 1/1   | 0.83 | 0.14 | 75,75,75,75                 | 0     |
| 57  | MG   | 1A    | 3748 | 1/1   | 0.83 | 0.15 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3810 | 1/1   | 0.83 | 0.19 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3115 | 1/1   | 0.83 | 0.36 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3673 | 1/1   | 0.83 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3235 | 1/1   | 0.83 | 0.29 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 4040 | 1/1   | 0.83 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1698 | 1/1   | 0.83 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3824 | 1/1   | 0.83 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3819 | 1/1   | 0.84 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3180 | 1/1   | 0.84 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3415 | 1/1   | 0.84 | 0.24 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1726 | 1/1   | 0.84 | 0.28 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3857 | 1/1   | 0.84 | 0.15 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3613 | 1/1   | 0.84 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3882 | 1/1   | 0.84 | 0.20 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3265 | 1/1   | 0.84 | 0.21 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1748 | 1/1   | 0.84 | 0.16 | 68,68,68,68                 | 0     |
| 57  | MG   | 2F    | 306  | 1/1   | 0.84 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3570 | 1/1   | 0.84 | 0.30 | 71,71,71,71                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3606 | 1/1   | 0.84 | 0.21 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4090 | 1/1   | 0.84 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3331 | 1/1   | 0.84 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3664 | 1/1   | 0.84 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3340 | 1/1   | 0.84 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3733 | 1/1   | 0.84 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3965 | 1/1   | 0.84 | 0.13 | 76,76,76,76                 | 0     |
| 57  | MG   | 1A    | 3615 | 1/1   | 0.84 | 0.12 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3690 | 1/1   | 0.84 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1818 | 1/1   | 0.84 | 0.11 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3702 | 1/1   | 0.84 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1743 | 1/1   | 0.84 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3359 | 1/1   | 0.84 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3798 | 1/1   | 0.84 | 0.19 | 75,75,75,75                 | 0     |
| 57  | MG   | 2A    | 3738 | 1/1   | 0.84 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1x    | 103  | 1/1   | 0.84 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 1B    | 232  | 1/1   | 0.84 | 0.16 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3507 | 1/1   | 0.84 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3762 | 1/1   | 0.84 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3461 | 1/1   | 0.84 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3816 | 1/1   | 0.84 | 0.17 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3106 | 1/1   | 0.84 | 0.18 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3564 | 1/1   | 0.84 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3674 | 1/1   | 0.84 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 1a    | 1628 | 1/1   | 0.84 | 0.23 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3814 | 1/1   | 0.84 | 0.12 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3817 | 1/1   | 0.84 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1x    | 109  | 1/1   | 0.85 | 0.15 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3646 | 1/1   | 0.85 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1602 | 1/1   | 0.85 | 0.12 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3028 | 1/1   | 0.85 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3571 | 1/1   | 0.85 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3743 | 1/1   | 0.85 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 1l    | 105  | 1/1   | 0.85 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3339 | 1/1   | 0.85 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3753 | 1/1   | 0.85 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3634 | 1/1   | 0.85 | 0.18 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1685 | 1/1   | 0.85 | 0.20 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1687 | 1/1   | 0.85 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3341 | 1/1   | 0.85 | 0.28 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1782 | 1/1   | 0.85 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1787 | 1/1   | 0.85 | 0.12 | 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    | 4021 | 1/1   | 0.85 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3366 | 1/1   | 0.85 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3623 | 1/1   | 0.85 | 0.14 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3367 | 1/1   | 0.85 | 0.15 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3813 | 1/1   | 0.85 | 0.12 | 77,77,77,77                 | 0     |
| 57  | MG   | 2A    | 3373 | 1/1   | 0.85 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3170 | 1/1   | 0.85 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1817 | 1/1   | 0.85 | 0.20 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3920 | 1/1   | 0.85 | 0.20 | 66,66,66,66                 | 0     |
| 57  | MG   | 1a    | 1722 | 1/1   | 0.85 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3243 | 1/1   | 0.85 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3430 | 1/1   | 0.85 | 0.27 | 54,54,54,54                 | 0     |
| 57  | MG   | 1B    | 227  | 1/1   | 0.85 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3466 | 1/1   | 0.85 | 0.28 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3686 | 1/1   | 0.85 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 2B    | 208  | 1/1   | 0.85 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 2w    | 103  | 1/1   | 0.85 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3935 | 1/1   | 0.85 | 0.11 | 26,26,26,26                 | 0     |
| 57  | MG   | 2y    | 103  | 1/1   | 0.85 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3797 | 1/1   | 0.85 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3355 | 1/1   | 0.86 | 0.27 | 79,79,79,79                 | 0     |
| 57  | MG   | 2A    | 3357 | 1/1   | 0.86 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3677 | 1/1   | 0.86 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 2B    | 220  | 1/1   | 0.86 | 0.20 | 70,70,70,70                 | 0     |
| 57  | MG   | 1E    | 310  | 1/1   | 0.86 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4030 | 1/1   | 0.86 | 0.20 | 42,42,42,42                 | 0     |
| 57  | MG   | 26    | 101  | 1/1   | 0.86 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3353 | 1/1   | 0.86 | 0.14 | 70,70,70,70                 | 0     |
| 57  | MG   | 2a    | 1603 | 1/1   | 0.86 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3687 | 1/1   | 0.86 | 0.20 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1611 | 1/1   | 0.86 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3008 | 1/1   | 0.86 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3900 | 1/1   | 0.86 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 18    | 104  | 1/1   | 0.86 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3903 | 1/1   | 0.86 | 0.10 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3914 | 1/1   | 0.86 | 0.28 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3539 | 1/1   | 0.86 | 0.20 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3739 | 1/1   | 0.86 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1704 | 1/1   | 0.86 | 0.33 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3124 | 1/1   | 0.86 | 0.33 | 72,72,72,72                 | 0     |
| 57  | MG   | 2a    | 1699 | 1/1   | 0.86 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 2a    | 1710 | 1/1   | 0.86 | 0.15 | 60,60,60,60                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 4067 | 1/1   | 0.86 | 0.10 | 30,30,30,30                 | 0     |
| 57  | MG   | 2a    | 1719 | 1/1   | 0.86 | 0.30 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3533 | 1/1   | 0.86 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3174 | 1/1   | 0.86 | 0.17 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 4072 | 1/1   | 0.86 | 0.13 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3293 | 1/1   | 0.86 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1760 | 1/1   | 0.86 | 0.17 | 69,69,69,69                 | 0     |
| 57  | MG   | 2a    | 1772 | 1/1   | 0.86 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 2a    | 1780 | 1/1   | 0.86 | 0.12 | 79,79,79,79                 | 0     |
| 57  | MG   | 1A    | 3925 | 1/1   | 0.86 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 4087 | 1/1   | 0.86 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3759 | 1/1   | 0.86 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 4093 | 1/1   | 0.86 | 0.24 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3285 | 1/1   | 0.86 | 0.17 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3947 | 1/1   | 0.86 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3849 | 1/1   | 0.86 | 0.24 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3768 | 1/1   | 0.86 | 0.19 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1792 | 1/1   | 0.86 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1796 | 1/1   | 0.86 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3991 | 1/1   | 0.86 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3774 | 1/1   | 0.86 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 4008 | 1/1   | 0.86 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3863 | 1/1   | 0.86 | 0.24 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3326 | 1/1   | 0.86 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 1x    | 101  | 1/1   | 0.86 | 0.10 | 22,22,22,22                 | 0     |
| 57  | MG   | 2B    | 203  | 1/1   | 0.86 | 0.31 | 66,66,66,66                 | 0     |
| 57  | MG   | 1R    | 204  | 1/1   | 0.87 | 0.21 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3599 | 1/1   | 0.87 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3602 | 1/1   | 0.87 | 0.25 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3294 | 1/1   | 0.87 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3297 | 1/1   | 0.87 | 0.15 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3298 | 1/1   | 0.87 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3618 | 1/1   | 0.87 | 0.20 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3698 | 1/1   | 0.87 | 0.12 | 28,28,28,28                 | 0     |
| 57  | MG   | 2D    | 304  | 1/1   | 0.87 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3310 | 1/1   | 0.87 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1Z    | 302  | 1/1   | 0.87 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 2Q    | 204  | 1/1   | 0.87 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3637 | 1/1   | 0.87 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 2a    | 1601 | 1/1   | 0.87 | 0.13 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3324 | 1/1   | 0.87 | 0.17 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3327 | 1/1   | 0.87 | 0.15 | 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   | 1l    | 202  | 1/1   | 0.87 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3933 | 1/1   | 0.87 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 13    | 104  | 1/1   | 0.87 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3705 | 1/1   | 0.87 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3345 | 1/1   | 0.87 | 0.23 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1646 | 1/1   | 0.87 | 0.30 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1660 | 1/1   | 0.87 | 0.17 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3720 | 1/1   | 0.87 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3680 | 1/1   | 0.87 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1x    | 110  | 1/1   | 0.87 | 0.19 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3952 | 1/1   | 0.87 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4085 | 1/1   | 0.87 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3958 | 1/1   | 0.87 | 0.08 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3693 | 1/1   | 0.87 | 0.09 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1707 | 1/1   | 0.87 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3058 | 1/1   | 0.87 | 0.24 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1705 | 1/1   | 0.87 | 0.19 | 60,60,60,60                 | 0     |
| 57  | MG   | 2a    | 1712 | 1/1   | 0.87 | 0.21 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1720 | 1/1   | 0.87 | 0.34 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1721 | 1/1   | 0.87 | 0.21 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3821 | 1/1   | 0.87 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1727 | 1/1   | 0.87 | 0.28 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3521 | 1/1   | 0.87 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3628 | 1/1   | 0.87 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3522 | 1/1   | 0.87 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3747 | 1/1   | 0.87 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3424 | 1/1   | 0.87 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3133 | 1/1   | 0.87 | 0.14 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3335 | 1/1   | 0.87 | 0.25 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3453 | 1/1   | 0.87 | 0.30 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 4121 | 1/1   | 0.87 | 0.26 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1806 | 1/1   | 0.87 | 0.15 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3756 | 1/1   | 0.87 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3517 | 1/1   | 0.87 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1822 | 1/1   | 0.87 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3186 | 1/1   | 0.87 | 0.20 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3211 | 1/1   | 0.87 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3215 | 1/1   | 0.87 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1833 | 1/1   | 0.87 | 0.14 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3539 | 1/1   | 0.87 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3647 | 1/1   | 0.87 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3336 | 1/1   | 0.87 | 0.15 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2d    | 301  | 1/1   | 0.87 | 0.33 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3565 | 1/1   | 0.87 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2r    | 101  | 1/1   | 0.87 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3568 | 1/1   | 0.87 | 0.15 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3316 | 1/1   | 0.87 | 0.17 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3594 | 1/1   | 0.87 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1794 | 1/1   | 0.87 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3211 | 1/1   | 0.87 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1x    | 111  | 1/1   | 0.88 | 0.16 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3963 | 1/1   | 0.88 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3683 | 1/1   | 0.88 | 0.10 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3431 | 1/1   | 0.88 | 0.24 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3439 | 1/1   | 0.88 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1R    | 201  | 1/1   | 0.88 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3808 | 1/1   | 0.88 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3456 | 1/1   | 0.88 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3871 | 1/1   | 0.88 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3978 | 1/1   | 0.88 | 0.29 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3988 | 1/1   | 0.88 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3889 | 1/1   | 0.88 | 0.24 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3890 | 1/1   | 0.88 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3593 | 1/1   | 0.88 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3193 | 1/1   | 0.88 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 15    | 107  | 1/1   | 0.88 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4000 | 1/1   | 0.88 | 0.09 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3604 | 1/1   | 0.88 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3150 | 1/1   | 0.88 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 2E    | 305  | 1/1   | 0.88 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3153 | 1/1   | 0.88 | 0.19 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1604 | 1/1   | 0.88 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1611 | 1/1   | 0.88 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2W    | 202  | 1/1   | 0.88 | 0.20 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3846 | 1/1   | 0.88 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1635 | 1/1   | 0.88 | 0.29 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1638 | 1/1   | 0.88 | 0.24 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1654 | 1/1   | 0.88 | 0.25 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3227 | 1/1   | 0.88 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3228 | 1/1   | 0.88 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1659 | 1/1   | 0.88 | 0.21 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1680 | 1/1   | 0.88 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2a    | 1621 | 1/1   | 0.88 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3252 | 1/1   | 0.88 | 0.17 | 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   | 2A    | 3256 | 1/1   | 0.88 | 0.32 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1691 | 1/1   | 0.88 | 0.18 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3714 | 1/1   | 0.88 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3027 | 1/1   | 0.88 | 0.21 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3281 | 1/1   | 0.88 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1682 | 1/1   | 0.88 | 0.23 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3609 | 1/1   | 0.88 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3857 | 1/1   | 0.88 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3288 | 1/1   | 0.88 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 4048 | 1/1   | 0.88 | 0.10 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3875 | 1/1   | 0.88 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1727 | 1/1   | 0.88 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3502 | 1/1   | 0.88 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3247 | 1/1   | 0.88 | 0.10 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3316 | 1/1   | 0.88 | 0.13 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3321 | 1/1   | 0.88 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3896 | 1/1   | 0.88 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3741 | 1/1   | 0.88 | 0.12 | 68,68,68,68                 | 0     |
| 57  | MG   | 2a    | 1728 | 1/1   | 0.88 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3262 | 1/1   | 0.88 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1738 | 1/1   | 0.88 | 0.10 | 79,79,79,79                 | 0     |
| 57  | MG   | 1a    | 1779 | 1/1   | 0.88 | 0.10 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3905 | 1/1   | 0.88 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3750 | 1/1   | 0.88 | 0.08 | 28,28,28,28                 | 0     |
| 57  | MG   | 2a    | 1763 | 1/1   | 0.88 | 0.09 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3074 | 1/1   | 0.88 | 0.23 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3710 | 1/1   | 0.88 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3077 | 1/1   | 0.88 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1798 | 1/1   | 0.88 | 0.14 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3719 | 1/1   | 0.88 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3721 | 1/1   | 0.88 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1804 | 1/1   | 0.88 | 0.14 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 4094 | 1/1   | 0.88 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 4100 | 1/1   | 0.88 | 0.18 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3765 | 1/1   | 0.88 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3544 | 1/1   | 0.88 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3562 | 1/1   | 0.88 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3364 | 1/1   | 0.88 | 0.39 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3749 | 1/1   | 0.88 | 0.18 | 67,67,67,67                 | 0     |
| 57  | MG   | 2a    | 1831 | 1/1   | 0.88 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3936 | 1/1   | 0.88 | 0.10 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3098 | 1/1   | 0.88 | 0.22 | 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    | 3790 | 1/1   | 0.88 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3375 | 1/1   | 0.88 | 0.21 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3379 | 1/1   | 0.88 | 0.17 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3678 | 1/1   | 0.88 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2I    | 203  | 1/1   | 0.88 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3397 | 1/1   | 0.88 | 0.26 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3775 | 1/1   | 0.88 | 0.13 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3959 | 1/1   | 0.88 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3403 | 1/1   | 0.88 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 2y    | 102  | 1/1   | 0.88 | 0.11 | 74,74,74,74                 | 0     |
| 57  | MG   | 2A    | 3417 | 1/1   | 0.88 | 0.24 | 71,71,71,71                 | 0     |
| 57  | MG   | 1E    | 308  | 1/1   | 0.88 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 4066 | 1/1   | 0.89 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3328 | 1/1   | 0.89 | 0.16 | 66,66,66,66                 | 0     |
| 57  | MG   | 2B    | 210  | 1/1   | 0.89 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 1Q    | 204  | 1/1   | 0.89 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 2B    | 214  | 1/1   | 0.89 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1735 | 1/1   | 0.89 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1741 | 1/1   | 0.89 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3352 | 1/1   | 0.89 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1749 | 1/1   | 0.89 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 2F    | 303  | 1/1   | 0.89 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3805 | 1/1   | 0.89 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1a    | 1765 | 1/1   | 0.89 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3626 | 1/1   | 0.89 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3493 | 1/1   | 0.89 | 0.16 | 61,61,61,61                 | 0     |
| 57  | MG   | 25    | 105  | 1/1   | 0.89 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1768 | 1/1   | 0.89 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3607 | 1/1   | 0.89 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 10    | 107  | 1/1   | 0.89 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3365 | 1/1   | 0.89 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1604 | 1/1   | 0.89 | 0.29 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4084 | 1/1   | 0.89 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3666 | 1/1   | 0.89 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1616 | 1/1   | 0.89 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3667 | 1/1   | 0.89 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3191 | 1/1   | 0.89 | 0.22 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3983 | 1/1   | 0.89 | 0.14 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1626 | 1/1   | 0.89 | 0.21 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3906 | 1/1   | 0.89 | 0.13 | 35,35,35,35                 | 0     |
| 57  | MG   | 2a    | 1633 | 1/1   | 0.89 | 0.14 | 73,73,73,73                 | 0     |
| 57  | MG   | 2a    | 1636 | 1/1   | 0.89 | 0.32 | 72,72,72,72                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3377 | 1/1   | 0.89 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3378 | 1/1   | 0.89 | 0.22 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3217 | 1/1   | 0.89 | 0.24 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3684 | 1/1   | 0.89 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 2a    | 1671 | 1/1   | 0.89 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3913 | 1/1   | 0.89 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3992 | 1/1   | 0.89 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3400 | 1/1   | 0.89 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3692 | 1/1   | 0.89 | 0.19 | 36,36,36,36                 | 0     |
| 57  | MG   | 1a    | 1603 | 1/1   | 0.89 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3006 | 1/1   | 0.89 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3413 | 1/1   | 0.89 | 0.16 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3706 | 1/1   | 0.89 | 0.09 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3551 | 1/1   | 0.89 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3510 | 1/1   | 0.89 | 0.18 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1714 | 1/1   | 0.89 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3717 | 1/1   | 0.89 | 0.16 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3257 | 1/1   | 0.89 | 0.22 | 59,59,59,59                 | 0     |
| 57  | MG   | 1b    | 302  | 1/1   | 0.89 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1726 | 1/1   | 0.89 | 0.27 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3260 | 1/1   | 0.89 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3700 | 1/1   | 0.89 | 0.09 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3435 | 1/1   | 0.89 | 0.23 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3740 | 1/1   | 0.89 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4024 | 1/1   | 0.89 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3767 | 1/1   | 0.89 | 0.07 | 17,17,17,17                 | 0     |
| 57  | MG   | 2a    | 1746 | 1/1   | 0.89 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1749 | 1/1   | 0.89 | 0.10 | 92,92,92,92                 | 0     |
| 57  | MG   | 2A    | 3443 | 1/1   | 0.89 | 0.27 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3447 | 1/1   | 0.89 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3284 | 1/1   | 0.89 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 1B    | 219  | 1/1   | 0.89 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1789 | 1/1   | 0.89 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1795 | 1/1   | 0.89 | 0.19 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3464 | 1/1   | 0.89 | 0.21 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1674 | 1/1   | 0.89 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3472 | 1/1   | 0.89 | 0.29 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3495 | 1/1   | 0.89 | 0.19 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3505 | 1/1   | 0.89 | 0.13 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3563 | 1/1   | 0.89 | 0.29 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3638 | 1/1   | 0.89 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3802 | 1/1   | 0.89 | 0.15 | 73,73,73,73                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3530 | 1/1   | 0.89 | 0.19 | 71,71,71,71                 | 0     |
| 57  | MG   | 2A    | 3807 | 1/1   | 0.89 | 0.09 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3339 | 1/1   | 0.89 | 0.31 | 69,69,69,69                 | 0     |
| 57  | MG   | 1x    | 112  | 1/1   | 0.89 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1y    | 102  | 1/1   | 0.89 | 0.25 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3816 | 1/1   | 0.89 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3308 | 1/1   | 0.89 | 0.22 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3818 | 1/1   | 0.89 | 0.16 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3542 | 1/1   | 0.89 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3451 | 1/1   | 0.89 | 0.18 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3560 | 1/1   | 0.89 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3888 | 1/1   | 0.89 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3317 | 1/1   | 0.89 | 0.18 | 62,62,62,62                 | 0     |
| 57  | MG   | 2t    | 201  | 1/1   | 0.89 | 0.21 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3567 | 1/1   | 0.89 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3526 | 1/1   | 0.89 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3322 | 1/1   | 0.89 | 0.14 | 58,58,58,58                 | 0     |
| 57  | MG   | 2w    | 109  | 1/1   | 0.89 | 0.25 | 62,62,62,62                 | 0     |
| 57  | MG   | 2x    | 102  | 1/1   | 0.89 | 0.11 | 67,67,67,67                 | 0     |
| 57  | MG   | 1G    | 203  | 1/1   | 0.89 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3067 | 1/1   | 0.89 | 0.15 | 49,49,49,49                 | 0     |
| 57  | MG   | 2y    | 104  | 1/1   | 0.89 | 0.16 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3325 | 1/1   | 0.89 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3593 | 1/1   | 0.90 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3692 | 1/1   | 0.90 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1629 | 1/1   | 0.90 | 0.32 | 52,52,52,52                 | 0     |
| 57  | MG   | 2B    | 217  | 1/1   | 0.90 | 0.16 | 77,77,77,77                 | 0     |
| 57  | MG   | 1A    | 3775 | 1/1   | 0.90 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3985 | 1/1   | 0.90 | 0.18 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3612 | 1/1   | 0.90 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1643 | 1/1   | 0.90 | 0.18 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3899 | 1/1   | 0.90 | 0.13 | 30,30,30,30                 | 0     |
| 57  | MG   | 1a    | 1657 | 1/1   | 0.90 | 0.21 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3776 | 1/1   | 0.90 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3063 | 1/1   | 0.90 | 0.11 | 62,62,62,62                 | 0     |
| 57  | MG   | 2V    | 201  | 1/1   | 0.90 | 0.14 | 66,66,66,66                 | 0     |
| 57  | MG   | 2V    | 203  | 1/1   | 0.90 | 0.15 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3064 | 1/1   | 0.90 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 2I    | 101  | 1/1   | 0.90 | 0.25 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3294 | 1/1   | 0.90 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1676 | 1/1   | 0.90 | 0.29 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3994 | 1/1   | 0.90 | 0.12 | 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    | 3642 | 1/1   | 0.90 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3643 | 1/1   | 0.90 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 1a    | 1688 | 1/1   | 0.90 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1608 | 1/1   | 0.90 | 0.23 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4115 | 1/1   | 0.90 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1697 | 1/1   | 0.90 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3118 | 1/1   | 0.90 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4118 | 1/1   | 0.90 | 0.13 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1619 | 1/1   | 0.90 | 0.18 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3377 | 1/1   | 0.90 | 0.11 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4122 | 1/1   | 0.90 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3675 | 1/1   | 0.90 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 2a    | 1630 | 1/1   | 0.90 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3369 | 1/1   | 0.90 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3372 | 1/1   | 0.90 | 0.24 | 60,60,60,60                 | 0     |
| 57  | MG   | 1B    | 207  | 1/1   | 0.90 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1641 | 1/1   | 0.90 | 0.35 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1643 | 1/1   | 0.90 | 0.24 | 56,56,56,56                 | 0     |
| 57  | MG   | 2a    | 1645 | 1/1   | 0.90 | 0.31 | 67,67,67,67                 | 0     |
| 57  | MG   | 1B    | 213  | 1/1   | 0.90 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2a    | 1656 | 1/1   | 0.90 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3172 | 1/1   | 0.90 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 2a    | 1663 | 1/1   | 0.90 | 0.25 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3305 | 1/1   | 0.90 | 0.25 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1667 | 1/1   | 0.90 | 0.16 | 63,63,63,63                 | 0     |
| 57  | MG   | 1B    | 220  | 1/1   | 0.90 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4001 | 1/1   | 0.90 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3384 | 1/1   | 0.90 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1736 | 1/1   | 0.90 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3202 | 1/1   | 0.90 | 0.28 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 4003 | 1/1   | 0.90 | 0.14 | 23,23,23,23                 | 0     |
| 57  | MG   | 1a    | 1744 | 1/1   | 0.90 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3408 | 1/1   | 0.90 | 0.14 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3216 | 1/1   | 0.90 | 0.11 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3618 | 1/1   | 0.90 | 0.10 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3718 | 1/1   | 0.90 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3419 | 1/1   | 0.90 | 0.16 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3220 | 1/1   | 0.90 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3225 | 1/1   | 0.90 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3733 | 1/1   | 0.90 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3735 | 1/1   | 0.90 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3536 | 1/1   | 0.90 | 0.21 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3168 | 1/1   | 0.90 | 0.30 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 4025 | 1/1   | 0.90 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2a    | 1729 | 1/1   | 0.90 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4027 | 1/1   | 0.90 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 2a    | 1735 | 1/1   | 0.90 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3252 | 1/1   | 0.90 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3253 | 1/1   | 0.90 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3458 | 1/1   | 0.90 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3841 | 1/1   | 0.90 | 0.13 | 60,60,60,60                 | 0     |
| 57  | MG   | 1S    | 202  | 1/1   | 0.90 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1753 | 1/1   | 0.90 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3754 | 1/1   | 0.90 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3455 | 1/1   | 0.90 | 0.36 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3205 | 1/1   | 0.90 | 0.20 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1775 | 1/1   | 0.90 | 0.09 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3461 | 1/1   | 0.90 | 0.31 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3766 | 1/1   | 0.90 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1Y    | 201  | 1/1   | 0.90 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3770 | 1/1   | 0.90 | 0.12 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1791 | 1/1   | 0.90 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3940 | 1/1   | 0.90 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3494 | 1/1   | 0.90 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3798 | 1/1   | 0.90 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3944 | 1/1   | 0.90 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3472 | 1/1   | 0.90 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3291 | 1/1   | 0.90 | 0.12 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1818 | 1/1   | 0.90 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3290 | 1/1   | 0.90 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 1a    | 1817 | 1/1   | 0.90 | 0.09 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3295 | 1/1   | 0.90 | 0.11 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3955 | 1/1   | 0.90 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3344 | 1/1   | 0.90 | 0.18 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3299 | 1/1   | 0.90 | 0.23 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3302 | 1/1   | 0.90 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1835 | 1/1   | 0.90 | 0.24 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3543 | 1/1   | 0.90 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3830 | 1/1   | 0.90 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3831 | 1/1   | 0.90 | 0.11 | 63,63,63,63                 | 0     |
| 57  | MG   | 2g    | 201  | 1/1   | 0.90 | 0.08 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3763 | 1/1   | 0.90 | 0.08 | 32,32,32,32                 | 0     |
| 57  | MG   | 2j    | 202  | 1/1   | 0.90 | 0.10 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3554 | 1/1   | 0.90 | 0.14 | 37,37,37,37                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2q    | 202  | 1/1   | 0.90 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3189 | 1/1   | 0.90 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3685 | 1/1   | 0.90 | 0.06 | 24,24,24,24                 | 0     |
| 57  | MG   | 2v    | 103  | 1/1   | 0.90 | 0.34 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3311 | 1/1   | 0.90 | 0.20 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3313 | 1/1   | 0.90 | 0.18 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3878 | 1/1   | 0.90 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3314 | 1/1   | 0.90 | 0.20 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1608 | 1/1   | 0.90 | 0.28 | 62,62,62,62                 | 0     |
| 57  | MG   | 2x    | 104  | 1/1   | 0.90 | 0.18 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3245 | 1/1   | 0.90 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 2B    | 202  | 1/1   | 0.90 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3320 | 1/1   | 0.90 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 2y    | 105  | 1/1   | 0.90 | 0.08 | 94,94,94,94                 | 0     |
| 57  | MG   | 1a    | 1625 | 1/1   | 0.90 | 0.25 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3876 | 1/1   | 0.91 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3519 | 1/1   | 0.91 | 0.30 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3527 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3824 | 1/1   | 0.91 | 0.18 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3469 | 1/1   | 0.91 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3843 | 1/1   | 0.91 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3276 | 1/1   | 0.91 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3710 | 1/1   | 0.91 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3598 | 1/1   | 0.91 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3719 | 1/1   | 0.91 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1B    | 228  | 1/1   | 0.91 | 0.10 | 67,67,67,67                 | 0     |
| 57  | MG   | 2B    | 216  | 1/1   | 0.91 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3551 | 1/1   | 0.91 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3552 | 1/1   | 0.91 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3553 | 1/1   | 0.91 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3286 | 1/1   | 0.91 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3311 | 1/1   | 0.91 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 1D    | 301  | 1/1   | 0.91 | 0.25 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3026 | 1/1   | 0.91 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 2G    | 201  | 1/1   | 0.91 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3500 | 1/1   | 0.91 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2Q    | 202  | 1/1   | 0.91 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4004 | 1/1   | 0.91 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3320 | 1/1   | 0.91 | 0.22 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3575 | 1/1   | 0.91 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 2W    | 201  | 1/1   | 0.91 | 0.16 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 4012 | 1/1   | 0.91 | 0.16 | 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    | 4013 | 1/1   | 0.91 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3582 | 1/1   | 0.91 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3584 | 1/1   | 0.91 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1R    | 203  | 1/1   | 0.91 | 0.12 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3590 | 1/1   | 0.91 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4016 | 1/1   | 0.91 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3307 | 1/1   | 0.91 | 0.08 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1605 | 1/1   | 0.91 | 0.23 | 62,62,62,62                 | 0     |
| 57  | MG   | 2a    | 1606 | 1/1   | 0.91 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1607 | 1/1   | 0.91 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1815 | 1/1   | 0.91 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3309 | 1/1   | 0.91 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4017 | 1/1   | 0.91 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3610 | 1/1   | 0.91 | 0.15 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3611 | 1/1   | 0.91 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1T    | 202  | 1/1   | 0.91 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3734 | 1/1   | 0.91 | 0.16 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3505 | 1/1   | 0.91 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3617 | 1/1   | 0.91 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1628 | 1/1   | 0.91 | 0.17 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3185 | 1/1   | 0.91 | 0.24 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3319 | 1/1   | 0.91 | 0.22 | 42,42,42,42                 | 0     |
| 57  | MG   | 1w    | 106  | 1/1   | 0.91 | 0.20 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3629 | 1/1   | 0.91 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3392 | 1/1   | 0.91 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 2a    | 1642 | 1/1   | 0.91 | 0.20 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3333 | 1/1   | 0.91 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1x    | 108  | 1/1   | 0.91 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4039 | 1/1   | 0.91 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1655 | 1/1   | 0.91 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3904 | 1/1   | 0.91 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 4044 | 1/1   | 0.91 | 0.11 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3411 | 1/1   | 0.91 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3764 | 1/1   | 0.91 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3334 | 1/1   | 0.91 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3336 | 1/1   | 0.91 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 4052 | 1/1   | 0.91 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3414 | 1/1   | 0.91 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3017 | 1/1   | 0.91 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1683 | 1/1   | 0.91 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1620 | 1/1   | 0.91 | 0.26 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3050 | 1/1   | 0.91 | 0.14 | 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   | 1A    | 4058 | 1/1   | 0.91 | 0.13 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3242 | 1/1   | 0.91 | 0.21 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3650 | 1/1   | 0.91 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3356 | 1/1   | 0.91 | 0.06 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3066 | 1/1   | 0.91 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3359 | 1/1   | 0.91 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3427 | 1/1   | 0.91 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3074 | 1/1   | 0.91 | 0.15 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3079 | 1/1   | 0.91 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1723 | 1/1   | 0.91 | 0.18 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3701 | 1/1   | 0.91 | 0.11 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3080 | 1/1   | 0.91 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3428 | 1/1   | 0.91 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3370 | 1/1   | 0.91 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3094 | 1/1   | 0.91 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 2a    | 1730 | 1/1   | 0.91 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1732 | 1/1   | 0.91 | 0.23 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3932 | 1/1   | 0.91 | 0.11 | 69,69,69,69                 | 0     |
| 57  | MG   | 1a    | 1645 | 1/1   | 0.91 | 0.17 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3109 | 1/1   | 0.91 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4074 | 1/1   | 0.91 | 0.27 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3728 | 1/1   | 0.91 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4081 | 1/1   | 0.91 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 2a    | 1748 | 1/1   | 0.91 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3548 | 1/1   | 0.91 | 0.23 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1669 | 1/1   | 0.91 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3386 | 1/1   | 0.91 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3388 | 1/1   | 0.91 | 0.23 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3260 | 1/1   | 0.91 | 0.18 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3142 | 1/1   | 0.91 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3745 | 1/1   | 0.91 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3146 | 1/1   | 0.91 | 0.19 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1791 | 1/1   | 0.91 | 0.20 | 66,66,66,66                 | 0     |
| 57  | MG   | 2a    | 1794 | 1/1   | 0.91 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1675 | 1/1   | 0.91 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1796 | 1/1   | 0.91 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3445 | 1/1   | 0.91 | 0.09 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3156 | 1/1   | 0.91 | 0.15 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1799 | 1/1   | 0.91 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3164 | 1/1   | 0.91 | 0.12 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3796 | 1/1   | 0.91 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3337 | 1/1   | 0.91 | 0.13 | 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   | 2A    | 3759 | 1/1   | 0.91 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1690 | 1/1   | 0.91 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1808 | 1/1   | 0.91 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 2a    | 1813 | 1/1   | 0.91 | 0.19 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3179 | 1/1   | 0.91 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3688 | 1/1   | 0.91 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3804 | 1/1   | 0.91 | 0.14 | 32,32,32,32                 | 0     |
| 57  | MG   | 2a    | 1824 | 1/1   | 0.91 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3433 | 1/1   | 0.91 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3434 | 1/1   | 0.91 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3564 | 1/1   | 0.91 | 0.16 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3193 | 1/1   | 0.91 | 0.11 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3796 | 1/1   | 0.91 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3440 | 1/1   | 0.91 | 0.27 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3957 | 1/1   | 0.91 | 0.09 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3210 | 1/1   | 0.91 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3446 | 1/1   | 0.91 | 0.30 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4110 | 1/1   | 0.91 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 2d    | 302  | 1/1   | 0.91 | 0.09 | 61,61,61,61                 | 0     |
| 57  | MG   | 2f    | 202  | 1/1   | 0.91 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3448 | 1/1   | 0.91 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1711 | 1/1   | 0.91 | 0.14 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1713 | 1/1   | 0.91 | 0.16 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1714 | 1/1   | 0.91 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1719 | 1/1   | 0.91 | 0.15 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3806 | 1/1   | 0.91 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3822 | 1/1   | 0.91 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3200 | 1/1   | 0.91 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3579 | 1/1   | 0.91 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3310 | 1/1   | 0.91 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 2w    | 104  | 1/1   | 0.91 | 0.14 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3835 | 1/1   | 0.91 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 2w    | 106  | 1/1   | 0.91 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3820 | 1/1   | 0.91 | 0.10 | 61,61,61,61                 | 0     |
| 57  | MG   | 2x    | 101  | 1/1   | 0.91 | 0.17 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3702 | 1/1   | 0.91 | 0.08 | 20,20,20,20                 | 0     |
| 57  | MG   | 2A    | 3506 | 1/1   | 0.91 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3862 | 1/1   | 0.91 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3822 | 1/1   | 0.91 | 0.20 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3866 | 1/1   | 0.91 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3516 | 1/1   | 0.91 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1B    | 210  | 1/1   | 0.91 | 0.07 | 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    | 3809 | 1/1   | 0.92 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3122 | 1/1   | 0.92 | 0.19 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3409 | 1/1   | 0.92 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3792 | 1/1   | 0.92 | 0.07 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3125 | 1/1   | 0.92 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3128 | 1/1   | 0.92 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1684 | 1/1   | 0.92 | 0.20 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3137 | 1/1   | 0.92 | 0.25 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3140 | 1/1   | 0.92 | 0.19 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3426 | 1/1   | 0.92 | 0.20 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1685 | 1/1   | 0.92 | 0.22 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3668 | 1/1   | 0.92 | 0.07 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3834 | 1/1   | 0.92 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3432 | 1/1   | 0.92 | 0.17 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3147 | 1/1   | 0.92 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3669 | 1/1   | 0.92 | 0.06 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3671 | 1/1   | 0.92 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1692 | 1/1   | 0.92 | 0.22 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3436 | 1/1   | 0.92 | 0.13 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3864 | 1/1   | 0.92 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3059 | 1/1   | 0.92 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1702 | 1/1   | 0.92 | 0.21 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3549 | 1/1   | 0.92 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3873 | 1/1   | 0.92 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3176 | 1/1   | 0.92 | 0.09 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3968 | 1/1   | 0.92 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3451 | 1/1   | 0.92 | 0.20 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3886 | 1/1   | 0.92 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1709 | 1/1   | 0.92 | 0.13 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3184 | 1/1   | 0.92 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3891 | 1/1   | 0.92 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3971 | 1/1   | 0.92 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3550 | 1/1   | 0.92 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2B    | 204  | 1/1   | 0.92 | 0.21 | 72,72,72,72                 | 0     |
| 57  | MG   | 2B    | 206  | 1/1   | 0.92 | 0.20 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3313 | 1/1   | 0.92 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3195 | 1/1   | 0.92 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3470 | 1/1   | 0.92 | 0.27 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3199 | 1/1   | 0.92 | 0.17 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3477 | 1/1   | 0.92 | 0.35 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3200 | 1/1   | 0.92 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1718 | 1/1   | 0.92 | 0.21 | 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   | 2B    | 219  | 1/1   | 0.92 | 0.24 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3502 | 1/1   | 0.92 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3503 | 1/1   | 0.92 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2D    | 307  | 1/1   | 0.92 | 0.29 | 52,52,52,52                 | 0     |
| 57  | MG   | 2E    | 304  | 1/1   | 0.92 | 0.11 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3504 | 1/1   | 0.92 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 2F    | 302  | 1/1   | 0.92 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3209 | 1/1   | 0.92 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3457 | 1/1   | 0.92 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3170 | 1/1   | 0.92 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3508 | 1/1   | 0.92 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3509 | 1/1   | 0.92 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3694 | 1/1   | 0.92 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 2R    | 202  | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 2T    | 201  | 1/1   | 0.92 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 2U    | 202  | 1/1   | 0.92 | 0.18 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3697 | 1/1   | 0.92 | 0.10 | 35,35,35,35                 | 0     |
| 57  | MG   | 1B    | 218  | 1/1   | 0.92 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3525 | 1/1   | 0.92 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1728 | 1/1   | 0.92 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3221 | 1/1   | 0.92 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 25    | 103  | 1/1   | 0.92 | 0.12 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3224 | 1/1   | 0.92 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3287 | 1/1   | 0.92 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3832 | 1/1   | 0.92 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3835 | 1/1   | 0.92 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3229 | 1/1   | 0.92 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1742 | 1/1   | 0.92 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3236 | 1/1   | 0.92 | 0.16 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3548 | 1/1   | 0.92 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3242 | 1/1   | 0.92 | 0.22 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3836 | 1/1   | 0.92 | 0.13 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3246 | 1/1   | 0.92 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3468 | 1/1   | 0.92 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1615 | 1/1   | 0.92 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3557 | 1/1   | 0.92 | 0.17 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1617 | 1/1   | 0.92 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3558 | 1/1   | 0.92 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3253 | 1/1   | 0.92 | 0.24 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3573 | 1/1   | 0.92 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 1B    | 231  | 1/1   | 0.92 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 2a    | 1622 | 1/1   | 0.92 | 0.17 | 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   | 2a    | 1624 | 1/1   | 0.92 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3222 | 1/1   | 0.92 | 0.10 | 37,37,37,37                 | 0     |
| 57  | MG   | 2a    | 1627 | 1/1   | 0.92 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3259 | 1/1   | 0.92 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3569 | 1/1   | 0.92 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 4005 | 1/1   | 0.92 | 0.13 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1632 | 1/1   | 0.92 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3264 | 1/1   | 0.92 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1767 | 1/1   | 0.92 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3275 | 1/1   | 0.92 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4007 | 1/1   | 0.92 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1a    | 1769 | 1/1   | 0.92 | 0.22 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3580 | 1/1   | 0.92 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1776 | 1/1   | 0.92 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2a    | 1648 | 1/1   | 0.92 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 4010 | 1/1   | 0.92 | 0.09 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 4011 | 1/1   | 0.92 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3713 | 1/1   | 0.92 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 2a    | 1661 | 1/1   | 0.92 | 0.21 | 60,60,60,60                 | 0     |
| 57  | MG   | 1a    | 1785 | 1/1   | 0.92 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3603 | 1/1   | 0.92 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 1Q    | 207  | 1/1   | 0.92 | 0.14 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3606 | 1/1   | 0.92 | 0.09 | 62,62,62,62                 | 0     |
| 57  | MG   | 2A    | 3291 | 1/1   | 0.92 | 0.14 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3590 | 1/1   | 0.92 | 0.23 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3470 | 1/1   | 0.92 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3296 | 1/1   | 0.92 | 0.25 | 69,69,69,69                 | 0     |
| 57  | MG   | 2a    | 1684 | 1/1   | 0.92 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3614 | 1/1   | 0.92 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3616 | 1/1   | 0.92 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 2a    | 1692 | 1/1   | 0.92 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3863 | 1/1   | 0.92 | 0.10 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 4018 | 1/1   | 0.92 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1706 | 1/1   | 0.92 | 0.13 | 60,60,60,60                 | 0     |
| 57  | MG   | 1S    | 203  | 1/1   | 0.92 | 0.08 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3327 | 1/1   | 0.92 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1809 | 1/1   | 0.92 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1810 | 1/1   | 0.92 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1U    | 203  | 1/1   | 0.92 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 2a    | 1715 | 1/1   | 0.92 | 0.12 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3881 | 1/1   | 0.92 | 0.19 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3639 | 1/1   | 0.92 | 0.14 | 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   | 1X    | 107  | 1/1   | 0.92 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3486 | 1/1   | 0.92 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1725 | 1/1   | 0.92 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1Z    | 301  | 1/1   | 0.92 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4026 | 1/1   | 0.92 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3649 | 1/1   | 0.92 | 0.11 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3487 | 1/1   | 0.92 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1w    | 101  | 1/1   | 0.92 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3318 | 1/1   | 0.92 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3393 | 1/1   | 0.92 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3668 | 1/1   | 0.92 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 1w    | 107  | 1/1   | 0.92 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3671 | 1/1   | 0.92 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1l    | 106  | 1/1   | 0.92 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3895 | 1/1   | 0.92 | 0.12 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3676 | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3408 | 1/1   | 0.92 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3409 | 1/1   | 0.92 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4042 | 1/1   | 0.92 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3681 | 1/1   | 0.92 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 2a    | 1765 | 1/1   | 0.92 | 0.09 | 75,75,75,75                 | 0     |
| 57  | MG   | 2a    | 1769 | 1/1   | 0.92 | 0.08 | 66,66,66,66                 | 0     |
| 57  | MG   | 1a    | 1601 | 1/1   | 0.92 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3742 | 1/1   | 0.92 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1779 | 1/1   | 0.92 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3329 | 1/1   | 0.92 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1784 | 1/1   | 0.92 | 0.16 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1787 | 1/1   | 0.92 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1y    | 101  | 1/1   | 0.92 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3333 | 1/1   | 0.92 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1793 | 1/1   | 0.92 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3332 | 1/1   | 0.92 | 0.13 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3335 | 1/1   | 0.92 | 0.10 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3063 | 1/1   | 0.92 | 0.15 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3003 | 1/1   | 0.92 | 0.27 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3520 | 1/1   | 0.92 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3703 | 1/1   | 0.92 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3091 | 1/1   | 0.92 | 0.09 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3709 | 1/1   | 0.92 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3343 | 1/1   | 0.92 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3344 | 1/1   | 0.92 | 0.24 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3023 | 1/1   | 0.92 | 0.13 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1623 | 1/1   | 0.92 | 0.28 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1809 | 1/1   | 0.92 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3030 | 1/1   | 0.92 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3068 | 1/1   | 0.92 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3722 | 1/1   | 0.92 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3353 | 1/1   | 0.92 | 0.17 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1823 | 1/1   | 0.92 | 0.23 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3054 | 1/1   | 0.92 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3732 | 1/1   | 0.92 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3057 | 1/1   | 0.92 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3635 | 1/1   | 0.92 | 0.07 | 18,18,18,18                 | 0     |
| 57  | MG   | 2A    | 3059 | 1/1   | 0.92 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3524 | 1/1   | 0.92 | 0.18 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3421 | 1/1   | 0.92 | 0.20 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1636 | 1/1   | 0.92 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 4069 | 1/1   | 0.92 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1639 | 1/1   | 0.92 | 0.16 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3529 | 1/1   | 0.92 | 0.08 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3141 | 1/1   | 0.92 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3085 | 1/1   | 0.92 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3203 | 1/1   | 0.92 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3376 | 1/1   | 0.92 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3091 | 1/1   | 0.92 | 0.09 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3655 | 1/1   | 0.92 | 0.07 | 31,31,31,31                 | 0     |
| 57  | MG   | 2q    | 201  | 1/1   | 0.92 | 0.23 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3761 | 1/1   | 0.92 | 0.14 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3343 | 1/1   | 0.92 | 0.17 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3105 | 1/1   | 0.92 | 0.19 | 67,67,67,67                 | 0     |
| 57  | MG   | 2v    | 101  | 1/1   | 0.92 | 0.26 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1661 | 1/1   | 0.92 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3107 | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4083 | 1/1   | 0.92 | 0.06 | 15,15,15,15                 | 0     |
| 57  | MG   | 2A    | 3392 | 1/1   | 0.92 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3393 | 1/1   | 0.92 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3781 | 1/1   | 0.92 | 0.10 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3788 | 1/1   | 0.92 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3790 | 1/1   | 0.92 | 0.09 | 76,76,76,76                 | 0     |
| 57  | MG   | 2A    | 3394 | 1/1   | 0.92 | 0.24 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3788 | 1/1   | 0.92 | 0.12 | 36,36,36,36                 | 0     |
| 57  | MG   | 2x    | 105  | 1/1   | 0.92 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3789 | 1/1   | 0.92 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3799 | 1/1   | 0.92 | 0.08 | 71,71,71,71                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3117 | 1/1   | 0.92 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3667 | 1/1   | 0.92 | 0.07 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3407 | 1/1   | 0.92 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3642 | 1/1   | 0.93 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3547 | 1/1   | 0.93 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3753 | 1/1   | 0.93 | 0.06 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3440 | 1/1   | 0.93 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3758 | 1/1   | 0.93 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 1w    | 110  | 1/1   | 0.93 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3229 | 1/1   | 0.93 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 1x    | 102  | 1/1   | 0.93 | 0.23 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3378 | 1/1   | 0.93 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3540 | 1/1   | 0.93 | 0.28 | 56,56,56,56                 | 0     |
| 57  | MG   | 2E    | 301  | 1/1   | 0.93 | 0.22 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3453 | 1/1   | 0.93 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 4061 | 1/1   | 0.93 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3566 | 1/1   | 0.93 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3455 | 1/1   | 0.93 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1624 | 1/1   | 0.93 | 0.31 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3301 | 1/1   | 0.93 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1x    | 113  | 1/1   | 0.93 | 0.14 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3665 | 1/1   | 0.93 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1626 | 1/1   | 0.93 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 2Q    | 205  | 1/1   | 0.93 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3770 | 1/1   | 0.93 | 0.09 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3579 | 1/1   | 0.93 | 0.09 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3001 | 1/1   | 0.93 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3918 | 1/1   | 0.93 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3004 | 1/1   | 0.93 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3006 | 1/1   | 0.93 | 0.24 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1634 | 1/1   | 0.93 | 0.25 | 57,57,57,57                 | 0     |
| 57  | MG   | 2X    | 102  | 1/1   | 0.93 | 0.23 | 66,66,66,66                 | 0     |
| 57  | MG   | 2Z    | 301  | 1/1   | 0.93 | 0.09 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 4071 | 1/1   | 0.93 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 23    | 101  | 1/1   | 0.93 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 25    | 101  | 1/1   | 0.93 | 0.13 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3598 | 1/1   | 0.93 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3022 | 1/1   | 0.93 | 0.20 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3382 | 1/1   | 0.93 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1637 | 1/1   | 0.93 | 0.24 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3233 | 1/1   | 0.93 | 0.24 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3036 | 1/1   | 0.93 | 0.12 | 47,47,47,47                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3043 | 1/1   | 0.93 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3046 | 1/1   | 0.93 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3460 | 1/1   | 0.93 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3052 | 1/1   | 0.93 | 0.16 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1640 | 1/1   | 0.93 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3056 | 1/1   | 0.93 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4077 | 1/1   | 0.93 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1612 | 1/1   | 0.93 | 0.20 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3269 | 1/1   | 0.93 | 0.30 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1650 | 1/1   | 0.93 | 0.21 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3781 | 1/1   | 0.93 | 0.08 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3672 | 1/1   | 0.93 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3937 | 1/1   | 0.93 | 0.07 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3462 | 1/1   | 0.93 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3073 | 1/1   | 0.93 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3638 | 1/1   | 0.93 | 0.13 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4086 | 1/1   | 0.93 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3342 | 1/1   | 0.93 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3641 | 1/1   | 0.93 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1670 | 1/1   | 0.93 | 0.29 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3676 | 1/1   | 0.93 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3395 | 1/1   | 0.93 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3646 | 1/1   | 0.93 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3347 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3088 | 1/1   | 0.93 | 0.25 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3660 | 1/1   | 0.93 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3403 | 1/1   | 0.93 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3404 | 1/1   | 0.93 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1683 | 1/1   | 0.93 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3097 | 1/1   | 0.93 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4095 | 1/1   | 0.93 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1649 | 1/1   | 0.93 | 0.21 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1651 | 1/1   | 0.93 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3102 | 1/1   | 0.93 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4097 | 1/1   | 0.93 | 0.08 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1659 | 1/1   | 0.93 | 0.08 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3405 | 1/1   | 0.93 | 0.15 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 4102 | 1/1   | 0.93 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3108 | 1/1   | 0.93 | 0.23 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3273 | 1/1   | 0.93 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3016 | 1/1   | 0.93 | 0.23 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1669 | 1/1   | 0.93 | 0.11 | 60,60,60,60                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1693 | 1/1   | 0.93 | 0.07 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3116 | 1/1   | 0.93 | 0.28 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1695 | 1/1   | 0.93 | 0.21 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3591 | 1/1   | 0.93 | 0.08 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3161 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3967 | 1/1   | 0.93 | 0.13 | 72,72,72,72                 | 0     |
| 57  | MG   | 1A    | 3206 | 1/1   | 0.93 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3127 | 1/1   | 0.93 | 0.08 | 61,61,61,61                 | 0     |
| 57  | MG   | 2a    | 1690 | 1/1   | 0.93 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1691 | 1/1   | 0.93 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3695 | 1/1   | 0.93 | 0.10 | 75,75,75,75                 | 0     |
| 57  | MG   | 2a    | 1694 | 1/1   | 0.93 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1695 | 1/1   | 0.93 | 0.25 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1696 | 1/1   | 0.93 | 0.13 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3696 | 1/1   | 0.93 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3970 | 1/1   | 0.93 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1706 | 1/1   | 0.93 | 0.25 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3136 | 1/1   | 0.93 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1708 | 1/1   | 0.93 | 0.15 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3387 | 1/1   | 0.93 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3813 | 1/1   | 0.93 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3389 | 1/1   | 0.93 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1713 | 1/1   | 0.93 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3972 | 1/1   | 0.93 | 0.08 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1712 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2a    | 1717 | 1/1   | 0.93 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3815 | 1/1   | 0.93 | 0.21 | 29,29,29,29                 | 0     |
| 57  | MG   | 2a    | 1720 | 1/1   | 0.93 | 0.25 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3395 | 1/1   | 0.93 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3396 | 1/1   | 0.93 | 0.27 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3699 | 1/1   | 0.93 | 0.09 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3981 | 1/1   | 0.93 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3819 | 1/1   | 0.93 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3413 | 1/1   | 0.93 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3405 | 1/1   | 0.93 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3350 | 1/1   | 0.93 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3506 | 1/1   | 0.93 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1731 | 1/1   | 0.93 | 0.13 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3088 | 1/1   | 0.93 | 0.23 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3412 | 1/1   | 0.93 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3514 | 1/1   | 0.93 | 0.14 | 25,25,25,25                 | 0     |
| 57  | MG   | 1a    | 1733 | 1/1   | 0.93 | 0.14 | 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   | 2A    | 3744 | 1/1   | 0.93 | 0.07 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3418 | 1/1   | 0.93 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3833 | 1/1   | 0.93 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3998 | 1/1   | 0.93 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 1B    | 233  | 1/1   | 0.93 | 0.10 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3751 | 1/1   | 0.93 | 0.16 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3423 | 1/1   | 0.93 | 0.17 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3610 | 1/1   | 0.93 | 0.14 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1764 | 1/1   | 0.93 | 0.07 | 75,75,75,75                 | 0     |
| 57  | MG   | 1D    | 311  | 1/1   | 0.93 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3756 | 1/1   | 0.93 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3427 | 1/1   | 0.93 | 0.22 | 43,43,43,43                 | 0     |
| 57  | MG   | 1D    | 312  | 1/1   | 0.93 | 0.14 | 34,34,34,34                 | 0     |
| 57  | MG   | 2a    | 1777 | 1/1   | 0.93 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3194 | 1/1   | 0.93 | 0.23 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3717 | 1/1   | 0.93 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1752 | 1/1   | 0.93 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1785 | 1/1   | 0.93 | 0.08 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3765 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1754 | 1/1   | 0.93 | 0.24 | 63,63,63,63                 | 0     |
| 57  | MG   | 1a    | 1758 | 1/1   | 0.93 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3206 | 1/1   | 0.93 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4002 | 1/1   | 0.93 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1F    | 309  | 1/1   | 0.93 | 0.10 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3518 | 1/1   | 0.93 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3444 | 1/1   | 0.93 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3445 | 1/1   | 0.93 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3842 | 1/1   | 0.93 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 1O    | 204  | 1/1   | 0.93 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3328 | 1/1   | 0.93 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3219 | 1/1   | 0.93 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1771 | 1/1   | 0.93 | 0.09 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3454 | 1/1   | 0.93 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3806 | 1/1   | 0.93 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1773 | 1/1   | 0.93 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 2a    | 1812 | 1/1   | 0.93 | 0.18 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3845 | 1/1   | 0.93 | 0.18 | 60,60,60,60                 | 0     |
| 57  | MG   | 2a    | 1815 | 1/1   | 0.93 | 0.16 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3457 | 1/1   | 0.93 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3458 | 1/1   | 0.93 | 0.14 | 49,49,49,49                 | 0     |
| 57  | MG   | 2a    | 1819 | 1/1   | 0.93 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1821 | 1/1   | 0.93 | 0.23 | 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    | 3101 | 1/1   | 0.93 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3847 | 1/1   | 0.93 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3465 | 1/1   | 0.93 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3726 | 1/1   | 0.93 | 0.08 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1828 | 1/1   | 0.93 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3728 | 1/1   | 0.93 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3231 | 1/1   | 0.93 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1783 | 1/1   | 0.93 | 0.09 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1832 | 1/1   | 0.93 | 0.26 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3829 | 1/1   | 0.93 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3484 | 1/1   | 0.93 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3491 | 1/1   | 0.93 | 0.14 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3833 | 1/1   | 0.93 | 0.08 | 74,74,74,74                 | 0     |
| 57  | MG   | 1A    | 3370 | 1/1   | 0.93 | 0.36 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3238 | 1/1   | 0.93 | 0.26 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3838 | 1/1   | 0.93 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3856 | 1/1   | 0.93 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3847 | 1/1   | 0.93 | 0.06 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3631 | 1/1   | 0.93 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3854 | 1/1   | 0.93 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2l    | 202  | 1/1   | 0.93 | 0.22 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3244 | 1/1   | 0.93 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3374 | 1/1   | 0.93 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3873 | 1/1   | 0.93 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1793 | 1/1   | 0.93 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3255 | 1/1   | 0.93 | 0.25 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3736 | 1/1   | 0.93 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3512 | 1/1   | 0.93 | 0.10 | 37,37,37,37                 | 0     |
| 57  | MG   | 1Y    | 202  | 1/1   | 0.93 | 0.07 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3877 | 1/1   | 0.93 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3376 | 1/1   | 0.93 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3636 | 1/1   | 0.93 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3745 | 1/1   | 0.93 | 0.13 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3528 | 1/1   | 0.93 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3889 | 1/1   | 0.93 | 0.06 | 29,29,29,29                 | 0     |
| 57  | MG   | 12    | 102  | 1/1   | 0.93 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 2B    | 201  | 1/1   | 0.93 | 0.31 | 66,66,66,66                 | 0     |
| 57  | MG   | 13    | 101  | 1/1   | 0.93 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3437 | 1/1   | 0.93 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3279 | 1/1   | 0.93 | 0.08 | 58,58,58,58                 | 0     |
| 57  | MG   | 14    | 101  | 1/1   | 0.93 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3283 | 1/1   | 0.93 | 0.27 | 52,52,52,52                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2B    | 209  | 1/1   | 0.93 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1667 | 1/1   | 0.94 | 0.27 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1668 | 1/1   | 0.94 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3853 | 1/1   | 0.94 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3162 | 1/1   | 0.94 | 0.13 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3050 | 1/1   | 0.94 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3993 | 1/1   | 0.94 | 0.07 | 67,67,67,67                 | 0     |
| 57  | MG   | 1B    | 216  | 1/1   | 0.94 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2B    | 213  | 1/1   | 0.94 | 0.26 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3033 | 1/1   | 0.94 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 2B    | 215  | 1/1   | 0.94 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3550 | 1/1   | 0.94 | 0.11 | 36,36,36,36                 | 0     |
| 57  | MG   | 1a    | 1677 | 1/1   | 0.94 | 0.16 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3040 | 1/1   | 0.94 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3492 | 1/1   | 0.94 | 0.12 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3301 | 1/1   | 0.94 | 0.14 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3497 | 1/1   | 0.94 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3051 | 1/1   | 0.94 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 1B    | 222  | 1/1   | 0.94 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3563 | 1/1   | 0.94 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3053 | 1/1   | 0.94 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1687 | 1/1   | 0.94 | 0.15 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3866 | 1/1   | 0.94 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1689 | 1/1   | 0.94 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3868 | 1/1   | 0.94 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3870 | 1/1   | 0.94 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 2O    | 201  | 1/1   | 0.94 | 0.18 | 69,69,69,69                 | 0     |
| 57  | MG   | 2P    | 201  | 1/1   | 0.94 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3060 | 1/1   | 0.94 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3572 | 1/1   | 0.94 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3872 | 1/1   | 0.94 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 1B    | 230  | 1/1   | 0.94 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3065 | 1/1   | 0.94 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3103 | 1/1   | 0.94 | 0.08 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3583 | 1/1   | 0.94 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3766 | 1/1   | 0.94 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3588 | 1/1   | 0.94 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3879 | 1/1   | 0.94 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3675 | 1/1   | 0.94 | 0.08 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3501 | 1/1   | 0.94 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3326 | 1/1   | 0.94 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3084 | 1/1   | 0.94 | 0.11 | 52,52,52,52                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3886 | 1/1   | 0.94 | 0.21 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1707 | 1/1   | 0.94 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1708 | 1/1   | 0.94 | 0.25 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3604 | 1/1   | 0.94 | 0.20 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3887 | 1/1   | 0.94 | 0.17 | 37,37,37,37                 | 0     |
| 57  | MG   | 1E    | 312  | 1/1   | 0.94 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3095 | 1/1   | 0.94 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3096 | 1/1   | 0.94 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3383 | 1/1   | 0.94 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1F    | 311  | 1/1   | 0.94 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3680 | 1/1   | 0.94 | 0.07 | 25,25,25,25                 | 0     |
| 57  | MG   | 1a    | 1715 | 1/1   | 0.94 | 0.25 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1716 | 1/1   | 0.94 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3890 | 1/1   | 0.94 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1O    | 202  | 1/1   | 0.94 | 0.17 | 47,47,47,47                 | 0     |
| 57  | MG   | 2a    | 1613 | 1/1   | 0.94 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1O    | 203  | 1/1   | 0.94 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3624 | 1/1   | 0.94 | 0.20 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3625 | 1/1   | 0.94 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1a    | 1721 | 1/1   | 0.94 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3592 | 1/1   | 0.94 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3630 | 1/1   | 0.94 | 0.08 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3350 | 1/1   | 0.94 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3351 | 1/1   | 0.94 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1723 | 1/1   | 0.94 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3384 | 1/1   | 0.94 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3354 | 1/1   | 0.94 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3777 | 1/1   | 0.94 | 0.14 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3687 | 1/1   | 0.94 | 0.16 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3389 | 1/1   | 0.94 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3358 | 1/1   | 0.94 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3902 | 1/1   | 0.94 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 2a    | 1634 | 1/1   | 0.94 | 0.09 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1635 | 1/1   | 0.94 | 0.10 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3360 | 1/1   | 0.94 | 0.17 | 61,61,61,61                 | 0     |
| 57  | MG   | 2a    | 1639 | 1/1   | 0.94 | 0.22 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3650 | 1/1   | 0.94 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3651 | 1/1   | 0.94 | 0.27 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3653 | 1/1   | 0.94 | 0.07 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3363 | 1/1   | 0.94 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3655 | 1/1   | 0.94 | 0.19 | 52,52,52,52                 | 0     |
| 57  | MG   | 1S    | 201  | 1/1   | 0.94 | 0.16 | 38,38,38,38                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1a    | 1738 | 1/1   | 0.94 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3131 | 1/1   | 0.94 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3132 | 1/1   | 0.94 | 0.23 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 4031 | 1/1   | 0.94 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 2a    | 1657 | 1/1   | 0.94 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1658 | 1/1   | 0.94 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3134 | 1/1   | 0.94 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3785 | 1/1   | 0.94 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3689 | 1/1   | 0.94 | 0.06 | 27,27,27,27                 | 0     |
| 57  | MG   | 2a    | 1662 | 1/1   | 0.94 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1746 | 1/1   | 0.94 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1T    | 204  | 1/1   | 0.94 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1666 | 1/1   | 0.94 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3143 | 1/1   | 0.94 | 0.21 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3308 | 1/1   | 0.94 | 0.15 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3679 | 1/1   | 0.94 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3602 | 1/1   | 0.94 | 0.08 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1674 | 1/1   | 0.94 | 0.25 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3148 | 1/1   | 0.94 | 0.15 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3383 | 1/1   | 0.94 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3911 | 1/1   | 0.94 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 4045 | 1/1   | 0.94 | 0.12 | 75,75,75,75                 | 0     |
| 57  | MG   | 1a    | 1760 | 1/1   | 0.94 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2a    | 1686 | 1/1   | 0.94 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3160 | 1/1   | 0.94 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 2a    | 1688 | 1/1   | 0.94 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1689 | 1/1   | 0.94 | 0.20 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3603 | 1/1   | 0.94 | 0.18 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3391 | 1/1   | 0.94 | 0.22 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3694 | 1/1   | 0.94 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 2a    | 1693 | 1/1   | 0.94 | 0.16 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3165 | 1/1   | 0.94 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3166 | 1/1   | 0.94 | 0.35 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3698 | 1/1   | 0.94 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3167 | 1/1   | 0.94 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3511 | 1/1   | 0.94 | 0.20 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1703 | 1/1   | 0.94 | 0.18 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1704 | 1/1   | 0.94 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2a    | 1705 | 1/1   | 0.94 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 4049 | 1/1   | 0.94 | 0.11 | 67,67,67,67                 | 0     |
| 57  | MG   | 10    | 101  | 1/1   | 0.94 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3704 | 1/1   | 0.94 | 0.06 | 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    | 3398 | 1/1   | 0.94 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 10    | 102  | 1/1   | 0.94 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3177 | 1/1   | 0.94 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3714 | 1/1   | 0.94 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3309 | 1/1   | 0.94 | 0.22 | 54,54,54,54                 | 0     |
| 57  | MG   | 11    | 104  | 1/1   | 0.94 | 0.12 | 40,40,40,40                 | 0     |
| 57  | MG   | 2a    | 1716 | 1/1   | 0.94 | 0.09 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3183 | 1/1   | 0.94 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1772 | 1/1   | 0.94 | 0.08 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3516 | 1/1   | 0.94 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3410 | 1/1   | 0.94 | 0.23 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3725 | 1/1   | 0.94 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3190 | 1/1   | 0.94 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3448 | 1/1   | 0.94 | 0.12 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3414 | 1/1   | 0.94 | 0.07 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3416 | 1/1   | 0.94 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3701 | 1/1   | 0.94 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3737 | 1/1   | 0.94 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3179 | 1/1   | 0.94 | 0.14 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3396 | 1/1   | 0.94 | 0.15 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3197 | 1/1   | 0.94 | 0.26 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3741 | 1/1   | 0.94 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3454 | 1/1   | 0.94 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3402 | 1/1   | 0.94 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1741 | 1/1   | 0.94 | 0.10 | 72,72,72,72                 | 0     |
| 57  | MG   | 17    | 103  | 1/1   | 0.94 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3205 | 1/1   | 0.94 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 18    | 103  | 1/1   | 0.94 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3428 | 1/1   | 0.94 | 0.14 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3456 | 1/1   | 0.94 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1752 | 1/1   | 0.94 | 0.08 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3629 | 1/1   | 0.94 | 0.08 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3942 | 1/1   | 0.94 | 0.08 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1602 | 1/1   | 0.94 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3943 | 1/1   | 0.94 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3181 | 1/1   | 0.94 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3438 | 1/1   | 0.94 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1802 | 1/1   | 0.94 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4078 | 1/1   | 0.94 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3108 | 1/1   | 0.94 | 0.15 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3223 | 1/1   | 0.94 | 0.12 | 50,50,50,50                 | 0     |
| 57  | MG   | 1a    | 1617 | 1/1   | 0.94 | 0.08 | 53,53,53,53                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2a    | 1782 | 1/1   | 0.94 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 2a    | 1783 | 1/1   | 0.94 | 0.13 | 65,65,65,65                 | 0     |
| 57  | MG   | 1a    | 1812 | 1/1   | 0.94 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3769 | 1/1   | 0.94 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3140 | 1/1   | 0.94 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3772 | 1/1   | 0.94 | 0.12 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1621 | 1/1   | 0.94 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3538 | 1/1   | 0.94 | 0.14 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3780 | 1/1   | 0.94 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3450 | 1/1   | 0.94 | 0.29 | 49,49,49,49                 | 0     |
| 57  | MG   | 1b    | 301  | 1/1   | 0.94 | 0.07 | 68,68,68,68                 | 0     |
| 57  | MG   | 2A    | 3234 | 1/1   | 0.94 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3285 | 1/1   | 0.94 | 0.29 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3794 | 1/1   | 0.94 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 2a    | 1800 | 1/1   | 0.94 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3795 | 1/1   | 0.94 | 0.13 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3729 | 1/1   | 0.94 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3357 | 1/1   | 0.94 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1805 | 1/1   | 0.94 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3239 | 1/1   | 0.94 | 0.24 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3800 | 1/1   | 0.94 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3240 | 1/1   | 0.94 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3804 | 1/1   | 0.94 | 0.12 | 67,67,67,67                 | 0     |
| 57  | MG   | 2A    | 3459 | 1/1   | 0.94 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3241 | 1/1   | 0.94 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3463 | 1/1   | 0.94 | 0.17 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1816 | 1/1   | 0.94 | 0.20 | 62,62,62,62                 | 0     |
| 57  | MG   | 1n    | 101  | 1/1   | 0.94 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3810 | 1/1   | 0.94 | 0.06 | 71,71,71,71                 | 0     |
| 57  | MG   | 1a    | 1627 | 1/1   | 0.94 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3960 | 1/1   | 0.94 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3467 | 1/1   | 0.94 | 0.23 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3468 | 1/1   | 0.94 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3834 | 1/1   | 0.94 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3247 | 1/1   | 0.94 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 2a    | 1827 | 1/1   | 0.94 | 0.09 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3476 | 1/1   | 0.94 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3237 | 1/1   | 0.94 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3823 | 1/1   | 0.94 | 0.07 | 69,69,69,69                 | 0     |
| 57  | MG   | 2A    | 3481 | 1/1   | 0.94 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3826 | 1/1   | 0.94 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3827 | 1/1   | 0.94 | 0.08 | 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   | 2A    | 3482 | 1/1   | 0.94 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3360 | 1/1   | 0.94 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3485 | 1/1   | 0.94 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3489 | 1/1   | 0.94 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3838 | 1/1   | 0.94 | 0.12 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3493 | 1/1   | 0.94 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3836 | 1/1   | 0.94 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3648 | 1/1   | 0.94 | 0.06 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3738 | 1/1   | 0.94 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3844 | 1/1   | 0.94 | 0.09 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3499 | 1/1   | 0.94 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3852 | 1/1   | 0.94 | 0.08 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3501 | 1/1   | 0.94 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3002 | 1/1   | 0.94 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3856 | 1/1   | 0.94 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3471 | 1/1   | 0.94 | 0.19 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1641 | 1/1   | 0.94 | 0.26 | 59,59,59,59                 | 0     |
| 57  | MG   | 2v    | 102  | 1/1   | 0.94 | 0.26 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3261 | 1/1   | 0.94 | 0.14 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3976 | 1/1   | 0.94 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3024 | 1/1   | 0.94 | 0.19 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3870 | 1/1   | 0.94 | 0.12 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3269 | 1/1   | 0.94 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3271 | 1/1   | 0.94 | 0.19 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3474 | 1/1   | 0.94 | 0.12 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3848 | 1/1   | 0.94 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3277 | 1/1   | 0.94 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4116 | 1/1   | 0.94 | 0.14 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3520 | 1/1   | 0.94 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 2y    | 101  | 1/1   | 0.94 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3984 | 1/1   | 0.94 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3660 | 1/1   | 0.94 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3002 | 1/1   | 0.94 | 0.27 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1662 | 1/1   | 0.94 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1663 | 1/1   | 0.94 | 0.21 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3298 | 1/1   | 0.95 | 0.30 | 56,56,56,56                 | 0     |
| 57  | MG   | 1G    | 205  | 1/1   | 0.95 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1I    | 201  | 1/1   | 0.95 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3877 | 1/1   | 0.95 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3515 | 1/1   | 0.95 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3879 | 1/1   | 0.95 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 1N    | 201  | 1/1   | 0.95 | 0.18 | 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   | 1O    | 201  | 1/1   | 0.95 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3619 | 1/1   | 0.95 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1784 | 1/1   | 0.95 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3521 | 1/1   | 0.95 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3524 | 1/1   | 0.95 | 0.07 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3969 | 1/1   | 0.95 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3526 | 1/1   | 0.95 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3245 | 1/1   | 0.95 | 0.15 | 43,43,43,43                 | 0     |
| 57  | MG   | 2B    | 205  | 1/1   | 0.95 | 0.16 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1786 | 1/1   | 0.95 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3621 | 1/1   | 0.95 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1P    | 204  | 1/1   | 0.95 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3786 | 1/1   | 0.95 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3299 | 1/1   | 0.95 | 0.20 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3536 | 1/1   | 0.95 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3538 | 1/1   | 0.95 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3973 | 1/1   | 0.95 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3379 | 1/1   | 0.95 | 0.18 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3381 | 1/1   | 0.95 | 0.07 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3475 | 1/1   | 0.95 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3478 | 1/1   | 0.95 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3481 | 1/1   | 0.95 | 0.07 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3637 | 1/1   | 0.95 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3799 | 1/1   | 0.95 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3266 | 1/1   | 0.95 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 2E    | 303  | 1/1   | 0.95 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 1U    | 202  | 1/1   | 0.95 | 0.13 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3270 | 1/1   | 0.95 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3555 | 1/1   | 0.95 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3556 | 1/1   | 0.95 | 0.08 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3802 | 1/1   | 0.95 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3274 | 1/1   | 0.95 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3559 | 1/1   | 0.95 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1U    | 208  | 1/1   | 0.95 | 0.16 | 34,34,34,34                 | 0     |
| 57  | MG   | 1V    | 206  | 1/1   | 0.95 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3221 | 1/1   | 0.95 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3303 | 1/1   | 0.95 | 0.05 | 26,26,26,26                 | 0     |
| 57  | MG   | 1f    | 201  | 1/1   | 0.95 | 0.14 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3490 | 1/1   | 0.95 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3282 | 1/1   | 0.95 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 2T    | 203  | 1/1   | 0.95 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3150 | 1/1   | 0.95 | 0.08 | 38,38,38,38                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3570 | 1/1   | 0.95 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1t    | 201  | 1/1   | 0.95 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3224 | 1/1   | 0.95 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3574 | 1/1   | 0.95 | 0.11 | 39,39,39,39                 | 0     |
| 57  | MG   | 2X    | 101  | 1/1   | 0.95 | 0.10 | 65,65,65,65                 | 0     |
| 57  | MG   | 1A    | 3494 | 1/1   | 0.95 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 1w    | 102  | 1/1   | 0.95 | 0.14 | 67,67,67,67                 | 0     |
| 57  | MG   | 20    | 101  | 1/1   | 0.95 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1w    | 103  | 1/1   | 0.95 | 0.15 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3054 | 1/1   | 0.95 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 23    | 103  | 1/1   | 0.95 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3581 | 1/1   | 0.95 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3055 | 1/1   | 0.95 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 1w    | 108  | 1/1   | 0.95 | 0.11 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3586 | 1/1   | 0.95 | 0.15 | 50,50,50,50                 | 0     |
| 57  | MG   | 28    | 101  | 1/1   | 0.95 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 28    | 102  | 1/1   | 0.95 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 28    | 103  | 1/1   | 0.95 | 0.07 | 68,68,68,68                 | 0     |
| 57  | MG   | 10    | 103  | 1/1   | 0.95 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 10    | 104  | 1/1   | 0.95 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3095 | 1/1   | 0.95 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3239 | 1/1   | 0.95 | 0.15 | 36,36,36,36                 | 0     |
| 57  | MG   | 1x    | 105  | 1/1   | 0.95 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3300 | 1/1   | 0.95 | 0.13 | 59,59,59,59                 | 0     |
| 57  | MG   | 1x    | 107  | 1/1   | 0.95 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3400 | 1/1   | 0.95 | 0.15 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3314 | 1/1   | 0.95 | 0.12 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1610 | 1/1   | 0.95 | 0.17 | 59,59,59,59                 | 0     |
| 57  | MG   | 12    | 101  | 1/1   | 0.95 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3823 | 1/1   | 0.95 | 0.06 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3169 | 1/1   | 0.95 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1614 | 1/1   | 0.95 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3608 | 1/1   | 0.95 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 4009 | 1/1   | 0.95 | 0.06 | 73,73,73,73                 | 0     |
| 57  | MG   | 1x    | 114  | 1/1   | 0.95 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 13    | 105  | 1/1   | 0.95 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3827 | 1/1   | 0.95 | 0.10 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3830 | 1/1   | 0.95 | 0.06 | 22,22,22,22                 | 0     |
| 57  | MG   | 2A    | 3615 | 1/1   | 0.95 | 0.09 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3317 | 1/1   | 0.95 | 0.26 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1623 | 1/1   | 0.95 | 0.25 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3035 | 1/1   | 0.95 | 0.06 | 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   | 2a    | 1625 | 1/1   | 0.95 | 0.14 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3406 | 1/1   | 0.95 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3323 | 1/1   | 0.95 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3622 | 1/1   | 0.95 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3246 | 1/1   | 0.95 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3007 | 1/1   | 0.95 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 4019 | 1/1   | 0.95 | 0.05 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4020 | 1/1   | 0.95 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3627 | 1/1   | 0.95 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3040 | 1/1   | 0.95 | 0.17 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1605 | 1/1   | 0.95 | 0.21 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 4022 | 1/1   | 0.95 | 0.06 | 14,14,14,14                 | 0     |
| 57  | MG   | 2a    | 1640 | 1/1   | 0.95 | 0.11 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3636 | 1/1   | 0.95 | 0.15 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3044 | 1/1   | 0.95 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3031 | 1/1   | 0.95 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1644 | 1/1   | 0.95 | 0.30 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3330 | 1/1   | 0.95 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3032 | 1/1   | 0.95 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1647 | 1/1   | 0.95 | 0.15 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1612 | 1/1   | 0.95 | 0.21 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1613 | 1/1   | 0.95 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 2a    | 1650 | 1/1   | 0.95 | 0.25 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3037 | 1/1   | 0.95 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2a    | 1652 | 1/1   | 0.95 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 2a    | 1653 | 1/1   | 0.95 | 0.25 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3523 | 1/1   | 0.95 | 0.10 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3337 | 1/1   | 0.95 | 0.20 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3648 | 1/1   | 0.95 | 0.16 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3338 | 1/1   | 0.95 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3682 | 1/1   | 0.95 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3844 | 1/1   | 0.95 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3652 | 1/1   | 0.95 | 0.15 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3047 | 1/1   | 0.95 | 0.26 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3048 | 1/1   | 0.95 | 0.10 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1622 | 1/1   | 0.95 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3658 | 1/1   | 0.95 | 0.09 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3659 | 1/1   | 0.95 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1668 | 1/1   | 0.95 | 0.16 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3070 | 1/1   | 0.95 | 0.29 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3661 | 1/1   | 0.95 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3525 | 1/1   | 0.95 | 0.07 | 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    | 3257 | 1/1   | 0.95 | 0.15 | 42,42,42,42                 | 0     |
| 57  | MG   | 2a    | 1679 | 1/1   | 0.95 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4036 | 1/1   | 0.95 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3527 | 1/1   | 0.95 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3334 | 1/1   | 0.95 | 0.14 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3851 | 1/1   | 0.95 | 0.05 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1630 | 1/1   | 0.95 | 0.19 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3417 | 1/1   | 0.95 | 0.13 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3062 | 1/1   | 0.95 | 0.18 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3259 | 1/1   | 0.95 | 0.13 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3186 | 1/1   | 0.95 | 0.25 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3187 | 1/1   | 0.95 | 0.09 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3429 | 1/1   | 0.95 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 4050 | 1/1   | 0.95 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3072 | 1/1   | 0.95 | 0.08 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3541 | 1/1   | 0.95 | 0.20 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3685 | 1/1   | 0.95 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3864 | 1/1   | 0.95 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3543 | 1/1   | 0.95 | 0.11 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3688 | 1/1   | 0.95 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3689 | 1/1   | 0.95 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3867 | 1/1   | 0.95 | 0.20 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3691 | 1/1   | 0.95 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3338 | 1/1   | 0.95 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3368 | 1/1   | 0.95 | 0.06 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3547 | 1/1   | 0.95 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3087 | 1/1   | 0.95 | 0.23 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3371 | 1/1   | 0.95 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3704 | 1/1   | 0.95 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3431 | 1/1   | 0.95 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4070 | 1/1   | 0.95 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3874 | 1/1   | 0.95 | 0.05 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3708 | 1/1   | 0.95 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3876 | 1/1   | 0.95 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1718 | 1/1   | 0.95 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3432 | 1/1   | 0.95 | 0.16 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3878 | 1/1   | 0.95 | 0.15 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3712 | 1/1   | 0.95 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1671 | 1/1   | 0.95 | 0.16 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1672 | 1/1   | 0.95 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1673 | 1/1   | 0.95 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 4080 | 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    | 3880 | 1/1   | 0.95 | 0.21 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3110 | 1/1   | 0.95 | 0.06 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3433 | 1/1   | 0.95 | 0.14 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3724 | 1/1   | 0.95 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3434 | 1/1   | 0.95 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1679 | 1/1   | 0.95 | 0.13 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3730 | 1/1   | 0.95 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3715 | 1/1   | 0.95 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3716 | 1/1   | 0.95 | 0.12 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3119 | 1/1   | 0.95 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3559 | 1/1   | 0.95 | 0.10 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3736 | 1/1   | 0.95 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3266 | 1/1   | 0.95 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3401 | 1/1   | 0.95 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 4089 | 1/1   | 0.95 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3111 | 1/1   | 0.95 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3404 | 1/1   | 0.95 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 4092 | 1/1   | 0.95 | 0.04 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3891 | 1/1   | 0.95 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3721 | 1/1   | 0.95 | 0.06 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3112 | 1/1   | 0.95 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 2a    | 1767 | 1/1   | 0.95 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 2a    | 1768 | 1/1   | 0.95 | 0.12 | 71,71,71,71                 | 0     |
| 57  | MG   | 1A    | 3724 | 1/1   | 0.95 | 0.11 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3411 | 1/1   | 0.95 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4098 | 1/1   | 0.95 | 0.07 | 14,14,14,14                 | 0     |
| 57  | MG   | 2a    | 1776 | 1/1   | 0.95 | 0.06 | 85,85,85,85                 | 0     |
| 57  | MG   | 1a    | 1696 | 1/1   | 0.95 | 0.19 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1778 | 1/1   | 0.95 | 0.08 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3567 | 1/1   | 0.95 | 0.18 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4101 | 1/1   | 0.95 | 0.13 | 20,20,20,20                 | 0     |
| 57  | MG   | 1a    | 1700 | 1/1   | 0.95 | 0.20 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3757 | 1/1   | 0.95 | 0.15 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3145 | 1/1   | 0.95 | 0.13 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3443 | 1/1   | 0.95 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3117 | 1/1   | 0.95 | 0.12 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1788 | 1/1   | 0.95 | 0.15 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 4106 | 1/1   | 0.95 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3446 | 1/1   | 0.95 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3732 | 1/1   | 0.95 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3118 | 1/1   | 0.95 | 0.13 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3157 | 1/1   | 0.95 | 0.10 | 34,34,34,34                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3449 | 1/1   | 0.95 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1a    | 1710 | 1/1   | 0.95 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3909 | 1/1   | 0.95 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3450 | 1/1   | 0.95 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3288 | 1/1   | 0.95 | 0.11 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3777 | 1/1   | 0.95 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3452 | 1/1   | 0.95 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 1B    | 201  | 1/1   | 0.95 | 0.13 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3784 | 1/1   | 0.95 | 0.07 | 72,72,72,72                 | 0     |
| 57  | MG   | 1B    | 203  | 1/1   | 0.95 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3175 | 1/1   | 0.95 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3121 | 1/1   | 0.95 | 0.17 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3792 | 1/1   | 0.95 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3793 | 1/1   | 0.95 | 0.06 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3441 | 1/1   | 0.95 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 1B    | 209  | 1/1   | 0.95 | 0.15 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3017 | 1/1   | 0.95 | 0.12 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3747 | 1/1   | 0.95 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3053 | 1/1   | 0.95 | 0.07 | 32,32,32,32                 | 0     |
| 57  | MG   | 1B    | 217  | 1/1   | 0.95 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3926 | 1/1   | 0.95 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3188 | 1/1   | 0.95 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3929 | 1/1   | 0.95 | 0.16 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3599 | 1/1   | 0.95 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3192 | 1/1   | 0.95 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1826 | 1/1   | 0.95 | 0.21 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3808 | 1/1   | 0.95 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3600 | 1/1   | 0.95 | 0.06 | 70,70,70,70                 | 0     |
| 57  | MG   | 1A    | 3934 | 1/1   | 0.95 | 0.10 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3754 | 1/1   | 0.95 | 0.17 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1737 | 1/1   | 0.95 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3601 | 1/1   | 0.95 | 0.26 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3361 | 1/1   | 0.95 | 0.08 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3201 | 1/1   | 0.95 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3362 | 1/1   | 0.95 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3204 | 1/1   | 0.95 | 0.17 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3365 | 1/1   | 0.95 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3605 | 1/1   | 0.95 | 0.12 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3208 | 1/1   | 0.95 | 0.17 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3368 | 1/1   | 0.95 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3369 | 1/1   | 0.95 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1750 | 1/1   | 0.95 | 0.10 | 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   | 2A    | 3473 | 1/1   | 0.95 | 0.13 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3213 | 1/1   | 0.95 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3214 | 1/1   | 0.95 | 0.16 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3212 | 1/1   | 0.95 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1753 | 1/1   | 0.95 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3466 | 1/1   | 0.95 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1E    | 305  | 1/1   | 0.95 | 0.18 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3839 | 1/1   | 0.95 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1E    | 307  | 1/1   | 0.95 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3490 | 1/1   | 0.95 | 0.14 | 62,62,62,62                 | 0     |
| 57  | MG   | 1a    | 1763 | 1/1   | 0.95 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3849 | 1/1   | 0.95 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3611 | 1/1   | 0.95 | 0.05 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3771 | 1/1   | 0.95 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3613 | 1/1   | 0.95 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3855 | 1/1   | 0.95 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3226 | 1/1   | 0.95 | 0.26 | 49,49,49,49                 | 0     |
| 57  | MG   | 1F    | 304  | 1/1   | 0.95 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3861 | 1/1   | 0.95 | 0.06 | 57,57,57,57                 | 0     |
| 57  | MG   | 1F    | 307  | 1/1   | 0.95 | 0.13 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3614 | 1/1   | 0.95 | 0.07 | 21,21,21,21                 | 0     |
| 57  | MG   | 2A    | 3230 | 1/1   | 0.95 | 0.20 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3865 | 1/1   | 0.95 | 0.06 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3295 | 1/1   | 0.95 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1G    | 202  | 1/1   | 0.95 | 0.15 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3297 | 1/1   | 0.95 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3036 | 1/1   | 0.96 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3966 | 1/1   | 0.96 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3784 | 1/1   | 0.96 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3632 | 1/1   | 0.96 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3212 | 1/1   | 0.96 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3390 | 1/1   | 0.96 | 0.19 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3868 | 1/1   | 0.96 | 0.06 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3869 | 1/1   | 0.96 | 0.06 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3216 | 1/1   | 0.96 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3217 | 1/1   | 0.96 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3498 | 1/1   | 0.96 | 0.16 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3499 | 1/1   | 0.96 | 0.06 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3874 | 1/1   | 0.96 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3510 | 1/1   | 0.96 | 0.05 | 20,20,20,20                 | 0     |
| 57  | MG   | 2A    | 3218 | 1/1   | 0.96 | 0.09 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3514 | 1/1   | 0.96 | 0.09 | 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    | 3793 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3794 | 1/1   | 0.96 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3884 | 1/1   | 0.96 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3977 | 1/1   | 0.96 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3888 | 1/1   | 0.96 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3518 | 1/1   | 0.96 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3222 | 1/1   | 0.96 | 0.18 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3641 | 1/1   | 0.96 | 0.06 | 18,18,18,18                 | 0     |
| 57  | MG   | 1A    | 3092 | 1/1   | 0.96 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3523 | 1/1   | 0.96 | 0.14 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1775 | 1/1   | 0.96 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1Q    | 205  | 1/1   | 0.96 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1a    | 1777 | 1/1   | 0.96 | 0.07 | 60,60,60,60                 | 0     |
| 57  | MG   | 1Q    | 206  | 1/1   | 0.96 | 0.07 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3982 | 1/1   | 0.96 | 0.06 | 25,25,25,25                 | 0     |
| 57  | MG   | 1a    | 1781 | 1/1   | 0.96 | 0.15 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3644 | 1/1   | 0.96 | 0.05 | 22,22,22,22                 | 0     |
| 57  | MG   | 2B    | 211  | 1/1   | 0.96 | 0.15 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3233 | 1/1   | 0.96 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3645 | 1/1   | 0.96 | 0.15 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3535 | 1/1   | 0.96 | 0.16 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3801 | 1/1   | 0.96 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3306 | 1/1   | 0.96 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3990 | 1/1   | 0.96 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3541 | 1/1   | 0.96 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3397 | 1/1   | 0.96 | 0.08 | 31,31,31,31                 | 0     |
| 57  | MG   | 1T    | 201  | 1/1   | 0.96 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 2D    | 301  | 1/1   | 0.96 | 0.15 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3144 | 1/1   | 0.96 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3546 | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3149 | 1/1   | 0.96 | 0.16 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3507 | 1/1   | 0.96 | 0.11 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3809 | 1/1   | 0.96 | 0.04 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3652 | 1/1   | 0.96 | 0.09 | 29,29,29,29                 | 0     |
| 57  | MG   | 1V    | 204  | 1/1   | 0.96 | 0.22 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3999 | 1/1   | 0.96 | 0.06 | 58,58,58,58                 | 0     |
| 57  | MG   | 1a    | 1804 | 1/1   | 0.96 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1V    | 207  | 1/1   | 0.96 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3093 | 1/1   | 0.96 | 0.05 | 22,22,22,22                 | 0     |
| 57  | MG   | 1W    | 202  | 1/1   | 0.96 | 0.11 | 42,42,42,42                 | 0     |
| 57  | MG   | 2O    | 202  | 1/1   | 0.96 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 1a    | 1814 | 1/1   | 0.96 | 0.07 | 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   | 1A    | 3230 | 1/1   | 0.96 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3513 | 1/1   | 0.96 | 0.23 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3561 | 1/1   | 0.96 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3817 | 1/1   | 0.96 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1a    | 1819 | 1/1   | 0.96 | 0.23 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3661 | 1/1   | 0.96 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3664 | 1/1   | 0.96 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3232 | 1/1   | 0.96 | 0.12 | 57,57,57,57                 | 0     |
| 57  | MG   | 2V    | 202  | 1/1   | 0.96 | 0.17 | 41,41,41,41                 | 0     |
| 57  | MG   | 1e    | 201  | 1/1   | 0.96 | 0.09 | 67,67,67,67                 | 0     |
| 57  | MG   | 1A    | 3666 | 1/1   | 0.96 | 0.11 | 35,35,35,35                 | 0     |
| 57  | MG   | 1l    | 201  | 1/1   | 0.96 | 0.09 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3272 | 1/1   | 0.96 | 0.17 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3273 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3152 | 1/1   | 0.96 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3315 | 1/1   | 0.96 | 0.19 | 46,46,46,46                 | 0     |
| 57  | MG   | 10    | 106  | 1/1   | 0.96 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3519 | 1/1   | 0.96 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 10    | 108  | 1/1   | 0.96 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 23    | 104  | 1/1   | 0.96 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3580 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 25    | 102  | 1/1   | 0.96 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 1l    | 101  | 1/1   | 0.96 | 0.26 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3280 | 1/1   | 0.96 | 0.20 | 56,56,56,56                 | 0     |
| 57  | MG   | 1l    | 102  | 1/1   | 0.96 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 1w    | 104  | 1/1   | 0.96 | 0.12 | 66,66,66,66                 | 0     |
| 57  | MG   | 1w    | 105  | 1/1   | 0.96 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3828 | 1/1   | 0.96 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3670 | 1/1   | 0.96 | 0.06 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3831 | 1/1   | 0.96 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3595 | 1/1   | 0.96 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 1w    | 109  | 1/1   | 0.96 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3154 | 1/1   | 0.96 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3289 | 1/1   | 0.96 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3160 | 1/1   | 0.96 | 0.18 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3240 | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3293 | 1/1   | 0.96 | 0.17 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3069 | 1/1   | 0.96 | 0.09 | 32,32,32,32                 | 0     |
| 57  | MG   | 1x    | 104  | 1/1   | 0.96 | 0.12 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3607 | 1/1   | 0.96 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3324 | 1/1   | 0.96 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 1x    | 106  | 1/1   | 0.96 | 0.11 | 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   | 1A    | 3244 | 1/1   | 0.96 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 15    | 102  | 1/1   | 0.96 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 15    | 103  | 1/1   | 0.96 | 0.12 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3679 | 1/1   | 0.96 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 16    | 101  | 1/1   | 0.96 | 0.10 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3303 | 1/1   | 0.96 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3056 | 1/1   | 0.96 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 18    | 101  | 1/1   | 0.96 | 0.16 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3418 | 1/1   | 0.96 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1x    | 115  | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3420 | 1/1   | 0.96 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 18    | 105  | 1/1   | 0.96 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3312 | 1/1   | 0.96 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4028 | 1/1   | 0.96 | 0.06 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3099 | 1/1   | 0.96 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3535 | 1/1   | 0.96 | 0.15 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 4032 | 1/1   | 0.96 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3631 | 1/1   | 0.96 | 0.16 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3422 | 1/1   | 0.96 | 0.10 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3634 | 1/1   | 0.96 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3635 | 1/1   | 0.96 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3537 | 1/1   | 0.96 | 0.13 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3424 | 1/1   | 0.96 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1a    | 1610 | 1/1   | 0.96 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3010 | 1/1   | 0.96 | 0.21 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3012 | 1/1   | 0.96 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3330 | 1/1   | 0.96 | 0.18 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3018 | 1/1   | 0.96 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 4041 | 1/1   | 0.96 | 0.12 | 65,65,65,65                 | 0     |
| 57  | MG   | 2A    | 3644 | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3852 | 1/1   | 0.96 | 0.06 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3025 | 1/1   | 0.96 | 0.14 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3001 | 1/1   | 0.96 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3696 | 1/1   | 0.96 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3248 | 1/1   | 0.96 | 0.10 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3332 | 1/1   | 0.96 | 0.08 | 44,44,44,44                 | 0     |
| 57  | MG   | 2a    | 1654 | 1/1   | 0.96 | 0.12 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3542 | 1/1   | 0.96 | 0.08 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3250 | 1/1   | 0.96 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3035 | 1/1   | 0.96 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3859 | 1/1   | 0.96 | 0.06 | 17,17,17,17                 | 0     |
| 57  | MG   | 2A    | 3657 | 1/1   | 0.96 | 0.09 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 4051 | 1/1   | 0.96 | 0.06 | 70,70,70,70                 | 0     |
| 57  | MG   | 2A    | 3038 | 1/1   | 0.96 | 0.07 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3039 | 1/1   | 0.96 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3860 | 1/1   | 0.96 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3662 | 1/1   | 0.96 | 0.09 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3663 | 1/1   | 0.96 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3041 | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4054 | 1/1   | 0.96 | 0.06 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3861 | 1/1   | 0.96 | 0.10 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3862 | 1/1   | 0.96 | 0.06 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3075 | 1/1   | 0.96 | 0.11 | 37,37,37,37                 | 0     |
| 57  | MG   | 2a    | 1672 | 1/1   | 0.96 | 0.12 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1673 | 1/1   | 0.96 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1633 | 1/1   | 0.96 | 0.20 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1675 | 1/1   | 0.96 | 0.17 | 56,56,56,56                 | 0     |
| 57  | MG   | 2a    | 1676 | 1/1   | 0.96 | 0.17 | 47,47,47,47                 | 0     |
| 57  | MG   | 2a    | 1678 | 1/1   | 0.96 | 0.12 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 4064 | 1/1   | 0.96 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3546 | 1/1   | 0.96 | 0.14 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3171 | 1/1   | 0.96 | 0.13 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3255 | 1/1   | 0.96 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3177 | 1/1   | 0.96 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3869 | 1/1   | 0.96 | 0.13 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3706 | 1/1   | 0.96 | 0.11 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3871 | 1/1   | 0.96 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3682 | 1/1   | 0.96 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1642 | 1/1   | 0.96 | 0.11 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3258 | 1/1   | 0.96 | 0.12 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3709 | 1/1   | 0.96 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1a    | 1648 | 1/1   | 0.96 | 0.07 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3341 | 1/1   | 0.96 | 0.12 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3553 | 1/1   | 0.96 | 0.13 | 46,46,46,46                 | 0     |
| 57  | MG   | 1a    | 1655 | 1/1   | 0.96 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3068 | 1/1   | 0.96 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3071 | 1/1   | 0.96 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 4079 | 1/1   | 0.96 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 2a    | 1700 | 1/1   | 0.96 | 0.18 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1702 | 1/1   | 0.96 | 0.29 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3438 | 1/1   | 0.96 | 0.08 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3061 | 1/1   | 0.96 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3077 | 1/1   | 0.96 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3441 | 1/1   | 0.96 | 0.15 | 37,37,37,37                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3697 | 1/1   | 0.96 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3180 | 1/1   | 0.96 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3081 | 1/1   | 0.96 | 0.08 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3374 | 1/1   | 0.96 | 0.15 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3082 | 1/1   | 0.96 | 0.11 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1664 | 1/1   | 0.96 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1665 | 1/1   | 0.96 | 0.18 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3705 | 1/1   | 0.96 | 0.11 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3086 | 1/1   | 0.96 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3708 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3345 | 1/1   | 0.96 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3110 | 1/1   | 0.96 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3712 | 1/1   | 0.96 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3089 | 1/1   | 0.96 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1722 | 1/1   | 0.96 | 0.28 | 69,69,69,69                 | 0     |
| 57  | MG   | 1A    | 3351 | 1/1   | 0.96 | 0.08 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3385 | 1/1   | 0.96 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3265 | 1/1   | 0.96 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3093 | 1/1   | 0.96 | 0.17 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3079 | 1/1   | 0.96 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3582 | 1/1   | 0.96 | 0.13 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3723 | 1/1   | 0.96 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3725 | 1/1   | 0.96 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3354 | 1/1   | 0.96 | 0.12 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3098 | 1/1   | 0.96 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1733 | 1/1   | 0.96 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3100 | 1/1   | 0.96 | 0.21 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3727 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2a    | 1737 | 1/1   | 0.96 | 0.07 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3356 | 1/1   | 0.96 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 2a    | 1740 | 1/1   | 0.96 | 0.06 | 78,78,78,78                 | 0     |
| 57  | MG   | 1A    | 3893 | 1/1   | 0.96 | 0.04 | 27,27,27,27                 | 0     |
| 57  | MG   | 1a    | 1678 | 1/1   | 0.96 | 0.07 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3081 | 1/1   | 0.96 | 0.18 | 31,31,31,31                 | 0     |
| 57  | MG   | 2a    | 1745 | 1/1   | 0.96 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3358 | 1/1   | 0.96 | 0.29 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3897 | 1/1   | 0.96 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3272 | 1/1   | 0.96 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 2a    | 1750 | 1/1   | 0.96 | 0.11 | 64,64,64,64                 | 0     |
| 57  | MG   | 2a    | 1751 | 1/1   | 0.96 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3082 | 1/1   | 0.96 | 0.15 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3113 | 1/1   | 0.96 | 0.20 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2a    | 1755 | 1/1   | 0.96 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 2a    | 1756 | 1/1   | 0.96 | 0.12 | 55,55,55,55                 | 0     |
| 57  | MG   | 2a    | 1758 | 1/1   | 0.96 | 0.08 | 73,73,73,73                 | 0     |
| 57  | MG   | 2A    | 3742 | 1/1   | 0.96 | 0.10 | 59,59,59,59                 | 0     |
| 57  | MG   | 2a    | 1761 | 1/1   | 0.96 | 0.07 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1762 | 1/1   | 0.96 | 0.09 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3406 | 1/1   | 0.96 | 0.21 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1686 | 1/1   | 0.96 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3901 | 1/1   | 0.96 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3274 | 1/1   | 0.96 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3735 | 1/1   | 0.96 | 0.06 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3281 | 1/1   | 0.96 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1771 | 1/1   | 0.96 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3737 | 1/1   | 0.96 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3459 | 1/1   | 0.96 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 4117 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3415 | 1/1   | 0.96 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3755 | 1/1   | 0.96 | 0.06 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3364 | 1/1   | 0.96 | 0.24 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3282 | 1/1   | 0.96 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3283 | 1/1   | 0.96 | 0.10 | 36,36,36,36                 | 0     |
| 57  | MG   | 1a    | 1698 | 1/1   | 0.96 | 0.23 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3760 | 1/1   | 0.96 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3746 | 1/1   | 0.96 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3463 | 1/1   | 0.96 | 0.06 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1701 | 1/1   | 0.96 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1B    | 204  | 1/1   | 0.96 | 0.23 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1790 | 1/1   | 0.96 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3138 | 1/1   | 0.96 | 0.17 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1792 | 1/1   | 0.96 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3767 | 1/1   | 0.96 | 0.14 | 55,55,55,55                 | 0     |
| 57  | MG   | 1a    | 1703 | 1/1   | 0.96 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 1B    | 206  | 1/1   | 0.96 | 0.16 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3429 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3087 | 1/1   | 0.96 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3119 | 1/1   | 0.96 | 0.19 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3752 | 1/1   | 0.96 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 1B    | 212  | 1/1   | 0.96 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3778 | 1/1   | 0.96 | 0.09 | 52,52,52,52                 | 0     |
| 57  | MG   | 2a    | 1802 | 1/1   | 0.96 | 0.14 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3779 | 1/1   | 0.96 | 0.05 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3372 | 1/1   | 0.96 | 0.20 | 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   | 1B    | 215  | 1/1   | 0.96 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3782 | 1/1   | 0.96 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3436 | 1/1   | 0.96 | 0.25 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3437 | 1/1   | 0.96 | 0.13 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3152 | 1/1   | 0.96 | 0.21 | 57,57,57,57                 | 0     |
| 57  | MG   | 2a    | 1810 | 1/1   | 0.96 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 2a    | 1811 | 1/1   | 0.96 | 0.08 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3927 | 1/1   | 0.96 | 0.14 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3608 | 1/1   | 0.96 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 2a    | 1814 | 1/1   | 0.96 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3931 | 1/1   | 0.96 | 0.07 | 63,63,63,63                 | 0     |
| 57  | MG   | 2A    | 3158 | 1/1   | 0.96 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3755 | 1/1   | 0.96 | 0.07 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3161 | 1/1   | 0.96 | 0.08 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3194 | 1/1   | 0.96 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 2a    | 1820 | 1/1   | 0.96 | 0.21 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3289 | 1/1   | 0.96 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 1B    | 224  | 1/1   | 0.96 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3195 | 1/1   | 0.96 | 0.18 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3449 | 1/1   | 0.96 | 0.23 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3612 | 1/1   | 0.96 | 0.05 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3196 | 1/1   | 0.96 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3939 | 1/1   | 0.96 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3015 | 1/1   | 0.96 | 0.13 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3941 | 1/1   | 0.96 | 0.10 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3126 | 1/1   | 0.96 | 0.12 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3132 | 1/1   | 0.96 | 0.14 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1730 | 1/1   | 0.96 | 0.21 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3182 | 1/1   | 0.96 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3815 | 1/1   | 0.96 | 0.12 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3482 | 1/1   | 0.96 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3462 | 1/1   | 0.96 | 0.14 | 51,51,51,51                 | 0     |
| 57  | MG   | 1a    | 1734 | 1/1   | 0.96 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 1D    | 304  | 1/1   | 0.96 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3820 | 1/1   | 0.96 | 0.06 | 56,56,56,56                 | 0     |
| 57  | MG   | 2e    | 201  | 1/1   | 0.96 | 0.05 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3821 | 1/1   | 0.96 | 0.06 | 66,66,66,66                 | 0     |
| 57  | MG   | 2A    | 3187 | 1/1   | 0.96 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1D    | 308  | 1/1   | 0.96 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3189 | 1/1   | 0.96 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 2l    | 201  | 1/1   | 0.96 | 0.19 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3825 | 1/1   | 0.96 | 0.10 | 60,60,60,60                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1D    | 310  | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3469 | 1/1   | 0.96 | 0.26 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3828 | 1/1   | 0.96 | 0.06 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3136 | 1/1   | 0.96 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3137 | 1/1   | 0.96 | 0.11 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3953 | 1/1   | 0.96 | 0.04 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3474 | 1/1   | 0.96 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3475 | 1/1   | 0.96 | 0.21 | 59,59,59,59                 | 0     |
| 57  | MG   | 2w    | 101  | 1/1   | 0.96 | 0.20 | 64,64,64,64                 | 0     |
| 57  | MG   | 1a    | 1743 | 1/1   | 0.96 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3622 | 1/1   | 0.96 | 0.09 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1745 | 1/1   | 0.96 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3624 | 1/1   | 0.96 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3483 | 1/1   | 0.96 | 0.16 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3842 | 1/1   | 0.96 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3625 | 1/1   | 0.96 | 0.05 | 13,13,13,13                 | 0     |
| 57  | MG   | 2A    | 3845 | 1/1   | 0.96 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 2x    | 103  | 1/1   | 0.96 | 0.09 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3385 | 1/1   | 0.96 | 0.16 | 41,41,41,41                 | 0     |
| 57  | MG   | 1F    | 301  | 1/1   | 0.96 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3203 | 1/1   | 0.96 | 0.10 | 56,56,56,56                 | 0     |
| 57  | MG   | 1a    | 1751 | 1/1   | 0.96 | 0.05 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3492 | 1/1   | 0.96 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3491 | 1/1   | 0.96 | 0.07 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3780 | 1/1   | 0.96 | 0.04 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3207 | 1/1   | 0.96 | 0.17 | 49,49,49,49                 | 0     |
| 59  | ZN   | 24    | 501  | 1/1   | 0.96 | 0.12 | 108,108,108,108             | 0     |
| 57  | MG   | 2A    | 3549 | 1/1   | 0.97 | 0.12 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3248 | 1/1   | 0.97 | 0.08 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3250 | 1/1   | 0.97 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3251 | 1/1   | 0.97 | 0.05 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3083 | 1/1   | 0.97 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 1Y    | 203  | 1/1   | 0.97 | 0.16 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3254 | 1/1   | 0.97 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3085 | 1/1   | 0.97 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3839 | 1/1   | 0.97 | 0.14 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3261 | 1/1   | 0.97 | 0.21 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3120 | 1/1   | 0.97 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3263 | 1/1   | 0.97 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3048 | 1/1   | 0.97 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1m    | 3001 | 1/1   | 0.97 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 1m    | 3002 | 1/1   | 0.97 | 0.06 | 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    | 3349 | 1/1   | 0.97 | 0.13 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3123 | 1/1   | 0.97 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3268 | 1/1   | 0.97 | 0.19 | 50,50,50,50                 | 0     |
| 57  | MG   | 2E    | 302  | 1/1   | 0.97 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3267 | 1/1   | 0.97 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 10    | 109  | 1/1   | 0.97 | 0.07 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3268 | 1/1   | 0.97 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 2F    | 301  | 1/1   | 0.97 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3124 | 1/1   | 0.97 | 0.15 | 50,50,50,50                 | 0     |
| 57  | MG   | 11    | 103  | 1/1   | 0.97 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 2F    | 304  | 1/1   | 0.97 | 0.14 | 48,48,48,48                 | 0     |
| 57  | MG   | 2F    | 305  | 1/1   | 0.97 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3850 | 1/1   | 0.97 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3545 | 1/1   | 0.97 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3576 | 1/1   | 0.97 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3693 | 1/1   | 0.97 | 0.04 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 4035 | 1/1   | 0.97 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3125 | 1/1   | 0.97 | 0.10 | 31,31,31,31                 | 0     |
| 57  | MG   | 2Q    | 201  | 1/1   | 0.97 | 0.05 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 4037 | 1/1   | 0.97 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 13    | 103  | 1/1   | 0.97 | 0.04 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 4038 | 1/1   | 0.97 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3583 | 1/1   | 0.97 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3695 | 1/1   | 0.97 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3442 | 1/1   | 0.97 | 0.08 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3587 | 1/1   | 0.97 | 0.05 | 63,63,63,63                 | 0     |
| 57  | MG   | 15    | 101  | 1/1   | 0.97 | 0.14 | 18,18,18,18                 | 0     |
| 57  | MG   | 1A    | 3355 | 1/1   | 0.97 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3444 | 1/1   | 0.97 | 0.21 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3592 | 1/1   | 0.97 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 15    | 104  | 1/1   | 0.97 | 0.12 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3594 | 1/1   | 0.97 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 15    | 105  | 1/1   | 0.97 | 0.13 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3596 | 1/1   | 0.97 | 0.06 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3197 | 1/1   | 0.97 | 0.10 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3066 | 1/1   | 0.97 | 0.20 | 54,54,54,54                 | 0     |
| 57  | MG   | 17    | 101  | 1/1   | 0.97 | 0.05 | 35,35,35,35                 | 0     |
| 57  | MG   | 23    | 102  | 1/1   | 0.97 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3601 | 1/1   | 0.97 | 0.10 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3552 | 1/1   | 0.97 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3447 | 1/1   | 0.97 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3703 | 1/1   | 0.97 | 0.07 | 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    | 3089 | 1/1   | 0.97 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3865 | 1/1   | 0.97 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3204 | 1/1   | 0.97 | 0.14 | 31,31,31,31                 | 0     |
| 57  | MG   | 27    | 101  | 1/1   | 0.97 | 0.10 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 4053 | 1/1   | 0.97 | 0.06 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3090 | 1/1   | 0.97 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3067 | 1/1   | 0.97 | 0.04 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 4057 | 1/1   | 0.97 | 0.06 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3005 | 1/1   | 0.97 | 0.23 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3566 | 1/1   | 0.97 | 0.12 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3306 | 1/1   | 0.97 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1a    | 1607 | 1/1   | 0.97 | 0.20 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 4060 | 1/1   | 0.97 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3210 | 1/1   | 0.97 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3619 | 1/1   | 0.97 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4063 | 1/1   | 0.97 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3013 | 1/1   | 0.97 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3015 | 1/1   | 0.97 | 0.11 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3016 | 1/1   | 0.97 | 0.11 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3569 | 1/1   | 0.97 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3315 | 1/1   | 0.97 | 0.06 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3363 | 1/1   | 0.97 | 0.20 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1614 | 1/1   | 0.97 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3572 | 1/1   | 0.97 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3024 | 1/1   | 0.97 | 0.27 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3139 | 1/1   | 0.97 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3026 | 1/1   | 0.97 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3027 | 1/1   | 0.97 | 0.19 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 4068 | 1/1   | 0.97 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3574 | 1/1   | 0.97 | 0.24 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3575 | 1/1   | 0.97 | 0.26 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3577 | 1/1   | 0.97 | 0.10 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3578 | 1/1   | 0.97 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3029 | 1/1   | 0.97 | 0.05 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3290 | 1/1   | 0.97 | 0.14 | 27,27,27,27                 | 0     |
| 57  | MG   | 2a    | 1629 | 1/1   | 0.97 | 0.19 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4076 | 1/1   | 0.97 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3723 | 1/1   | 0.97 | 0.06 | 13,13,13,13                 | 0     |
| 57  | MG   | 1A    | 3882 | 1/1   | 0.97 | 0.13 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3581 | 1/1   | 0.97 | 0.20 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3022 | 1/1   | 0.97 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3042 | 1/1   | 0.97 | 0.12 | 47,47,47,47                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3143 | 1/1   | 0.97 | 0.14 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3044 | 1/1   | 0.97 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 2A    | 3045 | 1/1   | 0.97 | 0.18 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3584 | 1/1   | 0.97 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3585 | 1/1   | 0.97 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3586 | 1/1   | 0.97 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3587 | 1/1   | 0.97 | 0.11 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3588 | 1/1   | 0.97 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3589 | 1/1   | 0.97 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 4088 | 1/1   | 0.97 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3346 | 1/1   | 0.97 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3371 | 1/1   | 0.97 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1644 | 1/1   | 0.97 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3218 | 1/1   | 0.97 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3665 | 1/1   | 0.97 | 0.05 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1646 | 1/1   | 0.97 | 0.10 | 45,45,45,45                 | 0     |
| 57  | MG   | 1a    | 1647 | 1/1   | 0.97 | 0.14 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 4091 | 1/1   | 0.97 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 1a    | 1649 | 1/1   | 0.97 | 0.07 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3219 | 1/1   | 0.97 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3672 | 1/1   | 0.97 | 0.09 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3220 | 1/1   | 0.97 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3004 | 1/1   | 0.97 | 0.04 | 20,20,20,20                 | 0     |
| 57  | MG   | 1a    | 1656 | 1/1   | 0.97 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3740 | 1/1   | 0.97 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 1a    | 1658 | 1/1   | 0.97 | 0.23 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3070 | 1/1   | 0.97 | 0.10 | 51,51,51,51                 | 0     |
| 57  | MG   | 2a    | 1665 | 1/1   | 0.97 | 0.10 | 61,61,61,61                 | 0     |
| 57  | MG   | 2A    | 3361 | 1/1   | 0.97 | 0.09 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3362 | 1/1   | 0.97 | 0.21 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3597 | 1/1   | 0.97 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1660 | 1/1   | 0.97 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3464 | 1/1   | 0.97 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3743 | 1/1   | 0.97 | 0.05 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3146 | 1/1   | 0.97 | 0.13 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3467 | 1/1   | 0.97 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3908 | 1/1   | 0.97 | 0.05 | 33,33,33,33                 | 0     |
| 57  | MG   | 1a    | 1666 | 1/1   | 0.97 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3096 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3225 | 1/1   | 0.97 | 0.12 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3749 | 1/1   | 0.97 | 0.06 | 53,53,53,53                 | 0     |
| 57  | MG   | 2a    | 1680 | 1/1   | 0.97 | 0.07 | 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   | 1A    | 3228 | 1/1   | 0.97 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 4114 | 1/1   | 0.97 | 0.05 | 13,13,13,13                 | 0     |
| 57  | MG   | 1A    | 3751 | 1/1   | 0.97 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3304 | 1/1   | 0.97 | 0.19 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3071 | 1/1   | 0.97 | 0.05 | 13,13,13,13                 | 0     |
| 57  | MG   | 1A    | 3921 | 1/1   | 0.97 | 0.17 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 4119 | 1/1   | 0.97 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3700 | 1/1   | 0.97 | 0.13 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3382 | 1/1   | 0.97 | 0.16 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 4120 | 1/1   | 0.97 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3473 | 1/1   | 0.97 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3073 | 1/1   | 0.97 | 0.04 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3387 | 1/1   | 0.97 | 0.14 | 29,29,29,29                 | 0     |
| 57  | MG   | 1a    | 1681 | 1/1   | 0.97 | 0.14 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3707 | 1/1   | 0.97 | 0.08 | 68,68,68,68                 | 0     |
| 57  | MG   | 1B    | 202  | 1/1   | 0.97 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3757 | 1/1   | 0.97 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3476 | 1/1   | 0.97 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3104 | 1/1   | 0.97 | 0.19 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3713 | 1/1   | 0.97 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1B    | 205  | 1/1   | 0.97 | 0.05 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3715 | 1/1   | 0.97 | 0.06 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3477 | 1/1   | 0.97 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3760 | 1/1   | 0.97 | 0.04 | 35,35,35,35                 | 0     |
| 57  | MG   | 1B    | 208  | 1/1   | 0.97 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3388 | 1/1   | 0.97 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 2a    | 1709 | 1/1   | 0.97 | 0.17 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3720 | 1/1   | 0.97 | 0.04 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3479 | 1/1   | 0.97 | 0.12 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3399 | 1/1   | 0.97 | 0.08 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3480 | 1/1   | 0.97 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3231 | 1/1   | 0.97 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 1B    | 214  | 1/1   | 0.97 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3727 | 1/1   | 0.97 | 0.08 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3938 | 1/1   | 0.97 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3729 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3039 | 1/1   | 0.97 | 0.21 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3616 | 1/1   | 0.97 | 0.08 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3483 | 1/1   | 0.97 | 0.13 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3121 | 1/1   | 0.97 | 0.08 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3484 | 1/1   | 0.97 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3123 | 1/1   | 0.97 | 0.06 | 33,33,33,33                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3772 | 1/1   | 0.97 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 1B    | 221  | 1/1   | 0.97 | 0.09 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3126 | 1/1   | 0.97 | 0.05 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3391 | 1/1   | 0.97 | 0.14 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3620 | 1/1   | 0.97 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3129 | 1/1   | 0.97 | 0.06 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3130 | 1/1   | 0.97 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3019 | 1/1   | 0.97 | 0.17 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3488 | 1/1   | 0.97 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3954 | 1/1   | 0.97 | 0.06 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3778 | 1/1   | 0.97 | 0.05 | 23,23,23,23                 | 0     |
| 57  | MG   | 2A    | 3135 | 1/1   | 0.97 | 0.14 | 43,43,43,43                 | 0     |
| 57  | MG   | 1B    | 229  | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 2a    | 1739 | 1/1   | 0.97 | 0.10 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3489 | 1/1   | 0.97 | 0.09 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3236 | 1/1   | 0.97 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 2a    | 1742 | 1/1   | 0.97 | 0.07 | 68,68,68,68                 | 0     |
| 57  | MG   | 1A    | 3394 | 1/1   | 0.97 | 0.19 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3312 | 1/1   | 0.97 | 0.10 | 35,35,35,35                 | 0     |
| 57  | MG   | 1B    | 234  | 1/1   | 0.97 | 0.09 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3144 | 1/1   | 0.97 | 0.13 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3961 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3105 | 1/1   | 0.97 | 0.18 | 30,30,30,30                 | 0     |
| 57  | MG   | 1a    | 1717 | 1/1   | 0.97 | 0.13 | 49,49,49,49                 | 0     |
| 57  | MG   | 1D    | 307  | 1/1   | 0.97 | 0.07 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3106 | 1/1   | 0.97 | 0.10 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3763 | 1/1   | 0.97 | 0.08 | 54,54,54,54                 | 0     |
| 57  | MG   | 2a    | 1754 | 1/1   | 0.97 | 0.06 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3151 | 1/1   | 0.97 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3633 | 1/1   | 0.97 | 0.08 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3495 | 1/1   | 0.97 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 2a    | 1759 | 1/1   | 0.97 | 0.06 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3155 | 1/1   | 0.97 | 0.07 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3398 | 1/1   | 0.97 | 0.11 | 27,27,27,27                 | 0     |
| 57  | MG   | 1E    | 302  | 1/1   | 0.97 | 0.12 | 38,38,38,38                 | 0     |
| 57  | MG   | 1a    | 1724 | 1/1   | 0.97 | 0.11 | 37,37,37,37                 | 0     |
| 57  | MG   | 1E    | 303  | 1/1   | 0.97 | 0.15 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3166 | 1/1   | 0.97 | 0.09 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1766 | 1/1   | 0.97 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3163 | 1/1   | 0.97 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3401 | 1/1   | 0.97 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3241 | 1/1   | 0.97 | 0.05 | 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    | 1732 | 1/1   | 0.97 | 0.15 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3639 | 1/1   | 0.97 | 0.04 | 20,20,20,20                 | 0     |
| 57  | MG   | 2a    | 1773 | 1/1   | 0.97 | 0.10 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3168 | 1/1   | 0.97 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3640 | 1/1   | 0.97 | 0.04 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3452 | 1/1   | 0.97 | 0.20 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3171 | 1/1   | 0.97 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3789 | 1/1   | 0.97 | 0.06 | 53,53,53,53                 | 0     |
| 57  | MG   | 1E    | 313  | 1/1   | 0.97 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 2a    | 1781 | 1/1   | 0.97 | 0.16 | 56,56,56,56                 | 0     |
| 57  | MG   | 2A    | 3173 | 1/1   | 0.97 | 0.08 | 55,55,55,55                 | 0     |
| 57  | MG   | 1A    | 3107 | 1/1   | 0.97 | 0.05 | 32,32,32,32                 | 0     |
| 57  | MG   | 1F    | 303  | 1/1   | 0.97 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3318 | 1/1   | 0.97 | 0.06 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1786 | 1/1   | 0.97 | 0.11 | 47,47,47,47                 | 0     |
| 57  | MG   | 1a    | 1739 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1740 | 1/1   | 0.97 | 0.11 | 48,48,48,48                 | 0     |
| 57  | MG   | 1F    | 305  | 1/1   | 0.97 | 0.15 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3181 | 1/1   | 0.97 | 0.11 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3800 | 1/1   | 0.97 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3801 | 1/1   | 0.97 | 0.08 | 56,56,56,56                 | 0     |
| 57  | MG   | 1A    | 3076 | 1/1   | 0.97 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3979 | 1/1   | 0.97 | 0.05 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3185 | 1/1   | 0.97 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3980 | 1/1   | 0.97 | 0.08 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3109 | 1/1   | 0.97 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3057 | 1/1   | 0.97 | 0.14 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3471 | 1/1   | 0.97 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3509 | 1/1   | 0.97 | 0.05 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3325 | 1/1   | 0.97 | 0.05 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3041 | 1/1   | 0.97 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 1N    | 204  | 1/1   | 0.97 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 1N    | 205  | 1/1   | 0.97 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3986 | 1/1   | 0.97 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3478 | 1/1   | 0.97 | 0.11 | 61,61,61,61                 | 0     |
| 57  | MG   | 1a    | 1756 | 1/1   | 0.97 | 0.07 | 45,45,45,45                 | 0     |
| 57  | MG   | 2A    | 3196 | 1/1   | 0.97 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1757 | 1/1   | 0.97 | 0.05 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3198 | 1/1   | 0.97 | 0.17 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3987 | 1/1   | 0.97 | 0.09 | 50,50,50,50                 | 0     |
| 57  | MG   | 2A    | 3486 | 1/1   | 0.97 | 0.07 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3487 | 1/1   | 0.97 | 0.15 | 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   | 2A    | 3488 | 1/1   | 0.97 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3178 | 1/1   | 0.97 | 0.18 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1762 | 1/1   | 0.97 | 0.04 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3989 | 1/1   | 0.97 | 0.05 | 61,61,61,61                 | 0     |
| 57  | MG   | 1P    | 201  | 1/1   | 0.97 | 0.10 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3249 | 1/1   | 0.97 | 0.04 | 47,47,47,47                 | 0     |
| 57  | MG   | 1Q    | 201  | 1/1   | 0.97 | 0.15 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3832 | 1/1   | 0.97 | 0.08 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3811 | 1/1   | 0.97 | 0.04 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3497 | 1/1   | 0.97 | 0.07 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3653 | 1/1   | 0.97 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3500 | 1/1   | 0.97 | 0.08 | 53,53,53,53                 | 0     |
| 57  | MG   | 2A    | 3837 | 1/1   | 0.97 | 0.11 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3329 | 1/1   | 0.97 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3517 | 1/1   | 0.97 | 0.14 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3995 | 1/1   | 0.97 | 0.04 | 35,35,35,35                 | 0     |
| 57  | MG   | 1R    | 202  | 1/1   | 0.97 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3658 | 1/1   | 0.97 | 0.10 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3020 | 1/1   | 0.97 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3846 | 1/1   | 0.97 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3331 | 1/1   | 0.97 | 0.10 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3663 | 1/1   | 0.97 | 0.08 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3851 | 1/1   | 0.97 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3113 | 1/1   | 0.97 | 0.17 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3419 | 1/1   | 0.97 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3115 | 1/1   | 0.97 | 0.07 | 46,46,46,46                 | 0     |
| 57  | MG   | 1T    | 203  | 1/1   | 0.97 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3826 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3254 | 1/1   | 0.97 | 0.06 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3858 | 1/1   | 0.97 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3860 | 1/1   | 0.97 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 1A    | 3182 | 1/1   | 0.97 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 1U    | 204  | 1/1   | 0.97 | 0.14 | 27,27,27,27                 | 0     |
| 57  | MG   | 1U    | 205  | 1/1   | 0.97 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3829 | 1/1   | 0.97 | 0.07 | 21,21,21,21                 | 0     |
| 57  | MG   | 1a    | 1789 | 1/1   | 0.97 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 2q    | 203  | 1/1   | 0.97 | 0.07 | 70,70,70,70                 | 0     |
| 57  | MG   | 1a    | 1790 | 1/1   | 0.97 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 1V    | 201  | 1/1   | 0.97 | 0.07 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3423 | 1/1   | 0.97 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3183 | 1/1   | 0.97 | 0.17 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3426 | 1/1   | 0.97 | 0.13 | 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   | 2v    | 104  | 1/1   | 0.97 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3232 | 1/1   | 0.97 | 0.15 | 53,53,53,53                 | 0     |
| 57  | MG   | 1a    | 1795 | 1/1   | 0.97 | 0.08 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3062 | 1/1   | 0.97 | 0.05 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1799 | 1/1   | 0.97 | 0.05 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3531 | 1/1   | 0.97 | 0.17 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3237 | 1/1   | 0.97 | 0.21 | 39,39,39,39                 | 0     |
| 57  | MG   | 2w    | 107  | 1/1   | 0.97 | 0.13 | 55,55,55,55                 | 0     |
| 57  | MG   | 2w    | 108  | 1/1   | 0.97 | 0.12 | 47,47,47,47                 | 0     |
| 57  | MG   | 1W    | 203  | 1/1   | 0.97 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3537 | 1/1   | 0.97 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 1W    | 205  | 1/1   | 0.97 | 0.07 | 36,36,36,36                 | 0     |
| 57  | MG   | 1a    | 1808 | 1/1   | 0.97 | 0.05 | 64,64,64,64                 | 0     |
| 57  | MG   | 2A    | 3540 | 1/1   | 0.97 | 0.09 | 43,43,43,43                 | 0     |
| 57  | MG   | 1X    | 101  | 1/1   | 0.97 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1X    | 102  | 1/1   | 0.97 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 1X    | 103  | 1/1   | 0.97 | 0.06 | 36,36,36,36                 | 0     |
| 57  | MG   | 1X    | 104  | 1/1   | 0.97 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3545 | 1/1   | 0.97 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1X    | 105  | 1/1   | 0.97 | 0.18 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 4015 | 1/1   | 0.97 | 0.07 | 52,52,52,52                 | 0     |
| 58  | K    | 1A    | 3565 | 1/1   | 0.97 | 0.07 | 31,31,31,31                 | 0     |
| 58  | K    | 2A    | 3479 | 1/1   | 0.97 | 0.08 | 52,52,52,52                 | 0     |
| 59  | ZN   | 2Y    | 501  | 1/1   | 0.97 | 0.05 | 99,99,99,99                 | 0     |
| 57  | MG   | 1A    | 3532 | 1/1   | 0.97 | 0.12 | 36,36,36,36                 | 0     |
| 59  | ZN   | 2n    | 501  | 1/1   | 0.97 | 0.05 | 73,73,73,73                 | 0     |
| 57  | MG   | 1A    | 3659 | 1/1   | 0.98 | 0.11 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3791 | 1/1   | 0.98 | 0.08 | 19,19,19,19                 | 0     |
| 57  | MG   | 25    | 104  | 1/1   | 0.98 | 0.04 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 4096 | 1/1   | 0.98 | 0.04 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3201 | 1/1   | 0.98 | 0.08 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3080 | 1/1   | 0.98 | 0.12 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1800 | 1/1   | 0.98 | 0.05 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1801 | 1/1   | 0.98 | 0.04 | 48,48,48,48                 | 0     |
| 57  | MG   | 2A    | 3421 | 1/1   | 0.98 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 15    | 106  | 1/1   | 0.98 | 0.10 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3270 | 1/1   | 0.98 | 0.13 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3795 | 1/1   | 0.98 | 0.04 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3425 | 1/1   | 0.98 | 0.11 | 38,38,38,38                 | 0     |
| 57  | MG   | 1a    | 1805 | 1/1   | 0.98 | 0.04 | 40,40,40,40                 | 0     |
| 57  | MG   | 1a    | 1807 | 1/1   | 0.98 | 0.04 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3271 | 1/1   | 0.98 | 0.04 | 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   | 17    | 102  | 1/1   | 0.98 | 0.08 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3030 | 1/1   | 0.98 | 0.12 | 26,26,26,26                 | 0     |
| 57  | MG   | 1a    | 1811 | 1/1   | 0.98 | 0.04 | 57,57,57,57                 | 0     |
| 57  | MG   | 17    | 104  | 1/1   | 0.98 | 0.07 | 32,32,32,32                 | 0     |
| 57  | MG   | 1a    | 1813 | 1/1   | 0.98 | 0.04 | 52,52,52,52                 | 0     |
| 57  | MG   | 17    | 105  | 1/1   | 0.98 | 0.05 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3045 | 1/1   | 0.98 | 0.05 | 29,29,29,29                 | 0     |
| 57  | MG   | 18    | 102  | 1/1   | 0.98 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 4107 | 1/1   | 0.98 | 0.05 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 4108 | 1/1   | 0.98 | 0.04 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 4109 | 1/1   | 0.98 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3945 | 1/1   | 0.98 | 0.05 | 59,59,59,59                 | 0     |
| 57  | MG   | 19    | 101  | 1/1   | 0.98 | 0.11 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3145 | 1/1   | 0.98 | 0.13 | 34,34,34,34                 | 0     |
| 57  | MG   | 1e    | 202  | 1/1   | 0.98 | 0.13 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3948 | 1/1   | 0.98 | 0.04 | 64,64,64,64                 | 0     |
| 57  | MG   | 1f    | 202  | 1/1   | 0.98 | 0.15 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3949 | 1/1   | 0.98 | 0.07 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3275 | 1/1   | 0.98 | 0.15 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3277 | 1/1   | 0.98 | 0.08 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1606 | 1/1   | 0.98 | 0.04 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3278 | 1/1   | 0.98 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3711 | 1/1   | 0.98 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3279 | 1/1   | 0.98 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 1a    | 1609 | 1/1   | 0.98 | 0.06 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3956 | 1/1   | 0.98 | 0.04 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3207 | 1/1   | 0.98 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3046 | 1/1   | 0.98 | 0.03 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3807 | 1/1   | 0.98 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 2a    | 1637 | 1/1   | 0.98 | 0.15 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3147 | 1/1   | 0.98 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1615 | 1/1   | 0.98 | 0.12 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1616 | 1/1   | 0.98 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3460 | 1/1   | 0.98 | 0.09 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3284 | 1/1   | 0.98 | 0.05 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3962 | 1/1   | 0.98 | 0.04 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3677 | 1/1   | 0.98 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3964 | 1/1   | 0.98 | 0.07 | 59,59,59,59                 | 0     |
| 57  | MG   | 2A    | 3726 | 1/1   | 0.98 | 0.07 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3555 | 1/1   | 0.98 | 0.04 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3812 | 1/1   | 0.98 | 0.05 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3556 | 1/1   | 0.98 | 0.05 | 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    | 3814 | 1/1   | 0.98 | 0.06 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3084 | 1/1   | 0.98 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1B    | 211  | 1/1   | 0.98 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3681 | 1/1   | 0.98 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3734 | 1/1   | 0.98 | 0.06 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3366 | 1/1   | 0.98 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1a    | 1631 | 1/1   | 0.98 | 0.15 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3818 | 1/1   | 0.98 | 0.04 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3367 | 1/1   | 0.98 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3286 | 1/1   | 0.98 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3975 | 1/1   | 0.98 | 0.04 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3213 | 1/1   | 0.98 | 0.05 | 38,38,38,38                 | 0     |
| 57  | MG   | 2A    | 3480 | 1/1   | 0.98 | 0.10 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3214 | 1/1   | 0.98 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3215 | 1/1   | 0.98 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3064 | 1/1   | 0.98 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3746 | 1/1   | 0.98 | 0.09 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3825 | 1/1   | 0.98 | 0.14 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3373 | 1/1   | 0.98 | 0.11 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3086 | 1/1   | 0.98 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3750 | 1/1   | 0.98 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3465 | 1/1   | 0.98 | 0.08 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3375 | 1/1   | 0.98 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3576 | 1/1   | 0.98 | 0.17 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3249 | 1/1   | 0.98 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 1A    | 3065 | 1/1   | 0.98 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 2a    | 1677 | 1/1   | 0.98 | 0.11 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 3155 | 1/1   | 0.98 | 0.05 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3156 | 1/1   | 0.98 | 0.10 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3011 | 1/1   | 0.98 | 0.08 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3157 | 1/1   | 0.98 | 0.07 | 22,22,22,22                 | 0     |
| 57  | MG   | 2A    | 3496 | 1/1   | 0.98 | 0.05 | 59,59,59,59                 | 0     |
| 57  | MG   | 1a    | 1651 | 1/1   | 0.98 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3498 | 1/1   | 0.98 | 0.05 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3014 | 1/1   | 0.98 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3380 | 1/1   | 0.98 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3296 | 1/1   | 0.98 | 0.12 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3159 | 1/1   | 0.98 | 0.26 | 31,31,31,31                 | 0     |
| 57  | MG   | 1D    | 302  | 1/1   | 0.98 | 0.11 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3019 | 1/1   | 0.98 | 0.04 | 46,46,46,46                 | 0     |
| 57  | MG   | 2A    | 3263 | 1/1   | 0.98 | 0.07 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3020 | 1/1   | 0.98 | 0.03 | 28,28,28,28                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 2A    | 3771 | 1/1   | 0.98 | 0.04 | 33,33,33,33                 | 0     |
| 57  | MG   | 1D    | 303  | 1/1   | 0.98 | 0.08 | 18,18,18,18                 | 0     |
| 57  | MG   | 1A    | 3047 | 1/1   | 0.98 | 0.04 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3774 | 1/1   | 0.98 | 0.09 | 48,48,48,48                 | 0     |
| 57  | MG   | 2a    | 1697 | 1/1   | 0.98 | 0.10 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3267 | 1/1   | 0.98 | 0.05 | 48,48,48,48                 | 0     |
| 57  | MG   | 1D    | 306  | 1/1   | 0.98 | 0.12 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3116 | 1/1   | 0.98 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 2a    | 1701 | 1/1   | 0.98 | 0.15 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3513 | 1/1   | 0.98 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3300 | 1/1   | 0.98 | 0.22 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3707 | 1/1   | 0.98 | 0.05 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3386 | 1/1   | 0.98 | 0.14 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3783 | 1/1   | 0.98 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3029 | 1/1   | 0.98 | 0.11 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3227 | 1/1   | 0.98 | 0.11 | 26,26,26,26                 | 0     |
| 57  | MG   | 1E    | 301  | 1/1   | 0.98 | 0.16 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3033 | 1/1   | 0.98 | 0.13 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3163 | 1/1   | 0.98 | 0.16 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3522 | 1/1   | 0.98 | 0.06 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3034 | 1/1   | 0.98 | 0.06 | 40,40,40,40                 | 0     |
| 57  | MG   | 1E    | 304  | 1/1   | 0.98 | 0.13 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3165 | 1/1   | 0.98 | 0.11 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3011 | 1/1   | 0.98 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3797 | 1/1   | 0.98 | 0.04 | 58,58,58,58                 | 0     |
| 57  | MG   | 1A    | 3307 | 1/1   | 0.98 | 0.05 | 26,26,26,26                 | 0     |
| 57  | MG   | 1E    | 309  | 1/1   | 0.98 | 0.07 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3529 | 1/1   | 0.98 | 0.03 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3167 | 1/1   | 0.98 | 0.03 | 14,14,14,14                 | 0     |
| 57  | MG   | 1E    | 311  | 1/1   | 0.98 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3803 | 1/1   | 0.98 | 0.08 | 60,60,60,60                 | 0     |
| 57  | MG   | 2A    | 3532 | 1/1   | 0.98 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 4006 | 1/1   | 0.98 | 0.04 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3595 | 1/1   | 0.98 | 0.08 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3718 | 1/1   | 0.98 | 0.06 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3596 | 1/1   | 0.98 | 0.08 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3485 | 1/1   | 0.98 | 0.04 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3051 | 1/1   | 0.98 | 0.04 | 19,19,19,19                 | 0     |
| 57  | MG   | 2A    | 3292 | 1/1   | 0.98 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3812 | 1/1   | 0.98 | 0.09 | 41,41,41,41                 | 0     |
| 57  | MG   | 1a    | 1682 | 1/1   | 0.98 | 0.14 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3235 | 1/1   | 0.98 | 0.05 | 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   | 1F    | 308  | 1/1   | 0.98 | 0.04 | 41,41,41,41                 | 0     |
| 57  | MG   | 2a    | 1736 | 1/1   | 0.98 | 0.05 | 64,64,64,64                 | 0     |
| 57  | MG   | 1A    | 3858 | 1/1   | 0.98 | 0.08 | 32,32,32,32                 | 0     |
| 57  | MG   | 1F    | 310  | 1/1   | 0.98 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 4014 | 1/1   | 0.98 | 0.05 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3055 | 1/1   | 0.98 | 0.05 | 46,46,46,46                 | 0     |
| 57  | MG   | 1G    | 201  | 1/1   | 0.98 | 0.08 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3052 | 1/1   | 0.98 | 0.06 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3025 | 1/1   | 0.98 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3008 | 1/1   | 0.98 | 0.06 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3304 | 1/1   | 0.98 | 0.10 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3399 | 1/1   | 0.98 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 2a    | 1747 | 1/1   | 0.98 | 0.05 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3173 | 1/1   | 0.98 | 0.10 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1694 | 1/1   | 0.98 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3176 | 1/1   | 0.98 | 0.02 | 13,13,13,13                 | 0     |
| 57  | MG   | 1N    | 202  | 1/1   | 0.98 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 1N    | 203  | 1/1   | 0.98 | 0.04 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3018 | 1/1   | 0.98 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3243 | 1/1   | 0.98 | 0.05 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4023 | 1/1   | 0.98 | 0.05 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3496 | 1/1   | 0.98 | 0.10 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3562 | 1/1   | 0.98 | 0.06 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3023 | 1/1   | 0.98 | 0.06 | 12,12,12,12                 | 0     |
| 57  | MG   | 1A    | 3319 | 1/1   | 0.98 | 0.09 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3042 | 1/1   | 0.98 | 0.11 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3076 | 1/1   | 0.98 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1P    | 202  | 1/1   | 0.98 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 1P    | 203  | 1/1   | 0.98 | 0.20 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3843 | 1/1   | 0.98 | 0.04 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3407 | 1/1   | 0.98 | 0.07 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4029 | 1/1   | 0.98 | 0.05 | 45,45,45,45                 | 0     |
| 57  | MG   | 1Q    | 202  | 1/1   | 0.98 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3083 | 1/1   | 0.98 | 0.06 | 44,44,44,44                 | 0     |
| 57  | MG   | 2a    | 1770 | 1/1   | 0.98 | 0.04 | 72,72,72,72                 | 0     |
| 57  | MG   | 2A    | 3573 | 1/1   | 0.98 | 0.06 | 41,41,41,41                 | 0     |
| 57  | MG   | 2A    | 3850 | 1/1   | 0.98 | 0.04 | 54,54,54,54                 | 0     |
| 57  | MG   | 1Q    | 203  | 1/1   | 0.98 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 2a    | 1774 | 1/1   | 0.98 | 0.12 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3322 | 1/1   | 0.98 | 0.05 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3127 | 1/1   | 0.98 | 0.07 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3739 | 1/1   | 0.98 | 0.04 | 28,28,28,28                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3503 | 1/1   | 0.98 | 0.04 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3504 | 1/1   | 0.98 | 0.07 | 41,41,41,41                 | 0     |
| 57  | MG   | 1A    | 3128 | 1/1   | 0.98 | 0.05 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3129 | 1/1   | 0.98 | 0.12 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3092 | 1/1   | 0.98 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3744 | 1/1   | 0.98 | 0.08 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3130 | 1/1   | 0.98 | 0.10 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3508 | 1/1   | 0.98 | 0.05 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3184 | 1/1   | 0.98 | 0.19 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3251 | 1/1   | 0.98 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 4043 | 1/1   | 0.98 | 0.06 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3867 | 1/1   | 0.98 | 0.04 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3099 | 1/1   | 0.98 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3885 | 1/1   | 0.98 | 0.06 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3416 | 1/1   | 0.98 | 0.09 | 39,39,39,39                 | 0     |
| 57  | MG   | 1U    | 201  | 1/1   | 0.98 | 0.09 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3103 | 1/1   | 0.98 | 0.05 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3512 | 1/1   | 0.98 | 0.09 | 28,28,28,28                 | 0     |
| 57  | MG   | 1a    | 1729 | 1/1   | 0.98 | 0.12 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3875 | 1/1   | 0.98 | 0.09 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3626 | 1/1   | 0.98 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1731 | 1/1   | 0.98 | 0.12 | 63,63,63,63                 | 0     |
| 57  | MG   | 1A    | 3627 | 1/1   | 0.98 | 0.13 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3131 | 1/1   | 0.98 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 2A    | 3880 | 1/1   | 0.98 | 0.10 | 44,44,44,44                 | 0     |
| 57  | MG   | 1U    | 206  | 1/1   | 0.98 | 0.06 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3883 | 1/1   | 0.98 | 0.05 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3100 | 1/1   | 0.98 | 0.14 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3885 | 1/1   | 0.98 | 0.05 | 49,49,49,49                 | 0     |
| 57  | MG   | 1U    | 209  | 1/1   | 0.98 | 0.12 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3887 | 1/1   | 0.98 | 0.09 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3630 | 1/1   | 0.98 | 0.05 | 24,24,24,24                 | 0     |
| 57  | MG   | 1V    | 202  | 1/1   | 0.98 | 0.05 | 32,32,32,32                 | 0     |
| 57  | MG   | 1V    | 203  | 1/1   | 0.98 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3609 | 1/1   | 0.98 | 0.13 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 3515 | 1/1   | 0.98 | 0.13 | 31,31,31,31                 | 0     |
| 57  | MG   | 1V    | 205  | 1/1   | 0.98 | 0.06 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3120 | 1/1   | 0.98 | 0.10 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3133 | 1/1   | 0.98 | 0.09 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3188 | 1/1   | 0.98 | 0.14 | 34,34,34,34                 | 0     |
| 57  | MG   | 1V    | 208  | 1/1   | 0.98 | 0.11 | 33,33,33,33                 | 0     |
| 57  | MG   | 2B    | 207  | 1/1   | 0.98 | 0.07 | 53,53,53,53                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3256 | 1/1   | 0.98 | 0.06 | 49,49,49,49                 | 0     |
| 57  | MG   | 1W    | 201  | 1/1   | 0.98 | 0.13 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1747 | 1/1   | 0.98 | 0.04 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3898 | 1/1   | 0.98 | 0.04 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 4059 | 1/1   | 0.98 | 0.03 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3621 | 1/1   | 0.98 | 0.07 | 34,34,34,34                 | 0     |
| 57  | MG   | 1W    | 204  | 1/1   | 0.98 | 0.13 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3134 | 1/1   | 0.98 | 0.15 | 38,38,38,38                 | 0     |
| 57  | MG   | 1W    | 206  | 1/1   | 0.98 | 0.07 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3761 | 1/1   | 0.98 | 0.04 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3190 | 1/1   | 0.98 | 0.22 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3191 | 1/1   | 0.98 | 0.14 | 24,24,24,24                 | 0     |
| 57  | MG   | 1A    | 3425 | 1/1   | 0.98 | 0.05 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3192 | 1/1   | 0.98 | 0.17 | 35,35,35,35                 | 0     |
| 57  | MG   | 2D    | 302  | 1/1   | 0.98 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 2D    | 303  | 1/1   | 0.98 | 0.09 | 46,46,46,46                 | 0     |
| 57  | MG   | 2a    | 1836 | 1/1   | 0.98 | 0.06 | 54,54,54,54                 | 0     |
| 57  | MG   | 1a    | 1759 | 1/1   | 0.98 | 0.11 | 55,55,55,55                 | 0     |
| 57  | MG   | 2D    | 306  | 1/1   | 0.98 | 0.25 | 40,40,40,40                 | 0     |
| 57  | MG   | 1X    | 106  | 1/1   | 0.98 | 0.04 | 44,44,44,44                 | 0     |
| 57  | MG   | 1a    | 1761 | 1/1   | 0.98 | 0.07 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3135 | 1/1   | 0.98 | 0.05 | 38,38,38,38                 | 0     |
| 57  | MG   | 2f    | 201  | 1/1   | 0.98 | 0.12 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3043 | 1/1   | 0.98 | 0.09 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3381 | 1/1   | 0.98 | 0.06 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3340 | 1/1   | 0.98 | 0.05 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3643 | 1/1   | 0.98 | 0.05 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3910 | 1/1   | 0.98 | 0.05 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3102 | 1/1   | 0.98 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3773 | 1/1   | 0.98 | 0.04 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3528 | 1/1   | 0.98 | 0.04 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4075 | 1/1   | 0.98 | 0.04 | 52,52,52,52                 | 0     |
| 57  | MG   | 1A    | 3915 | 1/1   | 0.98 | 0.04 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3390 | 1/1   | 0.98 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 2A    | 3647 | 1/1   | 0.98 | 0.08 | 57,57,57,57                 | 0     |
| 57  | MG   | 10    | 105  | 1/1   | 0.98 | 0.05 | 43,43,43,43                 | 0     |
| 57  | MG   | 2A    | 3154 | 1/1   | 0.98 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3342 | 1/1   | 0.98 | 0.12 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3530 | 1/1   | 0.98 | 0.05 | 37,37,37,37                 | 0     |
| 57  | MG   | 2Q    | 203  | 1/1   | 0.98 | 0.07 | 48,48,48,48                 | 0     |
| 57  | MG   | 1A    | 3919 | 1/1   | 0.98 | 0.05 | 36,36,36,36                 | 0     |
| 57  | MG   | 1A    | 3264 | 1/1   | 0.98 | 0.10 | 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   | 2R    | 201  | 1/1   | 0.98 | 0.15 | 46,46,46,46                 | 0     |
| 57  | MG   | 1A    | 3138 | 1/1   | 0.98 | 0.04 | 13,13,13,13                 | 0     |
| 57  | MG   | 1A    | 3924 | 1/1   | 0.98 | 0.03 | 27,27,27,27                 | 0     |
| 57  | MG   | 2T    | 202  | 1/1   | 0.98 | 0.20 | 52,52,52,52                 | 0     |
| 57  | MG   | 2A    | 3656 | 1/1   | 0.98 | 0.13 | 48,48,48,48                 | 0     |
| 57  | MG   | 2U    | 201  | 1/1   | 0.98 | 0.07 | 54,54,54,54                 | 0     |
| 57  | MG   | 2A    | 3162 | 1/1   | 0.98 | 0.08 | 35,35,35,35                 | 0     |
| 57  | MG   | 1a    | 1780 | 1/1   | 0.98 | 0.04 | 66,66,66,66                 | 0     |
| 57  | MG   | 1A    | 3078 | 1/1   | 0.98 | 0.14 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3534 | 1/1   | 0.98 | 0.12 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3435 | 1/1   | 0.98 | 0.07 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3928 | 1/1   | 0.98 | 0.12 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3654 | 1/1   | 0.98 | 0.04 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3169 | 1/1   | 0.98 | 0.12 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3930 | 1/1   | 0.98 | 0.06 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3346 | 1/1   | 0.98 | 0.15 | 35,35,35,35                 | 0     |
| 57  | MG   | 13    | 102  | 1/1   | 0.98 | 0.04 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3656 | 1/1   | 0.98 | 0.05 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3787 | 1/1   | 0.98 | 0.04 | 23,23,23,23                 | 0     |
| 59  | ZN   | 1Y    | 204  | 1/1   | 0.98 | 0.07 | 70,70,70,70                 | 0     |
| 59  | ZN   | 14    | 102  | 1/1   | 0.98 | 0.08 | 94,94,94,94                 | 0     |
| 57  | MG   | 2A    | 3670 | 1/1   | 0.98 | 0.04 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3347 | 1/1   | 0.98 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3060 | 1/1   | 0.98 | 0.22 | 50,50,50,50                 | 0     |
| 60  | SF4  | 2d    | 303  | 8/8   | 0.98 | 0.05 | 64,67,77,77                 | 0     |
| 57  | MG   | 2A    | 3112 | 1/1   | 0.99 | 0.09 | 36,36,36,36                 | 0     |
| 57  | MG   | 2A    | 3848 | 1/1   | 0.99 | 0.03 | 47,47,47,47                 | 0     |
| 57  | MG   | 2A    | 3591 | 1/1   | 0.99 | 0.05 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3783 | 1/1   | 0.99 | 0.07 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3114 | 1/1   | 0.99 | 0.11 | 57,57,57,57                 | 0     |
| 57  | MG   | 1A    | 3164 | 1/1   | 0.99 | 0.07 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3234 | 1/1   | 0.99 | 0.16 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3094 | 1/1   | 0.99 | 0.12 | 20,20,20,20                 | 0     |
| 57  | MG   | 2a    | 1757 | 1/1   | 0.99 | 0.04 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3276 | 1/1   | 0.99 | 0.04 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3021 | 1/1   | 0.99 | 0.06 | 21,21,21,21                 | 0     |
| 57  | MG   | 1F    | 302  | 1/1   | 0.99 | 0.04 | 25,25,25,25                 | 0     |
| 57  | MG   | 2A    | 3600 | 1/1   | 0.99 | 0.13 | 51,51,51,51                 | 0     |
| 57  | MG   | 2A    | 3859 | 1/1   | 0.99 | 0.06 | 59,59,59,59                 | 0     |
| 57  | MG   | 1A    | 3662 | 1/1   | 0.99 | 0.03 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3009 | 1/1   | 0.99 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3321 | 1/1   | 0.99 | 0.06 | 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   | 1A    | 3412 | 1/1   | 0.99 | 0.09 | 33,33,33,33                 | 0     |
| 57  | MG   | 1F    | 306  | 1/1   | 0.99 | 0.16 | 26,26,26,26                 | 0     |
| 57  | MG   | 1A    | 3554 | 1/1   | 0.99 | 0.12 | 27,27,27,27                 | 0     |
| 57  | MG   | 1a    | 1770 | 1/1   | 0.99 | 0.05 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3198 | 1/1   | 0.99 | 0.04 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3238 | 1/1   | 0.99 | 0.07 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 4099 | 1/1   | 0.99 | 0.06 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3557 | 1/1   | 0.99 | 0.11 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3730 | 1/1   | 0.99 | 0.08 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3558 | 1/1   | 0.99 | 0.10 | 20,20,20,20                 | 0     |
| 57  | MG   | 2a    | 1638 | 1/1   | 0.99 | 0.16 | 49,49,49,49                 | 0     |
| 57  | MG   | 2A    | 3021 | 1/1   | 0.99 | 0.05 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 4103 | 1/1   | 0.99 | 0.04 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 4104 | 1/1   | 0.99 | 0.06 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3280 | 1/1   | 0.99 | 0.22 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3561 | 1/1   | 0.99 | 0.11 | 31,31,31,31                 | 0     |
| 57  | MG   | 2A    | 3139 | 1/1   | 0.99 | 0.07 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3199 | 1/1   | 0.99 | 0.04 | 28,28,28,28                 | 0     |
| 57  | MG   | 2A    | 3141 | 1/1   | 0.99 | 0.08 | 30,30,30,30                 | 0     |
| 57  | MG   | 2A    | 3881 | 1/1   | 0.99 | 0.04 | 50,50,50,50                 | 0     |
| 57  | MG   | 1A    | 3673 | 1/1   | 0.99 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3031 | 1/1   | 0.99 | 0.05 | 24,24,24,24                 | 0     |
| 57  | MG   | 2A    | 3262 | 1/1   | 0.99 | 0.04 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3946 | 1/1   | 0.99 | 0.04 | 12,12,12,12                 | 0     |
| 57  | MG   | 1A    | 3803 | 1/1   | 0.99 | 0.07 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3097 | 1/1   | 0.99 | 0.03 | 33,33,33,33                 | 0     |
| 57  | MG   | 2A    | 3628 | 1/1   | 0.99 | 0.06 | 51,51,51,51                 | 0     |
| 57  | MG   | 1A    | 4113 | 1/1   | 0.99 | 0.05 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3202 | 1/1   | 0.99 | 0.05 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3149 | 1/1   | 0.99 | 0.08 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3632 | 1/1   | 0.99 | 0.08 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3950 | 1/1   | 0.99 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3032 | 1/1   | 0.99 | 0.09 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3568 | 1/1   | 0.99 | 0.07 | 26,26,26,26                 | 0     |
| 57  | MG   | 2A    | 3511 | 1/1   | 0.99 | 0.07 | 61,61,61,61                 | 0     |
| 57  | MG   | 1A    | 3142 | 1/1   | 0.99 | 0.09 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3623 | 1/1   | 0.99 | 0.03 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 4034 | 1/1   | 0.99 | 0.05 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3014 | 1/1   | 0.99 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3571 | 1/1   | 0.99 | 0.14 | 31,31,31,31                 | 0     |
| 57  | MG   | 1a    | 1797 | 1/1   | 0.99 | 0.04 | 58,58,58,58                 | 0     |
| 57  | MG   | 2A    | 3159 | 1/1   | 0.99 | 0.08 | 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    | 1798 | 1/1   | 0.99 | 0.04 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3172 | 1/1   | 0.99 | 0.10 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3684 | 1/1   | 0.99 | 0.03 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3034 | 1/1   | 0.99 | 0.19 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3883 | 1/1   | 0.99 | 0.15 | 33,33,33,33                 | 0     |
| 57  | MG   | 1A    | 3686 | 1/1   | 0.99 | 0.02 | 35,35,35,35                 | 0     |
| 57  | MG   | 2A    | 3776 | 1/1   | 0.99 | 0.03 | 55,55,55,55                 | 0     |
| 57  | MG   | 2A    | 3049 | 1/1   | 0.99 | 0.12 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3208 | 1/1   | 0.99 | 0.03 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3209 | 1/1   | 0.99 | 0.06 | 27,27,27,27                 | 0     |
| 57  | MG   | 1a    | 1806 | 1/1   | 0.99 | 0.03 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3174 | 1/1   | 0.99 | 0.03 | 28,28,28,28                 | 0     |
| 57  | MG   | 2D    | 305  | 1/1   | 0.99 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3175 | 1/1   | 0.99 | 0.03 | 28,28,28,28                 | 0     |
| 57  | MG   | 1A    | 3691 | 1/1   | 0.99 | 0.06 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 4047 | 1/1   | 0.99 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3785 | 1/1   | 0.99 | 0.04 | 40,40,40,40                 | 0     |
| 57  | MG   | 2A    | 3786 | 1/1   | 0.99 | 0.02 | 42,42,42,42                 | 0     |
| 57  | MG   | 2A    | 3787 | 1/1   | 0.99 | 0.03 | 31,31,31,31                 | 0     |
| 57  | MG   | 1A    | 3122 | 1/1   | 0.99 | 0.08 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3049 | 1/1   | 0.99 | 0.03 | 19,19,19,19                 | 0     |
| 57  | MG   | 1A    | 3007 | 1/1   | 0.99 | 0.09 | 35,35,35,35                 | 0     |
| 57  | MG   | 1A    | 3148 | 1/1   | 0.99 | 0.14 | 32,32,32,32                 | 0     |
| 57  | MG   | 2A    | 3178 | 1/1   | 0.99 | 0.07 | 37,37,37,37                 | 0     |
| 57  | MG   | 2A    | 3061 | 1/1   | 0.99 | 0.03 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3894 | 1/1   | 0.99 | 0.05 | 34,34,34,34                 | 0     |
| 57  | MG   | 1a    | 1816 | 1/1   | 0.99 | 0.04 | 38,38,38,38                 | 0     |
| 57  | MG   | 1A    | 3005 | 1/1   | 0.99 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3104 | 1/1   | 0.99 | 0.10 | 42,42,42,42                 | 0     |
| 57  | MG   | 1a    | 1618 | 1/1   | 0.99 | 0.08 | 37,37,37,37                 | 0     |
| 57  | MG   | 1a    | 1619 | 1/1   | 0.99 | 0.04 | 47,47,47,47                 | 0     |
| 57  | MG   | 1A    | 4055 | 1/1   | 0.99 | 0.03 | 44,44,44,44                 | 0     |
| 57  | MG   | 2A    | 3069 | 1/1   | 0.99 | 0.03 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3151 | 1/1   | 0.99 | 0.09 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3037 | 1/1   | 0.99 | 0.07 | 20,20,20,20                 | 0     |
| 57  | MG   | 2A    | 3674 | 1/1   | 0.99 | 0.15 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3762 | 1/1   | 0.99 | 0.04 | 19,19,19,19                 | 0     |
| 57  | MG   | 1B    | 223  | 1/1   | 0.99 | 0.06 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 3302 | 1/1   | 0.99 | 0.13 | 27,27,27,27                 | 0     |
| 57  | MG   | 2A    | 3075 | 1/1   | 0.99 | 0.05 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3153 | 1/1   | 0.99 | 0.07 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3439 | 1/1   | 0.99 | 0.18 | 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   | 2A    | 3078 | 1/1   | 0.99 | 0.09 | 24,24,24,24                 | 0     |
| 57  | MG   | 1a    | 1725 | 1/1   | 0.99 | 0.09 | 37,37,37,37                 | 0     |
| 57  | MG   | 1A    | 4062 | 1/1   | 0.99 | 0.05 | 43,43,43,43                 | 0     |
| 57  | MG   | 1A    | 3348 | 1/1   | 0.99 | 0.07 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3038 | 1/1   | 0.99 | 0.08 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3009 | 1/1   | 0.99 | 0.02 | 22,22,22,22                 | 0     |
| 57  | MG   | 1a    | 1632 | 1/1   | 0.99 | 0.10 | 22,22,22,22                 | 0     |
| 57  | MG   | 1A    | 3223 | 1/1   | 0.99 | 0.05 | 42,42,42,42                 | 0     |
| 57  | MG   | 2X    | 103  | 1/1   | 0.99 | 0.10 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3907 | 1/1   | 0.99 | 0.09 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3837 | 1/1   | 0.99 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3010 | 1/1   | 0.99 | 0.05 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3072 | 1/1   | 0.99 | 0.04 | 21,21,21,21                 | 0     |
| 57  | MG   | 1A    | 3840 | 1/1   | 0.99 | 0.07 | 44,44,44,44                 | 0     |
| 57  | MG   | 1A    | 3912 | 1/1   | 0.99 | 0.03 | 29,29,29,29                 | 0     |
| 57  | MG   | 1A    | 3649 | 1/1   | 0.99 | 0.02 | 14,14,14,14                 | 0     |
| 57  | MG   | 1D    | 305  | 1/1   | 0.99 | 0.10 | 32,32,32,32                 | 0     |
| 57  | MG   | 1A    | 3226 | 1/1   | 0.99 | 0.13 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3711 | 1/1   | 0.99 | 0.02 | 17,17,17,17                 | 0     |
| 57  | MG   | 1A    | 3158 | 1/1   | 0.99 | 0.06 | 23,23,23,23                 | 0     |
| 57  | MG   | 1D    | 309  | 1/1   | 0.99 | 0.21 | 34,34,34,34                 | 0     |
| 57  | MG   | 1A    | 3917 | 1/1   | 0.99 | 0.07 | 42,42,42,42                 | 0     |
| 57  | MG   | 1A    | 3003 | 1/1   | 0.99 | 0.03 | 25,25,25,25                 | 0     |
| 57  | MG   | 1A    | 3997 | 1/1   | 0.99 | 0.04 | 53,53,53,53                 | 0     |
| 57  | MG   | 1A    | 3028 | 1/1   | 0.99 | 0.12 | 27,27,27,27                 | 0     |
| 57  | MG   | 1A    | 3058 | 1/1   | 0.99 | 0.04 | 23,23,23,23                 | 0     |
| 57  | MG   | 1A    | 3013 | 1/1   | 0.99 | 0.06 | 24,24,24,24                 | 0     |
| 57  | MG   | 1a    | 1652 | 1/1   | 0.99 | 0.13 | 39,39,39,39                 | 0     |
| 57  | MG   | 1a    | 1653 | 1/1   | 0.99 | 0.09 | 45,45,45,45                 | 0     |
| 57  | MG   | 1A    | 3922 | 1/1   | 0.99 | 0.06 | 29,29,29,29                 | 0     |
| 57  | MG   | 2A    | 3840 | 1/1   | 0.99 | 0.05 | 54,54,54,54                 | 0     |
| 57  | MG   | 1A    | 3923 | 1/1   | 0.99 | 0.02 | 20,20,20,20                 | 0     |
| 57  | MG   | 2A    | 3585 | 1/1   | 0.99 | 0.05 | 35,35,35,35                 | 0     |
| 59  | ZN   | 19    | 102  | 1/1   | 0.99 | 0.06 | 41,41,41,41                 | 0     |
| 59  | ZN   | 1n    | 102  | 1/1   | 0.99 | 0.04 | 56,56,56,56                 | 0     |
| 57  | MG   | 1E    | 306  | 1/1   | 0.99 | 0.06 | 24,24,24,24                 | 0     |
| 57  | MG   | 1a    | 1755 | 1/1   | 0.99 | 0.12 | 32,32,32,32                 | 0     |
| 59  | ZN   | 25    | 106  | 1/1   | 0.99 | 0.04 | 65,65,65,65                 | 0     |
| 59  | ZN   | 26    | 102  | 1/1   | 0.99 | 0.02 | 47,47,47,47                 | 0     |
| 59  | ZN   | 29    | 501  | 1/1   | 0.99 | 0.03 | 62,62,62,62                 | 0     |
| 57  | MG   | 1A    | 3114 | 1/1   | 0.99 | 0.02 | 26,26,26,26                 | 0     |
| 60  | SF4  | 1d    | 302  | 8/8   | 0.99 | 0.05 | 46,56,61,69                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 57  | MG   | 1A    | 3782 | 1/1   | 0.99 | 0.06 | 30,30,30,30                 | 0     |
| 57  | MG   | 1A    | 3951 | 1/1   | 1.00 | 0.04 | 30,30,30,30                 | 0     |
| 57  | MG   | 1U    | 207  | 1/1   | 1.00 | 0.17 | 27,27,27,27                 | 0     |
| 59  | ZN   | 15    | 108  | 1/1   | 1.00 | 0.01 | 40,40,40,40                 | 0     |
| 59  | ZN   | 16    | 102  | 1/1   | 1.00 | 0.03 | 40,40,40,40                 | 0     |
| 57  | MG   | 1A    | 3012 | 1/1   | 1.00 | 0.01 | 20,20,20,20                 | 0     |
| 57  | MG   | 1A    | 3769 | 1/1   | 1.00 | 0.08 | 39,39,39,39                 | 0     |
| 57  | MG   | 1A    | 3560 | 1/1   | 1.00 | 0.04 | 39,39,39,39                 | 0     |

## 6.5 Other polymers [i](#)

There are no such residues in this entry.