



# wwPDB X-ray Structure Validation Summary Report ⓘ

May 18, 2020 – 04:05 am BST

PDB ID : 4V95  
Title : Crystal structure of YAEJ bound to the 70S ribosome  
Authors : Gagnon, M.G.; Seetharaman, S.V.; Bulkley, D.P.; Steitz, T.A.  
Deposited on : 2012-01-27  
Resolution : 3.20 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.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

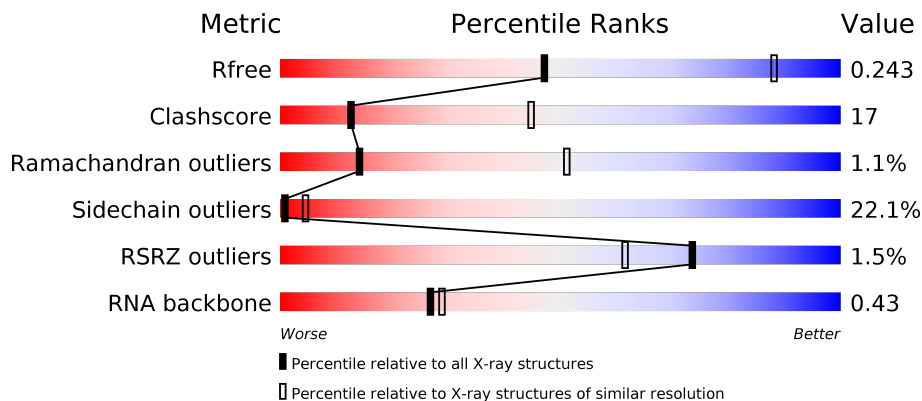
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.20 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)) |
|-----------------------|-----------------------------|---|
| $R_{free}$            | 130704                      | 1133 (3.20-3.20)                                      |
| Clashscore            | 141614                      | 1253 (3.20-3.20)                                      |
| Ramachandran outliers | 138981                      | 1234 (3.20-3.20)                                      |
| Sidechain outliers    | 138945                      | 1233 (3.20-3.20)                                      |
| RSRZ outliers         | 127900                      | 1095 (3.20-3.20)                                      |
| RNA backbone          | 3102                        | 1010 (3.50-2.90)                                      |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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   | AA    | 1522   |                  |
| 1   | CA    | 1522   |                  |
| 2   | AB    | 256    |                  |
| 2   | CB    | 256    |                  |

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| Mol | Chain | Length | Quality of chain        |
|-----|-------|--------|-------------------------|
| 3   | AC    | 239    | %<br>51% 28% 7% 15%     |
| 3   | CC    | 239    | 3%<br>53% 28% 5% 14%    |
| 4   | AD    | 209    | %<br>48% 42% 8% .       |
| 4   | CD    | 209    | %<br>50% 35% 13% .      |
| 5   | AE    | 162    | %<br>42% 38% 11% 9%     |
| 5   | CE    | 162    | %<br>42% 39% 11% 8%     |
| 6   | AF    | 101    | %<br>50% 41% 9% .       |
| 6   | CF    | 101    | %<br>57% 33% 9% .       |
| 7   | AG    | 156    | 3%<br>56% 33% 10% .     |
| 7   | CG    | 156    | 7%<br>56% 33% 9% ..     |
| 8   | AH    | 138    | %<br>52% 41% 7%         |
| 8   | CH    | 138    | %<br>54% 40% 6%         |
| 9   | AI    | 128    | %<br>52% 41% 5% ..      |
| 9   | CI    | 128    | 10%<br>51% 40% 6% ..    |
| 10  | AJ    | 105    | 9%<br>48% 36% 7% . 9%   |
| 10  | CJ    | 105    | 15%<br>49% 32% 10% . 9% |
| 11  | AK    | 129    | %<br>47% 33% 8% . 11%   |
| 11  | CK    | 129    | %<br>50% 30% 9% 12%     |
| 12  | AL    | 132    | %<br>45% 37% 11% 8%     |
| 12  | CL    | 132    | %<br>55% 30% 7% 8%      |
| 13  | AM    | 126    | %<br>41% 37% 12% . 9%   |
| 13  | CM    | 126    | 2%<br>40% 36% 10% . 11% |
| 14  | AN    | 61     | 2%<br>44% 41% 10% ..    |
| 14  | CN    | 61     | 8%<br>36% 44% 15% ..    |
| 15  | AO    | 89     | %<br>48% 39% 11% .      |





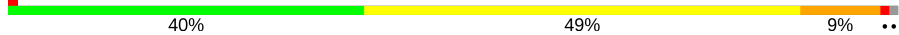


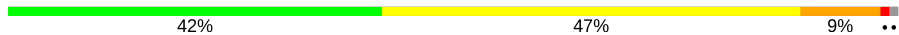
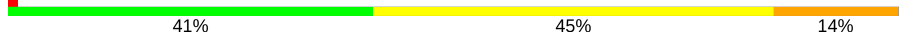

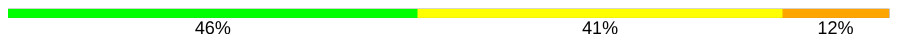














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| Mol | Chain | Length | Quality of chain     |
|-----|-------|--------|----------------------|
| 15  | CO    | 89     | 48% 43% 8%           |
| 16  | AP    | 88     | 34% 40% 17% 8%       |
| 16  | CP    | 88     | 40% 40% 13% 7%       |
| 17  | AQ    | 105    | 38% 49% 8% 6%        |
| 17  | CQ    | 105    | 44% 38% 12% 6%       |
| 18  | AR    | 88     | 40% 30% 6% 23%       |
| 18  | CR    | 88     | 41% 32% 5% 23%       |
| 19  | AS    | 93     | 2% 57% 23% 8% 13%    |
| 19  | CS    | 93     | 5% 43% 32% 5% 19%    |
| 20  | AT    | 106    | 38% 41% 11% 9%       |
| 20  | CT    | 106    | 3% 44% 45% 8%        |
| 21  | AU    | 27     | 56% 26% 11% 7%       |
| 21  | CU    | 27     | 15% 59% 26% 15%      |
| 22  | AY    | 140    | 26% 31% 46% 17% 6%   |
| 23  | AV    | 77     | 40% 38% 18% 1%       |
| 23  | CV    | 77     | 29% 48% 21% 1%       |
| 24  | AX    | 16     | 6% 13% 19% 6% 63%    |
| 24  | CX    | 16     | 13% 31% 6% 63%       |
| 25  | BA    | 2915   | 19% 42% 26% 7% 6%    |
| 25  | DA    | 2915   | 2% 29% 41% 18% 5% 7% |
| 26  | BB    | 122    | 28% 41% 25% 1% 1%    |
| 26  | DB    | 122    | 28% 46% 21% 1% 1%    |
| 27  | BD    | 276    | 55% 35% 9% 1%        |
| 27  | DD    | 276    | 49% 41% 10% 1%       |
| 28  | BE    | 206    | 55% 33% 11% 1%       |


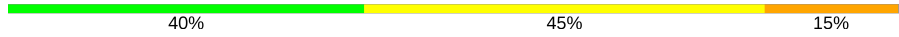






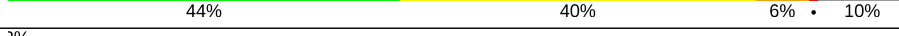


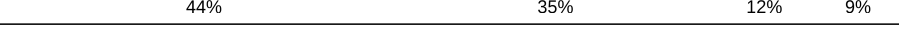

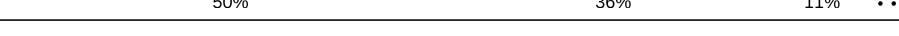


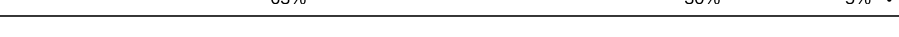

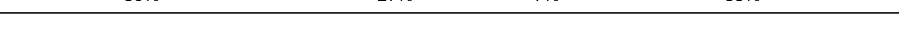
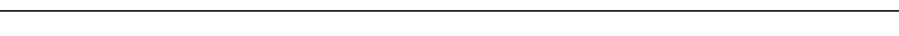

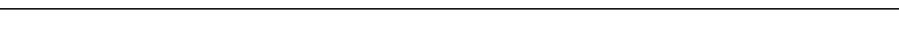
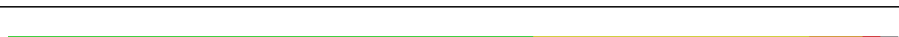


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| Mol | Chain | Length | Quality of chain   |
|-----|-------|--------|--|
| 28  | DE    | 206    |    |
| 29  | BF    | 210    |    |
| 29  | DF    | 210    |    |
| 30  | BG    | 182    |    |
| 30  | DG    | 182    |    |
| 31  | BH    | 180    |    |
| 31  | DH    | 180    |    |
| 32  | BI    | 148    |    |
| 32  | DI    | 148    |    |
| 33  | BN    | 140    |    |
| 33  | DN    | 140    |    |
| 34  | BO    | 122    |   |
| 34  | DO    | 122    |  |
| 35  | BP    | 150    |  |
| 35  | DP    | 150    |  |
| 36  | BQ    | 141    |  |
| 36  | DQ    | 141    |  |
| 37  | BR    | 118    |  |
| 37  | DR    | 118    |  |
| 38  | BS    | 112    |  |
| 38  | DS    | 112    |  |
| 39  | BT    | 146    |  |
| 39  | DT    | 146    |  |
| 40  | BU    | 118    |  |
| 40  | DU    | 118    |  |



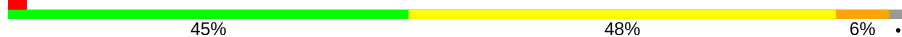


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| Mol | Chain | Length | Quality of chain   |
|-----|-------|--------|--|
| 41  | BV    | 101    |  61% 33% 5%        |
| 41  | DV    | 101    |  40% 45% 15%       |
| 42  | BW    | 113    |  51% 42% 5%        |
| 42  | DW    | 113    |  52% 39% 6%        |
| 43  | BX    | 96     |  60% 28% 9%        |
| 43  | DX    | 96     |  69% 26%           |
| 44  | BY    | 110    |  61% 27% 9%        |
| 44  | DY    | 110    |  6% 48% 40% 8%     |
| 45  | BZ    | 206    |  44% 40% 6% 10%    |
| 45  | DZ    | 206    |  2% 39% 42% 10% 8% |
| 46  | B0    | 85     |  45% 36% 8% 11%    |
| 46  | D0    | 85     |  44% 35% 12% 9%   |
| 47  | B1    | 98     |  56% 36% 6%      |
| 47  | D1    | 98     |  2% 50% 36% 11%  |
| 48  | B2    | 72     |  42% 39% 15%     |
| 48  | D2    | 72     |  50% 36% 11%     |
| 49  | B3    | 60     |  63% 30% 5%      |
| 49  | D3    | 60     |  38% 45% 13%     |
| 50  | B4    | 71     |  30% 27% 7% 35%  |
| 50  | D4    | 71     |  32% 17% 14% 35% |
| 51  | B5    | 60     |  58% 23% 17%     |
| 51  | D5    | 60     |  48% 43% 7%      |
| 52  | B6    | 54     |  46% 31% 17%     |
| 52  | D6    | 54     |  59% 31% 6%      |
| 53  | B7    | 49     |  51% 39% 6%      |

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| Mol | Chain | Length | Quality of chain   |
|-----|-------|--------|--|
| 53  | D7    | 49     |  |
| 54  | B8    | 65     |  |
| 54  | D8    | 65     |  |
| 55  | B9    | 37     |  |
| 55  | D9    | 37     |  |

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

| Mol | Type | Chain | Res  | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56  | MG   | AA    | 1620 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1627 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1650 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1658 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1674 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1685 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1686 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1687 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1711 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1715 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1720 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1736 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1737 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1741 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1743 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1749 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1778 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1788 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1803 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1815 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1819 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1823 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1828 | -         | -        | -       | X                |
| 56  | MG   | AA    | 1867 | -         | -        | -       | X                |
| 56  | MG   | AE    | 201  | -         | -        | -       | X                |
| 56  | MG   | AK    | 201  | -         | -        | -       | X                |
| 56  | MG   | AV    | 113  | -         | -        | -       | X                |
| 56  | MG   | BA    | 3025 | -         | -        | -       | X                |

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| Mol | Type | Chain | Res  | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 56  | MG   | BA    | 3139 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3258 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3272 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3309 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3342 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3359 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3384 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3440 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3456 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3517 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3523 | -         | -        | -       | X                |
| 56  | MG   | BA    | 3855 | -         | -        | -       | X                |
| 56  | MG   | BX    | 101  | -         | -        | -       | X                |
| 56  | MG   | CA    | 1622 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1638 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1642 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1654 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1675 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1694 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1700 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1708 | -         | -        | -       | X                |
| 56  | MG   | CA    | 1797 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3027 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3029 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3052 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3058 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3081 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3083 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3136 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3166 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3199 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3224 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3258 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3259 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3271 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3278 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3299 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3304 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3309 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3319 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3326 | -         | -        | -       | X                |
| 56  | MG   | DA    | 3335 | -         | -        | -       | X                |

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| <b>Mol</b> | <b>Type</b> | <b>Chain</b> | <b>Res</b> | <b>Chirality</b> | <b>Geometry</b> | <b>Clashes</b> | <b>Electron density</b> |
|------------|-------------|--------------|------------|------------------|-----------------|----------------|-------------------------|
| 56         | MG          | DA           | 3341       | -                | -               | -              | X                       |
| 56         | MG          | DA           | 3347       | -                | -               | -              | X                       |
| 56         | MG          | DA           | 3377       | -                | -               | -              | X                       |
| 56         | MG          | DA           | 3379       | -                | -               | -              | X                       |
| 56         | MG          | DA           | 3616       | -                | -               | -              | X                       |
| 56         | MG          | DA           | 3654       | -                | -               | -              | X                       |

## 2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 284877 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

| Mol | Chain | Residues | Atoms          |            |           |            |           | ZeroOcc | AltConf | Trace |
|-----|-------|----------|----------------|------------|-----------|------------|-----------|---------|---------|-------|
|     |       |          | Total          | C          | N         | O          | P         |         |         |       |
| 1   | AA    | 1466     | Total<br>31513 | C<br>14026 | N<br>5840 | O<br>10181 | P<br>1466 | 0       | 0       | 0     |
| 1   | CA    | 1461     | Total<br>31406 | C<br>13979 | N<br>5822 | O<br>10145 | P<br>1460 | 0       | 0       | 0     |

- Molecule 2 is a protein called 30S Ribosomal Protein S2.

| Mol | Chain | Residues | Atoms         |           |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C         | N        | O        | S      |         |         |       |
| 2   | AB    | 233      | Total<br>1809 | C<br>1157 | N<br>322 | O<br>325 | S<br>5 | 0       | 0       | 0     |
| 2   | CB    | 235      | Total<br>1817 | C<br>1160 | N<br>325 | O<br>327 | S<br>5 | 0       | 0       | 1     |

- Molecule 3 is a protein called 30S Ribosomal Protein S3.

| Mol | Chain | Residues | Atoms         |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C        | N        | O        | S      |         |         |       |
| 3   | AC    | 204      | Total<br>1434 | C<br>896 | N<br>277 | O<br>260 | S<br>1 | 0       | 0       | 0     |
| 3   | CC    | 206      | Total<br>1453 | C<br>908 | N<br>280 | O<br>264 | S<br>1 | 0       | 0       | 0     |

- Molecule 4 is a protein called 30S Ribosomal Protein S4.

| Mol | Chain | Residues | Atoms         |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C        | N        | O        | S      |         |         |       |
| 4   | AD    | 208      | Total<br>1520 | C<br>960 | N<br>283 | O<br>272 | S<br>5 | 0       | 0       | 0     |
| 4   | CD    | 208      | Total<br>1537 | C<br>968 | N<br>287 | O<br>276 | S<br>6 | 0       | 0       | 0     |

- Molecule 5 is a protein called 30S Ribosomal Protein S5.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 5   | AE    | 148      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1105  | 699 | 204 | 198 | 4 |         |         |       |
| 5   | CE    | 149      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1115  | 706 | 206 | 199 | 4 |         |         |       |

- Molecule 6 is a protein called 30S Ribosomal Protein S6.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6   | AF    | 100      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 781   | 495 | 137 | 146 | 3 |         |         |       |
| 6   | CF    | 100      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 784   | 496 | 137 | 148 | 3 |         |         |       |

- Molecule 7 is a protein called 30S Ribosomal Protein S7.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 7   | AG    | 154      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1152  | 716 | 222 | 208 | 6 |         |         |       |
| 7   | CG    | 154      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1149  | 715 | 222 | 206 | 6 |         |         |       |

- Molecule 8 is a protein called 30S Ribosomal Protein S8.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8   | AH    | 138      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1045  | 665 | 188 | 190 | 2 |         |         |       |
| 8   | CH    | 138      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1049  | 667 | 188 | 192 | 2 |         |         |       |

- Molecule 9 is a protein called 30S Ribosomal Protein S9.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 9   | AI    | 125      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 863   | 542 | 164 | 157 |         |         |       |
| 9   | CI    | 125      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 849   | 531 | 161 | 157 |         |         |       |

- Molecule 10 is a protein called 30S Ribosomal Protein S10.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 10  | AJ    | 96       | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 659   | 408 | 131 | 120 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 10  | CJ    | 96       | 657   | 407 | 129 | 121 | 0       | 0       | 0     |

- Molecule 11 is a protein called 30S Ribosomal Protein S11.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 11  | AK    | 115      | 843   | 524 | 160 | 156 | 3 | 0       | 0       | 0     |
| 11  | CK    | 114      | 828   | 516 | 155 | 154 | 3 | 0       | 0       | 0     |

- Molecule 12 is a protein called 30S Ribosomal Protein S12.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 12  | AL    | 122      | 909   | 570 | 179 | 159 | 1 | 0       | 0       | 0     |
| 12  | CL    | 122      | 905   | 567 | 178 | 159 | 1 | 0       | 0       | 0     |

- Molecule 13 is a protein called 30S Ribosomal Protein S13.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 13  | AM    | 115      | 814   | 503 | 166 | 144 | 1 | 0       | 0       | 0     |
| 13  | CM    | 112      | 784   | 486 | 159 | 138 | 1 | 0       | 0       | 0     |

- Molecule 14 is a protein called 30S Ribosomal Protein S14.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |         |       |
| 14  | AN    | 59       | 473   | 300 | 98 | 71 | 4 | 0       | 0       | 0     |
| 14  | CN    | 59       | 469   | 297 | 97 | 71 | 4 | 0       | 0       | 0     |

- Molecule 15 is a protein called 30S Ribosomal Protein S15.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 15  | AO    | 88       | 724   | 453 | 143 | 126 | 2 | 0       | 0       | 0     |
| 15  | CO    | 88       | 724   | 453 | 143 | 126 | 2 | 0       | 0       | 0     |

- Molecule 16 is a protein called 30S Ribosomal Protein S16.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 16  | AP    | 81       | Total<br>646 | C<br>413 | N<br>122 | O<br>110 | S<br>1 | 0       | 0       | 0     |
| 16  | CP    | 82       | Total<br>661 | C<br>421 | N<br>126 | O<br>113 | S<br>1 | 0       | 0       | 0     |

- Molecule 17 is a protein called 30S Ribosomal Protein S17.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 17  | AQ    | 99       | Total<br>823 | C<br>528 | N<br>151 | O<br>142 | S<br>2 | 0       | 0       | 0     |
| 17  | CQ    | 99       | Total<br>819 | C<br>525 | N<br>150 | O<br>142 | S<br>2 | 0       | 0       | 0     |

- Molecule 18 is a protein called 30S Ribosomal Protein S18.

| Mol | Chain | Residues | Atoms        |          |         |         | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       |         |         |       |
| 18  | AR    | 68       | Total<br>514 | C<br>329 | N<br>98 | O<br>87 | 0       | 0       | 0     |
| 18  | CR    | 68       | Total<br>514 | C<br>329 | N<br>98 | O<br>87 | 0       | 0       | 0     |

- Molecule 19 is a protein called 30S Ribosomal Protein S19.

| Mol | Chain | Residues | Atoms        |          |          |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O       | S      |         |         |       |
| 19  | AS    | 81       | Total<br>560 | C<br>351 | N<br>108 | O<br>99 | S<br>2 | 0       | 0       | 0     |
| 19  | CS    | 75       | Total<br>529 | C<br>332 | N<br>102 | O<br>93 | S<br>2 | 0       | 0       | 0     |

- Molecule 20 is a protein called 30S Ribosomal Protein S20.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 20  | AT    | 96       | Total<br>714 | C<br>438 | N<br>154 | O<br>120 | S<br>2 | 0       | 0       | 0     |
| 20  | CT    | 104      | Total<br>773 | C<br>476 | N<br>162 | O<br>133 | S<br>2 | 0       | 0       | 0     |

- Molecule 21 is a protein called 30S Ribosomal Protein THX.

| Mol | Chain | Residues | Atoms |     |    |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 21  | AU    | 25       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 217   | 134 | 52 | 31 |         |         |       |
| 21  | CU    | 23       | Total | C   | N  | O  | 0       | 0       | 0     |
|     |       |          | 180   | 112 | 41 | 27 |         |         |       |

- Molecule 22 is a protein called YAEJ.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22  | AY    | 132      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1031  | 638 | 204 | 187 | 2 |         |         |       |

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

| Mol | Chain | Residues | Atoms |     |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 23  | AV    | 77       | Total | C   | N   | O   | P  | 0       | 0       | 0     |
|     |       |          | 1644  | 732 | 297 | 538 | 77 |         |         |       |
| 23  | CV    | 77       | Total | C   | N   | O   | P  | 0       | 0       | 0     |
|     |       |          | 1644  | 732 | 297 | 538 | 77 |         |         |       |

- Molecule 24 is a RNA chain called mRNA.

| Mol | Chain | Residues | Atoms |    |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|----|----|----|---|---------|---------|-------|
| 24  | AX    | 6        | Total | C  | N  | O  | P | 0       | 0       | 0     |
|     |       |          | 131   | 59 | 27 | 39 | 6 |         |         |       |
| 24  | CX    | 6        | Total | C  | N  | O  | P | 0       | 0       | 0     |
|     |       |          | 131   | 59 | 27 | 39 | 6 |         |         |       |

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

| Mol | Chain | Residues | Atoms |       |       |       |      | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
| 25  | BA    | 2752     | Total | C     | N     | O     | P    | 0       | 0       | 0     |
|     |       |          | 59281 | 26384 | 11101 | 19045 | 2751 |         |         |       |
| 25  | DA    | 2722     | Total | C     | N     | O     | P    | 0       | 0       | 0     |
|     |       |          | 58627 | 26093 | 10971 | 18843 | 2720 |         |         |       |

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

| Mol | Chain | Residues | Atoms |      |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
| 26  | BB    | 120      | Total | C    | N   | O   | P   | 0       | 0       | 0     |
|     |       |          | 2573  | 1146 | 476 | 832 | 119 |         |         |       |
| 26  | DB    | 120      | Total | C    | N   | O   | P   | 0       | 0       | 0     |
|     |       |          | 2573  | 1146 | 476 | 832 | 119 |         |         |       |

- Molecule 27 is a protein called 50S Ribosomal Protein L2.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 27  | BD    | 275      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2131  | 1346 | 422 | 360 | 3 |         |         |       |
| 27  | DD    | 275      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2136  | 1349 | 423 | 361 | 3 |         |         |       |

- Molecule 28 is a protein called 50S Ribosomal Protein L3.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 28  | BE    | 204      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1555  | 982 | 297 | 270 | 6 |         |         |       |
| 28  | DE    | 204      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1555  | 982 | 297 | 270 | 6 |         |         |       |

- Molecule 29 is a protein called 50S Ribosomal Protein L4.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 29  | BF    | 203      | Total | C    | N   | O   | S | 0       | 0       | 1     |
|     |       |          | 1576  | 1005 | 297 | 272 | 2 |         |         |       |
| 29  | DF    | 203      | Total | C    | N   | O   | S | 0       | 0       | 1     |
|     |       |          | 1578  | 1007 | 297 | 272 | 2 |         |         |       |

- Molecule 30 is a protein called 50S Ribosomal Protein L5.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 30  | BG    | 181      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1368  | 879 | 242 | 244 | 3 |         |         |       |
| 30  | DG    | 180      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1361  | 874 | 241 | 243 | 3 |         |         |       |

- Molecule 31 is a protein called 50S Ribosomal Protein L6.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 31  | BH    | 174      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1317  | 837 | 243 | 236 | 1 |         |         |       |
| 31  | DH    | 174      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1317  | 837 | 243 | 236 | 1 |         |         |       |

- Molecule 32 is a protein called 50S Ribosomal Protein L9.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 32  | BI    | 147      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1066  | 687 | 184 | 194 | 1 |         |         |       |
| 32  | DI    | 146      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1057  | 682 | 182 | 192 | 1 |         |         |       |

- Molecule 33 is a protein called 50S Ribosomal Protein L13.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 33  | BN    | 140      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1112  | 717 | 207 | 184 | 4 |         |         |       |
| 33  | DN    | 140      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1112  | 717 | 207 | 184 | 4 |         |         |       |

- Molecule 34 is a protein called 50S Ribosomal Protein L14.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 34  | BO    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 923   | 583 | 168 | 168 | 4 |         |         |       |
| 34  | DO    | 122      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 923   | 583 | 168 | 168 | 4 |         |         |       |

- Molecule 35 is a protein called 50S Ribosomal Protein L15.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 35  | BP    | 149      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1131  | 703 | 229 | 196 | 3 |         |         |       |
| 35  | DP    | 149      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1131  | 703 | 229 | 196 | 3 |         |         |       |

- Molecule 36 is a protein called 50S Ribosomal Protein L16.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 36  | BQ    | 141      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1122  | 715 | 212 | 188 | 7 |         |         |       |
| 36  | DQ    | 141      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1122  | 715 | 212 | 188 | 7 |         |         |       |

- Molecule 37 is a protein called 50S Ribosomal Protein L17.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37  | BR    | 118      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 968   | 604 | 203 | 160 | 1 |         |         |       |

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| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 37  | DR    | 118      | Total<br>968 | C<br>604 | N<br>203 | O<br>160 | S<br>1 | 0       | 0       | 0     |

- Molecule 38 is a protein called 50S Ribosomal Protein L18.

| Mol | Chain | Residues | Atoms        |          |          |          |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|---|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S |         |         |       |
| 38  | BS    | 110      | Total<br>865 | C<br>544 | N<br>172 | O<br>149 |   | 0       | 0       | 0     |
| 38  | DS    | 110      | Total<br>873 | C<br>550 | N<br>174 | O<br>149 |   | 0       | 0       | 0     |

- Molecule 39 is a protein called 50S Ribosomal Protein L19.

| Mol | Chain | Residues | Atoms         |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C        | N        | O        | S      |         |         |       |
| 39  | BT    | 132      | Total<br>1072 | C<br>672 | N<br>215 | O<br>184 | S<br>1 | 0       | 0       | 0     |
| 39  | DT    | 130      | Total<br>1058 | C<br>663 | N<br>212 | O<br>182 | S<br>1 | 0       | 0       | 0     |

- Molecule 40 is a protein called 50S Ribosomal Protein L20.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 40  | BU    | 116      | Total<br>959 | C<br>608 | N<br>201 | O<br>149 | S<br>1 | 0       | 0       | 0     |
| 40  | DU    | 116      | Total<br>959 | C<br>608 | N<br>201 | O<br>149 | S<br>1 | 0       | 0       | 0     |

- Molecule 41 is a protein called 50S Ribosomal Protein L21.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 41  | BV    | 100      | Total<br>766 | C<br>493 | N<br>139 | O<br>133 | S<br>1 | 0       | 0       | 0     |
| 41  | DV    | 100      | Total<br>770 | C<br>496 | N<br>140 | O<br>133 | S<br>1 | 0       | 0       | 0     |

- Molecule 42 is a protein called 50S Ribosomal Protein L22.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 42  | BW    | 112      | Total<br>890 | C<br>560 | N<br>175 | O<br>153 | S<br>2 | 0       | 0       | 0     |
| 42  | DW    | 111      | Total<br>877 | C<br>552 | N<br>171 | O<br>152 | S<br>2 | 0       | 0       | 0     |

- Molecule 43 is a protein called 50S Ribosomal Protein L23.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 43  | BX    | 95       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 742   | 483 | 134 | 124 | 1 |         |         |       |
| 43  | DX    | 95       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 732   | 477 | 130 | 124 | 1 |         |         |       |

- Molecule 44 is a protein called 50S Ribosomal Protein L24.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 44  | BY    | 107      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 785   | 503 | 145 | 131 | 6 |         |         |       |
| 44  | DY    | 107      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 781   | 502 | 145 | 128 | 6 |         |         |       |

- Molecule 45 is a protein called 50S Ribosomal Protein L25.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 45  | BZ    | 186      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1454  | 929 | 256 | 267 | 2 |         |         |       |
| 45  | DZ    | 189      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1451  | 925 | 253 | 270 | 3 |         |         |       |

- Molecule 46 is a protein called 50S Ribosomal Protein L27.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 46  | B0    | 76       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 594   | 368 | 125 | 100 | 1 |         |         |       |
| 46  | D0    | 77       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 607   | 376 | 126 | 104 | 1 |         |         |       |

- Molecule 47 is a protein called 50S Ribosomal Protein L28.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 47  | B1    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 745   | 469 | 144 | 131 | 1 |         |         |       |
| 47  | D1    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 745   | 469 | 144 | 131 | 1 |         |         |       |

- Molecule 48 is a protein called 50S Ribosomal Protein L29.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 48  | B2    | 70       | Total<br>588 | C<br>365 | N<br>118 | O<br>103 | S<br>2 | 0       | 0       | 0     |
| 48  | D2    | 71       | Total<br>584 | C<br>361 | N<br>118 | O<br>103 | S<br>2 | 0       | 0       | 0     |

- Molecule 49 is a protein called 50S Ribosomal Protein L30.

| Mol | Chain | Residues | Atoms        |          |         |         |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|---|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       | S |         |         |       |
| 49  | B3    | 59       | Total<br>458 | C<br>293 | N<br>87 | O<br>78 |   | 0       | 0       | 0     |
| 49  | D3    | 58       | Total<br>453 | C<br>290 | N<br>86 | O<br>77 |   | 0       | 0       | 0     |

- Molecule 50 is a protein called 50S Ribosomal Protein L31.

| Mol | Chain | Residues | Atoms        |          |         |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       | S      |         |         |       |
| 50  | B4    | 46       | Total<br>349 | C<br>223 | N<br>57 | O<br>64 | S<br>5 | 0       | 0       | 0     |
| 50  | D4    | 46       | Total<br>349 | C<br>223 | N<br>57 | O<br>64 | S<br>5 | 0       | 0       | 0     |

- Molecule 51 is a protein called 50S Ribosomal Protein L32.

| Mol | Chain | Residues | Atoms        |          |         |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       | S      |         |         |       |
| 51  | B5    | 59       | Total<br>455 | C<br>286 | N<br>90 | O<br>74 | S<br>5 | 0       | 0       | 0     |
| 51  | D5    | 59       | Total<br>451 | C<br>283 | N<br>89 | O<br>74 | S<br>5 | 0       | 0       | 0     |

- Molecule 52 is a protein called 50S Ribosomal Protein L33.

| Mol | Chain | Residues | Atoms        |          |         |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       | S      |         |         |       |
| 52  | B6    | 53       | Total<br>449 | C<br>278 | N<br>90 | O<br>77 | S<br>4 | 0       | 0       | 0     |
| 52  | D6    | 53       | Total<br>437 | C<br>272 | N<br>84 | O<br>77 | S<br>4 | 0       | 0       | 0     |

- Molecule 53 is a protein called 50S Ribosomal Protein L34.

| Mol | Chain | Residues | Atoms        |          |          |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O       | S      |         |         |       |
| 53  | B7    | 48       | Total<br>418 | C<br>257 | N<br>104 | O<br>55 | S<br>2 | 0       | 0       | 0     |

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| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |         |       |
| 53  | D7    | 48       | 402   | 248 | 97 | 55 | 2 | 0       | 0       | 0     |

- Molecule 54 is a protein called 50S Ribosomal Protein L35.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |         |       |
| 54  | B8    | 64       | 509   | 326 | 99 | 82 | 2 | 0       | 0       | 0     |
| 54  | D8    | 64       | 509   | 326 | 99 | 82 | 2 | 0       | 0       | 0     |

- Molecule 55 is a protein called 50S Ribosomal Protein L36.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |         |       |
| 55  | B9    | 36       | 297   | 182 | 66 | 46 | 3 | 0       | 0       | 0     |
| 55  | D9    | 35       | 292   | 180 | 65 | 44 | 3 | 0       | 0       | 0     |

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

| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56  | BA    | 896      | Total<br>896 | Mg<br>896 | 0       | 0       |
| 56  | AK    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | DQ    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DF    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 56  | CV    | 10       | Total<br>10  | Mg<br>10  | 0       | 0       |
| 56  | B8    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | BE    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |
| 56  | DU    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | B1    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 56  | CD    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56  | BP    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DR    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | CA    | 219      | Total<br>219 | Mg<br>219 | 0       | 0       |
| 56  | B5    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 56  | BB    | 30       | Total<br>30  | Mg<br>30  | 0       | 0       |
| 56  | BT    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | D8    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | AE    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | B9    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | BF    | 7        | Total<br>7   | Mg<br>7   | 0       | 0       |
| 56  | AV    | 18       | Total<br>18  | Mg<br>18  | 0       | 0       |
| 56  | BX    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | B2    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | AA    | 348      | Total<br>348 | Mg<br>348 | 0       | 0       |
| 56  | BQ    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 56  | D6    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | CX    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | DV    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | B6    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | BU    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | D7    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 56  | AD    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DD    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 56  | CT    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | D0    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 56  | BG    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | AI    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | BY    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DE    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 56  | B3    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | BR    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DA    | 696      | Total<br>696 | Mg<br>696 | 0       | 0       |
| 56  | B7    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | BV    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | DO    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 56  | BO    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | D1    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | DX    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | BZ    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 56  | D5    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 56  | BD    | 5        | Total<br>5   | Mg<br>5   | 0       | 0       |
| 56  | AT    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |

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| Mol | Chain | Residues | Atoms       |          | ZeroOcc | AltConf |
|-----|-------|----------|-------------|----------|---------|---------|
| 56  | DT    | 3        | Total<br>3  | Mg<br>3  | 0       | 0       |
| 56  | B0    | 5        | Total<br>5  | Mg<br>5  | 0       | 0       |
| 56  | AY    | 1        | Total<br>1  | Mg<br>1  | 0       | 0       |
| 56  | AF    | 1        | Total<br>1  | Mg<br>1  | 0       | 0       |
| 56  | DB    | 16       | Total<br>16 | Mg<br>16 | 0       | 0       |

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

| Mol | Chain | Residues | Atoms      |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 57  | B5    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | B4    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | AD    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | CD    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | B9    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | BY    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | DY    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | D5    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | D4    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | AN    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | CN    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | D6    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | D9    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 57  | B6    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |

- Molecule 58 is water.

| Mol | Chain | Residues | Atoms                | ZeroOcc | AltConf |
|-----|-------|----------|----------------------|---------|---------|
| 58  | AA    | 372      | Total O<br>372 372   | 0       | 0       |
| 58  | AD    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | AE    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | AI    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | AK    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | AL    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | AN    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | AT    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | AY    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | AV    | 16       | Total O<br>16 16     | 0       | 0       |
| 58  | AX    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | BA    | 1491     | Total O<br>1491 1491 | 0       | 0       |
| 58  | BB    | 46       | Total O<br>46 46     | 0       | 0       |
| 58  | BD    | 10       | Total O<br>10 10     | 0       | 0       |
| 58  | BE    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | BF    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | BG    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | BH    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | BN    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | BO    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | BP    | 9        | Total O<br>9 9       | 0       | 0       |

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| Mol | Chain | Residues | Atoms              | ZeroOcc | AltConf |
|-----|-------|----------|--------------------|---------|---------|
| 58  | BQ    | 4        | Total O<br>4 4     | 0       | 0       |
| 58  | BR    | 7        | Total O<br>7 7     | 0       | 0       |
| 58  | BT    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | BU    | 7        | Total O<br>7 7     | 0       | 0       |
| 58  | BV    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | BW    | 2        | Total O<br>2 2     | 0       | 0       |
| 58  | BX    | 2        | Total O<br>2 2     | 0       | 0       |
| 58  | BY    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | B0    | 4        | Total O<br>4 4     | 0       | 0       |
| 58  | B1    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | B3    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | B6    | 4        | Total O<br>4 4     | 0       | 0       |
| 58  | B7    | 2        | Total O<br>2 2     | 0       | 0       |
| 58  | B8    | 4        | Total O<br>4 4     | 0       | 0       |
| 58  | B9    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | CA    | 330      | Total O<br>330 330 | 0       | 0       |
| 58  | CB    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | CC    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | CD    | 3        | Total O<br>3 3     | 0       | 0       |
| 58  | CE    | 1        | Total O<br>1 1     | 0       | 0       |
| 58  | CK    | 2        | Total O<br>2 2     | 0       | 0       |

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| Mol | Chain | Residues | Atoms                | ZeroOcc | AltConf |
|-----|-------|----------|----------------------|---------|---------|
| 58  | CL    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | CN    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | CO    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | CQ    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | CT    | 2        | Total O<br>2 2       | 0       | 0       |
| 58  | CV    | 13       | Total O<br>13 13     | 0       | 0       |
| 58  | CX    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | DA    | 1028     | Total O<br>1028 1028 | 0       | 0       |
| 58  | DB    | 40       | Total O<br>40 40     | 0       | 0       |
| 58  | DD    | 8        | Total O<br>8 8       | 0       | 0       |
| 58  | DE    | 11       | Total O<br>11 11     | 0       | 0       |
| 58  | DF    | 4        | Total O<br>4 4       | 0       | 0       |
| 58  | DG    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | DN    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | DO    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | DP    | 4        | Total O<br>4 4       | 0       | 0       |
| 58  | DR    | 5        | Total O<br>5 5       | 0       | 0       |
| 58  | DT    | 3        | Total O<br>3 3       | 0       | 0       |
| 58  | DV    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | DW    | 1        | Total O<br>1 1       | 0       | 0       |
| 58  | DY    | 2        | Total O<br>2 2       | 0       | 0       |

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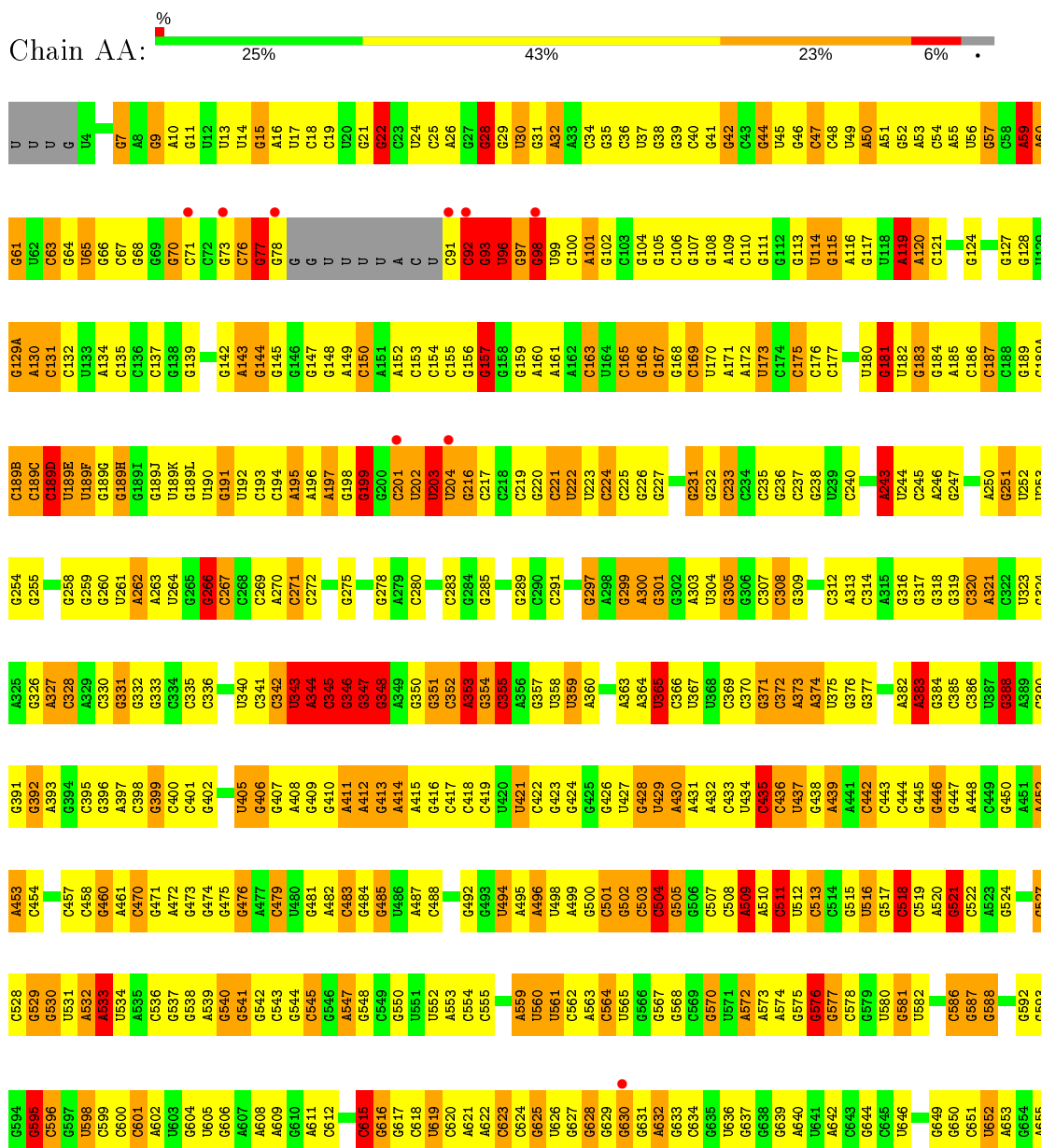
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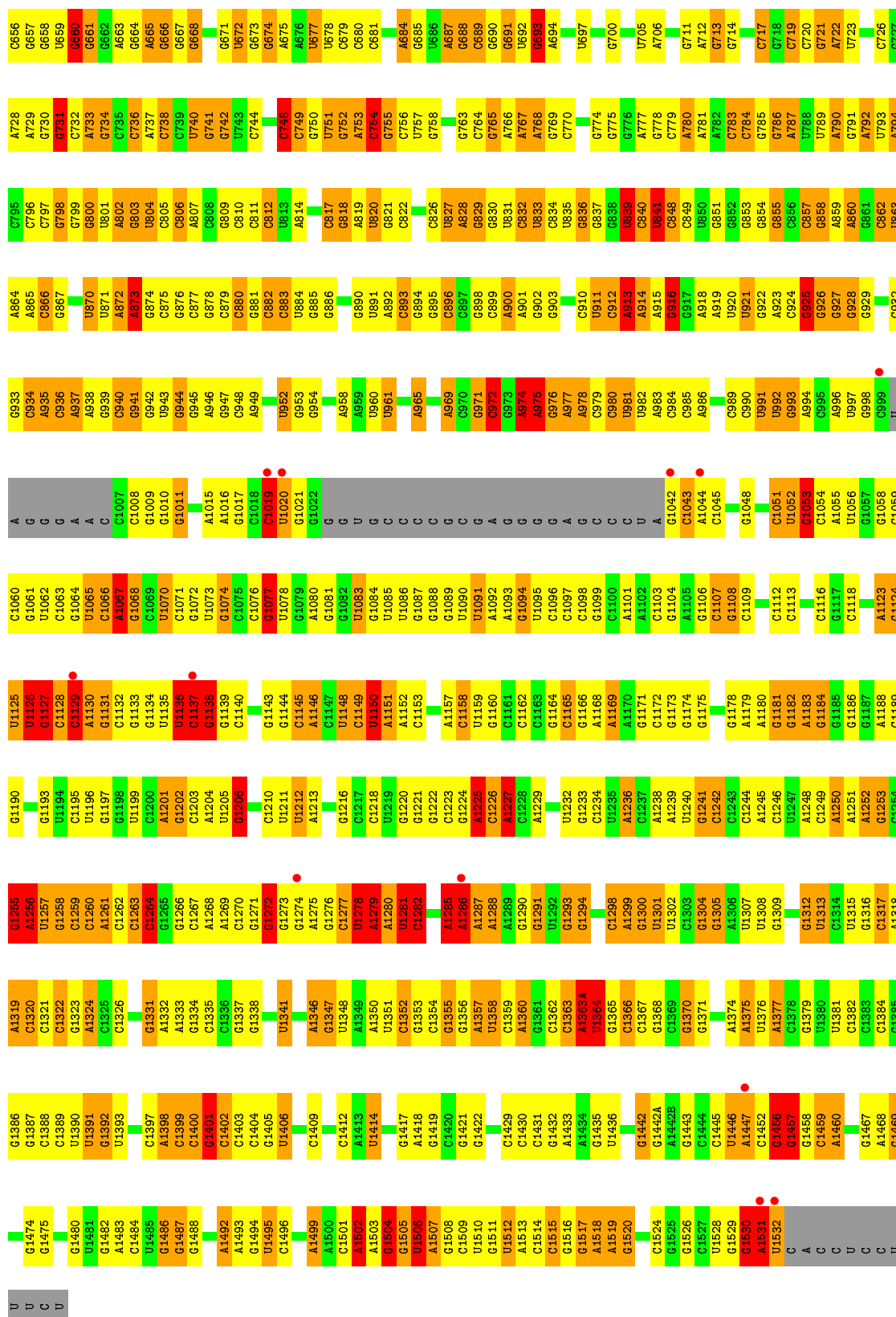
| <b>Mol</b> | <b>Chain</b> | <b>Residues</b> | <b>Atoms</b>   | <b>ZeroOcc</b> | <b>AltConf</b> |
|------------|--------------|-----------------|----------------|----------------|----------------|
| 58         | D1           | 3               | Total O<br>3 3 | 0              | 0              |
| 58         | D3           | 1               | Total O<br>1 1 | 0              | 0              |
| 58         | D6           | 2               | Total O<br>2 2 | 0              | 0              |
| 58         | D7           | 2               | Total O<br>2 2 | 0              | 0              |
| 58         | D8           | 4               | Total O<br>4 4 | 0              | 0              |

### 3 Residue-property plots

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

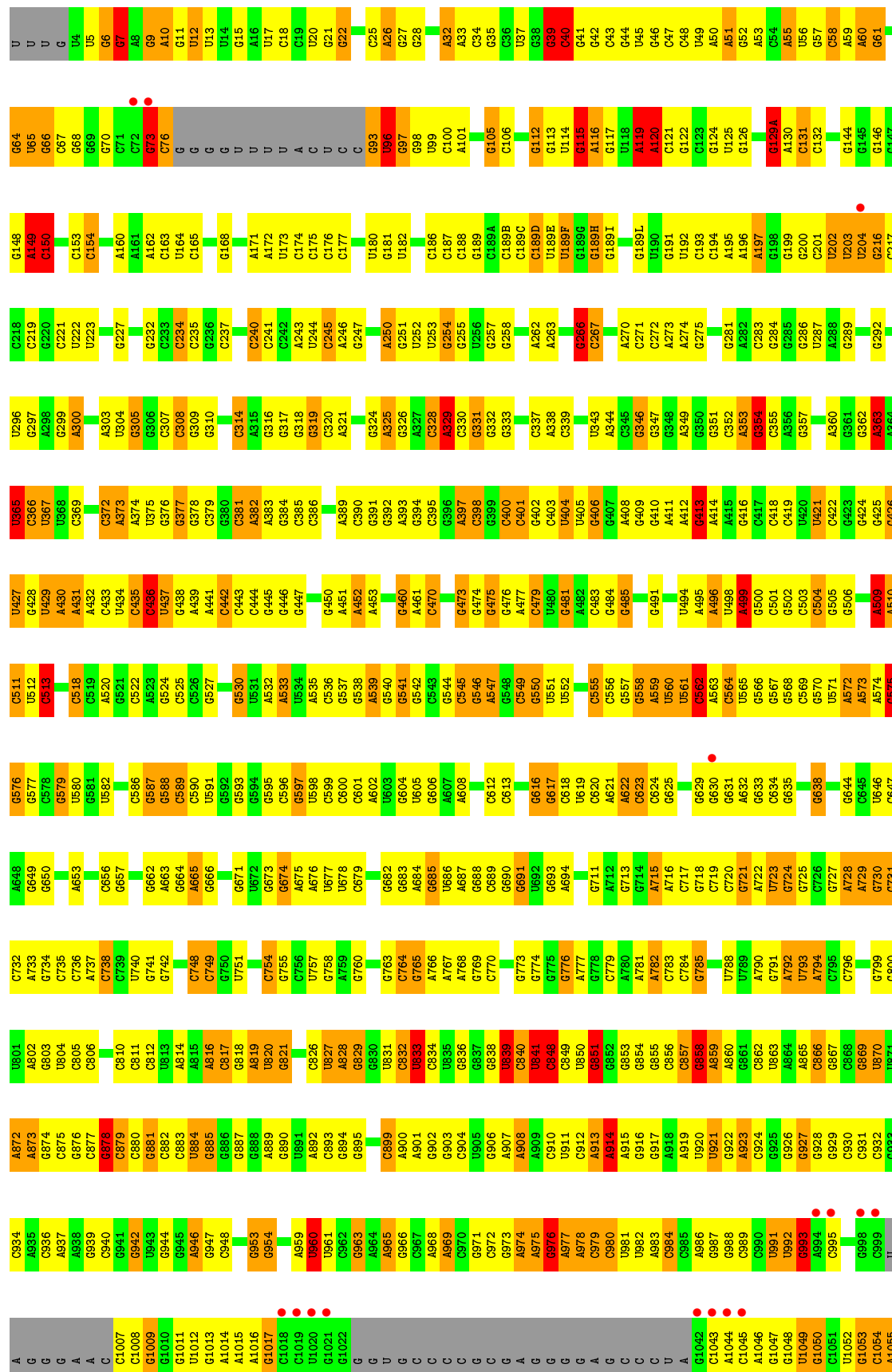
- Molecule 1: 16S Ribosomal RNA

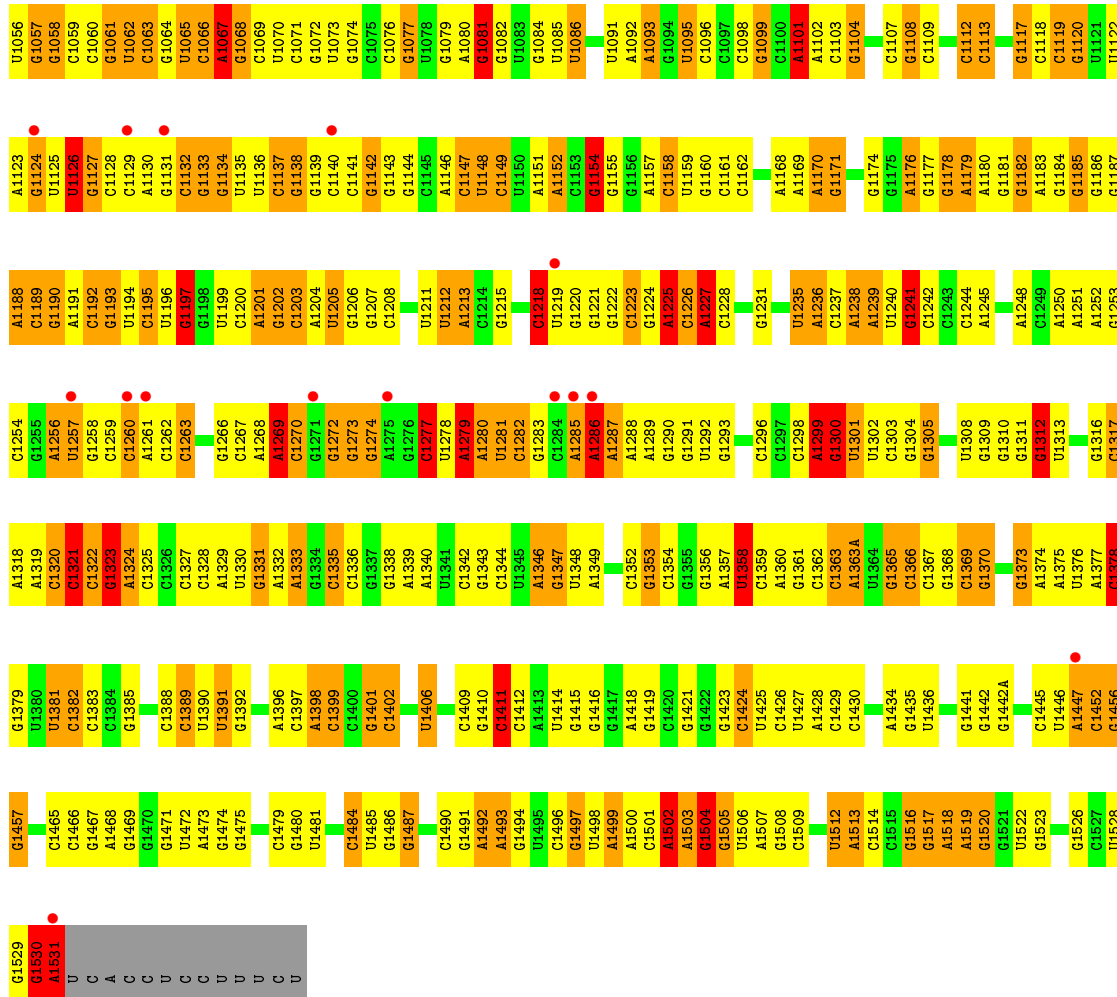




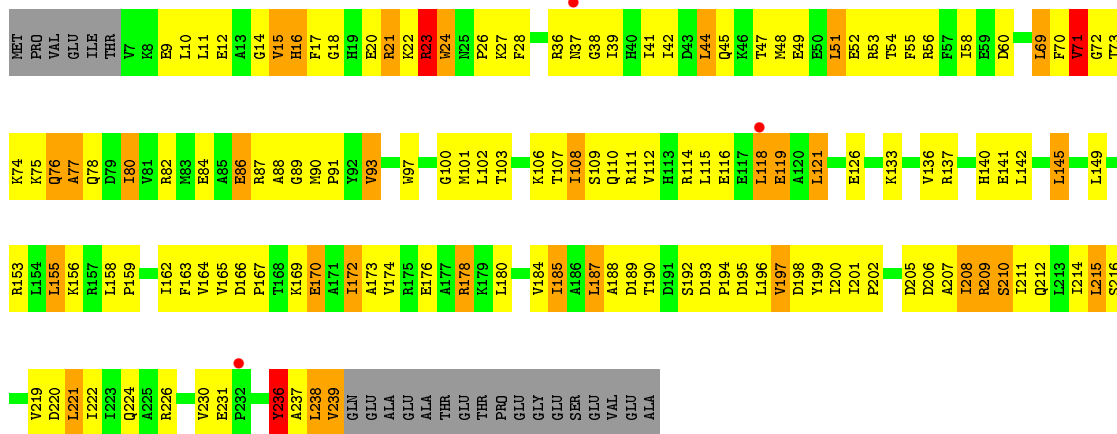
• Molecule 1: 16S Ribosomal RNA





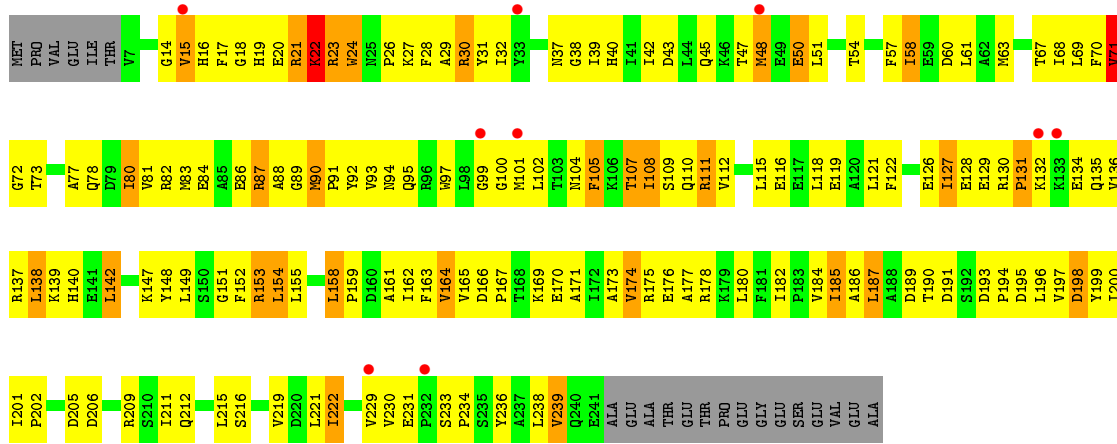


• Molecule 2: 30S Ribosomal Protein S2

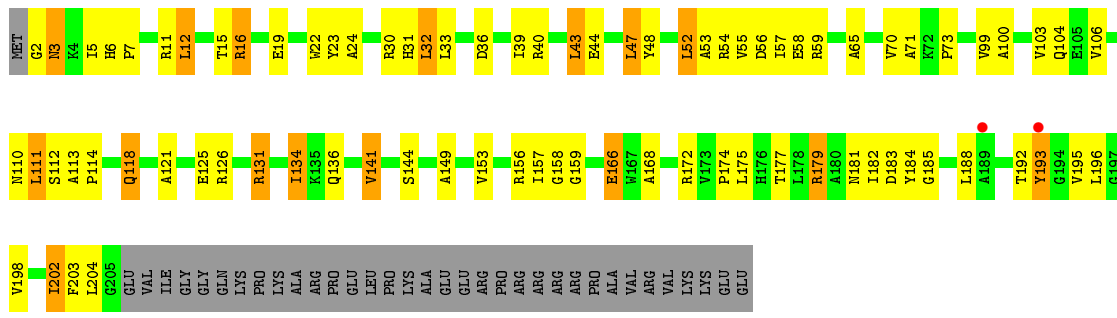


• Molecule 2: 30S Ribosomal Protein S2

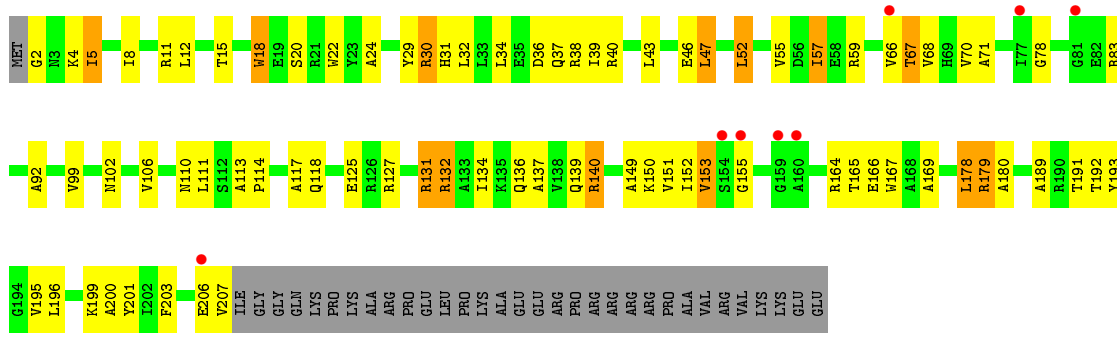




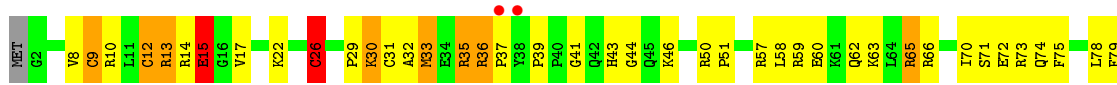
• Molecule 3: 30S Ribosomal Protein S3



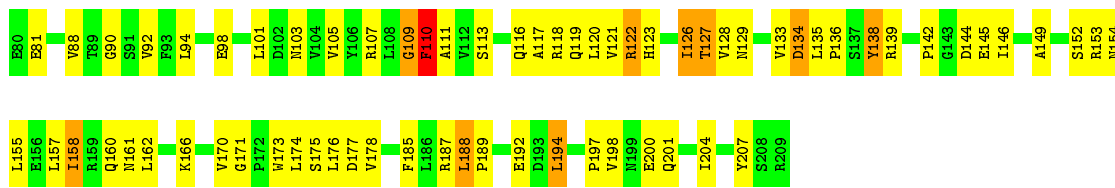
• Molecule 3: 30S Ribosomal Protein S3



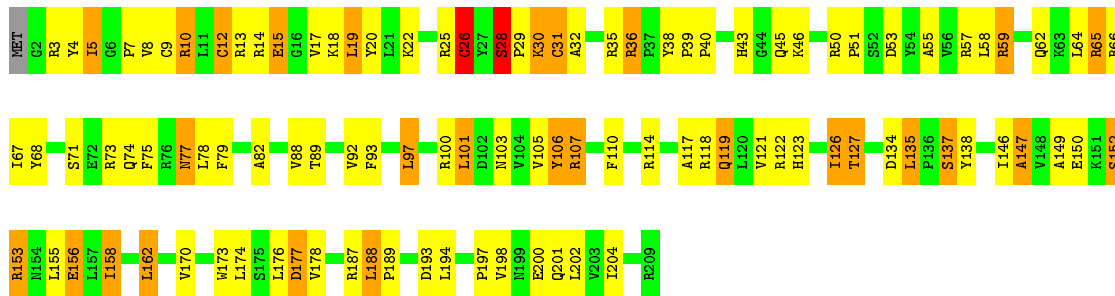
• Molecule 4: 30S Ribosomal Protein S4



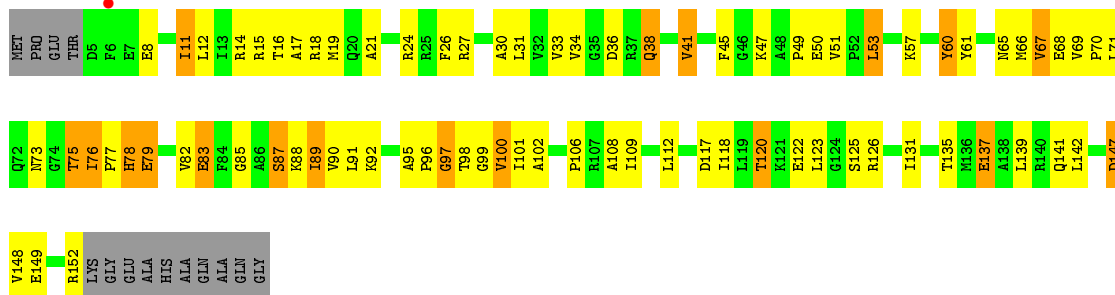




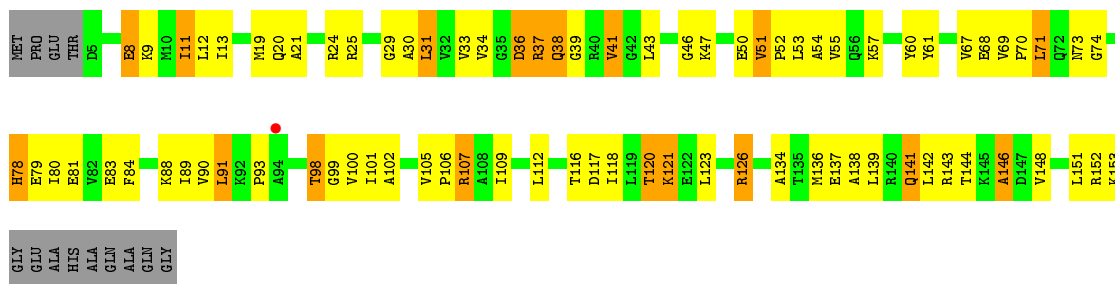
• Molecule 4: 30S Ribosomal Protein S4



• Molecule 5: 30S Ribosomal Protein S5

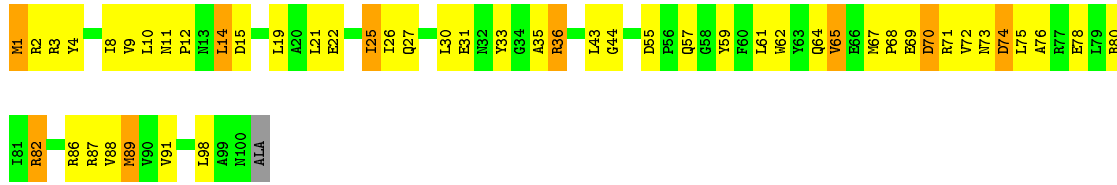


• Molecule 5: 30S Ribosomal Protein S5

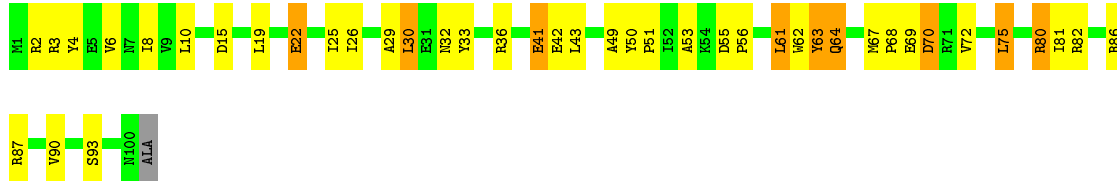


• Molecule 6: 30S Ribosomal Protein S6

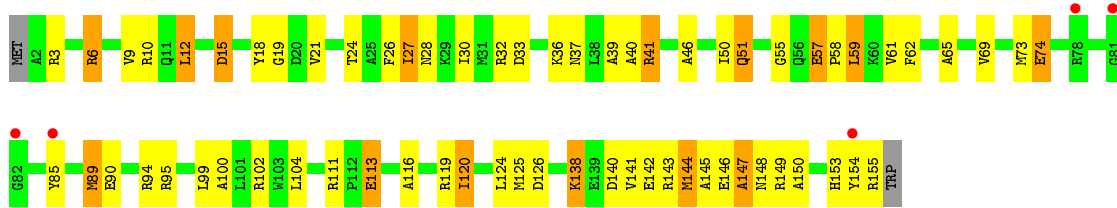




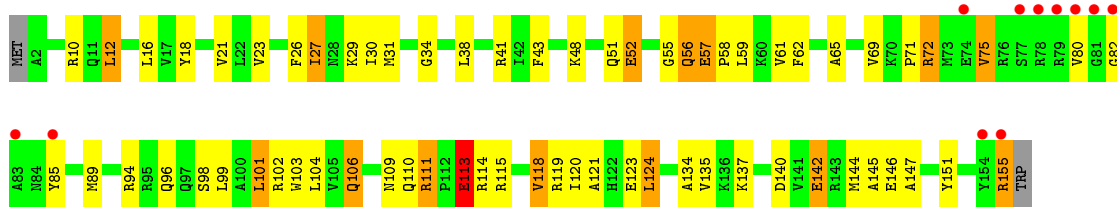
• Molecule 6: 30S Ribosomal Protein S6



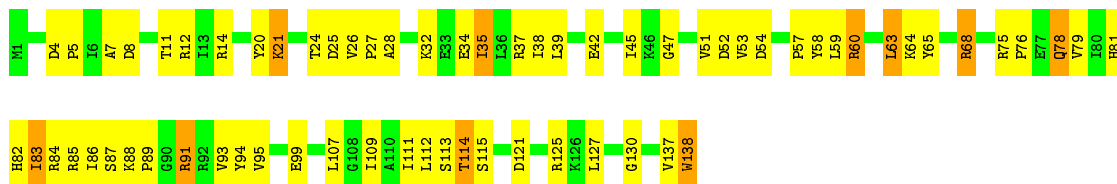
• Molecule 7: 30S Ribosomal Protein S7



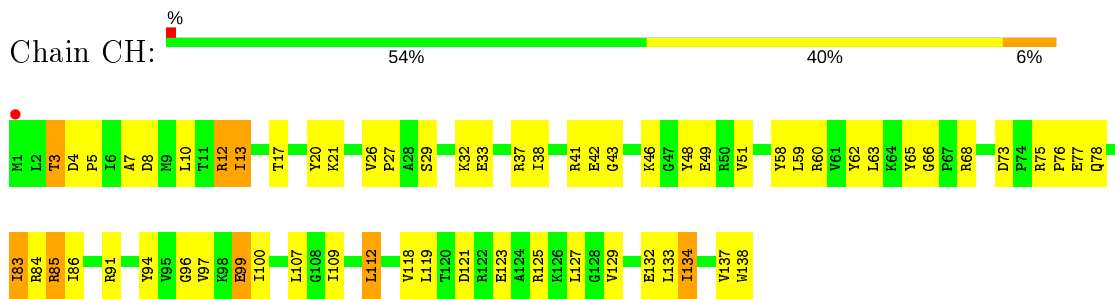
• Molecule 7: 30S Ribosomal Protein S7



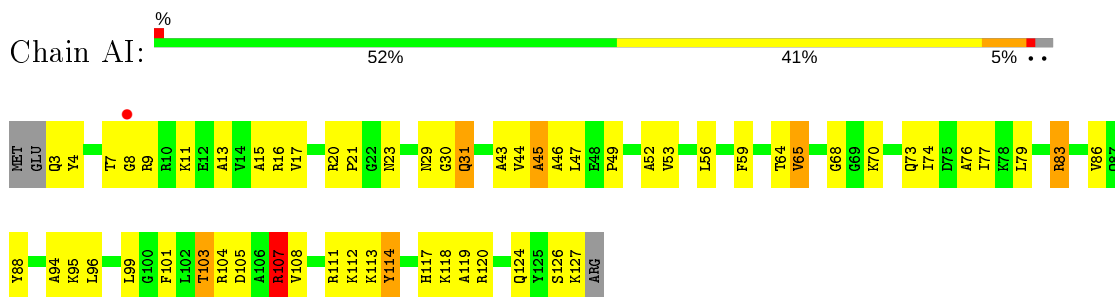
• Molecule 8: 30S Ribosomal Protein S8



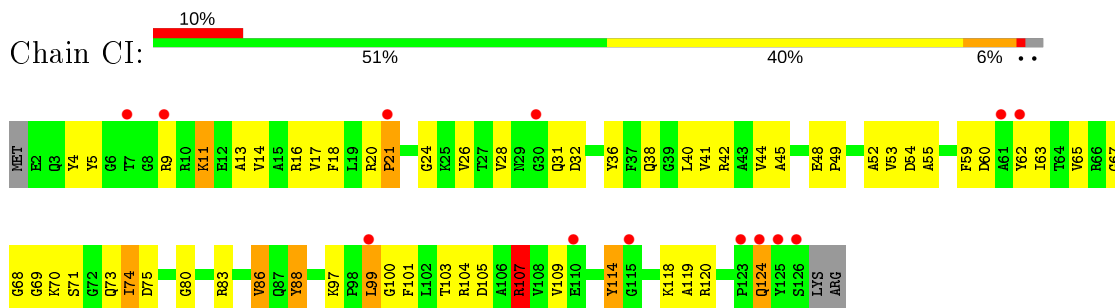
• Molecule 8: 30S Ribosomal Protein S8



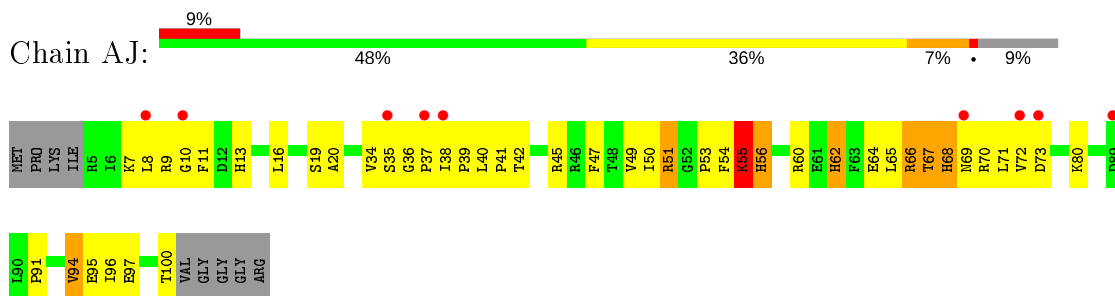
• Molecule 9: 30S Ribosomal Protein S9



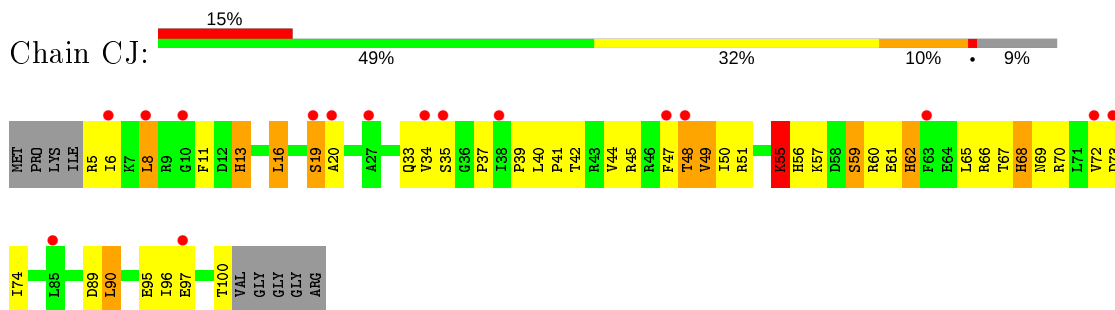
• Molecule 9: 30S Ribosomal Protein S9



• Molecule 10: 30S Ribosomal Protein S10

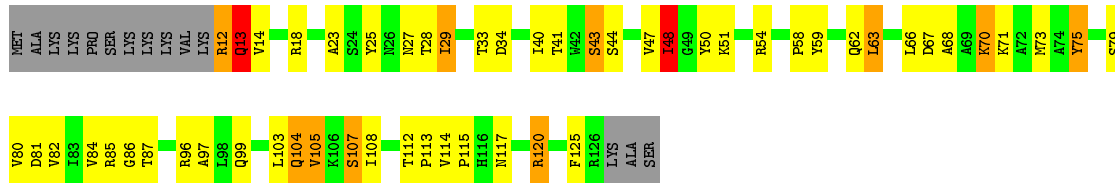


• Molecule 10: 30S Ribosomal Protein S10



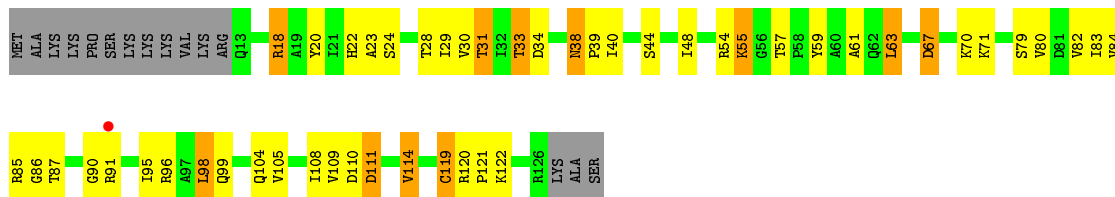
- Molecule 11: 30S Ribosomal Protein S11

Chain AK:



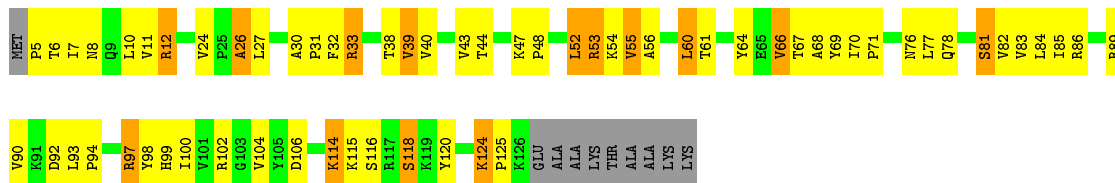
- Molecule 11: 30S Ribosomal Protein S11

Chain CK:



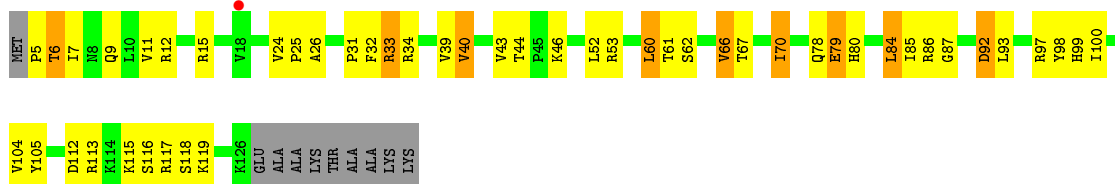
- Molecule 12: 30S Ribosomal Protein S12

Chain AL:



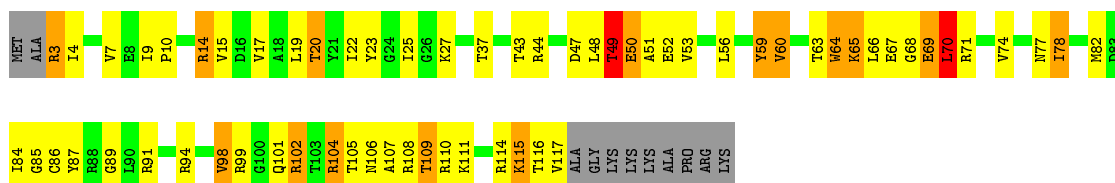
- Molecule 12: 30S Ribosomal Protein S12

Chain CL:

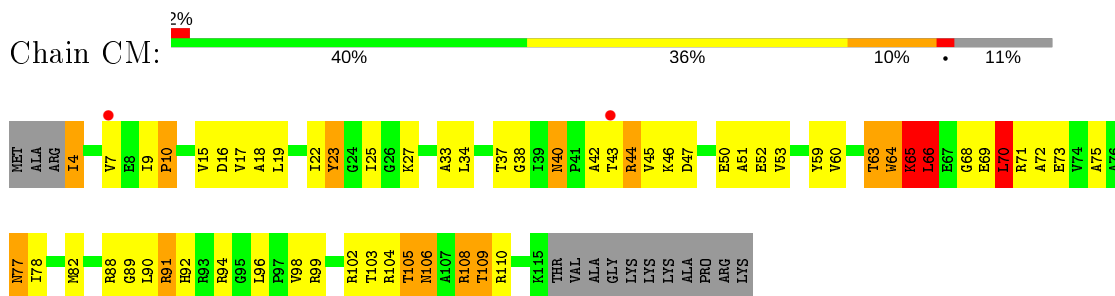


- Molecule 13: 30S Ribosomal Protein S13

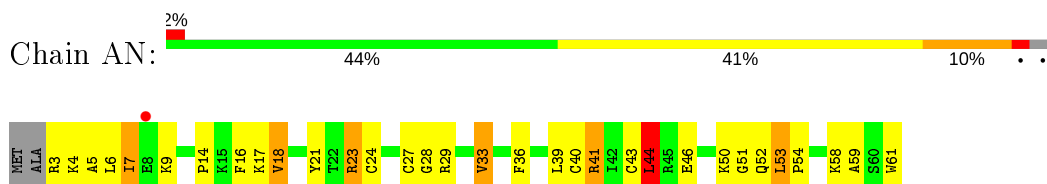
Chain AM:



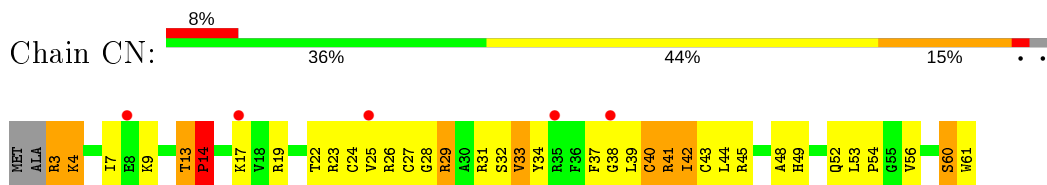
- Molecule 13: 30S Ribosomal Protein S13



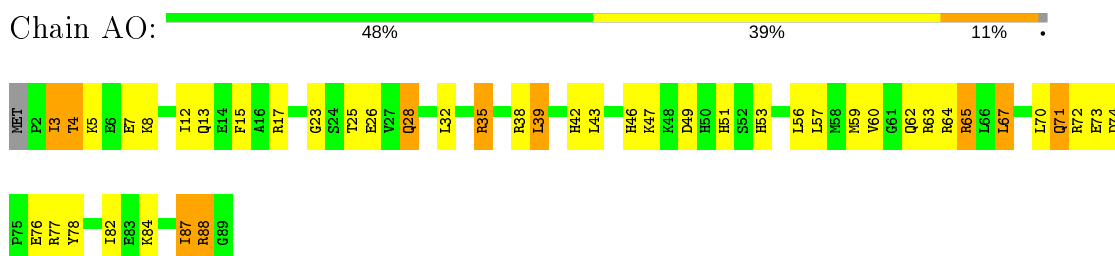
- Molecule 14: 30S Ribosomal Protein S14



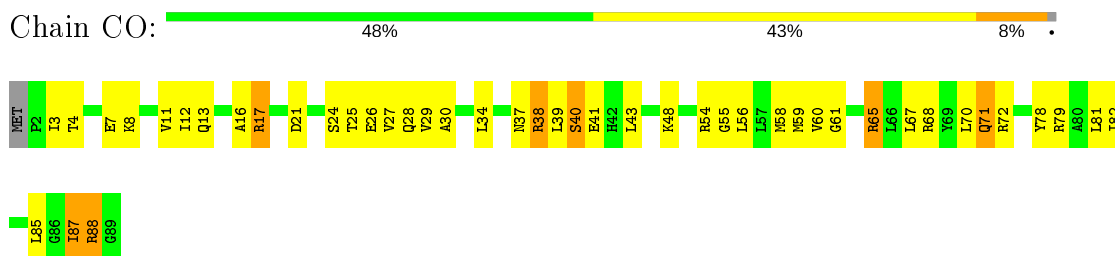
- Molecule 14: 30S Ribosomal Protein S14



- Molecule 15: 30S Ribosomal Protein S15

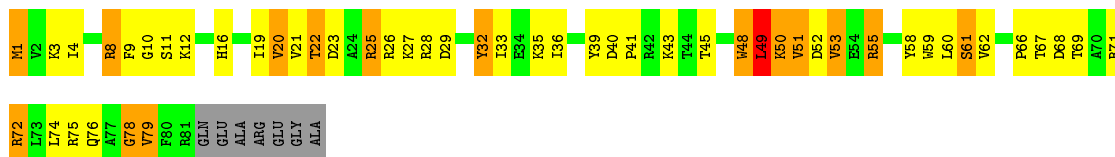


- Molecule 15: 30S Ribosomal Protein S15

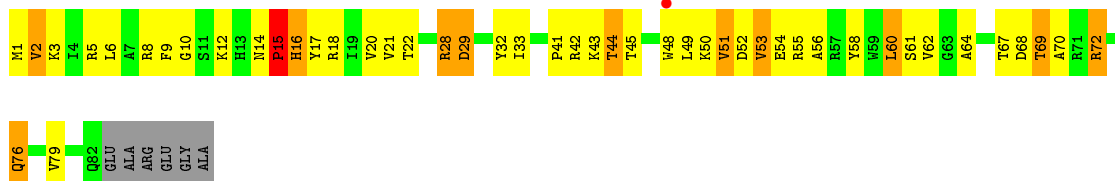


- Molecule 16: 30S Ribosomal Protein S16

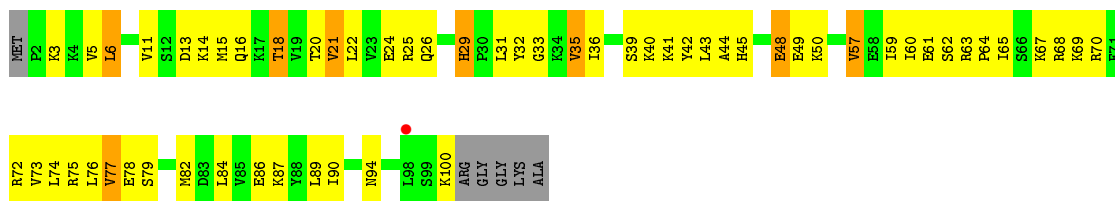




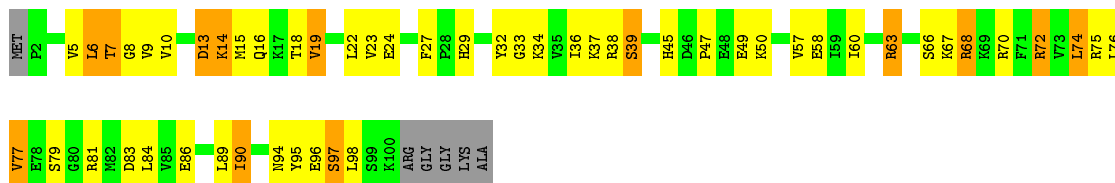
• Molecule 16: 30S Ribosomal Protein S16



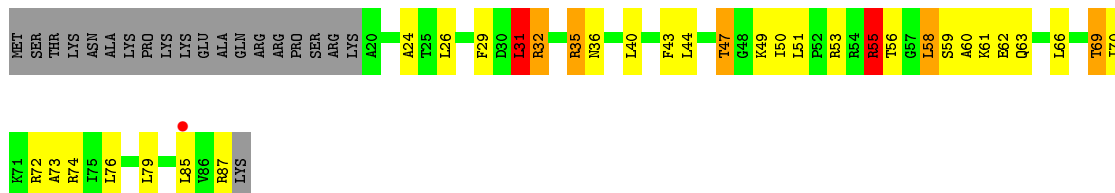
• Molecule 17: 30S Ribosomal Protein S17



• Molecule 17: 30S Ribosomal Protein S17

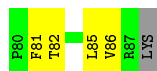


• Molecule 18: 30S Ribosomal Protein S18



• Molecule 18: 30S Ribosomal Protein S18

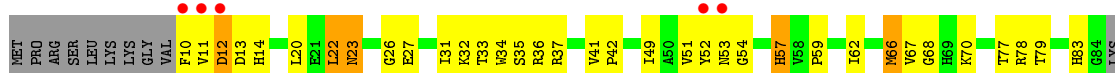
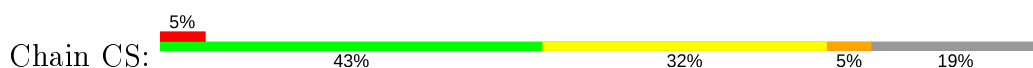




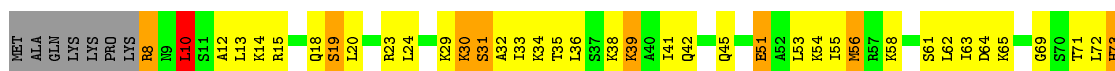
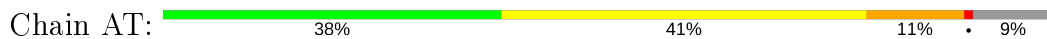
• Molecule 19: 30S Ribosomal Protein S19



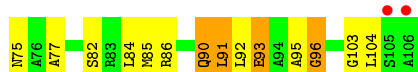
• Molecule 19: 30S Ribosomal Protein S19



• Molecule 20: 30S Ribosomal Protein S20



• Molecule 20: 30S Ribosomal Protein S20

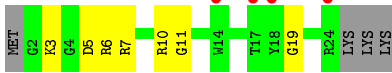


• Molecule 21: 30S Ribosomal Protein THX

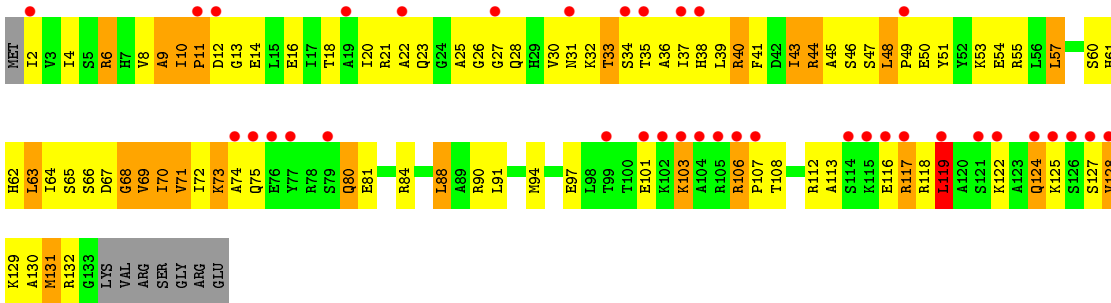




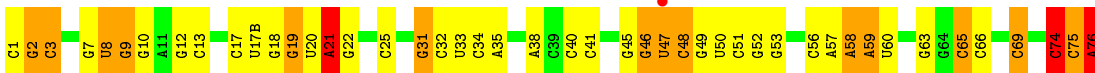
• Molecule 21: 30S Ribosomal Protein THX



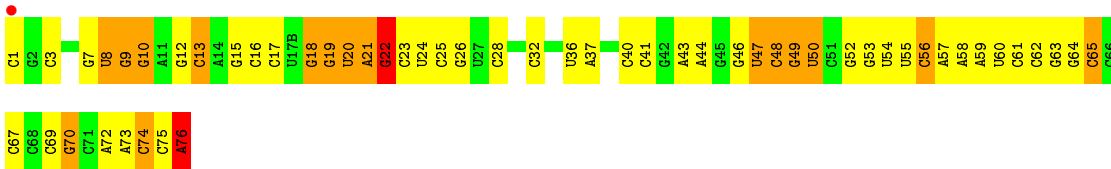
• Molecule 22: YAEJ



• Molecule 23: P-site fMet-tRNA



• Molecule 23: P-site fMet-tRNA



• Molecule 24: mRNA

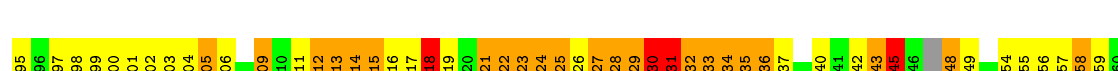
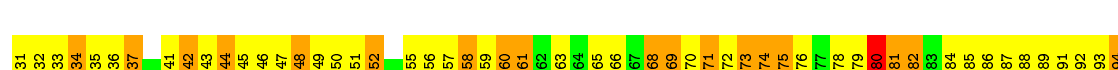
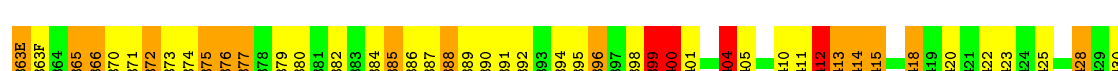
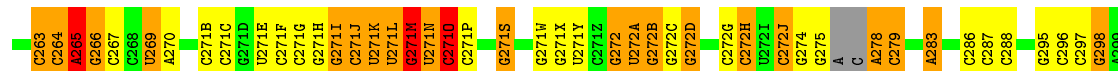
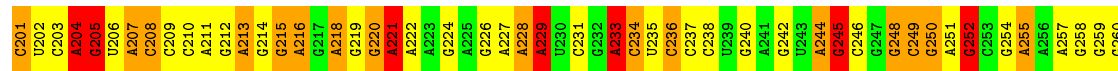
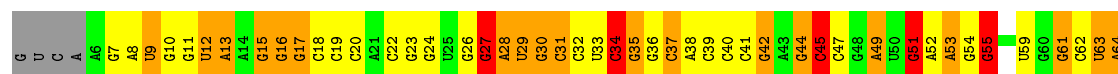
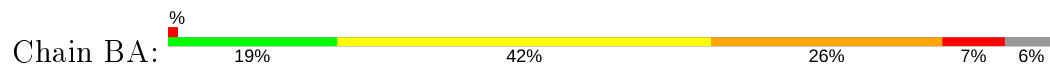


• Molecule 24: mRNA



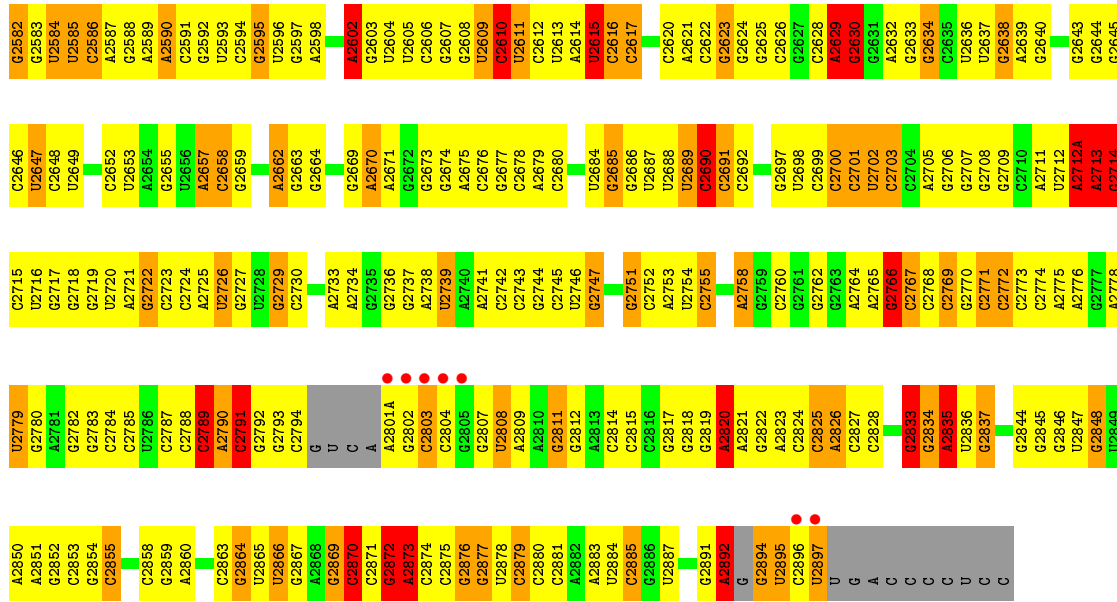


● Molecule 25: 23S Ribosomal RNA

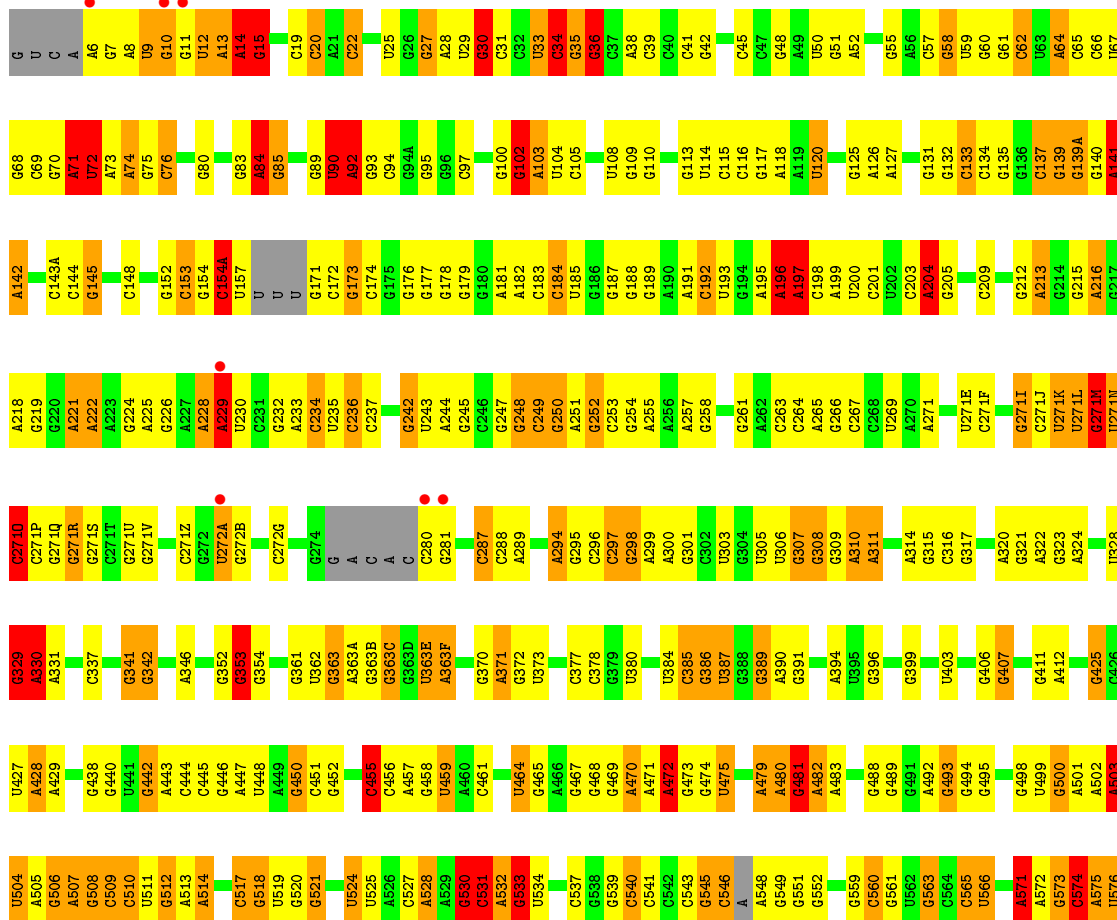


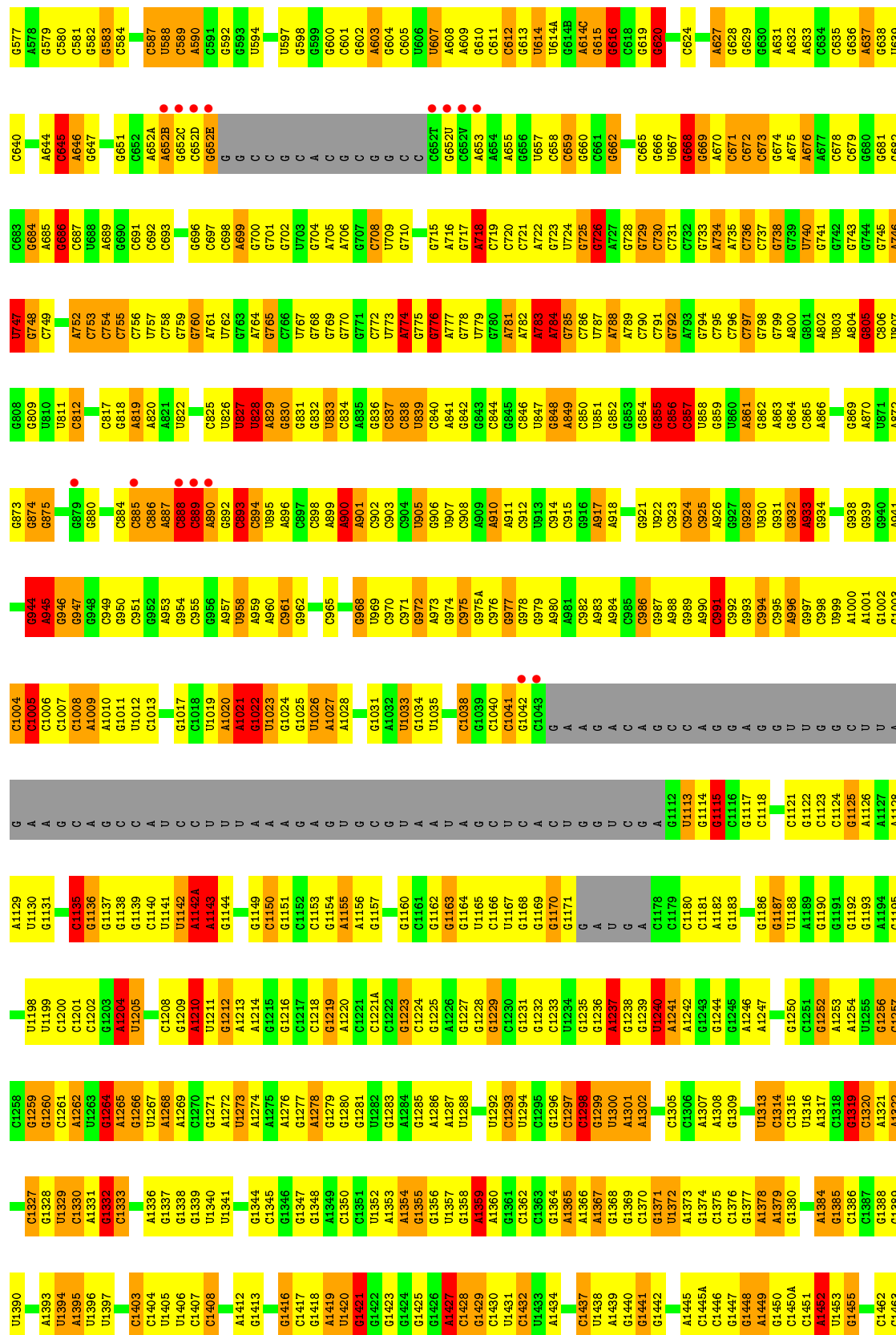




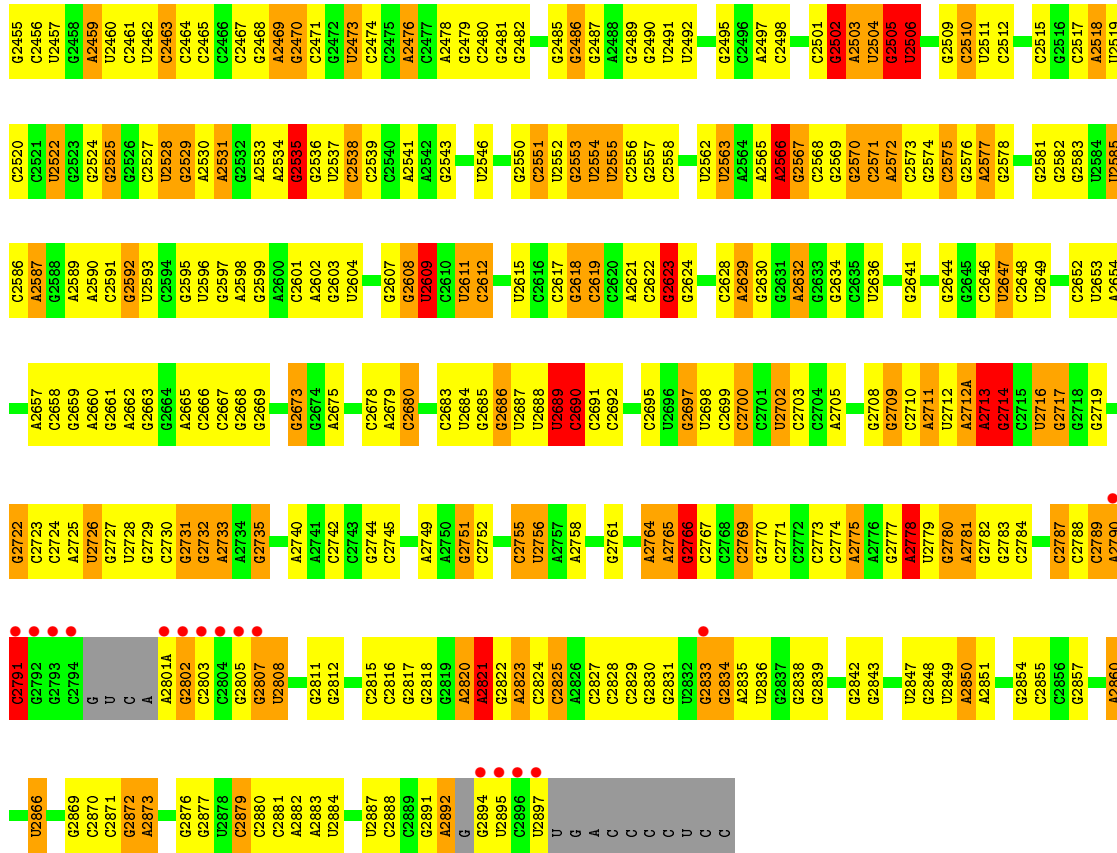


• Molecule 25: 23S Ribosomal RNA

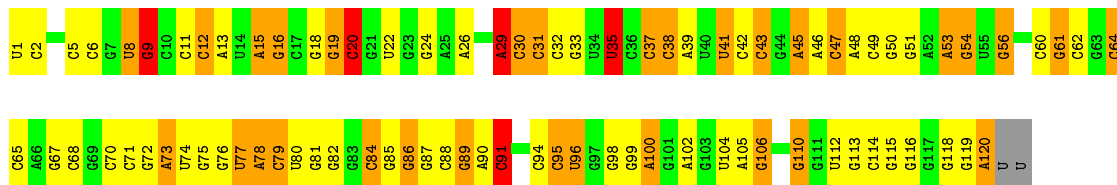
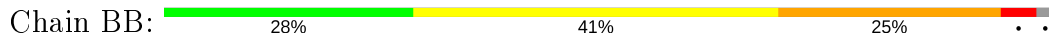




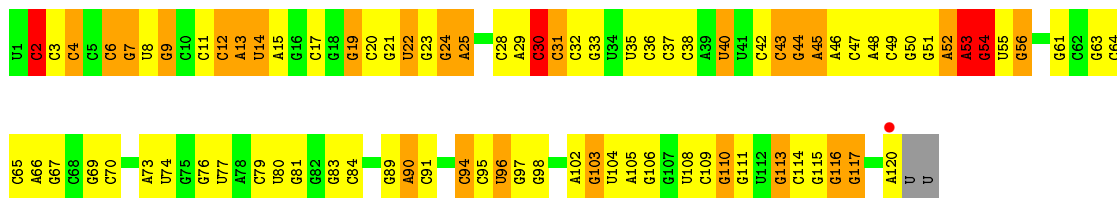




• Molecule 26: 5S Ribosomal RNA

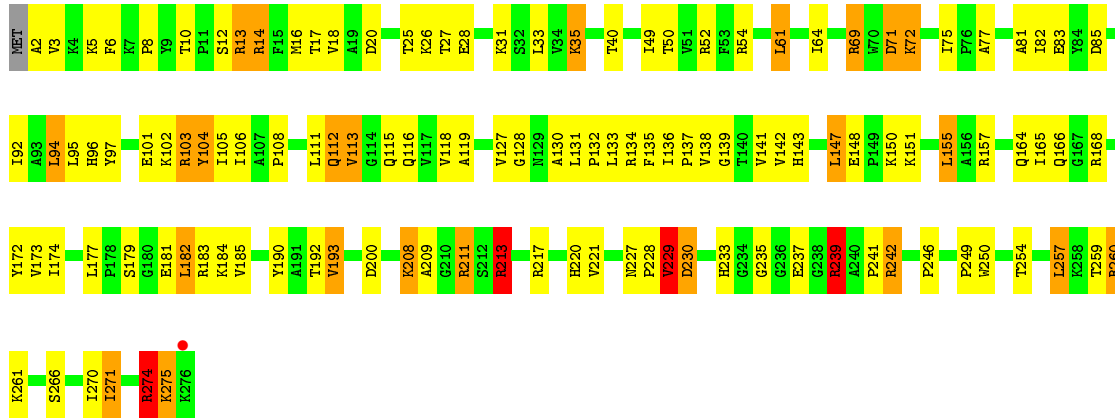


• Molecule 26: 5S Ribosomal RNA

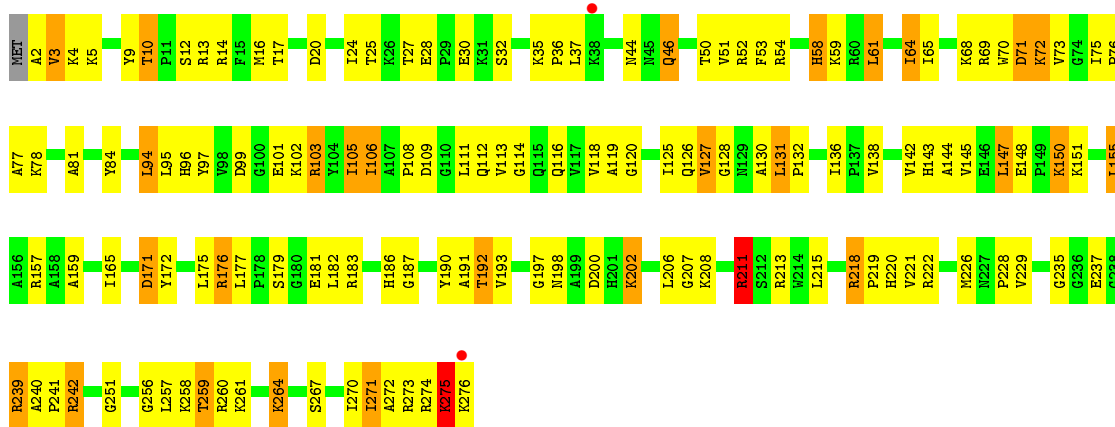


• Molecule 27: 50S Ribosomal Protein L2

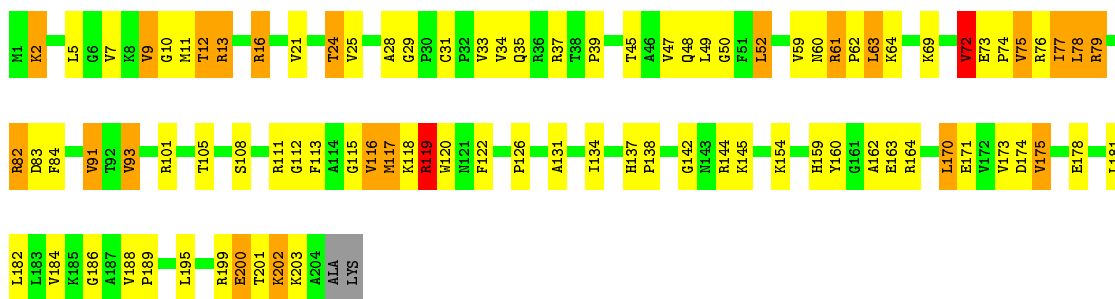




• Molecule 27: 50S Ribosomal Protein L2



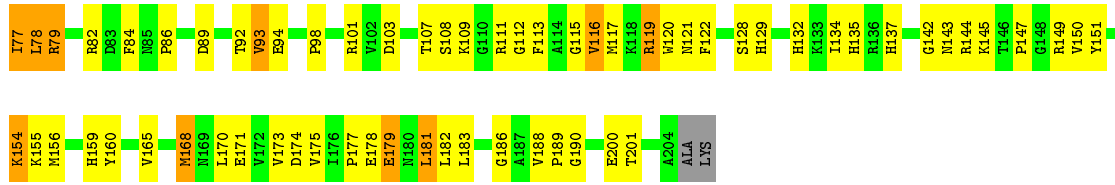
• Molecule 28: 50S Ribosomal Protein L3



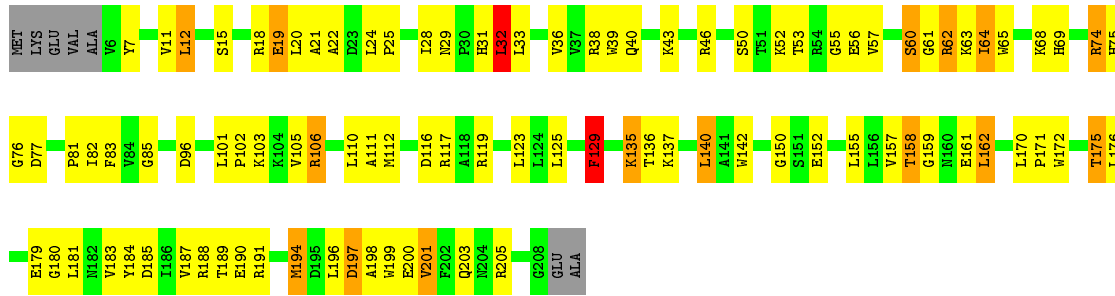
• Molecule 28: 50S Ribosomal Protein L3



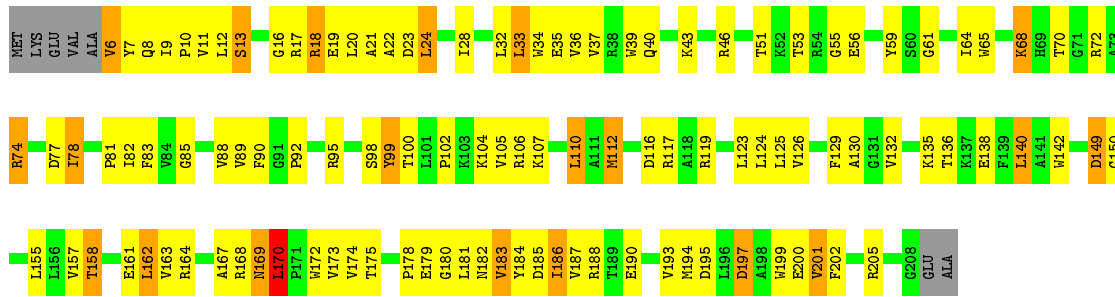




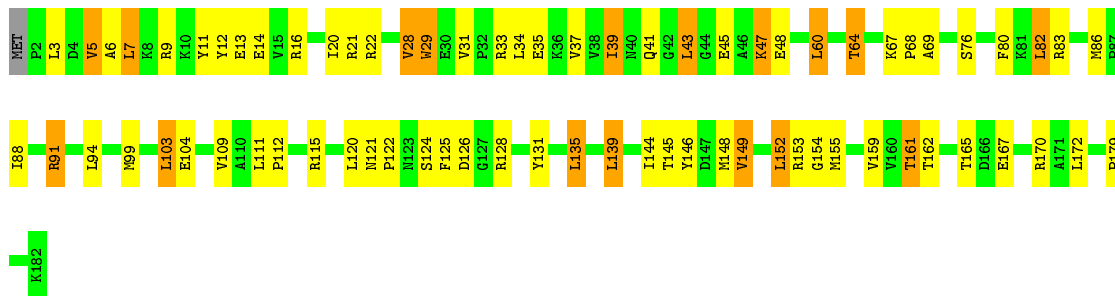
• Molecule 29: 50S Ribosomal Protein L4



• Molecule 29: 50S Ribosomal Protein L4



• Molecule 30: 50S Ribosomal Protein L5

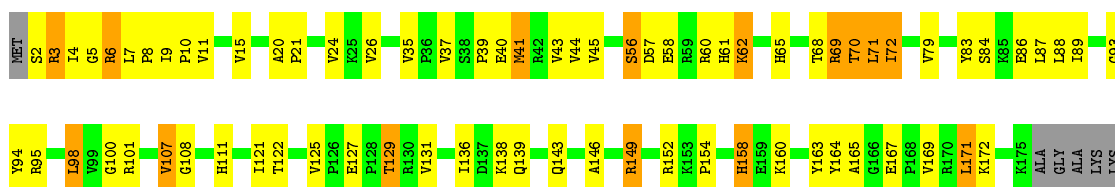


• Molecule 30: 50S Ribosomal Protein L5

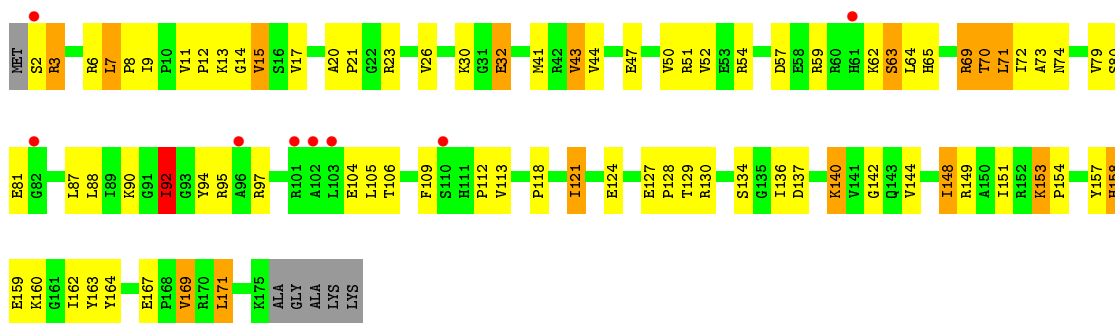




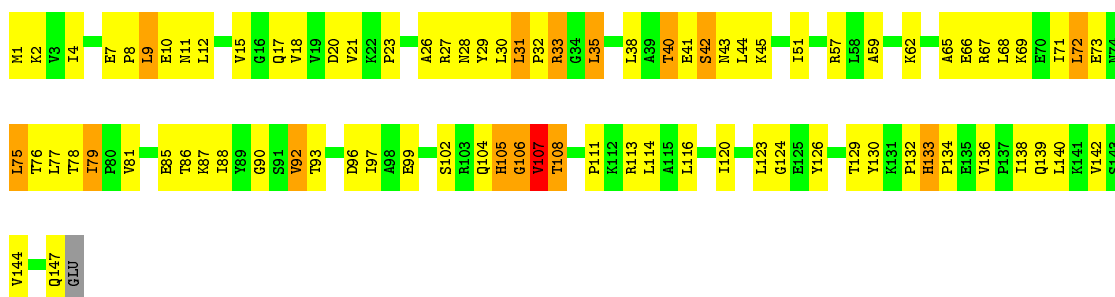
• Molecule 31: 50S Ribosomal Protein L6



• Molecule 31: 50S Ribosomal Protein L6

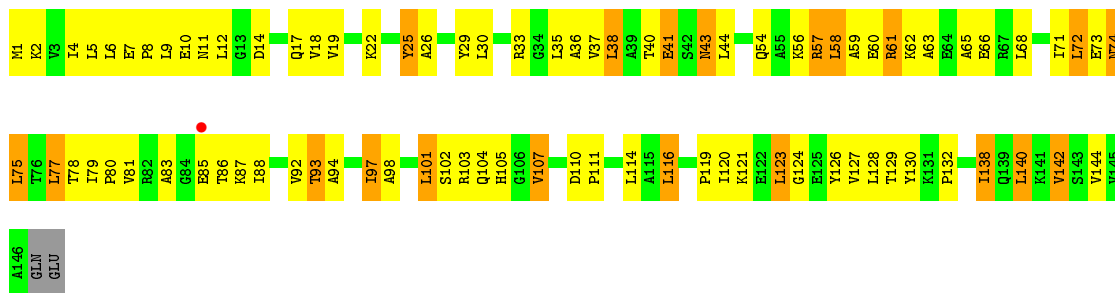


• Molecule 32: 50S Ribosomal Protein L9



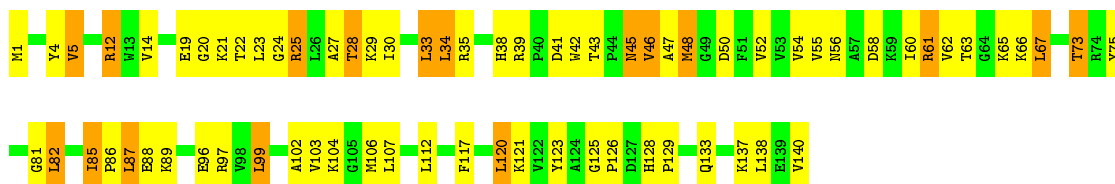
• Molecule 32: 50S Ribosomal Protein L9





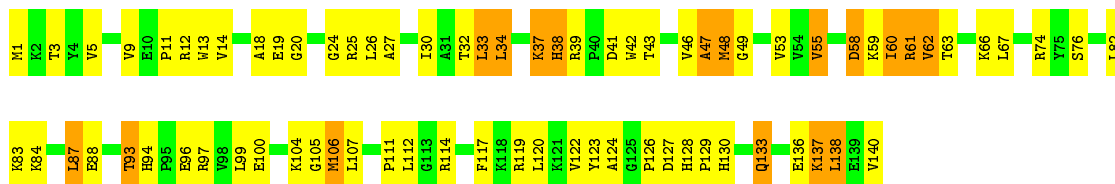
- Molecule 33: 50S Ribosomal Protein L13

Chain BN: 49% 39% 12%



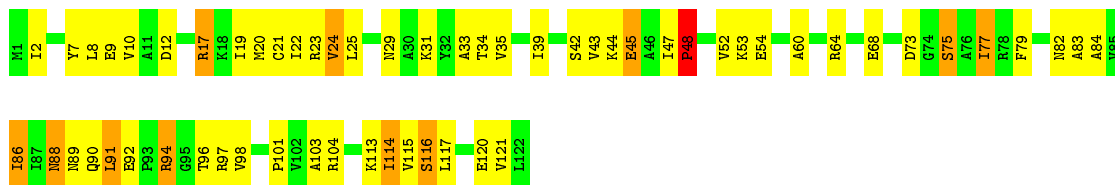
- Molecule 33: 50S Ribosomal Protein L13

Chain DN: 46% 41% 12%



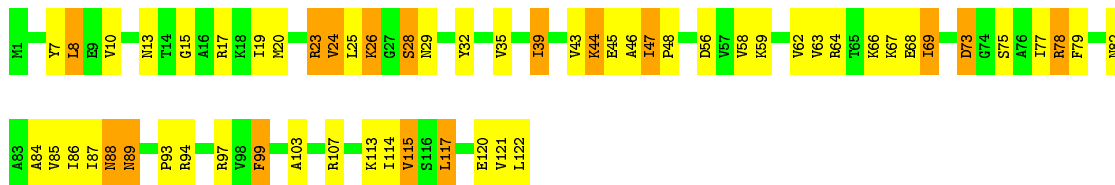
- Molecule 34: 50S Ribosomal Protein L14

Chain BO: 52% 39% 9%

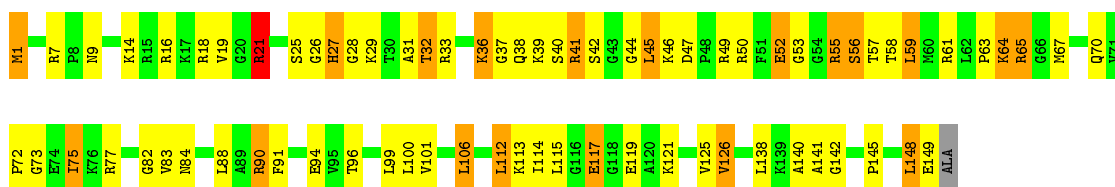


- Molecule 34: 50S Ribosomal Protein L14

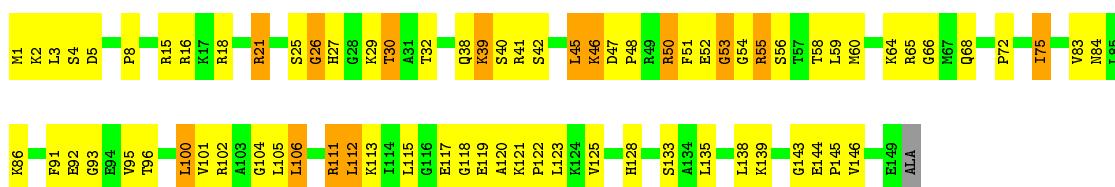
Chain DO: 52% 34% 13%



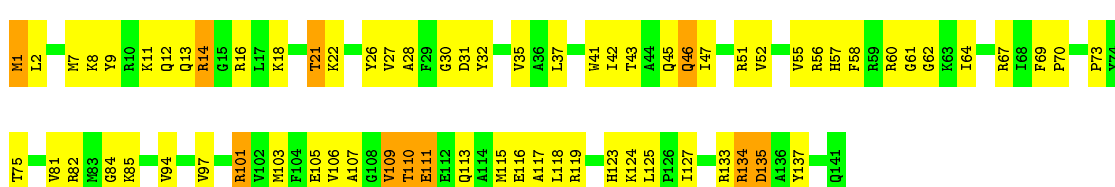
- Molecule 35: 50S Ribosomal Protein L15



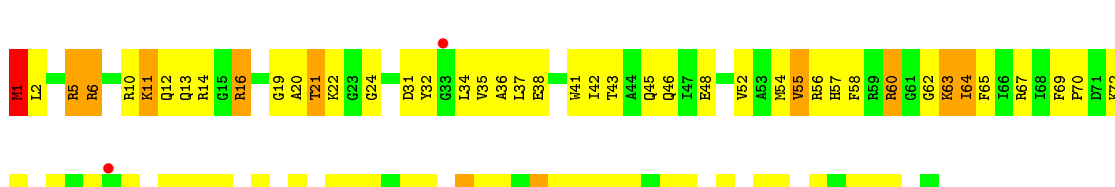
• Molecule 35: 50S Ribosomal Protein L15



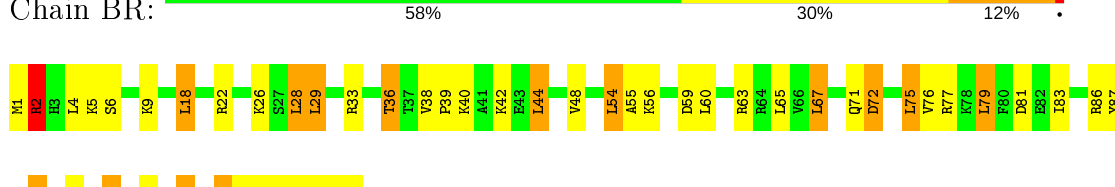
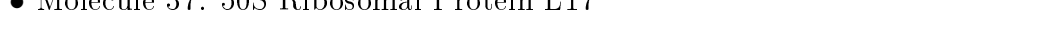
• Molecule 36: 50S Ribosomal Protein L16



• Molecule 36: 50S Ribosomal Protein L16



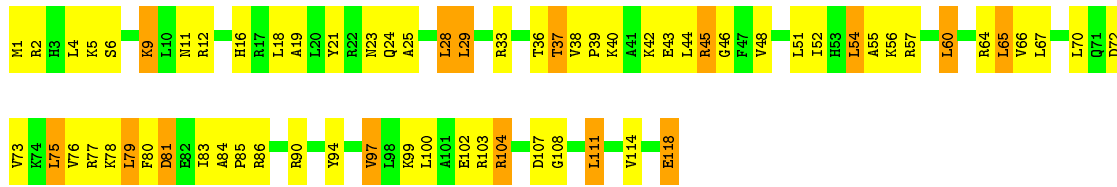
• Molecule 37: 50S Ribosomal Protein L17



• Molecule 37: 50S Ribosomal Protein L17

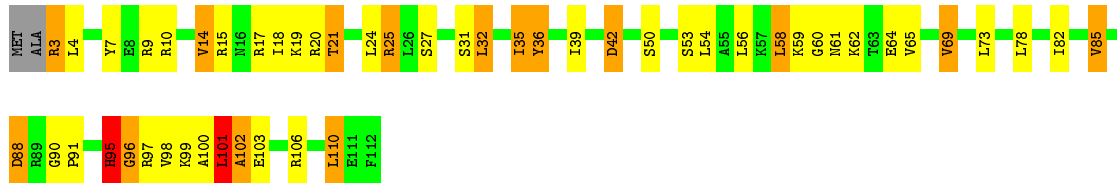


Chain DR: 43% 44% 13%



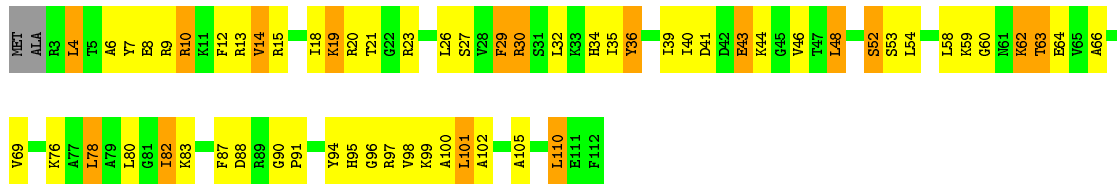
• Molecule 38: 50S Ribosomal Protein L18

Chain BS: 53% 30% 13%



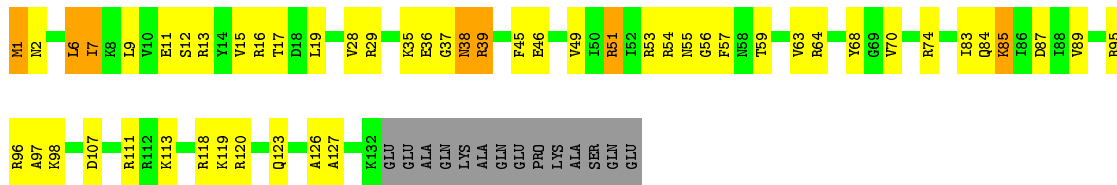
• Molecule 38: 50S Ribosomal Protein L18

Chain DS: 44% 40% 14%



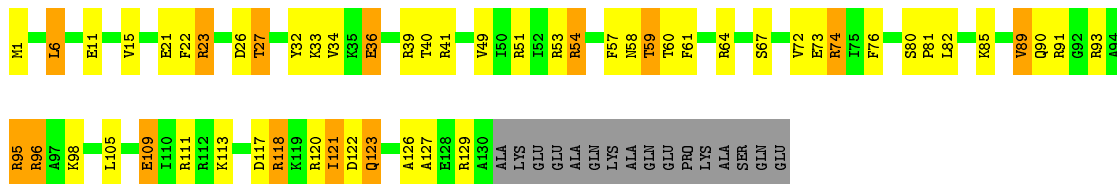
• Molecule 39: 50S Ribosomal Protein L19

Chain BT: 55% 31% 5% 10%

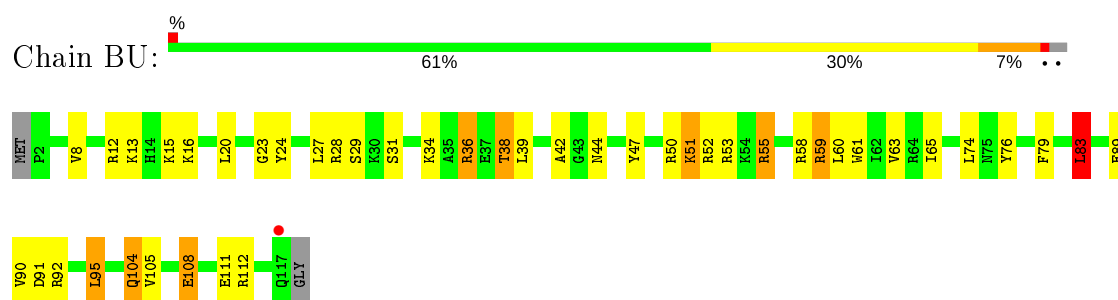


• Molecule 39: 50S Ribosomal Protein L19

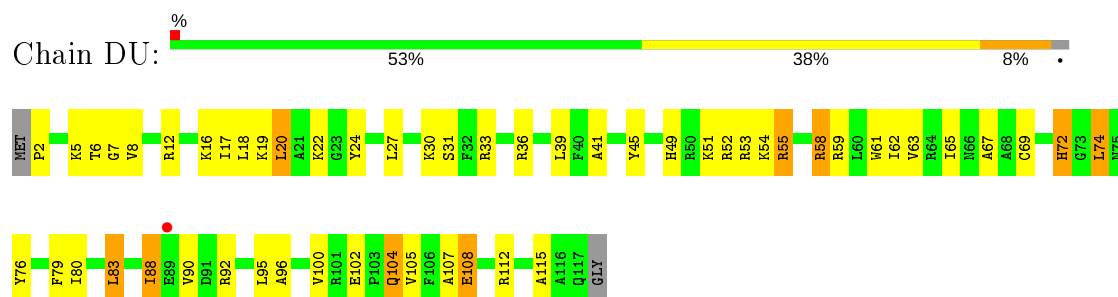
Chain DT: 51% 28% 10% 11%



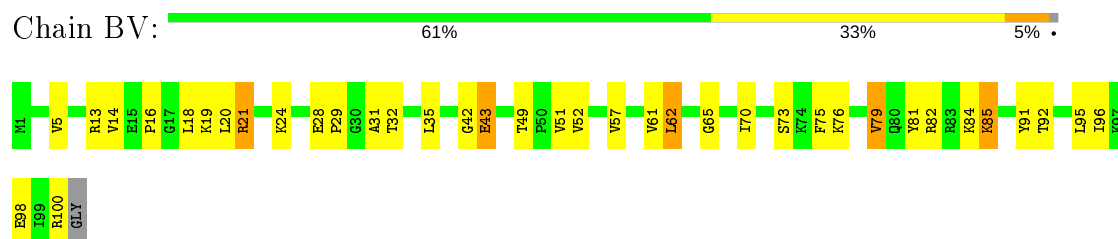
• Molecule 40: 50S Ribosomal Protein L20



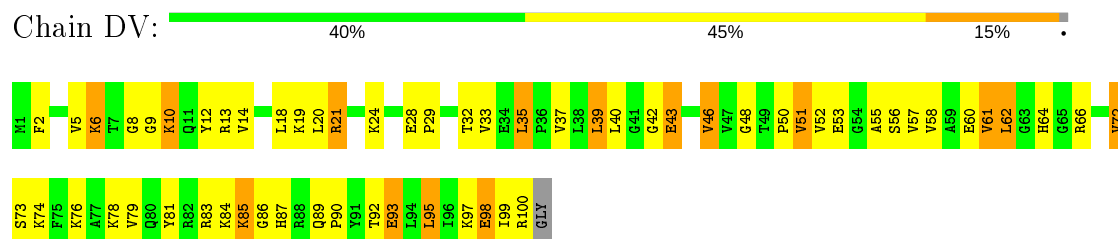
- Molecule 40: 50S Ribosomal Protein L20



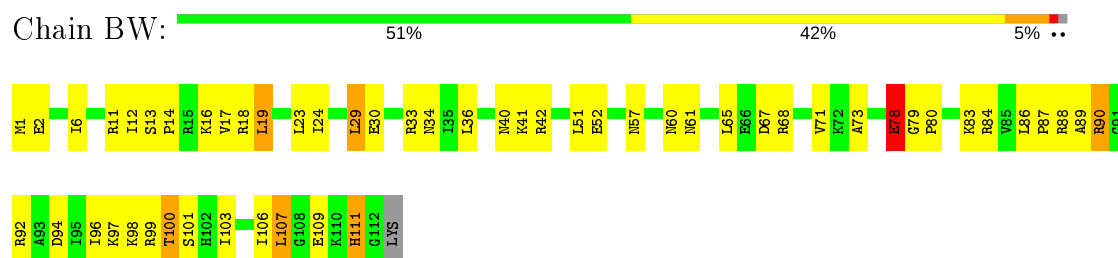
- Molecule 41: 50S Ribosomal Protein L21



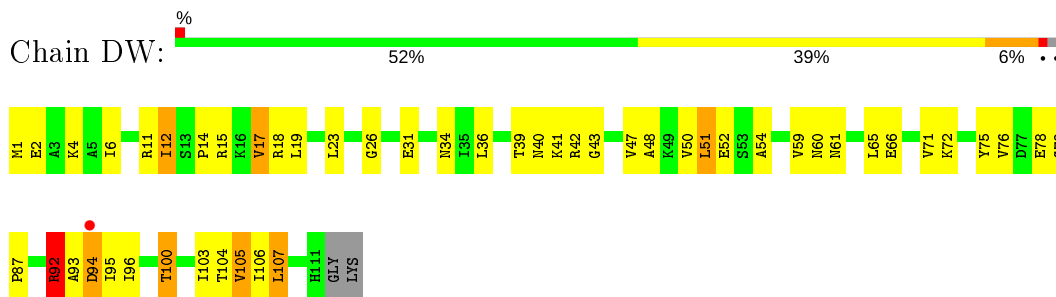
- Molecule 41: 50S Ribosomal Protein L21



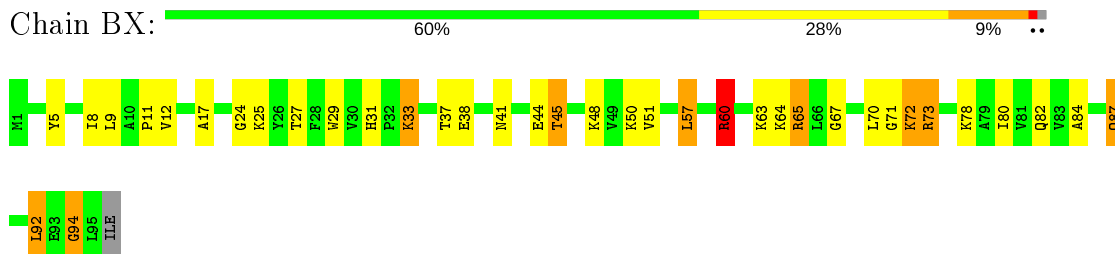
- Molecule 42: 50S Ribosomal Protein L22



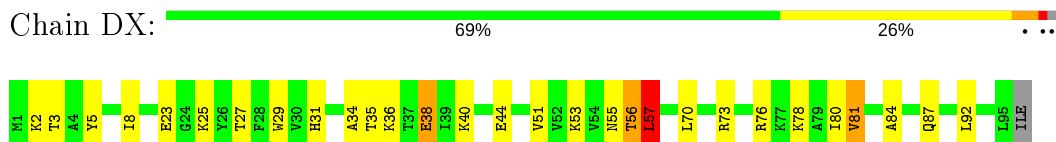
- Molecule 42: 50S Ribosomal Protein L22



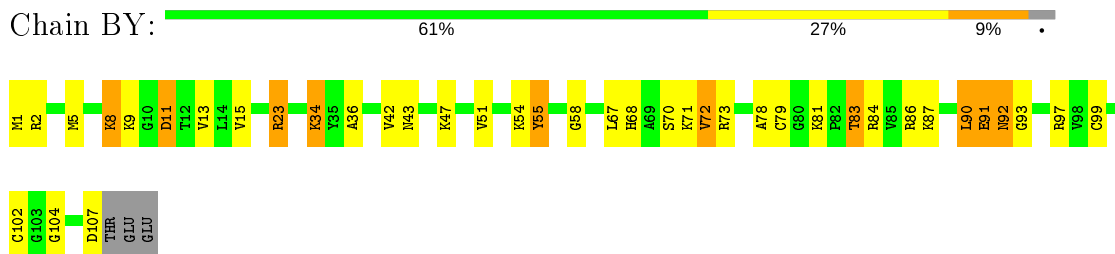
- Molecule 43: 50S Ribosomal Protein L23



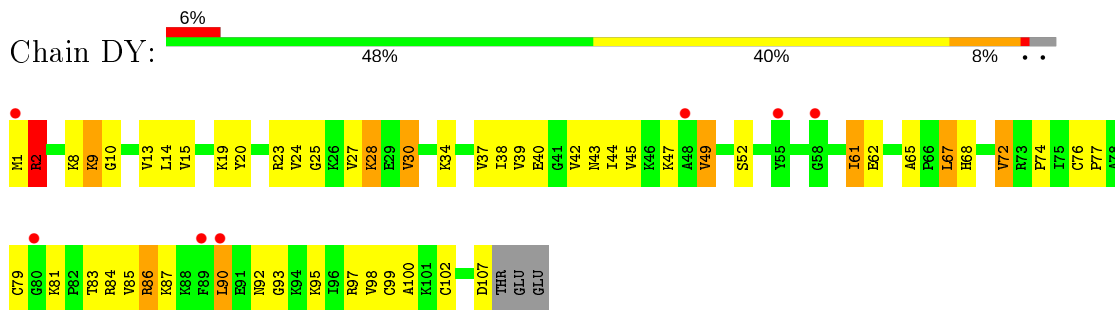
- Molecule 43: 50S Ribosomal Protein L23



- Molecule 44: 50S Ribosomal Protein L24

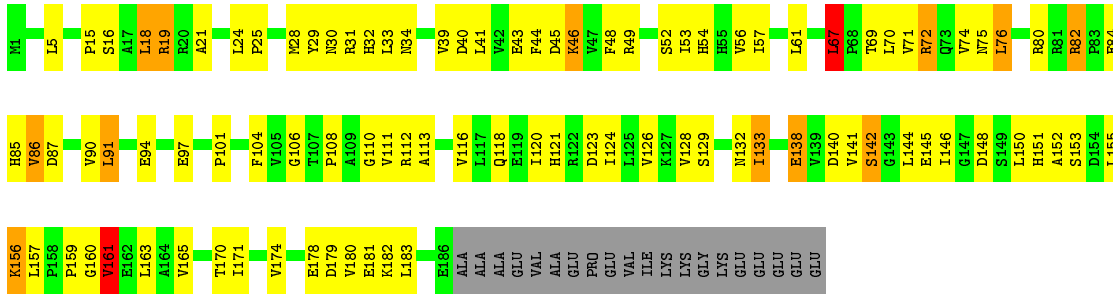


- Molecule 44: 50S Ribosomal Protein L24

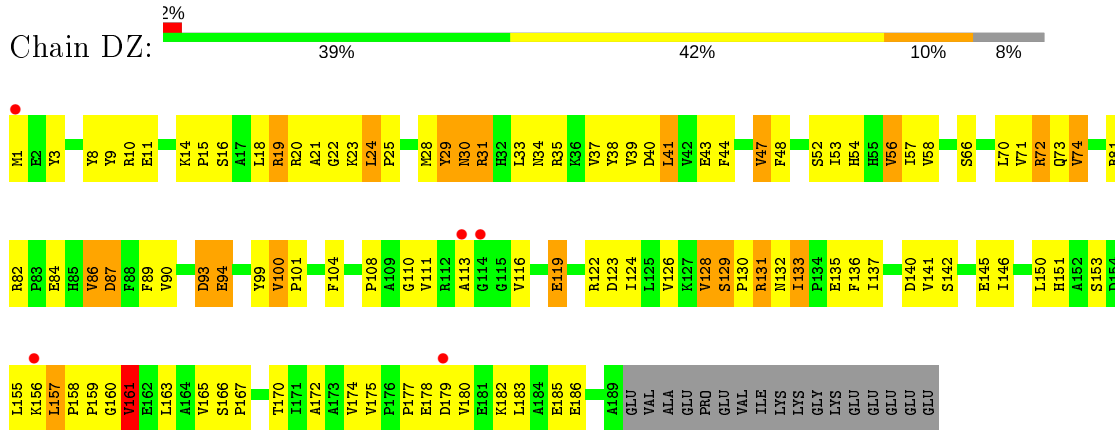


- Molecule 45: 50S Ribosomal Protein L25

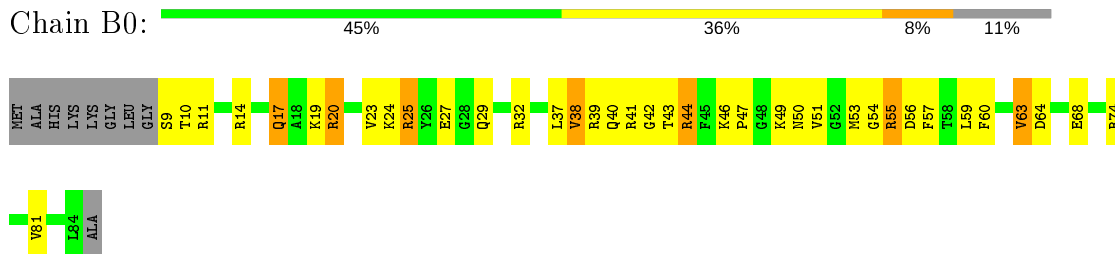




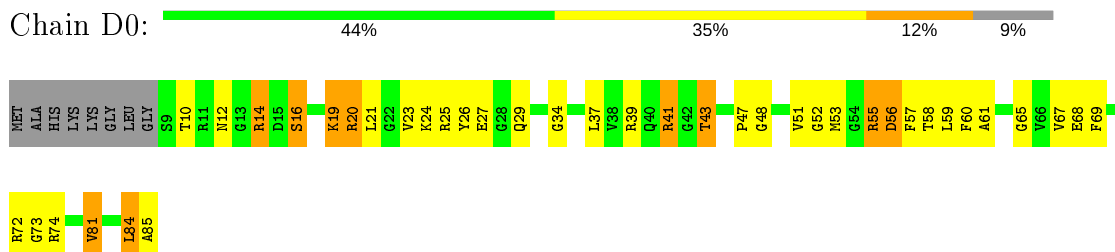
- Molecule 45: 50S Ribosomal Protein L25



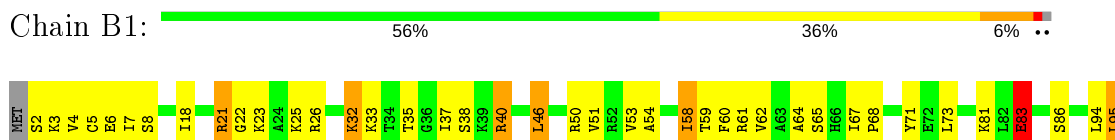
- Molecule 46: 50S Ribosomal Protein L27



- Molecule 46: 50S Ribosomal Protein L27



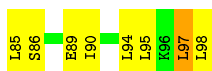
- Molecule 47: 50S Ribosomal Protein L28







• Molecule 47: 50S Ribosomal Protein L28



• Molecule 48: 50S Ribosomal Protein L29



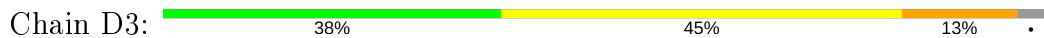
• Molecule 48: 50S Ribosomal Protein L29



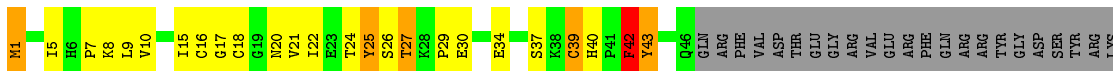
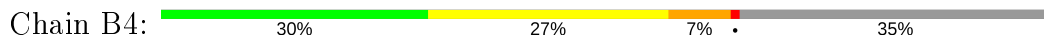
• Molecule 49: 50S Ribosomal Protein L30



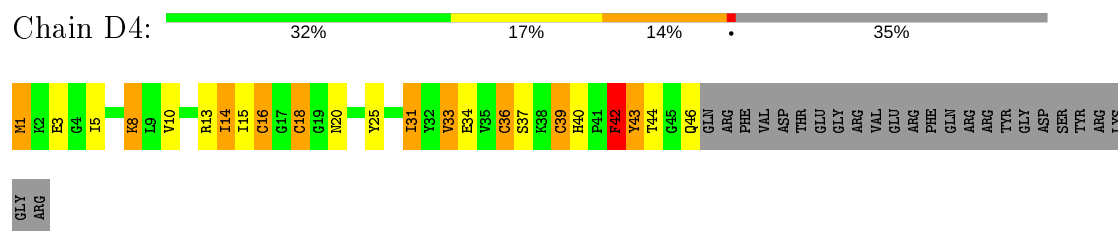
• Molecule 49: 50S Ribosomal Protein L30



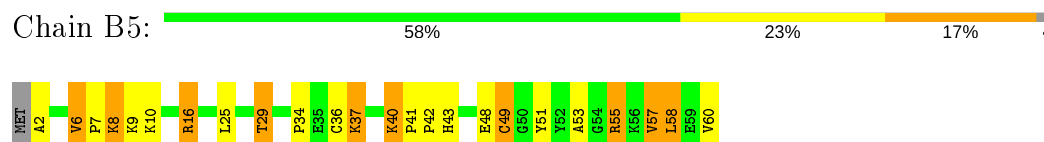
• Molecule 50: 50S Ribosomal Protein L31



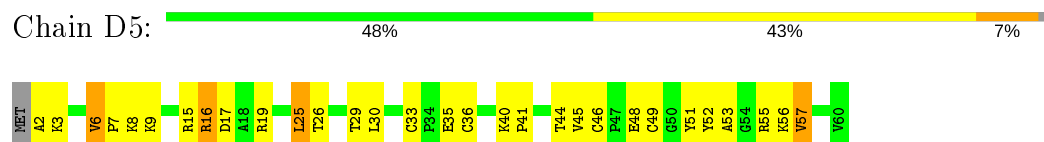
- Molecule 50: 50S Ribosomal Protein L31



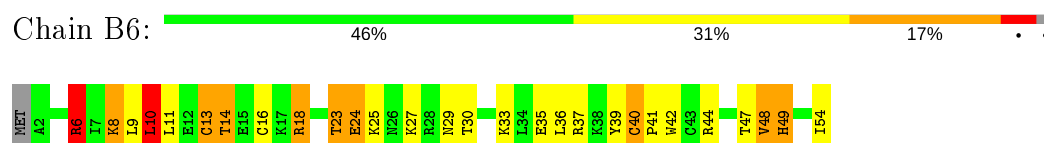
- Molecule 51: 50S Ribosomal Protein L32



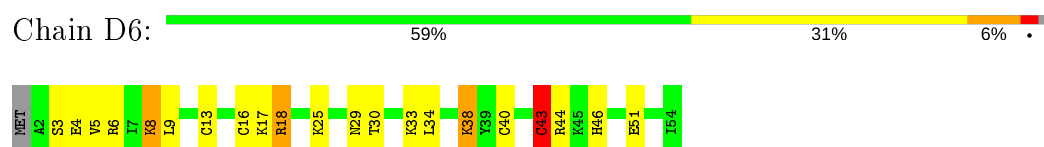
- Molecule 51: 50S Ribosomal Protein L32



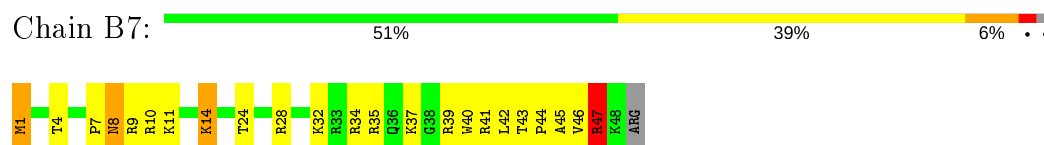
- Molecule 52: 50S Ribosomal Protein L33



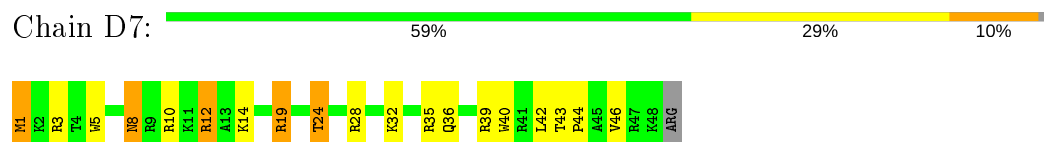
- Molecule 52: 50S Ribosomal Protein L33



- Molecule 53: 50S Ribosomal Protein L34

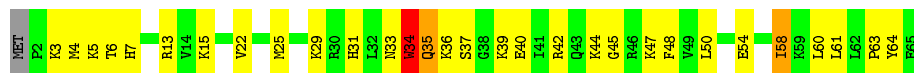


- Molecule 53: 50S Ribosomal Protein L34



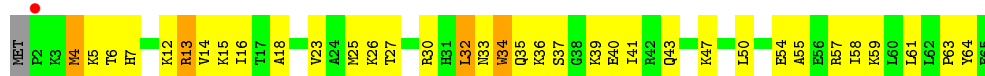
- Molecule 54: 50S Ribosomal Protein L35

Chain B8:  52% 42%



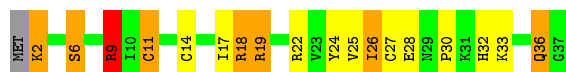
- Molecule 54: 50S Ribosomal Protein L35

Chain D8:  2% 45% 48% 6%



- Molecule 55: 50S Ribosomal Protein L36

Chain B9:  49% 27% 19%



- Molecule 55: 50S Ribosomal Protein L36

Chain D9:  8% 41% 49% 5% 5%



## 4 Data and refinement statistics

| Property  | Value   | Source           |
|---|---|------------------|
| Space group   | P 21 21 21  | Depositor        |
| Cell constants<br>a, b, c, $\alpha$ , $\beta$ , $\gamma$                | 209.96Å 448.86Å 624.20Å<br>90.00° 90.00° 90.00°             | Depositor        |
| Resolution (Å)  | 34.91 – 3.20<br>34.91 – 3.20                                | Depositor<br>EDS |
| % Data completeness<br>(in resolution range)                            | 99.8 (34.91-3.20)<br>99.8 (34.91-3.20)                      | Depositor<br>EDS |
| $R_{merge}$   | 0.28  | Depositor        |
| $R_{sym}$   | (Not available)   | Depositor        |
| $\langle I/\sigma(I) \rangle$ <sup>1</sup>                              | 1.32 (at 3.18Å)   | Xtrriage         |
| Refinement program  | PHENIX 1.7.3_928  | Depositor        |
| R, $R_{free}$   | 0.188 , 0.245<br>0.186 , 0.243                              | Depositor<br>DCC |
| $R_{free}$ test set   | 48002 reflections (5.02%)                                   | wwPDB-VP         |
| Wilson B-factor (Å <sup>2</sup> )                                       | 73.8  | Xtrriage         |
| Anisotropy  | 0.161   | Xtrriage         |
| Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> ) | 0.27 , 75.5   | EDS              |
| L-test for twinning <sup>2</sup>  | $\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.28$ | Xtrriage         |
| Estimated twinning fraction   | No twinning to report.                                      | Xtrriage         |
| $F_o, F_c$ correlation  | 0.94  | EDS              |
| Total number of atoms   | 284877  | wwPDB-VP         |
| Average B, all atoms (Å <sup>2</sup> )                                  | 80.0  | wwPDB-VP         |

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.56% 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: ZN, MG

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

| Mol | Chain | Bond lengths |                 | Bond angles |                  |
|-----|-------|--------------|-----------------|-------------|------------------|
|     |       | RMSZ         | # $ Z  > 5$     | RMSZ        | # $ Z  > 5$      |
| 1   | AA    | 0.97         | 30/35273 (0.1%) | 1.68        | 779/55046 (1.4%) |
| 1   | CA    | 0.89         | 15/35152 (0.0%) | 1.51        | 525/54858 (1.0%) |
| 2   | AB    | 0.67         | 3/1844 (0.2%)   | 0.87        | 1/2498 (0.0%)    |
| 2   | CB    | 0.55         | 0/1852          | 0.79        | 1/2510 (0.0%)    |
| 3   | AC    | 0.56         | 0/1458          | 0.84        | 0/1981           |
| 3   | CC    | 0.53         | 0/1477          | 0.75        | 0/2006           |
| 4   | AD    | 0.66         | 2/1550 (0.1%)   | 0.93        | 4/2106 (0.2%)    |
| 4   | CD    | 0.70         | 3/1567 (0.2%)   | 0.95        | 4/2125 (0.2%)    |
| 5   | AE    | 0.64         | 0/1121          | 0.90        | 0/1517           |
| 5   | CE    | 0.68         | 0/1131          | 0.92        | 0/1529           |
| 6   | AF    | 0.62         | 0/794           | 0.86        | 1/1082 (0.1%)    |
| 6   | CF    | 0.60         | 0/797           | 0.81        | 0/1085           |
| 7   | AG    | 0.53         | 0/1169          | 0.73        | 0/1580           |
| 7   | CG    | 0.53         | 0/1166          | 0.77        | 0/1576           |
| 8   | AH    | 0.63         | 0/1065          | 0.83        | 0/1445           |
| 8   | CH    | 0.57         | 0/1069          | 0.80        | 0/1450           |
| 9   | AI    | 0.60         | 0/879           | 0.96        | 1/1195 (0.1%)    |
| 9   | CI    | 0.53         | 0/864           | 0.80        | 1/1177 (0.1%)    |
| 10  | AJ    | 0.57         | 0/672           | 0.81        | 0/919            |
| 10  | CJ    | 0.55         | 0/670           | 0.84        | 0/917            |
| 11  | AK    | 0.70         | 0/858           | 0.91        | 1/1163 (0.1%)    |
| 11  | CK    | 0.58         | 0/843           | 0.77        | 0/1144           |
| 12  | AL    | 0.70         | 0/925           | 0.87        | 0/1251           |
| 12  | CL    | 0.64         | 0/921           | 0.88        | 0/1247           |
| 13  | AM    | 0.66         | 1/824 (0.1%)    | 0.92        | 1/1120 (0.1%)    |
| 13  | CM    | 0.55         | 0/794           | 0.81        | 1/1081 (0.1%)    |
| 14  | AN    | 0.59         | 0/482           | 0.86        | 2/642 (0.3%)     |
| 14  | CN    | 0.60         | 0/478           | 0.86        | 0/638            |
| 15  | AO    | 0.62         | 0/735           | 0.87        | 1/981 (0.1%)     |
| 15  | CO    | 0.59         | 0/735           | 0.84        | 0/981            |
| 16  | AP    | 0.60         | 0/662           | 0.99        | 3/898 (0.3%)     |
| 16  | CP    | 0.60         | 0/677           | 0.91        | 0/917            |

| Mol | Chain | Bond lengths |                  | Bond angles |                    |
|-----|-------|--------------|------------------|-------------|--------------------|
|     |       | RMSZ         | # Z  >5          | RMSZ        | # Z  >5            |
| 17  | AQ    | 0.70         | 0/836            | 0.90        | 0/1117             |
| 17  | CQ    | 0.63         | 0/832            | 0.84        | 1/1113 (0.1%)      |
| 18  | AR    | 0.64         | 0/519            | 0.96        | 3/699 (0.4%)       |
| 18  | CR    | 0.59         | 0/519            | 0.79        | 0/699              |
| 19  | AS    | 0.51         | 0/574            | 0.83        | 0/781              |
| 19  | CS    | 0.46         | 0/543            | 0.73        | 1/740 (0.1%)       |
| 20  | AT    | 0.57         | 0/716            | 0.82        | 0/947              |
| 20  | CT    | 0.62         | 0/776            | 0.85        | 0/1026             |
| 21  | AU    | 0.66         | 0/221            | 0.84        | 0/288              |
| 21  | CU    | 0.60         | 0/184            | 0.78        | 0/244              |
| 22  | AY    | 0.78         | 1/1043 (0.1%)    | 1.02        | 5/1399 (0.4%)      |
| 23  | AV    | 1.07         | 3/1836 (0.2%)    | 1.55        | 36/2859 (1.3%)     |
| 23  | CV    | 0.78         | 1/1836 (0.1%)    | 1.29        | 11/2859 (0.4%)     |
| 24  | AX    | 0.94         | 0/147            | 1.18        | 0/227              |
| 24  | CX    | 0.85         | 0/147            | 1.11        | 0/227              |
| 25  | BA    | 1.52         | 551/66391 (0.8%) | 2.06        | 3990/103628 (3.9%) |
| 25  | DA    | 1.06         | 69/65653 (0.1%)  | 1.63        | 1707/102473 (1.7%) |
| 26  | BB    | 1.26         | 6/2878 (0.2%)    | 1.93        | 156/4490 (3.5%)    |
| 26  | DB    | 0.88         | 1/2878 (0.0%)    | 1.42        | 35/4490 (0.8%)     |
| 27  | BD    | 1.02         | 3/2181 (0.1%)    | 1.14        | 8/2940 (0.3%)      |
| 27  | DD    | 0.83         | 3/2186 (0.1%)    | 0.98        | 2/2944 (0.1%)      |
| 28  | BE    | 0.96         | 0/1588           | 1.09        | 4/2145 (0.2%)      |
| 28  | DE    | 0.72         | 0/1588           | 0.90        | 1/2145 (0.0%)      |
| 29  | BF    | 0.93         | 0/1609           | 0.97        | 2/2177 (0.1%)      |
| 29  | DF    | 0.64         | 0/1611           | 0.87        | 2/2180 (0.1%)      |
| 30  | BG    | 0.70         | 1/1393 (0.1%)    | 0.92        | 0/1892             |
| 30  | DG    | 0.53         | 0/1385           | 0.83        | 1/1881 (0.1%)      |
| 31  | BH    | 0.84         | 0/1343           | 0.94        | 0/1820             |
| 31  | DH    | 0.53         | 0/1343           | 0.76        | 1/1820 (0.1%)      |
| 32  | BI    | 0.63         | 0/1081           | 0.92        | 2/1477 (0.1%)      |
| 32  | DI    | 0.59         | 0/1072           | 0.85        | 1/1465 (0.1%)      |
| 33  | BN    | 1.00         | 0/1139           | 1.10        | 3/1538 (0.2%)      |
| 33  | DN    | 0.63         | 0/1139           | 0.83        | 0/1538             |
| 34  | BO    | 0.96         | 0/933            | 1.03        | 2/1257 (0.2%)      |
| 34  | DO    | 0.74         | 0/933            | 0.93        | 2/1257 (0.2%)      |
| 35  | BP    | 0.89         | 0/1148           | 1.09        | 5/1529 (0.3%)      |
| 35  | DP    | 0.65         | 0/1148           | 0.91        | 2/1529 (0.1%)      |
| 36  | BQ    | 1.01         | 0/1143           | 1.04        | 4/1527 (0.3%)      |
| 36  | DQ    | 0.67         | 0/1143           | 0.89        | 1/1527 (0.1%)      |
| 37  | BR    | 0.90         | 0/982            | 1.08        | 3/1312 (0.2%)      |
| 37  | DR    | 0.65         | 0/982            | 0.90        | 0/1312             |
| 38  | BS    | 0.80         | 0/875            | 1.06        | 3/1168 (0.3%)      |
| 38  | DS    | 0.55         | 0/883            | 0.87        | 0/1176             |

| Mol | Chain | Bond lengths |                   | Bond angles |                    |
|-----|-------|--------------|-------------------|-------------|--------------------|
|     |       | RMSZ         | # Z  >5           | RMSZ        | # Z  >5            |
| 39  | BT    | 0.89         | 0/1086            | 1.05        | 1/1455 (0.1%)      |
| 39  | DT    | 0.68         | 0/1072            | 0.81        | 0/1437             |
| 40  | BU    | 1.10         | 1/977 (0.1%)      | 1.09        | 5/1301 (0.4%)      |
| 40  | DU    | 0.70         | 0/977             | 0.87        | 0/1301             |
| 41  | BV    | 1.02         | 0/777             | 1.10        | 1/1044 (0.1%)      |
| 41  | DV    | 0.67         | 0/781             | 0.86        | 1/1048 (0.1%)      |
| 42  | BW    | 1.05         | 1/901 (0.1%)      | 1.10        | 3/1209 (0.2%)      |
| 42  | DW    | 0.77         | 0/887             | 0.90        | 2/1192 (0.2%)      |
| 43  | BX    | 0.99         | 0/756             | 1.06        | 2/1016 (0.2%)      |
| 43  | DX    | 0.75         | 0/746             | 0.88        | 1/1005 (0.1%)      |
| 44  | BY    | 0.85         | 0/798             | 1.03        | 2/1073 (0.2%)      |
| 44  | DY    | 0.64         | 0/794             | 0.87        | 0/1067             |
| 45  | BZ    | 0.80         | 0/1486            | 0.94        | 2/2022 (0.1%)      |
| 45  | DZ    | 0.58         | 0/1483            | 0.80        | 0/2023             |
| 46  | B0    | 0.95         | 0/602             | 1.10        | 3/804 (0.4%)       |
| 46  | D0    | 0.64         | 0/615             | 0.89        | 0/820              |
| 47  | B1    | 0.94         | 0/752             | 1.07        | 1/1003 (0.1%)      |
| 47  | D1    | 0.70         | 0/752             | 0.92        | 2/1003 (0.2%)      |
| 48  | B2    | 0.96         | 2/590 (0.3%)      | 1.00        | 1/781 (0.1%)       |
| 48  | D2    | 0.63         | 0/586             | 0.79        | 1/779 (0.1%)       |
| 49  | B3    | 1.02         | 0/463             | 1.07        | 0/623              |
| 49  | D3    | 0.57         | 0/458             | 0.79        | 0/616              |
| 50  | B4    | 0.62         | 0/358             | 0.97        | 2/487 (0.4%)       |
| 50  | D4    | 0.66         | 0/358             | 0.82        | 1/487 (0.2%)       |
| 51  | B5    | 1.01         | 1/469 (0.2%)      | 1.09        | 2/634 (0.3%)       |
| 51  | D5    | 0.69         | 0/465             | 0.90        | 0/630              |
| 52  | B6    | 0.96         | 0/456             | 1.09        | 2/609 (0.3%)       |
| 52  | D6    | 0.73         | 0/444             | 0.87        | 0/595              |
| 53  | B7    | 1.10         | 0/426             | 1.21        | 4/561 (0.7%)       |
| 53  | D7    | 0.78         | 0/410             | 0.88        | 0/543              |
| 54  | B8    | 0.99         | 0/516             | 1.14        | 2/679 (0.3%)       |
| 54  | D8    | 0.75         | 0/516             | 0.93        | 0/679              |
| 55  | B9    | 1.07         | 1/300 (0.3%)      | 1.25        | 3/395 (0.8%)       |
| 55  | D9    | 0.68         | 0/295             | 0.87        | 0/390              |
| All | All   | 1.07         | 699/303213 (0.2%) | 1.58        | 7364/453838 (1.6%) |

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

| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 1   | AA    | 0                   | 1                   |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 1   | CA    | 0                   | 1                   |
| 2   | AB    | 0                   | 4                   |
| 2   | CB    | 0                   | 2                   |
| 3   | AC    | 0                   | 2                   |
| 4   | AD    | 0                   | 4                   |
| 4   | CD    | 0                   | 5                   |
| 5   | AE    | 0                   | 2                   |
| 5   | CE    | 0                   | 1                   |
| 7   | AG    | 0                   | 1                   |
| 7   | CG    | 0                   | 1                   |
| 9   | AI    | 0                   | 3                   |
| 10  | AJ    | 0                   | 2                   |
| 10  | CJ    | 0                   | 2                   |
| 11  | AK    | 0                   | 1                   |
| 12  | AL    | 0                   | 1                   |
| 13  | AM    | 0                   | 3                   |
| 13  | CM    | 0                   | 2                   |
| 14  | CN    | 0                   | 1                   |
| 16  | CP    | 0                   | 1                   |
| 18  | AR    | 0                   | 1                   |
| 20  | AT    | 0                   | 2                   |
| 20  | CT    | 0                   | 2                   |
| 21  | CU    | 0                   | 1                   |
| 22  | AY    | 0                   | 1                   |
| 27  | BD    | 0                   | 2                   |
| 28  | BE    | 0                   | 2                   |
| 28  | DE    | 0                   | 1                   |
| 29  | BF    | 0                   | 2                   |
| 29  | DF    | 0                   | 1                   |
| 30  | DG    | 0                   | 3                   |
| 31  | DH    | 0                   | 1                   |
| 32  | BI    | 0                   | 3                   |
| 34  | BO    | 0                   | 1                   |
| 34  | DO    | 0                   | 1                   |
| 35  | BP    | 0                   | 1                   |
| 35  | DP    | 0                   | 1                   |
| 36  | BQ    | 0                   | 2                   |
| 36  | DQ    | 0                   | 1                   |
| 38  | BS    | 0                   | 1                   |
| 38  | DS    | 0                   | 1                   |
| 39  | BT    | 0                   | 1                   |
| 39  | DT    | 0                   | 1                   |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 43  | BX    | 0                   | 1                   |
| 45  | BZ    | 0                   | 1                   |
| 47  | B1    | 0                   | 1                   |
| 47  | D1    | 0                   | 1                   |
| 48  | D2    | 0                   | 1                   |
| 50  | B4    | 0                   | 1                   |
| 50  | D4    | 0                   | 1                   |
| 51  | B5    | 0                   | 1                   |
| 52  | D6    | 0                   | 1                   |
| All | All   | 0                   | 82                  |

The worst 5 of 699 bond length outliers are listed below:

| Mol | Chain | Res     | Type | Atoms | Z      | Observed(Å) | Ideal(Å) |
|-----|-------|---------|------|-------|--------|-------------|----------|
| 25  | BA    | 1142(A) | A    | N9-C4 | -17.94 | 1.27        | 1.37     |
| 25  | BA    | 528     | A    | N9-C4 | -17.30 | 1.27        | 1.37     |
| 1   | CA    | 189(D)  | C    | N3-C4 | -15.70 | 1.23        | 1.33     |
| 25  | BA    | 676     | A    | N9-C4 | -15.14 | 1.28        | 1.37     |
| 25  | BA    | 1021    | A    | N9-C4 | -14.78 | 1.28        | 1.37     |

The worst 5 of 7364 bond angle outliers are listed below:

| Mol | Chain | Res    | Type | Atoms    | Z       | Observed(°) | Ideal(°) |
|-----|-------|--------|------|----------|---------|-------------|----------|
| 1   | AA    | 189(D) | C    | N3-C4-N4 | -102.71 | 46.10       | 118.00   |
| 1   | CA    | 189(D) | C    | N1-C2-O2 | 44.80   | 145.78      | 118.90   |
| 1   | CA    | 189(D) | C    | N3-C4-N4 | -44.60  | 86.78       | 118.00   |
| 1   | AA    | 189(D) | C    | C2-N3-C4 | 43.68   | 141.74      | 119.90   |
| 1   | AA    | 189(D) | C    | C5-C4-N4 | 42.13   | 149.69      | 120.20   |

There are no chirality outliers.

5 of 82 planarity outliers are listed below:

| Mol | Chain | Res    | Type | Group     |
|-----|-------|--------|------|-----------|
| 1   | AA    | 189(D) | C    | Sidechain |
| 2   | AB    | 14     | GLY  | Peptide   |
| 2   | AB    | 23     | ARG  | Peptide   |
| 2   | AB    | 71     | VAL  | Peptide   |
| 2   | AB    | 76     | GLN  | Peptide   |

## 5.2 Too-close contacts [i](#)

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1   | AA    | 31513 | 0        | 15906    | 882     | 0            |
| 1   | CA    | 31406 | 0        | 15852    | 823     | 0            |
| 2   | AB    | 1809  | 0        | 1781     | 104     | 0            |
| 2   | CB    | 1817  | 0        | 1785     | 126     | 0            |
| 3   | AC    | 1434  | 0        | 1299     | 59      | 0            |
| 3   | CC    | 1453  | 0        | 1320     | 64      | 0            |
| 4   | AD    | 1520  | 0        | 1407     | 80      | 0            |
| 4   | CD    | 1537  | 0        | 1430     | 81      | 1            |
| 5   | AE    | 1105  | 0        | 1130     | 50      | 0            |
| 5   | CE    | 1115  | 0        | 1145     | 55      | 0            |
| 6   | AF    | 781   | 0        | 741      | 36      | 1            |
| 6   | CF    | 784   | 0        | 739      | 30      | 0            |
| 7   | AG    | 1152  | 0        | 1098     | 58      | 0            |
| 7   | CG    | 1149  | 0        | 1096     | 52      | 0            |
| 8   | AH    | 1045  | 0        | 1033     | 52      | 0            |
| 8   | CH    | 1049  | 0        | 1037     | 52      | 0            |
| 9   | AI    | 863   | 0        | 760      | 54      | 0            |
| 9   | CI    | 849   | 0        | 735      | 54      | 0            |
| 10  | AJ    | 659   | 0        | 552      | 38      | 0            |
| 10  | CJ    | 657   | 0        | 547      | 40      | 0            |
| 11  | AK    | 843   | 0        | 841      | 34      | 0            |
| 11  | CK    | 828   | 0        | 822      | 31      | 0            |
| 12  | AL    | 909   | 0        | 927      | 50      | 0            |
| 12  | CL    | 905   | 0        | 916      | 30      | 0            |
| 13  | AM    | 814   | 0        | 765      | 47      | 0            |
| 13  | CM    | 784   | 0        | 730      | 51      | 0            |
| 14  | AN    | 473   | 0        | 491      | 39      | 0            |
| 14  | CN    | 469   | 0        | 482      | 37      | 0            |
| 15  | AO    | 724   | 0        | 749      | 34      | 0            |
| 15  | CO    | 724   | 0        | 749      | 30      | 0            |
| 16  | AP    | 646   | 0        | 636      | 42      | 0            |
| 16  | CP    | 661   | 0        | 653      | 45      | 0            |
| 17  | AQ    | 823   | 0        | 891      | 52      | 0            |
| 17  | CQ    | 819   | 0        | 880      | 38      | 0            |
| 18  | AR    | 514   | 0        | 530      | 27      | 0            |
| 18  | CR    | 514   | 0        | 530      | 21      | 0            |
| 19  | AS    | 560   | 0        | 466      | 24      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 19  | CS    | 529   | 0        | 443      | 22      | 0            |
| 20  | AT    | 714   | 0        | 775      | 41      | 0            |
| 20  | CT    | 773   | 0        | 836      | 32      | 0            |
| 21  | AU    | 217   | 0        | 234      | 7       | 0            |
| 21  | CU    | 180   | 0        | 173      | 4       | 0            |
| 22  | AY    | 1031  | 0        | 1087     | 85      | 0            |
| 23  | AV    | 1644  | 0        | 836      | 23      | 0            |
| 23  | CV    | 1644  | 0        | 836      | 38      | 0            |
| 24  | AX    | 131   | 0        | 66       | 4       | 0            |
| 24  | CX    | 131   | 0        | 66       | 2       | 0            |
| 25  | BA    | 59281 | 0        | 29884    | 1053    | 0            |
| 25  | DA    | 58627 | 0        | 29570    | 1197    | 0            |
| 26  | BB    | 2573  | 0        | 1306     | 47      | 0            |
| 26  | DB    | 2573  | 0        | 1306     | 83      | 0            |
| 27  | BD    | 2131  | 0        | 2207     | 97      | 0            |
| 27  | DD    | 2136  | 0        | 2218     | 104     | 0            |
| 28  | BE    | 1555  | 0        | 1607     | 65      | 0            |
| 28  | DE    | 1555  | 0        | 1607     | 72      | 0            |
| 29  | BF    | 1576  | 0        | 1616     | 71      | 0            |
| 29  | DF    | 1578  | 0        | 1623     | 96      | 0            |
| 30  | BG    | 1368  | 0        | 1324     | 52      | 0            |
| 30  | DG    | 1361  | 0        | 1316     | 76      | 0            |
| 31  | BH    | 1317  | 0        | 1376     | 52      | 0            |
| 31  | DH    | 1317  | 0        | 1376     | 59      | 0            |
| 32  | BI    | 1066  | 0        | 1095     | 47      | 0            |
| 32  | DI    | 1057  | 0        | 1087     | 56      | 0            |
| 33  | BN    | 1112  | 0        | 1180     | 49      | 0            |
| 33  | DN    | 1112  | 0        | 1180     | 64      | 0            |
| 34  | BO    | 923   | 0        | 981      | 37      | 0            |
| 34  | DO    | 923   | 0        | 981      | 38      | 0            |
| 35  | BP    | 1131  | 0        | 1201     | 61      | 0            |
| 35  | DP    | 1131  | 0        | 1201     | 66      | 0            |
| 36  | BQ    | 1122  | 0        | 1179     | 46      | 0            |
| 36  | DQ    | 1122  | 0        | 1179     | 66      | 0            |
| 37  | BR    | 968   | 0        | 1033     | 42      | 0            |
| 37  | DR    | 968   | 0        | 1033     | 56      | 0            |
| 38  | BS    | 865   | 0        | 905      | 53      | 0            |
| 38  | DS    | 873   | 0        | 927      | 64      | 0            |
| 39  | BT    | 1072  | 0        | 1116     | 31      | 0            |
| 39  | DT    | 1058  | 0        | 1098     | 35      | 0            |
| 40  | BU    | 959   | 0        | 1019     | 35      | 0            |
| 40  | DU    | 959   | 0        | 1019     | 49      | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 41  | BV    | 766   | 0        | 827      | 24      | 0            |
| 41  | DV    | 770   | 0        | 838      | 40      | 0            |
| 42  | BW    | 890   | 0        | 951      | 33      | 0            |
| 42  | DW    | 877   | 0        | 932      | 32      | 0            |
| 43  | BX    | 742   | 0        | 799      | 36      | 0            |
| 43  | DX    | 732   | 0        | 777      | 17      | 0            |
| 44  | BY    | 785   | 0        | 828      | 25      | 0            |
| 44  | DY    | 781   | 0        | 829      | 42      | 0            |
| 45  | BZ    | 1454  | 0        | 1452     | 66      | 0            |
| 45  | DZ    | 1451  | 0        | 1421     | 72      | 0            |
| 46  | B0    | 594   | 0        | 604      | 30      | 0            |
| 46  | D0    | 607   | 0        | 622      | 39      | 0            |
| 47  | B1    | 745   | 0        | 804      | 33      | 0            |
| 47  | D1    | 745   | 0        | 804      | 37      | 0            |
| 48  | B2    | 588   | 0        | 643      | 28      | 0            |
| 48  | D2    | 584   | 0        | 623      | 26      | 0            |
| 49  | B3    | 458   | 0        | 503      | 16      | 0            |
| 49  | D3    | 453   | 0        | 501      | 28      | 0            |
| 50  | B4    | 349   | 0        | 336      | 22      | 0            |
| 50  | D4    | 349   | 0        | 336      | 19      | 0            |
| 51  | B5    | 455   | 0        | 472      | 20      | 0            |
| 51  | D5    | 451   | 0        | 461      | 25      | 0            |
| 52  | B6    | 449   | 0        | 462      | 25      | 0            |
| 52  | D6    | 437   | 0        | 440      | 16      | 0            |
| 53  | B7    | 418   | 0        | 467      | 22      | 0            |
| 53  | D7    | 402   | 0        | 434      | 11      | 0            |
| 54  | B8    | 509   | 0        | 565      | 24      | 0            |
| 54  | D8    | 509   | 0        | 565      | 26      | 0            |
| 55  | B9    | 297   | 0        | 316      | 16      | 0            |
| 55  | D9    | 292   | 0        | 313      | 14      | 0            |
| 56  | AA    | 348   | 0        | 0        | 0       | 0            |
| 56  | AD    | 2     | 0        | 0        | 0       | 0            |
| 56  | AE    | 1     | 0        | 0        | 0       | 0            |
| 56  | AF    | 1     | 0        | 0        | 0       | 0            |
| 56  | AI    | 2     | 0        | 0        | 0       | 0            |
| 56  | AK    | 1     | 0        | 0        | 0       | 0            |
| 56  | AT    | 1     | 0        | 0        | 0       | 0            |
| 56  | AV    | 18    | 0        | 0        | 0       | 0            |
| 56  | AY    | 1     | 0        | 0        | 0       | 0            |
| 56  | B0    | 5     | 0        | 0        | 0       | 0            |
| 56  | B1    | 3     | 0        | 0        | 0       | 0            |
| 56  | B2    | 2     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 56  | B3    | 2     | 0        | 0        | 0       | 0            |
| 56  | B5    | 3     | 0        | 0        | 0       | 0            |
| 56  | B6    | 1     | 0        | 0        | 0       | 0            |
| 56  | B7    | 1     | 0        | 0        | 0       | 0            |
| 56  | B8    | 2     | 0        | 0        | 0       | 0            |
| 56  | B9    | 1     | 0        | 0        | 0       | 0            |
| 56  | BA    | 896   | 0        | 0        | 0       | 0            |
| 56  | BB    | 30    | 0        | 0        | 0       | 0            |
| 56  | BD    | 5     | 0        | 0        | 0       | 0            |
| 56  | BE    | 5     | 0        | 0        | 0       | 0            |
| 56  | BF    | 7     | 0        | 0        | 0       | 0            |
| 56  | BG    | 2     | 0        | 0        | 0       | 0            |
| 56  | BO    | 2     | 0        | 0        | 0       | 0            |
| 56  | BP    | 2     | 0        | 0        | 0       | 0            |
| 56  | BQ    | 4     | 0        | 0        | 0       | 0            |
| 56  | BR    | 2     | 0        | 0        | 0       | 0            |
| 56  | BT    | 1     | 0        | 0        | 0       | 0            |
| 56  | BU    | 1     | 0        | 0        | 0       | 0            |
| 56  | BV    | 2     | 0        | 0        | 0       | 0            |
| 56  | BX    | 1     | 0        | 0        | 0       | 0            |
| 56  | BY    | 2     | 0        | 0        | 0       | 0            |
| 56  | BZ    | 2     | 0        | 0        | 0       | 0            |
| 56  | CA    | 219   | 0        | 0        | 0       | 0            |
| 56  | CD    | 1     | 0        | 0        | 0       | 0            |
| 56  | CT    | 1     | 0        | 0        | 0       | 0            |
| 56  | CV    | 10    | 0        | 0        | 0       | 0            |
| 56  | CX    | 1     | 0        | 0        | 0       | 0            |
| 56  | D0    | 4     | 0        | 0        | 0       | 0            |
| 56  | D1    | 1     | 0        | 0        | 0       | 0            |
| 56  | D5    | 1     | 0        | 0        | 0       | 0            |
| 56  | D6    | 2     | 0        | 0        | 0       | 0            |
| 56  | D7    | 1     | 0        | 0        | 0       | 0            |
| 56  | D8    | 1     | 0        | 0        | 0       | 0            |
| 56  | DA    | 696   | 0        | 0        | 0       | 0            |
| 56  | DB    | 16    | 0        | 0        | 0       | 0            |
| 56  | DD    | 4     | 0        | 0        | 0       | 0            |
| 56  | DE    | 4     | 0        | 0        | 0       | 0            |
| 56  | DF    | 3     | 0        | 0        | 0       | 0            |
| 56  | DO    | 3     | 0        | 0        | 0       | 0            |
| 56  | DQ    | 2     | 0        | 0        | 0       | 0            |
| 56  | DR    | 1     | 0        | 0        | 0       | 0            |
| 56  | DT    | 3     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 56  | DU    | 1     | 0        | 0        | 0       | 0            |
| 56  | DV    | 1     | 0        | 0        | 0       | 0            |
| 56  | DX    | 1     | 0        | 0        | 0       | 0            |
| 57  | AD    | 1     | 0        | 0        | 0       | 0            |
| 57  | AN    | 1     | 0        | 0        | 0       | 0            |
| 57  | B4    | 1     | 0        | 0        | 0       | 0            |
| 57  | B5    | 1     | 0        | 0        | 0       | 0            |
| 57  | B6    | 1     | 0        | 0        | 0       | 0            |
| 57  | B9    | 1     | 0        | 0        | 0       | 0            |
| 57  | BY    | 1     | 0        | 0        | 0       | 0            |
| 57  | CD    | 1     | 0        | 0        | 0       | 0            |
| 57  | CN    | 1     | 0        | 0        | 0       | 0            |
| 57  | D4    | 1     | 0        | 0        | 0       | 0            |
| 57  | D5    | 1     | 0        | 0        | 0       | 0            |
| 57  | D6    | 1     | 0        | 0        | 0       | 0            |
| 57  | D9    | 1     | 0        | 0        | 0       | 0            |
| 57  | DY    | 1     | 0        | 0        | 0       | 0            |
| 58  | AA    | 372   | 0        | 0        | 22      | 0            |
| 58  | AD    | 2     | 0        | 0        | 0       | 0            |
| 58  | AE    | 3     | 0        | 0        | 0       | 0            |
| 58  | AI    | 1     | 0        | 0        | 1       | 0            |
| 58  | AK    | 2     | 0        | 0        | 0       | 0            |
| 58  | AL    | 2     | 0        | 0        | 0       | 0            |
| 58  | AN    | 1     | 0        | 0        | 0       | 0            |
| 58  | AT    | 5     | 0        | 0        | 1       | 0            |
| 58  | AV    | 16    | 0        | 0        | 1       | 0            |
| 58  | AX    | 1     | 0        | 0        | 0       | 0            |
| 58  | AY    | 2     | 0        | 0        | 1       | 0            |
| 58  | B0    | 4     | 0        | 0        | 0       | 0            |
| 58  | B1    | 1     | 0        | 0        | 0       | 0            |
| 58  | B3    | 1     | 0        | 0        | 0       | 0            |
| 58  | B6    | 4     | 0        | 0        | 0       | 0            |
| 58  | B7    | 2     | 0        | 0        | 0       | 0            |
| 58  | B8    | 4     | 0        | 0        | 1       | 0            |
| 58  | B9    | 1     | 0        | 0        | 0       | 0            |
| 58  | BA    | 1491  | 0        | 0        | 71      | 0            |
| 58  | BB    | 46    | 0        | 0        | 1       | 0            |
| 58  | BD    | 10    | 0        | 0        | 0       | 0            |
| 58  | BE    | 5     | 0        | 0        | 0       | 0            |
| 58  | BF    | 5     | 0        | 0        | 0       | 0            |
| 58  | BG    | 5     | 0        | 0        | 1       | 0            |
| 58  | BH    | 1     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 58  | BN    | 3     | 0        | 0        | 0       | 0            |
| 58  | BO    | 3     | 0        | 0        | 0       | 0            |
| 58  | BP    | 9     | 0        | 0        | 2       | 0            |
| 58  | BQ    | 4     | 0        | 0        | 0       | 0            |
| 58  | BR    | 7     | 0        | 0        | 0       | 0            |
| 58  | BT    | 1     | 0        | 0        | 0       | 0            |
| 58  | BU    | 7     | 0        | 0        | 1       | 0            |
| 58  | BV    | 1     | 0        | 0        | 0       | 0            |
| 58  | BW    | 2     | 0        | 0        | 0       | 0            |
| 58  | BX    | 2     | 0        | 0        | 0       | 0            |
| 58  | BY    | 1     | 0        | 0        | 0       | 0            |
| 58  | CA    | 330   | 0        | 0        | 17      | 0            |
| 58  | CB    | 1     | 0        | 0        | 1       | 0            |
| 58  | CC    | 1     | 0        | 0        | 0       | 0            |
| 58  | CD    | 3     | 0        | 0        | 0       | 0            |
| 58  | CE    | 1     | 0        | 0        | 0       | 0            |
| 58  | CK    | 2     | 0        | 0        | 0       | 0            |
| 58  | CL    | 3     | 0        | 0        | 1       | 0            |
| 58  | CN    | 2     | 0        | 0        | 0       | 0            |
| 58  | CO    | 2     | 0        | 0        | 1       | 0            |
| 58  | CQ    | 2     | 0        | 0        | 1       | 0            |
| 58  | CT    | 2     | 0        | 0        | 0       | 0            |
| 58  | CV    | 13    | 0        | 0        | 0       | 0            |
| 58  | CX    | 1     | 0        | 0        | 0       | 0            |
| 58  | D1    | 3     | 0        | 0        | 1       | 0            |
| 58  | D3    | 1     | 0        | 0        | 0       | 0            |
| 58  | D6    | 2     | 0        | 0        | 0       | 0            |
| 58  | D7    | 2     | 0        | 0        | 0       | 0            |
| 58  | D8    | 4     | 0        | 0        | 1       | 0            |
| 58  | DA    | 1028  | 0        | 0        | 63      | 0            |
| 58  | DB    | 40    | 0        | 0        | 2       | 0            |
| 58  | DD    | 8     | 0        | 0        | 0       | 0            |
| 58  | DE    | 11    | 0        | 0        | 1       | 0            |
| 58  | DF    | 4     | 0        | 0        | 0       | 0            |
| 58  | DG    | 1     | 0        | 0        | 0       | 0            |
| 58  | DN    | 3     | 0        | 0        | 0       | 0            |
| 58  | DO    | 5     | 0        | 0        | 1       | 0            |
| 58  | DP    | 4     | 0        | 0        | 0       | 0            |
| 58  | DR    | 5     | 0        | 0        | 1       | 0            |
| 58  | DT    | 3     | 0        | 0        | 0       | 0            |
| 58  | DV    | 1     | 0        | 0        | 0       | 0            |
| 58  | DW    | 1     | 0        | 0        | 0       | 0            |

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| Mol | Chain | Non-H  | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|--------|----------|----------|---------|--------------|
| 58  | DY    | 2      | 0        | 0        | 0       | 0            |
| All | All   | 284877 | 0        | 186478   | 7600    | 1            |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

The worst 5 of 7600 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1          | Atom-2            | Interatomic distance (Å) | Clash overlap (Å) |
|-----------------|-------------------|--------------------------|-------------------|
| 55:D9:11:CYS:SG | 55:D9:32:HIS:HE1  | 1.40                     | 1.43              |
| 25:DA:885:C:N4  | 25:DA:890:A:N6    | 1.81                     | 1.27              |
| 25:BA:885:C:N4  | 25:BA:890:A:N6    | 1.88                     | 1.22              |
| 1:CA:1358:U:H3  | 1:CA:1363(A):A:N6 | 1.35                     | 1.22              |
| 1:AA:1358:U:H3  | 1:AA:1363(A):A:N6 | 1.41                     | 1.16              |

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

| Atom-1        | Atom-2                | Interatomic distance (Å) | Clash overlap (Å) |
|---------------|-----------------------|--------------------------|-------------------|
| 6:AF:14:LEU:O | 4:CD:20:TYR:OH[3_654] | 2.11                     | 0.09              |

## 5.3 Torsion angles [i](#)

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

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

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

| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |
|-----|-------|---------------|-----------|----------|----------|-------------|
| 2   | AB    | 231/256 (90%) | 179 (78%) | 50 (22%) | 2 (1%)   | 17 56       |
| 2   | CB    | 233/256 (91%) | 182 (78%) | 45 (19%) | 6 (3%)   | 5 31        |
| 3   | AC    | 202/239 (84%) | 165 (82%) | 33 (16%) | 4 (2%)   | 7 38        |
| 3   | CC    | 204/239 (85%) | 168 (82%) | 36 (18%) | 0        | 100 100     |
| 4   | AD    | 206/209 (99%) | 166 (81%) | 35 (17%) | 5 (2%)   | 6 34        |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 4   | CD    | 206/209 (99%) | 178 (86%) | 23 (11%) | 5 (2%)   | 6           | 34  |
| 5   | AE    | 146/162 (90%) | 120 (82%) | 26 (18%) | 0        | 100         | 100 |
| 5   | CE    | 147/162 (91%) | 129 (88%) | 13 (9%)  | 5 (3%)   | 3           | 24  |
| 6   | AF    | 98/101 (97%)  | 95 (97%)  | 3 (3%)   | 0        | 100         | 100 |
| 6   | CF    | 98/101 (97%)  | 89 (91%)  | 9 (9%)   | 0        | 100         | 100 |
| 7   | AG    | 152/156 (97%) | 134 (88%) | 17 (11%) | 1 (1%)   | 22          | 61  |
| 7   | CG    | 152/156 (97%) | 131 (86%) | 20 (13%) | 1 (1%)   | 22          | 61  |
| 8   | AH    | 136/138 (99%) | 122 (90%) | 13 (10%) | 1 (1%)   | 22          | 61  |
| 8   | CH    | 136/138 (99%) | 126 (93%) | 10 (7%)  | 0        | 100         | 100 |
| 9   | AI    | 123/128 (96%) | 105 (85%) | 15 (12%) | 3 (2%)   | 6           | 34  |
| 9   | CI    | 123/128 (96%) | 106 (86%) | 13 (11%) | 4 (3%)   | 4           | 25  |
| 10  | AJ    | 94/105 (90%)  | 81 (86%)  | 9 (10%)  | 4 (4%)   | 2           | 20  |
| 10  | CJ    | 94/105 (90%)  | 74 (79%)  | 17 (18%) | 3 (3%)   | 4           | 26  |
| 11  | AK    | 113/129 (88%) | 101 (89%) | 11 (10%) | 1 (1%)   | 17          | 56  |
| 11  | CK    | 112/129 (87%) | 98 (88%)  | 14 (12%) | 0        | 100         | 100 |
| 12  | AL    | 120/132 (91%) | 108 (90%) | 10 (8%)  | 2 (2%)   | 9           | 42  |
| 12  | CL    | 120/132 (91%) | 111 (92%) | 7 (6%)   | 2 (2%)   | 9           | 42  |
| 13  | AM    | 113/126 (90%) | 89 (79%)  | 20 (18%) | 4 (4%)   | 3           | 24  |
| 13  | CM    | 110/126 (87%) | 82 (74%)  | 21 (19%) | 7 (6%)   | 1           | 10  |
| 14  | AN    | 57/61 (93%)   | 44 (77%)  | 13 (23%) | 0        | 100         | 100 |
| 14  | CN    | 57/61 (93%)   | 48 (84%)  | 8 (14%)  | 1 (2%)   | 8           | 41  |
| 15  | AO    | 86/89 (97%)   | 74 (86%)  | 12 (14%) | 0        | 100         | 100 |
| 15  | CO    | 86/89 (97%)   | 75 (87%)  | 11 (13%) | 0        | 100         | 100 |
| 16  | AP    | 79/88 (90%)   | 62 (78%)  | 14 (18%) | 3 (4%)   | 3           | 22  |
| 16  | CP    | 80/88 (91%)   | 66 (82%)  | 10 (12%) | 4 (5%)   | 2           | 16  |
| 17  | AQ    | 97/105 (92%)  | 83 (86%)  | 13 (13%) | 1 (1%)   | 15          | 54  |
| 17  | CQ    | 97/105 (92%)  | 83 (86%)  | 13 (13%) | 1 (1%)   | 15          | 54  |
| 18  | AR    | 66/88 (75%)   | 56 (85%)  | 10 (15%) | 0        | 100         | 100 |
| 18  | CR    | 66/88 (75%)   | 58 (88%)  | 8 (12%)  | 0        | 100         | 100 |
| 19  | AS    | 79/93 (85%)   | 63 (80%)  | 15 (19%) | 1 (1%)   | 12          | 47  |
| 19  | CS    | 73/93 (78%)   | 60 (82%)  | 13 (18%) | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 20  | AT    | 94/106 (89%)  | 73 (78%)  | 19 (20%) | 2 (2%)   | 7           | 37  |
| 20  | CT    | 102/106 (96%) | 73 (72%)  | 26 (26%) | 3 (3%)   | 4           | 28  |
| 21  | AU    | 23/27 (85%)   | 21 (91%)  | 2 (9%)   | 0        | 100         | 100 |
| 21  | CU    | 21/27 (78%)   | 19 (90%)  | 2 (10%)  | 0        | 100         | 100 |
| 22  | AY    | 130/140 (93%) | 107 (82%) | 21 (16%) | 2 (2%)   | 10          | 44  |
| 27  | BD    | 273/276 (99%) | 254 (93%) | 19 (7%)  | 0        | 100         | 100 |
| 27  | DD    | 273/276 (99%) | 255 (93%) | 16 (6%)  | 2 (1%)   | 22          | 61  |
| 28  | BE    | 202/206 (98%) | 189 (94%) | 9 (4%)   | 4 (2%)   | 7           | 38  |
| 28  | DE    | 202/206 (98%) | 187 (93%) | 12 (6%)  | 3 (2%)   | 10          | 44  |
| 29  | BF    | 198/210 (94%) | 183 (92%) | 15 (8%)  | 0        | 100         | 100 |
| 29  | DF    | 198/210 (94%) | 175 (88%) | 23 (12%) | 0        | 100         | 100 |
| 30  | BG    | 179/182 (98%) | 158 (88%) | 17 (10%) | 4 (2%)   | 6           | 35  |
| 30  | DG    | 178/182 (98%) | 150 (84%) | 28 (16%) | 0        | 100         | 100 |
| 31  | BH    | 172/180 (96%) | 160 (93%) | 12 (7%)  | 0        | 100         | 100 |
| 31  | DH    | 172/180 (96%) | 153 (89%) | 17 (10%) | 2 (1%)   | 13          | 49  |
| 32  | BI    | 145/148 (98%) | 116 (80%) | 25 (17%) | 4 (3%)   | 5           | 29  |
| 32  | DI    | 144/148 (97%) | 119 (83%) | 23 (16%) | 2 (1%)   | 11          | 46  |
| 33  | BN    | 138/140 (99%) | 124 (90%) | 11 (8%)  | 3 (2%)   | 6           | 35  |
| 33  | DN    | 138/140 (99%) | 117 (85%) | 19 (14%) | 2 (1%)   | 11          | 46  |
| 34  | BO    | 120/122 (98%) | 113 (94%) | 6 (5%)   | 1 (1%)   | 19          | 58  |
| 34  | DO    | 120/122 (98%) | 112 (93%) | 8 (7%)   | 0        | 100         | 100 |
| 35  | BP    | 147/150 (98%) | 128 (87%) | 17 (12%) | 2 (1%)   | 11          | 46  |
| 35  | DP    | 147/150 (98%) | 130 (88%) | 15 (10%) | 2 (1%)   | 11          | 46  |
| 36  | BQ    | 139/141 (99%) | 127 (91%) | 10 (7%)  | 2 (1%)   | 11          | 46  |
| 36  | DQ    | 139/141 (99%) | 121 (87%) | 18 (13%) | 0        | 100         | 100 |
| 37  | BR    | 116/118 (98%) | 107 (92%) | 9 (8%)   | 0        | 100         | 100 |
| 37  | DR    | 116/118 (98%) | 102 (88%) | 14 (12%) | 0        | 100         | 100 |
| 38  | BS    | 108/112 (96%) | 93 (86%)  | 12 (11%) | 3 (3%)   | 5           | 29  |
| 38  | DS    | 108/112 (96%) | 88 (82%)  | 18 (17%) | 2 (2%)   | 8           | 39  |
| 39  | BT    | 130/146 (89%) | 124 (95%) | 6 (5%)   | 0        | 100         | 100 |
| 39  | DT    | 128/146 (88%) | 119 (93%) | 9 (7%)   | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 40  | BU    | 114/118 (97%) | 111 (97%) | 3 (3%)   | 0        | 100         | 100 |
| 40  | DU    | 114/118 (97%) | 107 (94%) | 7 (6%)   | 0        | 100         | 100 |
| 41  | BV    | 98/101 (97%)  | 93 (95%)  | 5 (5%)   | 0        | 100         | 100 |
| 41  | DV    | 98/101 (97%)  | 89 (91%)  | 9 (9%)   | 0        | 100         | 100 |
| 42  | BW    | 110/113 (97%) | 104 (94%) | 6 (6%)   | 0        | 100         | 100 |
| 42  | DW    | 109/113 (96%) | 97 (89%)  | 12 (11%) | 0        | 100         | 100 |
| 43  | BX    | 93/96 (97%)   | 87 (94%)  | 6 (6%)   | 0        | 100         | 100 |
| 43  | DX    | 93/96 (97%)   | 84 (90%)  | 9 (10%)  | 0        | 100         | 100 |
| 44  | BY    | 105/110 (96%) | 94 (90%)  | 10 (10%) | 1 (1%)   | 15          | 54  |
| 44  | DY    | 105/110 (96%) | 96 (91%)  | 8 (8%)   | 1 (1%)   | 15          | 54  |
| 45  | BZ    | 184/206 (89%) | 161 (88%) | 21 (11%) | 2 (1%)   | 14          | 51  |
| 45  | DZ    | 187/206 (91%) | 163 (87%) | 21 (11%) | 3 (2%)   | 9           | 43  |
| 46  | B0    | 74/85 (87%)   | 69 (93%)  | 5 (7%)   | 0        | 100         | 100 |
| 46  | D0    | 75/85 (88%)   | 67 (89%)  | 8 (11%)  | 0        | 100         | 100 |
| 47  | B1    | 95/98 (97%)   | 90 (95%)  | 4 (4%)   | 1 (1%)   | 14          | 51  |
| 47  | D1    | 95/98 (97%)   | 91 (96%)  | 4 (4%)   | 0        | 100         | 100 |
| 48  | B2    | 68/72 (94%)   | 62 (91%)  | 5 (7%)   | 1 (2%)   | 10          | 44  |
| 48  | D2    | 69/72 (96%)   | 60 (87%)  | 9 (13%)  | 0        | 100         | 100 |
| 49  | B3    | 57/60 (95%)   | 54 (95%)  | 2 (4%)   | 1 (2%)   | 8           | 41  |
| 49  | D3    | 56/60 (93%)   | 52 (93%)  | 4 (7%)   | 0        | 100         | 100 |
| 50  | B4    | 44/71 (62%)   | 36 (82%)  | 8 (18%)  | 0        | 100         | 100 |
| 50  | D4    | 44/71 (62%)   | 34 (77%)  | 9 (20%)  | 1 (2%)   | 6           | 34  |
| 51  | B5    | 57/60 (95%)   | 52 (91%)  | 5 (9%)   | 0        | 100         | 100 |
| 51  | D5    | 57/60 (95%)   | 53 (93%)  | 4 (7%)   | 0        | 100         | 100 |
| 52  | B6    | 51/54 (94%)   | 49 (96%)  | 2 (4%)   | 0        | 100         | 100 |
| 52  | D6    | 51/54 (94%)   | 45 (88%)  | 6 (12%)  | 0        | 100         | 100 |
| 53  | B7    | 46/49 (94%)   | 43 (94%)  | 1 (2%)   | 2 (4%)   | 2           | 20  |
| 53  | D7    | 46/49 (94%)   | 41 (89%)  | 4 (9%)   | 1 (2%)   | 6           | 35  |
| 54  | B8    | 62/65 (95%)   | 58 (94%)  | 4 (6%)   | 0        | 100         | 100 |
| 54  | D8    | 62/65 (95%)   | 57 (92%)  | 5 (8%)   | 0        | 100         | 100 |
| 55  | B9    | 34/37 (92%)   | 33 (97%)  | 1 (3%)   | 0        | 100         | 100 |

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| Mol | Chain | Analysed          | Favoured    | Allowed    | Outliers | Percentiles |     |
|-----|-------|-------------------|-------------|------------|----------|-------------|-----|
| 55  | D9    | 33/37 (89%)       | 32 (97%)    | 1 (3%)     | 0        | 100         | 100 |
| All | All   | 11478/12268 (94%) | 10072 (88%) | 1276 (11%) | 130 (1%) | 14          | 51  |

5 of 130 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 2   | AB    | 77  | ALA  |
| 3   | AC    | 99  | VAL  |
| 3   | AC    | 100 | ALA  |
| 3   | AC    | 157 | ILE  |
| 4   | AD    | 110 | PHE  |

### 5.3.2 Protein sidechains [i](#)

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

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

| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|----------|-------------|----|
| 2   | AB    | 180/220 (82%) | 127 (71%) | 53 (29%) | 0           | 1  |
| 2   | CB    | 181/220 (82%) | 132 (73%) | 49 (27%) | 0           | 1  |
| 3   | AC    | 112/188 (60%) | 89 (80%)  | 23 (20%) | 1           | 6  |
| 3   | CC    | 114/188 (61%) | 96 (84%)  | 18 (16%) | 2           | 12 |
| 4   | AD    | 139/181 (77%) | 112 (81%) | 27 (19%) | 1           | 7  |
| 4   | CD    | 142/181 (78%) | 112 (79%) | 30 (21%) | 1           | 6  |
| 5   | AE    | 108/123 (88%) | 77 (71%)  | 31 (29%) | 0           | 1  |
| 5   | CE    | 109/123 (89%) | 84 (77%)  | 25 (23%) | 1           | 4  |
| 6   | AF    | 77/90 (86%)   | 64 (83%)  | 13 (17%) | 2           | 10 |
| 6   | CF    | 76/90 (84%)   | 61 (80%)  | 15 (20%) | 1           | 7  |
| 7   | AG    | 103/127 (81%) | 83 (81%)  | 20 (19%) | 1           | 7  |
| 7   | CG    | 102/127 (80%) | 78 (76%)  | 24 (24%) | 1           | 3  |
| 8   | AH    | 103/119 (87%) | 85 (82%)  | 18 (18%) | 2           | 9  |
| 8   | CH    | 104/119 (87%) | 89 (86%)  | 15 (14%) | 3           | 15 |
| 9   | AI    | 64/99 (65%)   | 55 (86%)  | 9 (14%)  | 3           | 16 |

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| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|----------|-------------|----|
| 9   | CI    | 62/99 (63%)   | 52 (84%)  | 10 (16%) | 2           | 11 |
| 10  | AJ    | 52/92 (56%)   | 38 (73%)  | 14 (27%) | 0           | 2  |
| 10  | CJ    | 52/92 (56%)   | 36 (69%)  | 16 (31%) | 0           | 0  |
| 11  | AK    | 83/99 (84%)   | 60 (72%)  | 23 (28%) | 0           | 1  |
| 11  | CK    | 81/99 (82%)   | 61 (75%)  | 20 (25%) | 0           | 2  |
| 12  | AL    | 92/109 (84%)  | 73 (79%)  | 19 (21%) | 1           | 6  |
| 12  | CL    | 91/109 (84%)  | 71 (78%)  | 20 (22%) | 1           | 5  |
| 13  | AM    | 66/101 (65%)  | 44 (67%)  | 22 (33%) | 0           | 0  |
| 13  | CM    | 62/101 (61%)  | 39 (63%)  | 23 (37%) | 0           | 0  |
| 14  | AN    | 46/50 (92%)   | 40 (87%)  | 6 (13%)  | 4           | 19 |
| 14  | CN    | 45/50 (90%)   | 30 (67%)  | 15 (33%) | 0           | 0  |
| 15  | AO    | 77/80 (96%)   | 61 (79%)  | 16 (21%) | 1           | 6  |
| 15  | CO    | 77/80 (96%)   | 64 (83%)  | 13 (17%) | 2           | 10 |
| 16  | AP    | 63/74 (85%)   | 44 (70%)  | 19 (30%) | 0           | 1  |
| 16  | CP    | 65/74 (88%)   | 49 (75%)  | 16 (25%) | 0           | 2  |
| 17  | AQ    | 94/97 (97%)   | 79 (84%)  | 15 (16%) | 2           | 11 |
| 17  | CQ    | 93/97 (96%)   | 77 (83%)  | 16 (17%) | 2           | 10 |
| 18  | AR    | 49/77 (64%)   | 41 (84%)  | 8 (16%)  | 2           | 11 |
| 18  | CR    | 49/77 (64%)   | 36 (74%)  | 13 (26%) | 0           | 2  |
| 19  | AS    | 43/80 (54%)   | 34 (79%)  | 9 (21%)  | 1           | 6  |
| 19  | CS    | 42/80 (52%)   | 28 (67%)  | 14 (33%) | 0           | 0  |
| 20  | AT    | 66/82 (80%)   | 47 (71%)  | 19 (29%) | 0           | 1  |
| 20  | CT    | 72/82 (88%)   | 56 (78%)  | 16 (22%) | 1           | 4  |
| 21  | AU    | 20/22 (91%)   | 14 (70%)  | 6 (30%)  | 0           | 1  |
| 21  | CU    | 14/22 (64%)   | 13 (93%)  | 1 (7%)   | 14          | 47 |
| 22  | AY    | 108/115 (94%) | 74 (68%)  | 34 (32%) | 0           | 0  |
| 27  | BD    | 214/218 (98%) | 169 (79%) | 45 (21%) | 1           | 6  |
| 27  | DD    | 215/218 (99%) | 167 (78%) | 48 (22%) | 1           | 4  |
| 28  | BE    | 163/166 (98%) | 126 (77%) | 37 (23%) | 1           | 4  |
| 28  | DE    | 163/166 (98%) | 128 (78%) | 35 (22%) | 1           | 5  |
| 29  | BF    | 158/166 (95%) | 123 (78%) | 35 (22%) | 1           | 4  |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 29  | DF    | 159/166 (96%)  | 128 (80%) | 31 (20%) | 1           | 7  |
| 30  | BG    | 128/156 (82%)  | 103 (80%) | 25 (20%) | 1           | 7  |
| 30  | DG    | 127/156 (81%)  | 95 (75%)  | 32 (25%) | 0           | 2  |
| 31  | BH    | 141/148 (95%)  | 113 (80%) | 28 (20%) | 1           | 6  |
| 31  | DH    | 141/148 (95%)  | 111 (79%) | 30 (21%) | 1           | 5  |
| 32  | BI    | 105/124 (85%)  | 75 (71%)  | 30 (29%) | 0           | 1  |
| 32  | DI    | 104/124 (84%)  | 76 (73%)  | 28 (27%) | 0           | 2  |
| 33  | BN    | 117/119 (98%)  | 93 (80%)  | 24 (20%) | 1           | 6  |
| 33  | DN    | 117/119 (98%)  | 90 (77%)  | 27 (23%) | 1           | 3  |
| 34  | BO    | 98/100 (98%)   | 73 (74%)  | 25 (26%) | 0           | 2  |
| 34  | DO    | 98/100 (98%)   | 70 (71%)  | 28 (29%) | 0           | 1  |
| 35  | BP    | 114/116 (98%)  | 87 (76%)  | 27 (24%) | 1           | 3  |
| 35  | DP    | 114/116 (98%)  | 90 (79%)  | 24 (21%) | 1           | 6  |
| 36  | BQ    | 111/111 (100%) | 91 (82%)  | 20 (18%) | 1           | 9  |
| 36  | DQ    | 111/111 (100%) | 93 (84%)  | 18 (16%) | 2           | 11 |
| 37  | BR    | 101/101 (100%) | 79 (78%)  | 22 (22%) | 1           | 5  |
| 37  | DR    | 101/101 (100%) | 79 (78%)  | 22 (22%) | 1           | 5  |
| 38  | BS    | 84/88 (96%)    | 66 (79%)  | 18 (21%) | 1           | 5  |
| 38  | DS    | 86/88 (98%)    | 68 (79%)  | 18 (21%) | 1           | 6  |
| 39  | BT    | 111/127 (87%)  | 90 (81%)  | 21 (19%) | 1           | 8  |
| 39  | DT    | 110/127 (87%)  | 82 (74%)  | 28 (26%) | 0           | 2  |
| 40  | BU    | 93/94 (99%)    | 77 (83%)  | 16 (17%) | 2           | 10 |
| 40  | DU    | 93/94 (99%)    | 77 (83%)  | 16 (17%) | 2           | 10 |
| 41  | BV    | 80/82 (98%)    | 66 (82%)  | 14 (18%) | 2           | 9  |
| 41  | DV    | 81/82 (99%)    | 56 (69%)  | 25 (31%) | 0           | 1  |
| 42  | BW    | 91/92 (99%)    | 71 (78%)  | 20 (22%) | 1           | 5  |
| 42  | DW    | 89/92 (97%)    | 74 (83%)  | 15 (17%) | 2           | 10 |
| 43  | BX    | 75/78 (96%)    | 63 (84%)  | 12 (16%) | 2           | 11 |
| 43  | DX    | 73/78 (94%)    | 61 (84%)  | 12 (16%) | 2           | 11 |
| 44  | BY    | 80/91 (88%)    | 63 (79%)  | 17 (21%) | 1           | 5  |
| 44  | DY    | 79/91 (87%)    | 59 (75%)  | 20 (25%) | 0           | 2  |

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| Mol | Chain | Analysed         | Rotameric  | Outliers   | Percentiles |    |
|-----|-------|------------------|------------|------------|-------------|----|
| 45  | BZ    | 156/179 (87%)    | 128 (82%)  | 28 (18%)   | 2           | 9  |
| 45  | DZ    | 152/179 (85%)    | 119 (78%)  | 33 (22%)   | 1           | 5  |
| 46  | B0    | 59/67 (88%)      | 47 (80%)   | 12 (20%)   | 1           | 6  |
| 46  | D0    | 61/67 (91%)      | 47 (77%)   | 14 (23%)   | 1           | 3  |
| 47  | B1    | 78/83 (94%)      | 61 (78%)   | 17 (22%)   | 1           | 5  |
| 47  | D1    | 78/83 (94%)      | 58 (74%)   | 20 (26%)   | 0           | 2  |
| 48  | B2    | 65/67 (97%)      | 49 (75%)   | 16 (25%)   | 0           | 2  |
| 48  | D2    | 63/67 (94%)      | 50 (79%)   | 13 (21%)   | 1           | 6  |
| 49  | B3    | 49/52 (94%)      | 44 (90%)   | 5 (10%)    | 7           | 29 |
| 49  | D3    | 49/52 (94%)      | 40 (82%)   | 9 (18%)    | 1           | 8  |
| 50  | B4    | 39/63 (62%)      | 28 (72%)   | 11 (28%)   | 0           | 1  |
| 50  | D4    | 39/63 (62%)      | 25 (64%)   | 14 (36%)   | 0           | 0  |
| 51  | B5    | 50/52 (96%)      | 41 (82%)   | 9 (18%)    | 1           | 9  |
| 51  | D5    | 49/52 (94%)      | 39 (80%)   | 10 (20%)   | 1           | 6  |
| 52  | B6    | 50/52 (96%)      | 34 (68%)   | 16 (32%)   | 0           | 0  |
| 52  | D6    | 48/52 (92%)      | 38 (79%)   | 10 (21%)   | 1           | 6  |
| 53  | B7    | 41/42 (98%)      | 32 (78%)   | 9 (22%)    | 1           | 5  |
| 53  | D7    | 38/42 (90%)      | 30 (79%)   | 8 (21%)    | 1           | 6  |
| 54  | B8    | 52/55 (94%)      | 45 (86%)   | 7 (14%)    | 4           | 18 |
| 54  | D8    | 52/55 (94%)      | 43 (83%)   | 9 (17%)    | 2           | 10 |
| 55  | B9    | 32/34 (94%)      | 26 (81%)   | 6 (19%)    | 1           | 8  |
| 55  | D9    | 32/34 (94%)      | 25 (78%)   | 7 (22%)    | 1           | 5  |
| All | All   | 8835/10181 (87%) | 6886 (78%) | 1949 (22%) | 1           | 4  |

5 of 1949 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 47  | B1    | 26  | ARG  |
| 5   | CE    | 112 | LEU  |
| 44  | DY    | 107 | ASP  |
| 48  | B2    | 51  | ARG  |
| 2   | CB    | 80  | ILE  |

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 46 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 45  | BZ    | 54  | HIS  |
| 6   | CF    | 73  | ASN  |
| 46  | D0    | 12  | ASN  |
| 52  | B6    | 20  | ASN  |
| 2   | CB    | 16  | HIS  |

### 5.3.3 RNA [i](#)

| Mol | Chain | Analysed        | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1   | AA    | 1462/1522 (96%) | 386 (26%)         | 33 (2%)         |
| 1   | CA    | 1457/1522 (95%) | 367 (25%)         | 33 (2%)         |
| 23  | AV    | 76/77 (98%)     | 20 (26%)          | 1 (1%)          |
| 23  | CV    | 76/77 (98%)     | 21 (27%)          | 0               |
| 24  | AX    | 5/16 (31%)      | 1 (20%)           | 0               |
| 24  | CX    | 5/16 (31%)      | 0                 | 0               |
| 25  | BA    | 2744/2915 (94%) | 642 (23%)         | 64 (2%)         |
| 25  | DA    | 2711/2915 (93%) | 632 (23%)         | 55 (2%)         |
| 26  | BB    | 119/122 (97%)   | 24 (20%)          | 0               |
| 26  | DB    | 119/122 (97%)   | 26 (21%)          | 2 (1%)          |
| All | All   | 8774/9304 (94%) | 2119 (24%)        | 188 (2%)        |

5 of 2119 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | AA    | 7   | G    |
| 1   | AA    | 9   | G    |
| 1   | AA    | 13  | U    |
| 1   | AA    | 22  | G    |
| 1   | AA    | 28  | G    |

5 of 188 RNA pucker outliers are listed below:

| Mol | Chain | Res  | Type |
|-----|-------|------|------|
| 25  | BA    | 2318 | G    |
| 1   | CA    | 428  | G    |
| 25  | DA    | 2282 | G    |
| 25  | BA    | 2335 | A    |
| 25  | BA    | 2778 | A    |



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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 2350 ligands modelled in this entry, 2350 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data i

### 6.1 Protein, DNA and RNA chains i

In the following table, the column labelled '#RSRZ > 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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   | AA    | 1466/1522 (96%) | -0.14  | 21 (1%) 75 63 | 43, 93, 137, 172      | 0     |
| 1   | CA    | 1461/1522 (95%) | -0.02  | 31 (2%) 63 49 | 55, 104, 145, 167     | 0     |
| 2   | AB    | 233/256 (91%)   | -0.25  | 3 (1%) 77 65  | 72, 113, 134, 153     | 0     |
| 2   | CB    | 235/256 (91%)   | 0.00   | 9 (3%) 40 26  | 100, 125, 139, 147    | 0     |
| 3   | AC    | 204/239 (85%)   | -0.17  | 2 (0%) 82 72  | 97, 112, 125, 133     | 0     |
| 3   | CC    | 206/239 (86%)   | 0.10   | 8 (3%) 39 25  | 110, 125, 136, 142    | 0     |
| 4   | AD    | 208/209 (99%)   | -0.30  | 2 (0%) 82 72  | 76, 103, 118, 125     | 0     |
| 4   | CD    | 208/209 (99%)   | -0.35  | 0 100 100     | 85, 98, 114, 120      | 0     |
| 5   | AE    | 148/162 (91%)   | -0.37  | 1 (0%) 87 81  | 67, 89, 108, 134      | 0     |
| 5   | CE    | 149/162 (91%)   | -0.27  | 1 (0%) 87 81  | 83, 99, 110, 131      | 0     |
| 6   | AF    | 100/101 (99%)   | -0.47  | 0 100 100     | 68, 88, 104, 110      | 0     |
| 6   | CF    | 100/101 (99%)   | -0.42  | 0 100 100     | 78, 96, 110, 117      | 0     |
| 7   | AG    | 154/156 (98%)   | -0.17  | 5 (3%) 47 31  | 87, 102, 120, 133     | 0     |
| 7   | CG    | 154/156 (98%)   | 0.11   | 11 (7%) 16 9  | 107, 119, 133, 144    | 0     |
| 8   | AH    | 138/138 (100%)  | -0.38  | 0 100 100     | 73, 91, 100, 111      | 0     |
| 8   | CH    | 138/138 (100%)  | -0.36  | 1 (0%) 87 81  | 82, 100, 111, 116     | 0     |
| 9   | AI    | 125/128 (97%)   | 0.02   | 1 (0%) 86 78  | 71, 114, 126, 137     | 0     |
| 9   | CI    | 125/128 (97%)   | 0.40   | 13 (10%) 6 4  | 101, 130, 138, 142    | 0     |
| 10  | AJ    | 96/105 (91%)    | 0.37   | 9 (9%) 8 4    | 88, 119, 136, 140     | 0     |
| 10  | CJ    | 96/105 (91%)    | 0.91   | 16 (16%) 1 1  | 111, 133, 141, 143    | 0     |
| 11  | AK    | 115/129 (89%)   | -0.36  | 0 100 100     | 53, 87, 104, 113      | 0     |
| 11  | CK    | 114/129 (88%)   | -0.26  | 1 (0%) 84 75  | 78, 103, 118, 127     | 0     |
| 12  | AL    | 122/132 (92%)   | -0.49  | 0 100 100     | 61, 84, 100, 111      | 0     |
| 12  | CL    | 122/132 (92%)   | -0.37  | 1 (0%) 86 78  | 72, 90, 105, 114      | 0     |

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| Mol | Chain | Analysed        | <RSRZ> | #RSRZ>2       | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 13  | AM    | 115/126 (91%)   | -0.33  | 0 100 100     | 66, 100, 113, 118     | 0     |
| 13  | CM    | 112/126 (88%)   | 0.09   | 2 (1%) 68 55  | 102, 127, 135, 139    | 0     |
| 14  | AN    | 59/61 (96%)     | -0.06  | 1 (1%) 70 57  | 94, 106, 114, 121     | 0     |
| 14  | CN    | 59/61 (96%)     | 0.47   | 5 (8%) 10 6   | 116, 125, 133, 135    | 0     |
| 15  | AO    | 88/89 (98%)     | -0.36  | 0 100 100     | 65, 86, 106, 117      | 0     |
| 15  | CO    | 88/89 (98%)     | -0.30  | 0 100 100     | 74, 96, 114, 118      | 0     |
| 16  | AP    | 81/88 (92%)     | -0.24  | 0 100 100     | 83, 100, 122, 127     | 0     |
| 16  | CP    | 82/88 (93%)     | -0.27  | 1 (1%) 79 67  | 84, 94, 112, 122      | 0     |
| 17  | AQ    | 99/105 (94%)    | -0.24  | 1 (1%) 82 72  | 68, 89, 104, 113      | 0     |
| 17  | CQ    | 99/105 (94%)    | -0.36  | 0 100 100     | 77, 95, 110, 113      | 0     |
| 18  | AR    | 68/88 (77%)     | -0.45  | 1 (1%) 73 61  | 69, 84, 102, 106      | 0     |
| 18  | CR    | 68/88 (77%)     | -0.27  | 0 100 100     | 82, 92, 111, 115      | 0     |
| 19  | AS    | 81/93 (87%)     | -0.02  | 2 (2%) 57 43  | 96, 110, 130, 141     | 0     |
| 19  | CS    | 75/93 (80%)     | 0.62   | 5 (6%) 17 10  | 107, 131, 142, 146    | 0     |
| 20  | AT    | 96/106 (90%)    | -0.33  | 0 100 100     | 77, 97, 113, 118      | 0     |
| 20  | CT    | 104/106 (98%)   | -0.17  | 3 (2%) 51 36  | 81, 101, 123, 139     | 0     |
| 21  | AU    | 25/27 (92%)     | 0.39   | 0 100 100     | 80, 98, 105, 107      | 0     |
| 21  | CU    | 23/27 (85%)     | 1.41   | 4 (17%) 1 1   | 115, 126, 132, 134    | 0     |
| 22  | AY    | 132/140 (94%)   | 1.53   | 37 (28%) 0 0  | 69, 110, 138, 152     | 0     |
| 23  | AV    | 77/77 (100%)    | -0.07  | 1 (1%) 77 65  | 55, 82, 112, 134      | 0     |
| 23  | CV    | 77/77 (100%)    | 0.03   | 1 (1%) 77 65  | 73, 109, 133, 156     | 0     |
| 24  | AX    | 6/16 (37%)      | 1.02   | 1 (16%) 1 1   | 67, 73, 127, 128      | 0     |
| 24  | CX    | 6/16 (37%)      | 0.98   | 2 (33%) 0 0   | 89, 96, 142, 147      | 0     |
| 25  | BA    | 2752/2915 (94%) | -0.43  | 27 (0%) 82 72 | 23, 43, 115, 170      | 0     |
| 25  | DA    | 2722/2915 (93%) | -0.27  | 47 (1%) 70 57 | 44, 74, 127, 170      | 0     |
| 26  | BB    | 120/122 (98%)   | -0.47  | 0 100 100     | 36, 64, 90, 125       | 0     |
| 26  | DB    | 120/122 (98%)   | 0.05   | 1 (0%) 86 78  | 73, 114, 129, 146     | 0     |
| 27  | BD    | 275/276 (99%)   | -0.69  | 1 (0%) 92 89  | 27, 43, 62, 110       | 0     |
| 27  | DD    | 275/276 (99%)   | -0.46  | 2 (0%) 87 81  | 41, 62, 82, 100       | 0     |
| 28  | BE    | 204/206 (99%)   | -0.70  | 0 100 100     | 22, 45, 71, 94        | 0     |
| 28  | DE    | 204/206 (99%)   | -0.46  | 0 100 100     | 43, 74, 100, 113      | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2      | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 29  | BF    | 203/210 (96%)  | -0.62  | 0 100 100    | 26, 49, 87, 115       | 0     |
| 29  | DF    | 203/210 (96%)  | -0.42  | 0 100 100    | 47, 88, 114, 127      | 0     |
| 30  | BG    | 181/182 (99%)  | -0.47  | 0 100 100    | 58, 77, 105, 116      | 0     |
| 30  | DG    | 180/182 (98%)  | -0.18  | 1 (0%) 89 83 | 101, 117, 127, 136    | 0     |
| 31  | BH    | 174/180 (96%)  | -0.53  | 0 100 100    | 38, 65, 84, 98        | 0     |
| 31  | DH    | 174/180 (96%)  | 0.30   | 8 (4%) 32 20 | 96, 116, 130, 140     | 0     |
| 32  | BI    | 147/148 (99%)  | -0.40  | 0 100 100    | 50, 95, 112, 128      | 0     |
| 32  | DI    | 146/148 (98%)  | -0.13  | 1 (0%) 87 81 | 68, 108, 126, 131     | 0     |
| 33  | BN    | 140/140 (100%) | -0.71  | 0 100 100    | 30, 42, 69, 83        | 0     |
| 33  | DN    | 140/140 (100%) | -0.35  | 0 100 100    | 64, 86, 107, 117      | 0     |
| 34  | BO    | 122/122 (100%) | -0.70  | 0 100 100    | 33, 52, 71, 82        | 0     |
| 34  | DO    | 122/122 (100%) | -0.59  | 0 100 100    | 57, 73, 88, 96        | 0     |
| 35  | BP    | 149/150 (99%)  | -0.61  | 0 100 100    | 25, 55, 86, 108       | 0     |
| 35  | DP    | 149/150 (99%)  | -0.31  | 0 100 100    | 52, 91, 116, 127      | 0     |
| 36  | BQ    | 141/141 (100%) | -0.65  | 0 100 100    | 33, 50, 70, 90        | 0     |
| 36  | DQ    | 141/141 (100%) | -0.35  | 2 (1%) 75 63 | 67, 90, 106, 114      | 0     |
| 37  | BR    | 118/118 (100%) | -0.75  | 0 100 100    | 27, 41, 59, 67        | 0     |
| 37  | DR    | 118/118 (100%) | -0.56  | 0 100 100    | 49, 65, 86, 95        | 0     |
| 38  | BS    | 110/112 (98%)  | -0.62  | 0 100 100    | 44, 62, 86, 97        | 0     |
| 38  | DS    | 110/112 (98%)  | -0.20  | 0 100 100    | 90, 109, 119, 127     | 0     |
| 39  | BT    | 132/146 (90%)  | -0.74  | 0 100 100    | 41, 55, 94, 127       | 0     |
| 39  | DT    | 130/146 (89%)  | -0.52  | 0 100 100    | 62, 77, 108, 123      | 0     |
| 40  | BU    | 116/118 (98%)  | -0.77  | 1 (0%) 84 75 | 25, 36, 55, 71        | 0     |
| 40  | DU    | 116/118 (98%)  | -0.40  | 1 (0%) 84 75 | 54, 82, 103, 108      | 0     |
| 41  | BV    | 100/101 (99%)  | -0.77  | 0 100 100    | 28, 46, 73, 90        | 0     |
| 41  | DV    | 100/101 (99%)  | -0.20  | 0 100 100    | 56, 98, 119, 123      | 0     |
| 42  | BW    | 112/113 (99%)  | -0.65  | 0 100 100    | 28, 37, 63, 89        | 0     |
| 42  | DW    | 111/113 (98%)  | -0.43  | 1 (0%) 84 75 | 49, 63, 89, 114       | 0     |
| 43  | BX    | 95/96 (98%)    | -0.66  | 0 100 100    | 34, 46, 77, 92        | 0     |
| 43  | DX    | 95/96 (98%)    | -0.45  | 0 100 100    | 61, 77, 100, 107      | 0     |
| 44  | BY    | 107/110 (97%)  | -0.49  | 0 100 100    | 41, 60, 91, 109       | 0     |

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| Mol | Chain | Analysed          | <RSRZ> | #RSRZ>2        | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-------------------|--------|----------------|-----------------------|-------|
| 44  | DY    | 107/110 (97%)     | -0.04  | 7 (6%) 18 11   | 77, 96, 112, 124      | 0     |
| 45  | BZ    | 186/206 (90%)     | -0.52  | 0 100 100      | 49, 76, 104, 126      | 0     |
| 45  | DZ    | 189/206 (91%)     | 0.05   | 5 (2%) 56 40   | 98, 114, 131, 139     | 0     |
| 46  | B0    | 76/85 (89%)       | -0.65  | 0 100 100      | 32, 42, 59, 83        | 0     |
| 46  | D0    | 77/85 (90%)       | -0.11  | 0 100 100      | 73, 85, 101, 124      | 0     |
| 47  | B1    | 97/98 (98%)       | -0.50  | 0 100 100      | 32, 51, 90, 104       | 0     |
| 47  | D1    | 97/98 (98%)       | -0.26  | 2 (2%) 63 49   | 50, 72, 105, 115      | 0     |
| 48  | B2    | 70/72 (97%)       | -0.54  | 0 100 100      | 41, 60, 78, 103       | 0     |
| 48  | D2    | 71/72 (98%)       | -0.29  | 1 (1%) 75 63   | 78, 94, 106, 110      | 0     |
| 49  | B3    | 59/60 (98%)       | -0.72  | 0 100 100      | 33, 41, 76, 93        | 0     |
| 49  | D3    | 58/60 (96%)       | -0.05  | 0 100 100      | 71, 84, 114, 128      | 0     |
| 50  | B4    | 46/71 (64%)       | -0.58  | 0 100 100      | 78, 96, 112, 114      | 0     |
| 50  | D4    | 46/71 (64%)       | -0.12  | 0 100 100      | 118, 126, 136, 138    | 0     |
| 51  | B5    | 59/60 (98%)       | -0.79  | 0 100 100      | 25, 41, 62, 74        | 0     |
| 51  | D5    | 59/60 (98%)       | -0.57  | 0 100 100      | 47, 66, 85, 106       | 0     |
| 52  | B6    | 53/54 (98%)       | -0.69  | 0 100 100      | 42, 49, 66, 76        | 0     |
| 52  | D6    | 53/54 (98%)       | -0.39  | 0 100 100      | 67, 81, 93, 101       | 0     |
| 53  | B7    | 48/49 (97%)       | -0.47  | 0 100 100      | 25, 33, 68, 89        | 0     |
| 53  | D7    | 48/49 (97%)       | -0.36  | 0 100 100      | 41, 53, 82, 105       | 0     |
| 54  | B8    | 64/65 (98%)       | -0.61  | 0 100 100      | 35, 41, 49, 72        | 0     |
| 54  | D8    | 64/65 (98%)       | -0.29  | 1 (1%) 72 59   | 60, 71, 83, 94        | 0     |
| 55  | B9    | 36/37 (97%)       | -0.38  | 0 100 100      | 33, 46, 58, 72        | 0     |
| 55  | D9    | 35/37 (94%)       | 0.44   | 3 (8%) 10 5    | 73, 88, 103, 115      | 0     |
| All | All   | 20489/21572 (94%) | -0.28  | 315 (1%) 73 61 | 22, 83, 131, 172      | 0     |

The worst 5 of 315 RSRZ outliers are listed below:

| Mol | Chain | Res     | Type | RSRZ |
|-----|-------|---------|------|------|
| 25  | BA    | 1509    | C    | 8.8  |
| 22  | AY    | 34      | SER  | 7.0  |
| 25  | BA    | 2801(A) | A    | 5.7  |
| 1   | CA    | 1286    | A    | 5.6  |
| 25  | BA    | 1508    | A    | 5.5  |

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates 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 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3293 | 1/1   | 0.36 | 0.16 | 94,94,94,94                 | 0     |
| 56  | MG   | CA    | 1773 | 1/1   | 0.41 | 0.15 | 124,124,124,124             | 0     |
| 56  | MG   | DA    | 3258 | 1/1   | 0.44 | 0.43 | 91,91,91,91                 | 0     |
| 56  | MG   | CA    | 1638 | 1/1   | 0.48 | 0.56 | 99,99,99,99                 | 0     |
| 56  | MG   | BA    | 3256 | 1/1   | 0.49 | 0.21 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3025 | 1/1   | 0.49 | 0.35 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3278 | 1/1   | 0.49 | 0.60 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3654 | 1/1   | 0.50 | 0.41 | 118,118,118,118             | 0     |
| 56  | MG   | CA    | 1797 | 1/1   | 0.52 | 0.41 | 121,121,121,121             | 0     |
| 56  | MG   | DA    | 3509 | 1/1   | 0.52 | 0.30 | 122,122,122,122             | 0     |
| 56  | MG   | AA    | 1901 | 1/1   | 0.53 | 0.17 | 119,119,119,119             | 0     |
| 56  | MG   | DA    | 3259 | 1/1   | 0.54 | 0.53 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3588 | 1/1   | 0.55 | 0.11 | 109,109,109,109             | 0     |
| 56  | MG   | AA    | 1932 | 1/1   | 0.55 | 0.26 | 116,116,116,116             | 0     |
| 56  | MG   | D0    | 102  | 1/1   | 0.56 | 0.38 | 99,99,99,99                 | 0     |
| 56  | MG   | CA    | 1796 | 1/1   | 0.56 | 0.16 | 102,102,102,102             | 0     |
| 56  | MG   | CA    | 1802 | 1/1   | 0.57 | 0.10 | 115,115,115,115             | 0     |
| 56  | MG   | CA    | 1704 | 1/1   | 0.57 | 0.23 | 93,93,93,93                 | 0     |
| 56  | MG   | CA    | 1817 | 1/1   | 0.57 | 0.24 | 111,111,111,111             | 0     |
| 56  | MG   | BA    | 3035 | 1/1   | 0.57 | 0.23 | 82,82,82,82                 | 0     |
| 56  | MG   | AA    | 1937 | 1/1   | 0.58 | 0.14 | 79,79,79,79                 | 0     |
| 56  | MG   | AA    | 1911 | 1/1   | 0.58 | 0.30 | 106,106,106,106             | 0     |
| 56  | MG   | CA    | 1780 | 1/1   | 0.58 | 0.15 | 90,90,90,90                 | 0     |
| 56  | MG   | CA    | 1664 | 1/1   | 0.59 | 0.36 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3519 | 1/1   | 0.59 | 0.09 | 93,93,93,93                 | 0     |
| 56  | MG   | AA    | 1915 | 1/1   | 0.59 | 0.17 | 121,121,121,121             | 0     |
| 56  | MG   | DA    | 3335 | 1/1   | 0.59 | 0.48 | 74,74,74,74                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3678 | 1/1   | 0.59 | 0.27 | 89,89,89,89                | 0     |
| 56  | MG   | CA    | 1808 | 1/1   | 0.59 | 0.29 | 102,102,102,102            | 0     |
| 56  | MG   | AA    | 1899 | 1/1   | 0.59 | 0.22 | 115,115,115,115            | 0     |
| 56  | MG   | BA    | 3384 | 1/1   | 0.61 | 0.78 | 72,72,72,72                | 0     |
| 56  | MG   | CA    | 1703 | 1/1   | 0.61 | 0.33 | 100,100,100,100            | 0     |
| 56  | MG   | DA    | 3117 | 1/1   | 0.62 | 0.30 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1715 | 1/1   | 0.62 | 0.46 | 72,72,72,72                | 0     |
| 56  | MG   | BB    | 219  | 1/1   | 0.63 | 0.21 | 85,85,85,85                | 0     |
| 56  | MG   | DA    | 3009 | 1/1   | 0.63 | 0.10 | 90,90,90,90                | 0     |
| 56  | MG   | AA    | 1620 | 1/1   | 0.63 | 0.55 | 74,74,74,74                | 0     |
| 56  | MG   | BA    | 3237 | 1/1   | 0.64 | 0.36 | 59,59,59,59                | 0     |
| 56  | MG   | BA    | 3857 | 1/1   | 0.64 | 0.21 | 78,78,78,78                | 0     |
| 56  | MG   | AA    | 1679 | 1/1   | 0.64 | 0.28 | 84,84,84,84                | 0     |
| 56  | MG   | CA    | 1661 | 1/1   | 0.64 | 0.15 | 101,101,101,101            | 0     |
| 56  | MG   | BA    | 3456 | 1/1   | 0.64 | 0.41 | 73,73,73,73                | 0     |
| 56  | MG   | AA    | 1867 | 1/1   | 0.64 | 1.12 | 80,80,80,80                | 0     |
| 56  | MG   | DA    | 3082 | 1/1   | 0.64 | 0.12 | 89,89,89,89                | 0     |
| 56  | MG   | BX    | 101  | 1/1   | 0.64 | 0.44 | 78,78,78,78                | 0     |
| 56  | MG   | CA    | 1745 | 1/1   | 0.65 | 0.23 | 99,99,99,99                | 0     |
| 56  | MG   | DA    | 3052 | 1/1   | 0.65 | 1.02 | 79,79,79,79                | 0     |
| 56  | MG   | CA    | 1795 | 1/1   | 0.65 | 0.13 | 100,100,100,100            | 0     |
| 56  | MG   | CA    | 1812 | 1/1   | 0.66 | 0.28 | 114,114,114,114            | 0     |
| 56  | MG   | AA    | 1695 | 1/1   | 0.66 | 0.22 | 102,102,102,102            | 0     |
| 56  | MG   | AV    | 113  | 1/1   | 0.66 | 0.55 | 84,84,84,84                | 0     |
| 56  | MG   | AK    | 201  | 1/1   | 0.66 | 0.47 | 107,107,107,107            | 0     |
| 56  | MG   | AA    | 1699 | 1/1   | 0.67 | 0.21 | 109,109,109,109            | 0     |
| 56  | MG   | AA    | 1823 | 1/1   | 0.67 | 0.99 | 77,77,77,77                | 0     |
| 56  | MG   | CA    | 1818 | 1/1   | 0.67 | 0.26 | 87,87,87,87                | 0     |
| 56  | MG   | DA    | 3674 | 1/1   | 0.67 | 0.24 | 105,105,105,105            | 0     |
| 56  | MG   | BA    | 3272 | 1/1   | 0.68 | 0.41 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3690 | 1/1   | 0.68 | 0.07 | 107,107,107,107            | 0     |
| 56  | MG   | DA    | 3532 | 1/1   | 0.68 | 0.21 | 90,90,90,90                | 0     |
| 56  | MG   | DA    | 3136 | 1/1   | 0.68 | 1.06 | 67,67,67,67                | 0     |
| 56  | MG   | DA    | 3072 | 1/1   | 0.68 | 0.38 | 65,65,65,65                | 0     |
| 56  | MG   | BA    | 3258 | 1/1   | 0.68 | 0.40 | 71,71,71,71                | 0     |
| 56  | MG   | DA    | 3224 | 1/1   | 0.68 | 0.46 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3885 | 1/1   | 0.68 | 0.27 | 91,91,91,91                | 0     |
| 56  | MG   | AA    | 1686 | 1/1   | 0.68 | 0.43 | 112,112,112,112            | 0     |
| 56  | MG   | BA    | 3888 | 1/1   | 0.68 | 0.13 | 99,99,99,99                | 0     |
| 56  | MG   | AA    | 1893 | 1/1   | 0.68 | 0.32 | 95,95,95,95                | 0     |
| 56  | MG   | BA    | 3523 | 1/1   | 0.69 | 0.43 | 76,76,76,76                | 0     |
| 56  | MG   | AA    | 1737 | 1/1   | 0.69 | 0.42 | 88,88,88,88                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3432 | 1/1   | 0.69 | 0.14 | 85,85,85,85                | 0     |
| 56  | MG   | DA    | 3296 | 1/1   | 0.69 | 0.31 | 80,80,80,80                | 0     |
| 56  | MG   | BA    | 3742 | 1/1   | 0.69 | 0.22 | 72,72,72,72                | 0     |
| 56  | MG   | AA    | 1789 | 1/1   | 0.69 | 0.37 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3265 | 1/1   | 0.69 | 0.39 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3332 | 1/1   | 0.69 | 0.36 | 74,74,74,74                | 0     |
| 56  | MG   | DA    | 3319 | 1/1   | 0.70 | 0.54 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3232 | 1/1   | 0.70 | 0.39 | 91,91,91,91                | 0     |
| 56  | MG   | AA    | 1939 | 1/1   | 0.70 | 0.33 | 105,105,105,105            | 0     |
| 56  | MG   | DA    | 3271 | 1/1   | 0.70 | 0.45 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3397 | 1/1   | 0.70 | 0.35 | 66,66,66,66                | 0     |
| 56  | MG   | BA    | 3493 | 1/1   | 0.70 | 0.40 | 62,62,62,62                | 0     |
| 56  | MG   | DA    | 3539 | 1/1   | 0.70 | 0.25 | 102,102,102,102            | 0     |
| 56  | MG   | AA    | 1762 | 1/1   | 0.70 | 0.30 | 74,74,74,74                | 0     |
| 56  | MG   | AA    | 1749 | 1/1   | 0.70 | 0.75 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1944 | 1/1   | 0.70 | 0.27 | 97,97,97,97                | 0     |
| 56  | MG   | CA    | 1642 | 1/1   | 0.70 | 0.54 | 84,84,84,84                | 0     |
| 56  | MG   | DA    | 3326 | 1/1   | 0.71 | 0.41 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3800 | 1/1   | 0.71 | 0.14 | 111,111,111,111            | 0     |
| 56  | MG   | BA    | 3499 | 1/1   | 0.71 | 0.30 | 73,73,73,73                | 0     |
| 56  | MG   | DA    | 3497 | 1/1   | 0.71 | 0.20 | 70,70,70,70                | 0     |
| 56  | MG   | CV    | 106  | 1/1   | 0.71 | 0.36 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3375 | 1/1   | 0.71 | 0.14 | 84,84,84,84                | 0     |
| 56  | MG   | BA    | 3025 | 1/1   | 0.71 | 0.50 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3304 | 1/1   | 0.71 | 0.44 | 67,67,67,67                | 0     |
| 56  | MG   | AA    | 1922 | 1/1   | 0.71 | 0.19 | 106,106,106,106            | 0     |
| 56  | MG   | DA    | 3347 | 1/1   | 0.71 | 0.58 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3203 | 1/1   | 0.71 | 0.31 | 91,91,91,91                | 0     |
| 56  | MG   | BB    | 211  | 1/1   | 0.71 | 0.20 | 66,66,66,66                | 0     |
| 56  | MG   | AA    | 1724 | 1/1   | 0.72 | 0.36 | 92,92,92,92                | 0     |
| 56  | MG   | DA    | 3238 | 1/1   | 0.72 | 0.31 | 65,65,65,65                | 0     |
| 56  | MG   | CA    | 1699 | 1/1   | 0.72 | 0.22 | 97,97,97,97                | 0     |
| 56  | MG   | BA    | 3728 | 1/1   | 0.72 | 0.24 | 68,68,68,68                | 0     |
| 56  | MG   | AA    | 1736 | 1/1   | 0.72 | 0.52 | 82,82,82,82                | 0     |
| 56  | MG   | AA    | 1668 | 1/1   | 0.72 | 0.34 | 65,65,65,65                | 0     |
| 56  | MG   | DA    | 3694 | 1/1   | 0.72 | 0.13 | 95,95,95,95                | 0     |
| 56  | MG   | BA    | 3799 | 1/1   | 0.72 | 0.10 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3058 | 1/1   | 0.72 | 0.43 | 83,83,83,83                | 0     |
| 56  | MG   | CA    | 1666 | 1/1   | 0.72 | 0.28 | 73,73,73,73                | 0     |
| 56  | MG   | DA    | 3691 | 1/1   | 0.72 | 0.10 | 91,91,91,91                | 0     |
| 56  | MG   | AA    | 1827 | 1/1   | 0.72 | 0.20 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3377 | 1/1   | 0.72 | 0.44 | 89,89,89,89                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | AA    | 1746 | 1/1   | 0.72 | 0.37 | 81,81,81,81                | 0     |
| 56  | MG   | CA    | 1775 | 1/1   | 0.72 | 0.14 | 99,99,99,99                | 0     |
| 56  | MG   | AA    | 1685 | 1/1   | 0.72 | 0.61 | 91,91,91,91                | 0     |
| 56  | MG   | DB    | 209  | 1/1   | 0.72 | 0.39 | 86,86,86,86                | 0     |
| 56  | MG   | BA    | 3463 | 1/1   | 0.73 | 0.34 | 57,57,57,57                | 0     |
| 56  | MG   | DA    | 3083 | 1/1   | 0.73 | 0.41 | 82,82,82,82                | 0     |
| 56  | MG   | AV    | 112  | 1/1   | 0.73 | 0.38 | 79,79,79,79                | 0     |
| 56  | MG   | CA    | 1694 | 1/1   | 0.73 | 0.48 | 80,80,80,80                | 0     |
| 56  | MG   | AA    | 1627 | 1/1   | 0.73 | 0.67 | 83,83,83,83                | 0     |
| 56  | MG   | DA    | 3616 | 1/1   | 0.73 | 0.48 | 115,115,115,115            | 0     |
| 56  | MG   | CA    | 1612 | 1/1   | 0.73 | 0.24 | 84,84,84,84                | 0     |
| 56  | MG   | DA    | 3309 | 1/1   | 0.73 | 0.41 | 88,88,88,88                | 0     |
| 56  | MG   | CA    | 1701 | 1/1   | 0.73 | 0.20 | 109,109,109,109            | 0     |
| 56  | MG   | CA    | 1788 | 1/1   | 0.73 | 0.28 | 118,118,118,118            | 0     |
| 56  | MG   | AA    | 1720 | 1/1   | 0.73 | 0.42 | 92,92,92,92                | 0     |
| 56  | MG   | BA    | 3373 | 1/1   | 0.74 | 0.39 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1900 | 1/1   | 0.74 | 0.12 | 110,110,110,110            | 0     |
| 56  | MG   | DA    | 3545 | 1/1   | 0.74 | 0.11 | 83,83,83,83                | 0     |
| 56  | MG   | AA    | 1778 | 1/1   | 0.74 | 0.61 | 83,83,83,83                | 0     |
| 56  | MG   | CA    | 1770 | 1/1   | 0.74 | 0.15 | 93,93,93,93                | 0     |
| 56  | MG   | CA    | 1807 | 1/1   | 0.74 | 0.13 | 100,100,100,100            | 0     |
| 56  | MG   | CA    | 1683 | 1/1   | 0.74 | 0.32 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3446 | 1/1   | 0.74 | 0.23 | 87,87,87,87                | 0     |
| 56  | MG   | AA    | 1678 | 1/1   | 0.74 | 0.26 | 90,90,90,90                | 0     |
| 56  | MG   | BA    | 3763 | 1/1   | 0.74 | 0.10 | 84,84,84,84                | 0     |
| 56  | MG   | DA    | 3255 | 1/1   | 0.74 | 0.24 | 72,72,72,72                | 0     |
| 56  | MG   | BA    | 3342 | 1/1   | 0.74 | 0.46 | 66,66,66,66                | 0     |
| 56  | MG   | DA    | 3299 | 1/1   | 0.74 | 0.69 | 57,57,57,57                | 0     |
| 56  | MG   | AA    | 1667 | 1/1   | 0.75 | 0.34 | 71,71,71,71                | 0     |
| 56  | MG   | CA    | 1722 | 1/1   | 0.75 | 0.33 | 76,76,76,76                | 0     |
| 56  | MG   | BA    | 3359 | 1/1   | 0.75 | 0.47 | 72,72,72,72                | 0     |
| 56  | MG   | AA    | 1815 | 1/1   | 0.75 | 0.52 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1923 | 1/1   | 0.75 | 0.15 | 115,115,115,115            | 0     |
| 56  | MG   | AV    | 104  | 1/1   | 0.75 | 0.29 | 81,81,81,81                | 0     |
| 56  | MG   | DA    | 3325 | 1/1   | 0.75 | 0.38 | 62,62,62,62                | 0     |
| 56  | MG   | AA    | 1711 | 1/1   | 0.75 | 0.42 | 76,76,76,76                | 0     |
| 56  | MG   | DA    | 3217 | 1/1   | 0.75 | 0.18 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3610 | 1/1   | 0.75 | 0.25 | 97,97,97,97                | 0     |
| 56  | MG   | AA    | 1718 | 1/1   | 0.75 | 0.22 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1826 | 1/1   | 0.75 | 0.14 | 63,63,63,63                | 0     |
| 56  | MG   | DA    | 3339 | 1/1   | 0.75 | 0.34 | 74,74,74,74                | 0     |
| 56  | MG   | BA    | 3139 | 1/1   | 0.75 | 0.43 | 56,56,56,56                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3309 | 1/1   | 0.75 | 0.47 | 56,56,56,56                 | 0     |
| 56  | MG   | CA    | 1654 | 1/1   | 0.76 | 0.48 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3288 | 1/1   | 0.76 | 0.31 | 83,83,83,83                 | 0     |
| 56  | MG   | AA    | 1611 | 1/1   | 0.76 | 0.16 | 97,97,97,97                 | 0     |
| 56  | MG   | CA    | 1680 | 1/1   | 0.76 | 0.33 | 70,70,70,70                 | 0     |
| 56  | MG   | BB    | 227  | 1/1   | 0.76 | 0.06 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3629 | 1/1   | 0.76 | 0.37 | 104,104,104,104             | 0     |
| 56  | MG   | DA    | 3199 | 1/1   | 0.76 | 1.07 | 81,81,81,81                 | 0     |
| 56  | MG   | CA    | 1708 | 1/1   | 0.76 | 1.03 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3855 | 1/1   | 0.76 | 0.47 | 103,103,103,103             | 0     |
| 56  | MG   | DA    | 3625 | 1/1   | 0.76 | 0.26 | 80,80,80,80                 | 0     |
| 56  | MG   | AA    | 1828 | 1/1   | 0.76 | 0.42 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3202 | 1/1   | 0.76 | 0.20 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1803 | 1/1   | 0.76 | 0.92 | 92,92,92,92                 | 0     |
| 56  | MG   | DA    | 3081 | 1/1   | 0.76 | 0.41 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3379 | 1/1   | 0.76 | 0.41 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3491 | 1/1   | 0.76 | 0.15 | 101,101,101,101             | 0     |
| 56  | MG   | DA    | 3538 | 1/1   | 0.77 | 0.25 | 96,96,96,96                 | 0     |
| 56  | MG   | BA    | 3363 | 1/1   | 0.77 | 0.38 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3406 | 1/1   | 0.77 | 0.21 | 64,64,64,64                 | 0     |
| 56  | MG   | B2    | 102  | 1/1   | 0.77 | 0.34 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1819 | 1/1   | 0.77 | 0.62 | 91,91,91,91                 | 0     |
| 56  | MG   | CA    | 1675 | 1/1   | 0.77 | 0.47 | 77,77,77,77                 | 0     |
| 56  | MG   | CA    | 1816 | 1/1   | 0.77 | 0.26 | 110,110,110,110             | 0     |
| 56  | MG   | BA    | 3048 | 1/1   | 0.77 | 0.35 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3440 | 1/1   | 0.77 | 0.71 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3431 | 1/1   | 0.77 | 0.28 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1689 | 1/1   | 0.77 | 0.18 | 77,77,77,77                 | 0     |
| 56  | MG   | CA    | 1757 | 1/1   | 0.77 | 0.29 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3166 | 1/1   | 0.77 | 0.66 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3448 | 1/1   | 0.77 | 0.36 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3135 | 1/1   | 0.77 | 0.39 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3104 | 1/1   | 0.77 | 0.26 | 50,50,50,50                 | 0     |
| 56  | MG   | AA    | 1743 | 1/1   | 0.77 | 0.52 | 80,80,80,80                 | 0     |
| 56  | MG   | AA    | 1948 | 1/1   | 0.78 | 0.10 | 88,88,88,88                 | 0     |
| 56  | MG   | AA    | 1905 | 1/1   | 0.78 | 0.15 | 130,130,130,130             | 0     |
| 56  | MG   | AA    | 1637 | 1/1   | 0.78 | 0.12 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1807 | 1/1   | 0.78 | 0.36 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3024 | 1/1   | 0.78 | 0.40 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3192 | 1/1   | 0.78 | 0.33 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1674 | 1/1   | 0.78 | 0.44 | 74,74,74,74                 | 0     |
| 56  | MG   | AA    | 1796 | 1/1   | 0.78 | 0.33 | 77,77,77,77                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | AA    | 1733 | 1/1   | 0.78 | 0.15 | 94,94,94,94                | 0     |
| 56  | MG   | BA    | 3346 | 1/1   | 0.78 | 0.26 | 43,43,43,43                | 0     |
| 56  | MG   | AA    | 1665 | 1/1   | 0.78 | 0.29 | 73,73,73,73                | 0     |
| 56  | MG   | CA    | 1811 | 1/1   | 0.78 | 0.07 | 102,102,102,102            | 0     |
| 56  | MG   | BA    | 3778 | 1/1   | 0.78 | 0.17 | 92,92,92,92                | 0     |
| 56  | MG   | BA    | 3339 | 1/1   | 0.78 | 0.36 | 70,70,70,70                | 0     |
| 56  | MG   | CA    | 1700 | 1/1   | 0.78 | 0.75 | 90,90,90,90                | 0     |
| 56  | MG   | AA    | 1650 | 1/1   | 0.78 | 0.50 | 65,65,65,65                | 0     |
| 56  | MG   | CA    | 1782 | 1/1   | 0.78 | 0.39 | 96,96,96,96                | 0     |
| 56  | MG   | AA    | 1802 | 1/1   | 0.78 | 0.40 | 67,67,67,67                | 0     |
| 56  | MG   | AA    | 1687 | 1/1   | 0.78 | 0.55 | 105,105,105,105            | 0     |
| 56  | MG   | AA    | 1672 | 1/1   | 0.78 | 0.29 | 78,78,78,78                | 0     |
| 56  | MG   | BB    | 203  | 1/1   | 0.79 | 0.35 | 63,63,63,63                | 0     |
| 56  | MG   | DA    | 3205 | 1/1   | 0.79 | 0.23 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3517 | 1/1   | 0.79 | 0.40 | 58,58,58,58                | 0     |
| 56  | MG   | DA    | 3341 | 1/1   | 0.79 | 0.53 | 60,60,60,60                | 0     |
| 56  | MG   | DA    | 3398 | 1/1   | 0.79 | 0.12 | 58,58,58,58                | 0     |
| 56  | MG   | DA    | 3002 | 1/1   | 0.79 | 0.32 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1658 | 1/1   | 0.79 | 0.77 | 73,73,73,73                | 0     |
| 56  | MG   | CA    | 1702 | 1/1   | 0.79 | 0.34 | 114,114,114,114            | 0     |
| 56  | MG   | AA    | 1741 | 1/1   | 0.79 | 0.48 | 85,85,85,85                | 0     |
| 56  | MG   | AA    | 1712 | 1/1   | 0.79 | 0.19 | 72,72,72,72                | 0     |
| 56  | MG   | AA    | 1943 | 1/1   | 0.79 | 0.14 | 92,92,92,92                | 0     |
| 56  | MG   | BA    | 3853 | 1/1   | 0.79 | 0.31 | 76,76,76,76                | 0     |
| 56  | MG   | AA    | 1788 | 1/1   | 0.79 | 0.46 | 62,62,62,62                | 0     |
| 56  | MG   | CA    | 1653 | 1/1   | 0.79 | 0.39 | 78,78,78,78                | 0     |
| 56  | MG   | BA    | 3882 | 1/1   | 0.79 | 0.09 | 73,73,73,73                | 0     |
| 56  | MG   | DA    | 3378 | 1/1   | 0.79 | 0.33 | 64,64,64,64                | 0     |
| 56  | MG   | DA    | 3027 | 1/1   | 0.79 | 0.40 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3376 | 1/1   | 0.79 | 0.30 | 69,69,69,69                | 0     |
| 56  | MG   | BA    | 3102 | 1/1   | 0.79 | 0.16 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3524 | 1/1   | 0.79 | 0.17 | 81,81,81,81                | 0     |
| 56  | MG   | DA    | 3289 | 1/1   | 0.80 | 0.18 | 86,86,86,86                | 0     |
| 56  | MG   | CA    | 1676 | 1/1   | 0.80 | 0.17 | 83,83,83,83                | 0     |
| 56  | MG   | DA    | 3089 | 1/1   | 0.80 | 0.51 | 82,82,82,82                | 0     |
| 56  | MG   | AA    | 1784 | 1/1   | 0.80 | 0.32 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3192 | 1/1   | 0.80 | 0.59 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3294 | 1/1   | 0.80 | 0.13 | 67,67,67,67                | 0     |
| 56  | MG   | BA    | 3736 | 1/1   | 0.80 | 0.21 | 59,59,59,59                | 0     |
| 56  | MG   | DB    | 213  | 1/1   | 0.80 | 0.35 | 115,115,115,115            | 0     |
| 56  | MG   | BA    | 3317 | 1/1   | 0.80 | 0.36 | 61,61,61,61                | 0     |
| 56  | MG   | BO    | 201  | 1/1   | 0.80 | 0.32 | 62,62,62,62                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3381 | 1/1   | 0.80 | 0.19 | 88,88,88,88                | 0     |
| 56  | MG   | AY    | 201  | 1/1   | 0.80 | 0.21 | 111,111,111,111            | 0     |
| 56  | MG   | DB    | 205  | 1/1   | 0.80 | 0.21 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3510 | 1/1   | 0.80 | 0.26 | 60,60,60,60                | 0     |
| 56  | MG   | BA    | 3571 | 1/1   | 0.80 | 0.17 | 31,31,31,31                | 0     |
| 56  | MG   | AA    | 1723 | 1/1   | 0.80 | 0.23 | 102,102,102,102            | 0     |
| 56  | MG   | AA    | 1809 | 1/1   | 0.80 | 0.21 | 83,83,83,83                | 0     |
| 56  | MG   | DA    | 3676 | 1/1   | 0.80 | 0.28 | 94,94,94,94                | 0     |
| 56  | MG   | DA    | 3214 | 1/1   | 0.80 | 0.30 | 64,64,64,64                | 0     |
| 56  | MG   | AA    | 1834 | 1/1   | 0.80 | 0.39 | 76,76,76,76                | 0     |
| 56  | MG   | AE    | 201  | 1/1   | 0.80 | 0.46 | 83,83,83,83                | 0     |
| 56  | MG   | DA    | 3695 | 1/1   | 0.80 | 0.14 | 107,107,107,107            | 0     |
| 56  | MG   | CA    | 1622 | 1/1   | 0.80 | 0.76 | 80,80,80,80                | 0     |
| 56  | MG   | DA    | 3682 | 1/1   | 0.80 | 0.12 | 90,90,90,90                | 0     |
| 56  | MG   | DA    | 3510 | 1/1   | 0.80 | 0.23 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3570 | 1/1   | 0.80 | 0.22 | 79,79,79,79                | 0     |
| 56  | MG   | AA    | 1838 | 1/1   | 0.80 | 0.20 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3005 | 1/1   | 0.80 | 0.37 | 73,73,73,73                | 0     |
| 56  | MG   | BA    | 3082 | 1/1   | 0.80 | 0.27 | 45,45,45,45                | 0     |
| 56  | MG   | AV    | 106  | 1/1   | 0.80 | 0.23 | 68,68,68,68                | 0     |
| 56  | MG   | AI    | 202  | 1/1   | 0.80 | 0.40 | 90,90,90,90                | 0     |
| 56  | MG   | AF    | 201  | 1/1   | 0.80 | 0.36 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3801 | 1/1   | 0.80 | 0.38 | 93,93,93,93                | 0     |
| 56  | MG   | DT    | 201  | 1/1   | 0.80 | 0.20 | 73,73,73,73                | 0     |
| 56  | MG   | DA    | 3029 | 1/1   | 0.80 | 0.78 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3280 | 1/1   | 0.80 | 0.31 | 58,58,58,58                | 0     |
| 56  | MG   | CA    | 1748 | 1/1   | 0.81 | 0.15 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3395 | 1/1   | 0.81 | 0.17 | 100,100,100,100            | 0     |
| 56  | MG   | BA    | 3509 | 1/1   | 0.81 | 0.50 | 54,54,54,54                | 0     |
| 56  | MG   | AA    | 1931 | 1/1   | 0.81 | 0.24 | 103,103,103,103            | 0     |
| 56  | MG   | CA    | 1819 | 1/1   | 0.81 | 0.26 | 96,96,96,96                | 0     |
| 56  | MG   | CA    | 1671 | 1/1   | 0.81 | 0.20 | 82,82,82,82                | 0     |
| 56  | MG   | BA    | 3325 | 1/1   | 0.81 | 0.23 | 83,83,83,83                | 0     |
| 56  | MG   | DA    | 3233 | 1/1   | 0.81 | 0.33 | 80,80,80,80                | 0     |
| 56  | MG   | CV    | 107  | 1/1   | 0.81 | 0.30 | 70,70,70,70                | 0     |
| 56  | MG   | DA    | 3254 | 1/1   | 0.81 | 0.36 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3479 | 1/1   | 0.81 | 0.43 | 63,63,63,63                | 0     |
| 56  | MG   | DA    | 3211 | 1/1   | 0.81 | 0.34 | 83,83,83,83                | 0     |
| 56  | MG   | BB    | 206  | 1/1   | 0.81 | 0.16 | 61,61,61,61                | 0     |
| 56  | MG   | DA    | 3236 | 1/1   | 0.81 | 0.47 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3671 | 1/1   | 0.81 | 0.11 | 92,92,92,92                | 0     |
| 56  | MG   | AA    | 1719 | 1/1   | 0.81 | 0.26 | 70,70,70,70                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | AA    | 1884 | 1/1   | 0.81 | 0.16 | 82,82,82,82                | 0     |
| 56  | MG   | D6    | 102  | 1/1   | 0.81 | 0.96 | 82,82,82,82                | 0     |
| 56  | MG   | AA    | 1822 | 1/1   | 0.81 | 0.41 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3210 | 1/1   | 0.81 | 0.36 | 74,74,74,74                | 0     |
| 56  | MG   | AA    | 1742 | 1/1   | 0.81 | 0.20 | 93,93,93,93                | 0     |
| 56  | MG   | DA    | 3614 | 1/1   | 0.81 | 0.38 | 98,98,98,98                | 0     |
| 56  | MG   | DA    | 3688 | 1/1   | 0.81 | 0.15 | 80,80,80,80                | 0     |
| 56  | MG   | AA    | 1693 | 1/1   | 0.81 | 0.38 | 103,103,103,103            | 0     |
| 56  | MG   | BA    | 3408 | 1/1   | 0.81 | 0.28 | 44,44,44,44                | 0     |
| 56  | MG   | BA    | 3300 | 1/1   | 0.81 | 0.12 | 70,70,70,70                | 0     |
| 56  | MG   | DA    | 3282 | 1/1   | 0.81 | 0.60 | 75,75,75,75                | 0     |
| 56  | MG   | CA    | 1604 | 1/1   | 0.81 | 0.45 | 114,114,114,114            | 0     |
| 56  | MG   | DA    | 3331 | 1/1   | 0.81 | 0.49 | 77,77,77,77                | 0     |
| 56  | MG   | AA    | 1760 | 1/1   | 0.81 | 0.83 | 64,64,64,64                | 0     |
| 56  | MG   | DA    | 3696 | 1/1   | 0.81 | 0.23 | 96,96,96,96                | 0     |
| 56  | MG   | AA    | 1708 | 1/1   | 0.81 | 0.28 | 79,79,79,79                | 0     |
| 56  | MG   | DA    | 3040 | 1/1   | 0.81 | 0.17 | 78,78,78,78                | 0     |
| 56  | MG   | CA    | 1674 | 1/1   | 0.81 | 0.34 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3483 | 1/1   | 0.81 | 0.30 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1785 | 1/1   | 0.81 | 0.31 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3501 | 1/1   | 0.81 | 0.36 | 80,80,80,80                | 0     |
| 56  | MG   | BG    | 201  | 1/1   | 0.81 | 0.32 | 54,54,54,54                | 0     |
| 56  | MG   | DA    | 3033 | 1/1   | 0.81 | 0.13 | 74,74,74,74                | 0     |
| 56  | MG   | DA    | 3302 | 1/1   | 0.81 | 0.32 | 76,76,76,76                | 0     |
| 56  | MG   | AA    | 1844 | 1/1   | 0.81 | 0.35 | 86,86,86,86                | 0     |
| 56  | MG   | DA    | 3603 | 1/1   | 0.81 | 0.51 | 100,100,100,100            | 0     |
| 56  | MG   | BA    | 3125 | 1/1   | 0.81 | 0.55 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3054 | 1/1   | 0.82 | 0.25 | 58,58,58,58                | 0     |
| 56  | MG   | DA    | 3122 | 1/1   | 0.82 | 0.71 | 65,65,65,65                | 0     |
| 56  | MG   | BA    | 3764 | 1/1   | 0.82 | 0.07 | 85,85,85,85                | 0     |
| 56  | MG   | DA    | 3269 | 1/1   | 0.82 | 0.17 | 85,85,85,85                | 0     |
| 56  | MG   | AA    | 1722 | 1/1   | 0.82 | 0.38 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3087 | 1/1   | 0.82 | 0.36 | 40,40,40,40                | 0     |
| 56  | MG   | BA    | 3158 | 1/1   | 0.82 | 0.40 | 48,48,48,48                | 0     |
| 56  | MG   | AA    | 1739 | 1/1   | 0.82 | 0.54 | 99,99,99,99                | 0     |
| 56  | MG   | DA    | 3369 | 1/1   | 0.82 | 0.21 | 94,94,94,94                | 0     |
| 56  | MG   | AA    | 1694 | 1/1   | 0.82 | 0.32 | 74,74,74,74                | 0     |
| 56  | MG   | BA    | 3045 | 1/1   | 0.82 | 0.30 | 35,35,35,35                | 0     |
| 56  | MG   | BA    | 3415 | 1/1   | 0.82 | 0.31 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3472 | 1/1   | 0.82 | 0.67 | 58,58,58,58                | 0     |
| 56  | MG   | CA    | 1665 | 1/1   | 0.82 | 0.65 | 64,64,64,64                | 0     |
| 56  | MG   | BA    | 3194 | 1/1   | 0.82 | 0.30 | 70,70,70,70                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3377 | 1/1   | 0.82 | 0.45 | 50,50,50,50                 | 0     |
| 56  | MG   | CA    | 1810 | 1/1   | 0.82 | 0.08 | 92,92,92,92                 | 0     |
| 56  | MG   | DA    | 3363 | 1/1   | 0.82 | 0.24 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3089 | 1/1   | 0.82 | 0.43 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3797 | 1/1   | 0.82 | 0.21 | 91,91,91,91                 | 0     |
| 56  | MG   | AA    | 1930 | 1/1   | 0.82 | 0.13 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3035 | 1/1   | 0.82 | 0.20 | 76,76,76,76                 | 0     |
| 56  | MG   | AA    | 1773 | 1/1   | 0.82 | 0.31 | 58,58,58,58                 | 0     |
| 56  | MG   | CA    | 1688 | 1/1   | 0.82 | 0.34 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3874 | 1/1   | 0.82 | 0.30 | 90,90,90,90                 | 0     |
| 56  | MG   | DA    | 3213 | 1/1   | 0.82 | 0.41 | 89,89,89,89                 | 0     |
| 56  | MG   | CA    | 1659 | 1/1   | 0.82 | 0.11 | 85,85,85,85                 | 0     |
| 56  | MG   | CA    | 1814 | 1/1   | 0.82 | 0.09 | 114,114,114,114             | 0     |
| 56  | MG   | DA    | 3206 | 1/1   | 0.82 | 0.17 | 92,92,92,92                 | 0     |
| 56  | MG   | DA    | 3208 | 1/1   | 0.82 | 0.29 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3002 | 1/1   | 0.82 | 0.34 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1913 | 1/1   | 0.82 | 0.14 | 109,109,109,109             | 0     |
| 56  | MG   | DB    | 212  | 1/1   | 0.82 | 0.14 | 111,111,111,111             | 0     |
| 56  | MG   | BA    | 3223 | 1/1   | 0.82 | 0.24 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3087 | 1/1   | 0.82 | 0.10 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3812 | 1/1   | 0.82 | 0.10 | 87,87,87,87                 | 0     |
| 56  | MG   | AA    | 1812 | 1/1   | 0.82 | 0.33 | 122,122,122,122             | 0     |
| 56  | MG   | DA    | 3189 | 1/1   | 0.82 | 0.20 | 63,63,63,63                 | 0     |
| 56  | MG   | DE    | 301  | 1/1   | 0.82 | 0.21 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3197 | 1/1   | 0.82 | 0.27 | 82,82,82,82                 | 0     |
| 56  | MG   | CA    | 1751 | 1/1   | 0.83 | 0.10 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3892 | 1/1   | 0.83 | 0.21 | 94,94,94,94                 | 0     |
| 56  | MG   | BA    | 3191 | 1/1   | 0.83 | 0.39 | 78,78,78,78                 | 0     |
| 56  | MG   | CA    | 1645 | 1/1   | 0.83 | 0.40 | 74,74,74,74                 | 0     |
| 56  | MG   | BB    | 209  | 1/1   | 0.83 | 0.36 | 79,79,79,79                 | 0     |
| 56  | MG   | AA    | 1612 | 1/1   | 0.83 | 0.26 | 60,60,60,60                 | 0     |
| 56  | MG   | CA    | 1734 | 1/1   | 0.83 | 0.24 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1648 | 1/1   | 0.83 | 0.20 | 73,73,73,73                 | 0     |
| 56  | MG   | DA    | 3223 | 1/1   | 0.83 | 0.57 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1624 | 1/1   | 0.83 | 0.26 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3036 | 1/1   | 0.83 | 0.18 | 57,57,57,57                 | 0     |
| 56  | MG   | AA    | 1775 | 1/1   | 0.83 | 0.12 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3329 | 1/1   | 0.83 | 0.45 | 63,63,63,63                 | 0     |
| 56  | MG   | CA    | 1631 | 1/1   | 0.83 | 0.58 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3286 | 1/1   | 0.83 | 0.35 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3267 | 1/1   | 0.83 | 0.46 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1793 | 1/1   | 0.83 | 0.25 | 72,72,72,72                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3542 | 1/1   | 0.83 | 0.14 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3685 | 1/1   | 0.83 | 0.19 | 96,96,96,96                 | 0     |
| 56  | MG   | AA    | 1726 | 1/1   | 0.83 | 0.24 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3055 | 1/1   | 0.83 | 0.25 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3780 | 1/1   | 0.83 | 0.24 | 86,86,86,86                 | 0     |
| 56  | MG   | DA    | 3557 | 1/1   | 0.83 | 0.54 | 93,93,93,93                 | 0     |
| 56  | MG   | BA    | 3819 | 1/1   | 0.83 | 0.13 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3350 | 1/1   | 0.83 | 0.20 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3291 | 1/1   | 0.83 | 0.35 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3589 | 1/1   | 0.83 | 0.13 | 38,38,38,38                 | 0     |
| 56  | MG   | CA    | 1632 | 1/1   | 0.83 | 0.40 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3582 | 1/1   | 0.83 | 0.13 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3008 | 1/1   | 0.83 | 0.19 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3329 | 1/1   | 0.83 | 0.14 | 85,85,85,85                 | 0     |
| 56  | MG   | DA    | 3280 | 1/1   | 0.83 | 0.39 | 80,80,80,80                 | 0     |
| 56  | MG   | AA    | 1843 | 1/1   | 0.83 | 0.12 | 73,73,73,73                 | 0     |
| 56  | MG   | CA    | 1605 | 1/1   | 0.83 | 0.52 | 59,59,59,59                 | 0     |
| 56  | MG   | CA    | 1728 | 1/1   | 0.83 | 0.15 | 83,83,83,83                 | 0     |
| 56  | MG   | AA    | 1820 | 1/1   | 0.83 | 0.28 | 86,86,86,86                 | 0     |
| 56  | MG   | CA    | 1783 | 1/1   | 0.83 | 0.06 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3880 | 1/1   | 0.83 | 0.09 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3128 | 1/1   | 0.83 | 0.48 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3017 | 1/1   | 0.83 | 0.32 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3858 | 1/1   | 0.83 | 0.26 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1731 | 1/1   | 0.83 | 0.17 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1737 | 1/1   | 0.83 | 0.30 | 90,90,90,90                 | 0     |
| 56  | MG   | DA    | 3007 | 1/1   | 0.83 | 0.14 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3513 | 1/1   | 0.83 | 0.15 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1754 | 1/1   | 0.83 | 0.35 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3123 | 1/1   | 0.83 | 0.44 | 61,61,61,61                 | 0     |
| 56  | MG   | CA    | 1603 | 1/1   | 0.83 | 0.68 | 72,72,72,72                 | 0     |
| 56  | MG   | AA    | 1925 | 1/1   | 0.83 | 0.10 | 86,86,86,86                 | 0     |
| 56  | MG   | DA    | 3013 | 1/1   | 0.83 | 0.13 | 97,97,97,97                 | 0     |
| 56  | MG   | DA    | 3227 | 1/1   | 0.83 | 0.32 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3256 | 1/1   | 0.83 | 0.35 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3416 | 1/1   | 0.83 | 0.21 | 58,58,58,58                 | 0     |
| 56  | MG   | CA    | 1647 | 1/1   | 0.84 | 0.24 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3360 | 1/1   | 0.84 | 0.25 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3424 | 1/1   | 0.84 | 0.21 | 42,42,42,42                 | 0     |
| 56  | MG   | DB    | 214  | 1/1   | 0.84 | 0.28 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3355 | 1/1   | 0.84 | 0.26 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3046 | 1/1   | 0.84 | 0.12 | 79,79,79,79                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1657 | 1/1   | 0.84 | 0.46 | 67,67,67,67                 | 0     |
| 56  | MG   | CA    | 1657 | 1/1   | 0.84 | 0.14 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3820 | 1/1   | 0.84 | 0.42 | 93,93,93,93                 | 0     |
| 56  | MG   | AA    | 1833 | 1/1   | 0.84 | 0.19 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1697 | 1/1   | 0.84 | 0.31 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1787 | 1/1   | 0.84 | 0.27 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3575 | 1/1   | 0.84 | 0.11 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3073 | 1/1   | 0.84 | 0.57 | 63,63,63,63                 | 0     |
| 56  | MG   | BD    | 302  | 1/1   | 0.84 | 0.38 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3383 | 1/1   | 0.84 | 0.45 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3348 | 1/1   | 0.84 | 0.31 | 77,77,77,77                 | 0     |
| 56  | MG   | DO    | 201  | 1/1   | 0.84 | 0.30 | 80,80,80,80                 | 0     |
| 56  | MG   | AA    | 1662 | 1/1   | 0.84 | 0.47 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3081 | 1/1   | 0.84 | 0.22 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3342 | 1/1   | 0.84 | 0.32 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3307 | 1/1   | 0.84 | 0.26 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3411 | 1/1   | 0.84 | 0.22 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3310 | 1/1   | 0.84 | 0.89 | 72,72,72,72                 | 0     |
| 56  | MG   | AA    | 1917 | 1/1   | 0.84 | 0.17 | 71,71,71,71                 | 0     |
| 56  | MG   | AA    | 1642 | 1/1   | 0.84 | 0.31 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3491 | 1/1   | 0.84 | 0.32 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3827 | 1/1   | 0.84 | 0.16 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3154 | 1/1   | 0.84 | 0.33 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1846 | 1/1   | 0.84 | 0.34 | 90,90,90,90                 | 0     |
| 56  | MG   | DA    | 3528 | 1/1   | 0.84 | 0.22 | 88,88,88,88                 | 0     |
| 56  | MG   | AA    | 1801 | 1/1   | 0.84 | 0.38 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3871 | 1/1   | 0.84 | 0.12 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3338 | 1/1   | 0.84 | 0.46 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3160 | 1/1   | 0.84 | 0.32 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3234 | 1/1   | 0.84 | 0.35 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3618 | 1/1   | 0.84 | 0.20 | 80,80,80,80                 | 0     |
| 56  | MG   | AA    | 1795 | 1/1   | 0.84 | 0.53 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3295 | 1/1   | 0.84 | 0.11 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1602 | 1/1   | 0.84 | 0.19 | 104,104,104,104             | 0     |
| 56  | MG   | AA    | 1706 | 1/1   | 0.84 | 0.24 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3662 | 1/1   | 0.84 | 0.09 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1641 | 1/1   | 0.84 | 0.49 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1817 | 1/1   | 0.84 | 0.81 | 93,93,93,93                 | 0     |
| 56  | MG   | CA    | 1685 | 1/1   | 0.84 | 0.31 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3485 | 1/1   | 0.84 | 0.24 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3466 | 1/1   | 0.84 | 0.07 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3010 | 1/1   | 0.84 | 0.23 | 78,78,78,78                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3372 | 1/1   | 0.84 | 0.34 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3312 | 1/1   | 0.84 | 0.29 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3174 | 1/1   | 0.85 | 0.53 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3162 | 1/1   | 0.85 | 0.76 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1830 | 1/1   | 0.85 | 0.40 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3113 | 1/1   | 0.85 | 0.23 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1880 | 1/1   | 0.85 | 0.41 | 79,79,79,79                 | 0     |
| 56  | MG   | AA    | 1894 | 1/1   | 0.85 | 0.40 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3185 | 1/1   | 0.85 | 0.30 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3367 | 1/1   | 0.85 | 0.80 | 50,50,50,50                 | 0     |
| 56  | MG   | DB    | 216  | 1/1   | 0.85 | 0.10 | 109,109,109,109             | 0     |
| 56  | MG   | BA    | 3315 | 1/1   | 0.85 | 0.41 | 54,54,54,54                 | 0     |
| 56  | MG   | CA    | 1629 | 1/1   | 0.85 | 0.74 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3472 | 1/1   | 0.85 | 0.14 | 78,78,78,78                 | 0     |
| 56  | MG   | B1    | 101  | 1/1   | 0.85 | 0.29 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3443 | 1/1   | 0.85 | 0.13 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1703 | 1/1   | 0.85 | 0.34 | 74,74,74,74                 | 0     |
| 56  | MG   | AV    | 110  | 1/1   | 0.85 | 0.28 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3084 | 1/1   | 0.85 | 0.33 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3341 | 1/1   | 0.85 | 0.25 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3566 | 1/1   | 0.85 | 0.19 | 84,84,84,84                 | 0     |
| 56  | MG   | CA    | 1640 | 1/1   | 0.85 | 0.23 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3218 | 1/1   | 0.85 | 0.55 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3334 | 1/1   | 0.85 | 0.33 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3611 | 1/1   | 0.85 | 0.28 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3849 | 1/1   | 0.85 | 0.19 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3126 | 1/1   | 0.85 | 0.23 | 69,69,69,69                 | 0     |
| 56  | MG   | AA    | 1651 | 1/1   | 0.85 | 0.24 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3792 | 1/1   | 0.85 | 0.20 | 48,48,48,48                 | 0     |
| 56  | MG   | AA    | 1811 | 1/1   | 0.85 | 0.26 | 120,120,120,120             | 0     |
| 56  | MG   | DB    | 203  | 1/1   | 0.85 | 0.27 | 105,105,105,105             | 0     |
| 56  | MG   | CA    | 1613 | 1/1   | 0.85 | 0.41 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3216 | 1/1   | 0.85 | 0.23 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3482 | 1/1   | 0.85 | 0.20 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3105 | 1/1   | 0.85 | 0.44 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3366 | 1/1   | 0.85 | 0.16 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3371 | 1/1   | 0.85 | 0.18 | 66,66,66,66                 | 0     |
| 56  | MG   | CX    | 101  | 1/1   | 0.85 | 0.25 | 99,99,99,99                 | 0     |
| 56  | MG   | DA    | 3590 | 1/1   | 0.85 | 0.29 | 89,89,89,89                 | 0     |
| 56  | MG   | CA    | 1736 | 1/1   | 0.85 | 0.09 | 97,97,97,97                 | 0     |
| 56  | MG   | AA    | 1837 | 1/1   | 0.85 | 0.17 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1851 | 1/1   | 0.85 | 0.15 | 80,80,80,80                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3344 | 1/1   | 0.85 | 0.34 | 88,88,88,88                | 0     |
| 56  | MG   | DA    | 3064 | 1/1   | 0.85 | 0.27 | 66,66,66,66                | 0     |
| 56  | MG   | AA    | 1669 | 1/1   | 0.85 | 0.37 | 84,84,84,84                | 0     |
| 56  | MG   | DA    | 3364 | 1/1   | 0.85 | 0.17 | 94,94,94,94                | 0     |
| 56  | MG   | DA    | 3292 | 1/1   | 0.85 | 0.24 | 69,69,69,69                | 0     |
| 56  | MG   | BA    | 3873 | 1/1   | 0.85 | 0.09 | 74,74,74,74                | 0     |
| 56  | MG   | DA    | 3623 | 1/1   | 0.85 | 0.31 | 85,85,85,85                | 0     |
| 56  | MG   | BA    | 3399 | 1/1   | 0.85 | 0.09 | 95,95,95,95                | 0     |
| 56  | MG   | AA    | 1914 | 1/1   | 0.85 | 0.19 | 104,104,104,104            | 0     |
| 56  | MG   | BA    | 3098 | 1/1   | 0.85 | 0.28 | 51,51,51,51                | 0     |
| 56  | MG   | DA    | 3579 | 1/1   | 0.85 | 0.20 | 104,104,104,104            | 0     |
| 56  | MG   | BA    | 3488 | 1/1   | 0.85 | 0.70 | 35,35,35,35                | 0     |
| 56  | MG   | DA    | 3673 | 1/1   | 0.85 | 0.39 | 111,111,111,111            | 0     |
| 56  | MG   | DA    | 3316 | 1/1   | 0.85 | 0.13 | 80,80,80,80                | 0     |
| 56  | MG   | BA    | 3439 | 1/1   | 0.85 | 0.29 | 82,82,82,82                | 0     |
| 56  | MG   | AA    | 1821 | 1/1   | 0.85 | 0.22 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3247 | 1/1   | 0.85 | 0.30 | 58,58,58,58                | 0     |
| 56  | MG   | AA    | 1646 | 1/1   | 0.85 | 0.45 | 64,64,64,64                | 0     |
| 56  | MG   | DA    | 3332 | 1/1   | 0.85 | 0.40 | 63,63,63,63                | 0     |
| 56  | MG   | DA    | 3279 | 1/1   | 0.85 | 0.24 | 74,74,74,74                | 0     |
| 56  | MG   | DA    | 3294 | 1/1   | 0.85 | 0.22 | 82,82,82,82                | 0     |
| 56  | MG   | BA    | 3844 | 1/1   | 0.85 | 0.17 | 99,99,99,99                | 0     |
| 56  | MG   | DA    | 3188 | 1/1   | 0.85 | 0.49 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3400 | 1/1   | 0.85 | 0.28 | 53,53,53,53                | 0     |
| 56  | MG   | DA    | 3430 | 1/1   | 0.85 | 0.21 | 83,83,83,83                | 0     |
| 56  | MG   | AA    | 1771 | 1/1   | 0.85 | 0.28 | 68,68,68,68                | 0     |
| 56  | MG   | AA    | 1704 | 1/1   | 0.85 | 0.29 | 79,79,79,79                | 0     |
| 56  | MG   | DA    | 3274 | 1/1   | 0.85 | 0.76 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1629 | 1/1   | 0.86 | 0.38 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3228 | 1/1   | 0.86 | 0.34 | 90,90,90,90                | 0     |
| 56  | MG   | DA    | 3318 | 1/1   | 0.86 | 0.19 | 83,83,83,83                | 0     |
| 56  | MG   | BD    | 301  | 1/1   | 0.86 | 0.27 | 65,65,65,65                | 0     |
| 56  | MG   | AV    | 118  | 1/1   | 0.86 | 0.09 | 83,83,83,83                | 0     |
| 56  | MG   | CA    | 1717 | 1/1   | 0.86 | 0.50 | 77,77,77,77                | 0     |
| 56  | MG   | BA    | 3420 | 1/1   | 0.86 | 0.23 | 65,65,65,65                | 0     |
| 56  | MG   | DA    | 3507 | 1/1   | 0.86 | 0.20 | 109,109,109,109            | 0     |
| 56  | MG   | CA    | 1644 | 1/1   | 0.86 | 0.17 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3567 | 1/1   | 0.86 | 0.29 | 77,77,77,77                | 0     |
| 56  | MG   | BA    | 3388 | 1/1   | 0.86 | 0.33 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3664 | 1/1   | 0.86 | 0.22 | 97,97,97,97                | 0     |
| 56  | MG   | BA    | 3331 | 1/1   | 0.86 | 0.26 | 66,66,66,66                | 0     |
| 56  | MG   | AA    | 1794 | 1/1   | 0.86 | 0.52 | 68,68,68,68                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | AA    | 1638 | 1/1   | 0.86 | 0.31 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3395 | 1/1   | 0.86 | 0.15 | 58,58,58,58                | 0     |
| 56  | MG   | CA    | 1787 | 1/1   | 0.86 | 0.17 | 98,98,98,98                | 0     |
| 56  | MG   | AA    | 1887 | 1/1   | 0.86 | 0.23 | 90,90,90,90                | 0     |
| 56  | MG   | DA    | 3056 | 1/1   | 0.86 | 0.30 | 59,59,59,59                | 0     |
| 56  | MG   | CA    | 1635 | 1/1   | 0.86 | 0.44 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3480 | 1/1   | 0.86 | 0.20 | 70,70,70,70                | 0     |
| 56  | MG   | CA    | 1606 | 1/1   | 0.86 | 0.26 | 77,77,77,77                | 0     |
| 56  | MG   | AA    | 1825 | 1/1   | 0.86 | 0.28 | 64,64,64,64                | 0     |
| 56  | MG   | AA    | 1603 | 1/1   | 0.86 | 0.12 | 78,78,78,78                | 0     |
| 56  | MG   | CV    | 105  | 1/1   | 0.86 | 0.15 | 106,106,106,106            | 0     |
| 56  | MG   | DA    | 3527 | 1/1   | 0.86 | 0.27 | 81,81,81,81                | 0     |
| 56  | MG   | DA    | 3226 | 1/1   | 0.86 | 0.76 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3663 | 1/1   | 0.86 | 0.16 | 21,21,21,21                | 0     |
| 56  | MG   | BA    | 3866 | 1/1   | 0.86 | 0.08 | 82,82,82,82                | 0     |
| 56  | MG   | DB    | 206  | 1/1   | 0.86 | 0.29 | 77,77,77,77                | 0     |
| 56  | MG   | AA    | 1888 | 1/1   | 0.86 | 0.20 | 97,97,97,97                | 0     |
| 56  | MG   | CA    | 1684 | 1/1   | 0.86 | 0.16 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1709 | 1/1   | 0.86 | 0.11 | 86,86,86,86                | 0     |
| 56  | MG   | DA    | 3382 | 1/1   | 0.86 | 0.71 | 72,72,72,72                | 0     |
| 56  | MG   | AA    | 1904 | 1/1   | 0.86 | 0.07 | 118,118,118,118            | 0     |
| 56  | MG   | AA    | 1690 | 1/1   | 0.86 | 0.35 | 65,65,65,65                | 0     |
| 56  | MG   | DA    | 3290 | 1/1   | 0.86 | 0.36 | 79,79,79,79                | 0     |
| 56  | MG   | DA    | 3204 | 1/1   | 0.86 | 0.38 | 76,76,76,76                | 0     |
| 56  | MG   | DA    | 3004 | 1/1   | 0.86 | 0.42 | 75,75,75,75                | 0     |
| 56  | MG   | CA    | 1608 | 1/1   | 0.86 | 0.51 | 80,80,80,80                | 0     |
| 56  | MG   | BA    | 3334 | 1/1   | 0.86 | 0.43 | 51,51,51,51                | 0     |
| 56  | MG   | AA    | 1751 | 1/1   | 0.86 | 0.21 | 74,74,74,74                | 0     |
| 56  | MG   | CA    | 1713 | 1/1   | 0.86 | 0.11 | 71,71,71,71                | 0     |
| 56  | MG   | AA    | 1898 | 1/1   | 0.86 | 0.13 | 98,98,98,98                | 0     |
| 56  | MG   | DA    | 3469 | 1/1   | 0.86 | 0.09 | 84,84,84,84                | 0     |
| 56  | MG   | CV    | 109  | 1/1   | 0.86 | 0.09 | 102,102,102,102            | 0     |
| 56  | MG   | AA    | 1798 | 1/1   | 0.86 | 0.41 | 54,54,54,54                | 0     |
| 56  | MG   | DA    | 3277 | 1/1   | 0.86 | 0.26 | 67,67,67,67                | 0     |
| 56  | MG   | DA    | 3148 | 1/1   | 0.86 | 0.57 | 80,80,80,80                | 0     |
| 56  | MG   | DA    | 3624 | 1/1   | 0.86 | 0.25 | 82,82,82,82                | 0     |
| 56  | MG   | CA    | 1793 | 1/1   | 0.86 | 0.27 | 73,73,73,73                | 0     |
| 56  | MG   | AA    | 1786 | 1/1   | 0.86 | 0.32 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3333 | 1/1   | 0.86 | 0.42 | 50,50,50,50                | 0     |
| 56  | MG   | DA    | 3448 | 1/1   | 0.86 | 0.16 | 73,73,73,73                | 0     |
| 56  | MG   | AA    | 1774 | 1/1   | 0.86 | 0.29 | 69,69,69,69                | 0     |
| 56  | MG   | BA    | 3828 | 1/1   | 0.86 | 0.16 | 99,99,99,99                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3620 | 1/1   | 0.86 | 0.28 | 95,95,95,95                 | 0     |
| 56  | MG   | BA    | 3290 | 1/1   | 0.86 | 0.26 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3666 | 1/1   | 0.86 | 0.41 | 100,100,100,100             | 0     |
| 56  | MG   | CA    | 1767 | 1/1   | 0.86 | 0.25 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3514 | 1/1   | 0.86 | 0.27 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3314 | 1/1   | 0.87 | 0.31 | 65,65,65,65                 | 0     |
| 56  | MG   | CA    | 1714 | 1/1   | 0.87 | 0.14 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3343 | 1/1   | 0.87 | 0.65 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1687 | 1/1   | 0.87 | 0.26 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3320 | 1/1   | 0.87 | 0.24 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3400 | 1/1   | 0.87 | 0.06 | 122,122,122,122             | 0     |
| 56  | MG   | DA    | 3380 | 1/1   | 0.87 | 0.18 | 84,84,84,84                 | 0     |
| 56  | MG   | D7    | 101  | 1/1   | 0.87 | 0.69 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3407 | 1/1   | 0.87 | 0.22 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3693 | 1/1   | 0.87 | 0.33 | 103,103,103,103             | 0     |
| 56  | MG   | AA    | 1902 | 1/1   | 0.87 | 0.26 | 121,121,121,121             | 0     |
| 56  | MG   | DA    | 3541 | 1/1   | 0.87 | 0.11 | 106,106,106,106             | 0     |
| 56  | MG   | DQ    | 201  | 1/1   | 0.87 | 0.46 | 43,43,43,43                 | 0     |
| 56  | MG   | AA    | 1883 | 1/1   | 0.87 | 0.06 | 86,86,86,86                 | 0     |
| 56  | MG   | AV    | 103  | 1/1   | 0.87 | 0.30 | 53,53,53,53                 | 0     |
| 56  | MG   | CA    | 1791 | 1/1   | 0.87 | 0.24 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3120 | 1/1   | 0.87 | 0.26 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3030 | 1/1   | 0.87 | 0.52 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3895 | 1/1   | 0.87 | 0.12 | 78,78,78,78                 | 0     |
| 56  | MG   | AA    | 1721 | 1/1   | 0.87 | 0.28 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3114 | 1/1   | 0.87 | 0.19 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1643 | 1/1   | 0.87 | 0.56 | 59,59,59,59                 | 0     |
| 56  | MG   | CA    | 1637 | 1/1   | 0.87 | 0.26 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3014 | 1/1   | 0.87 | 0.43 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3359 | 1/1   | 0.87 | 0.16 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3405 | 1/1   | 0.87 | 0.41 | 62,62,62,62                 | 0     |
| 56  | MG   | AA    | 1680 | 1/1   | 0.87 | 0.12 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3155 | 1/1   | 0.87 | 0.43 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3265 | 1/1   | 0.87 | 0.23 | 67,67,67,67                 | 0     |
| 56  | MG   | DA    | 3260 | 1/1   | 0.87 | 0.21 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3123 | 1/1   | 0.87 | 0.25 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3140 | 1/1   | 0.87 | 0.24 | 53,53,53,53                 | 0     |
| 56  | MG   | CA    | 1804 | 1/1   | 0.87 | 0.22 | 103,103,103,103             | 0     |
| 56  | MG   | DA    | 3303 | 1/1   | 0.87 | 0.28 | 54,54,54,54                 | 0     |
| 56  | MG   | DU    | 201  | 1/1   | 0.87 | 0.31 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3535 | 1/1   | 0.87 | 0.15 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3157 | 1/1   | 0.87 | 0.31 | 82,82,82,82                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3368 | 1/1   | 0.87 | 0.13 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3147 | 1/1   | 0.87 | 0.14 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3478 | 1/1   | 0.87 | 0.25 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3457 | 1/1   | 0.87 | 0.20 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3188 | 1/1   | 0.87 | 0.33 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3438 | 1/1   | 0.87 | 0.37 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3607 | 1/1   | 0.87 | 0.14 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3281 | 1/1   | 0.87 | 0.52 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3708 | 1/1   | 0.87 | 0.07 | 85,85,85,85                 | 0     |
| 56  | MG   | AA    | 1903 | 1/1   | 0.87 | 0.20 | 117,117,117,117             | 0     |
| 56  | MG   | DA    | 3549 | 1/1   | 0.87 | 0.19 | 87,87,87,87                 | 0     |
| 56  | MG   | DA    | 3061 | 1/1   | 0.87 | 0.75 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3088 | 1/1   | 0.87 | 0.30 | 73,73,73,73                 | 0     |
| 56  | MG   | DA    | 3207 | 1/1   | 0.87 | 0.15 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3544 | 1/1   | 0.87 | 0.11 | 79,79,79,79                 | 0     |
| 56  | MG   | CA    | 1673 | 1/1   | 0.87 | 0.27 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1912 | 1/1   | 0.87 | 0.14 | 106,106,106,106             | 0     |
| 56  | MG   | AA    | 1752 | 1/1   | 0.87 | 0.37 | 88,88,88,88                 | 0     |
| 56  | MG   | DA    | 3606 | 1/1   | 0.87 | 0.08 | 76,76,76,76                 | 0     |
| 56  | MG   | CA    | 1639 | 1/1   | 0.87 | 0.77 | 96,96,96,96                 | 0     |
| 56  | MG   | D0    | 104  | 1/1   | 0.87 | 0.26 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3283 | 1/1   | 0.87 | 0.23 | 47,47,47,47                 | 0     |
| 56  | MG   | DA    | 3276 | 1/1   | 0.87 | 0.22 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3421 | 1/1   | 0.87 | 0.12 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3423 | 1/1   | 0.87 | 0.18 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3259 | 1/1   | 0.87 | 0.32 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3612 | 1/1   | 0.87 | 0.20 | 87,87,87,87                 | 0     |
| 56  | MG   | BA    | 3307 | 1/1   | 0.87 | 0.30 | 48,48,48,48                 | 0     |
| 56  | MG   | DB    | 208  | 1/1   | 0.87 | 0.12 | 98,98,98,98                 | 0     |
| 56  | MG   | AA    | 1717 | 1/1   | 0.87 | 0.18 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3043 | 1/1   | 0.87 | 0.18 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3226 | 1/1   | 0.87 | 0.22 | 36,36,36,36                 | 0     |
| 56  | MG   | AA    | 1800 | 1/1   | 0.87 | 0.73 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3112 | 1/1   | 0.87 | 0.24 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3283 | 1/1   | 0.87 | 0.55 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3468 | 1/1   | 0.87 | 0.08 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3178 | 1/1   | 0.88 | 0.41 | 77,77,77,77                 | 0     |
| 56  | MG   | BZ    | 302  | 1/1   | 0.88 | 0.53 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3182 | 1/1   | 0.88 | 0.28 | 68,68,68,68                 | 0     |
| 56  | MG   | AA    | 1613 | 1/1   | 0.88 | 0.55 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3435 | 1/1   | 0.88 | 0.14 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3266 | 1/1   | 0.88 | 0.44 | 59,59,59,59                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AV    | 114  | 1/1   | 0.88 | 0.23 | 67,67,67,67                 | 0     |
| 56  | MG   | CA    | 1785 | 1/1   | 0.88 | 0.10 | 87,87,87,87                 | 0     |
| 56  | MG   | BA    | 3230 | 1/1   | 0.88 | 0.09 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3314 | 1/1   | 0.88 | 0.17 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3317 | 1/1   | 0.88 | 0.20 | 84,84,84,84                 | 0     |
| 56  | MG   | CA    | 1741 | 1/1   | 0.88 | 0.05 | 92,92,92,92                 | 0     |
| 56  | MG   | BA    | 3437 | 1/1   | 0.88 | 0.53 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3129 | 1/1   | 0.88 | 0.17 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3138 | 1/1   | 0.88 | 0.41 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3492 | 1/1   | 0.88 | 0.24 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3291 | 1/1   | 0.88 | 0.17 | 50,50,50,50                 | 0     |
| 56  | MG   | DA    | 3667 | 1/1   | 0.88 | 0.13 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3512 | 1/1   | 0.88 | 0.32 | 56,56,56,56                 | 0     |
| 56  | MG   | AA    | 1768 | 1/1   | 0.88 | 0.26 | 88,88,88,88                 | 0     |
| 56  | MG   | BA    | 3103 | 1/1   | 0.88 | 0.42 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3435 | 1/1   | 0.88 | 0.09 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3163 | 1/1   | 0.88 | 0.65 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3379 | 1/1   | 0.88 | 0.28 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3063 | 1/1   | 0.88 | 0.14 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3656 | 1/1   | 0.88 | 0.17 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3563 | 1/1   | 0.88 | 0.11 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1783 | 1/1   | 0.88 | 0.26 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3815 | 1/1   | 0.88 | 0.10 | 51,51,51,51                 | 0     |
| 56  | MG   | CA    | 1774 | 1/1   | 0.88 | 0.16 | 111,111,111,111             | 0     |
| 56  | MG   | BA    | 3264 | 1/1   | 0.88 | 0.25 | 59,59,59,59                 | 0     |
| 56  | MG   | DB    | 207  | 1/1   | 0.88 | 0.12 | 79,79,79,79                 | 0     |
| 56  | MG   | AA    | 1865 | 1/1   | 0.88 | 0.20 | 81,81,81,81                 | 0     |
| 56  | MG   | CA    | 1709 | 1/1   | 0.88 | 0.66 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3298 | 1/1   | 0.88 | 0.24 | 50,50,50,50                 | 0     |
| 56  | MG   | B2    | 101  | 1/1   | 0.88 | 0.22 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3144 | 1/1   | 0.88 | 0.39 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3842 | 1/1   | 0.88 | 0.16 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3205 | 1/1   | 0.88 | 0.38 | 43,43,43,43                 | 0     |
| 56  | MG   | DF    | 301  | 1/1   | 0.88 | 0.29 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3287 | 1/1   | 0.88 | 0.40 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3246 | 1/1   | 0.88 | 0.45 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3864 | 1/1   | 0.88 | 0.11 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3441 | 1/1   | 0.88 | 0.18 | 72,72,72,72                 | 0     |
| 56  | MG   | AA    | 1670 | 1/1   | 0.88 | 0.29 | 88,88,88,88                 | 0     |
| 56  | MG   | DA    | 3464 | 1/1   | 0.88 | 0.17 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3095 | 1/1   | 0.88 | 0.16 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3201 | 1/1   | 0.88 | 0.28 | 54,54,54,54                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3313 | 1/1   | 0.88 | 0.28 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3085 | 1/1   | 0.88 | 0.30 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3156 | 1/1   | 0.88 | 0.48 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3040 | 1/1   | 0.88 | 0.09 | 46,46,46,46                 | 0     |
| 56  | MG   | CA    | 1689 | 1/1   | 0.88 | 0.85 | 84,84,84,84                 | 0     |
| 56  | MG   | CA    | 1798 | 1/1   | 0.88 | 0.16 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3356 | 1/1   | 0.88 | 0.15 | 85,85,85,85                 | 0     |
| 56  | MG   | CV    | 102  | 1/1   | 0.88 | 0.21 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3402 | 1/1   | 0.88 | 0.44 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3396 | 1/1   | 0.88 | 0.15 | 95,95,95,95                 | 0     |
| 56  | MG   | AA    | 1870 | 1/1   | 0.88 | 0.14 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3001 | 1/1   | 0.88 | 0.18 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3494 | 1/1   | 0.88 | 0.30 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3349 | 1/1   | 0.88 | 0.45 | 72,72,72,72                 | 0     |
| 56  | MG   | AA    | 1698 | 1/1   | 0.88 | 0.19 | 97,97,97,97                 | 0     |
| 56  | MG   | DA    | 3021 | 1/1   | 0.88 | 0.24 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3383 | 1/1   | 0.88 | 0.21 | 45,45,45,45                 | 0     |
| 56  | MG   | AA    | 1701 | 1/1   | 0.88 | 0.28 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3483 | 1/1   | 0.88 | 0.16 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3102 | 1/1   | 0.88 | 0.24 | 60,60,60,60                 | 0     |
| 56  | MG   | CA    | 1742 | 1/1   | 0.88 | 0.27 | 89,89,89,89                 | 0     |
| 56  | MG   | AA    | 1734 | 1/1   | 0.88 | 0.28 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1747 | 1/1   | 0.88 | 0.17 | 96,96,96,96                 | 0     |
| 56  | MG   | CA    | 1740 | 1/1   | 0.88 | 0.16 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3187 | 1/1   | 0.89 | 0.21 | 47,47,47,47                 | 0     |
| 56  | MG   | CA    | 1646 | 1/1   | 0.89 | 0.10 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3770 | 1/1   | 0.89 | 0.19 | 49,49,49,49                 | 0     |
| 56  | MG   | CA    | 1806 | 1/1   | 0.89 | 0.06 | 102,102,102,102             | 0     |
| 56  | MG   | AA    | 1653 | 1/1   | 0.89 | 0.71 | 82,82,82,82                 | 0     |
| 56  | MG   | CT    | 201  | 1/1   | 0.89 | 0.37 | 67,67,67,67                 | 0     |
| 56  | MG   | DA    | 3146 | 1/1   | 0.89 | 0.25 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3273 | 1/1   | 0.89 | 0.36 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3109 | 1/1   | 0.89 | 0.24 | 58,58,58,58                 | 0     |
| 56  | MG   | BB    | 212  | 1/1   | 0.89 | 0.27 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3004 | 1/1   | 0.89 | 0.25 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3301 | 1/1   | 0.89 | 0.12 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1618 | 1/1   | 0.89 | 0.15 | 78,78,78,78                 | 0     |
| 56  | MG   | CA    | 1732 | 1/1   | 0.89 | 0.23 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3267 | 1/1   | 0.89 | 0.31 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3893 | 1/1   | 0.89 | 0.15 | 30,30,30,30                 | 0     |
| 56  | MG   | BA    | 3049 | 1/1   | 0.89 | 0.43 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3135 | 1/1   | 0.89 | 0.31 | 58,58,58,58                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3191 | 1/1   | 0.89 | 0.18 | 77,77,77,77                 | 0     |
| 56  | MG   | AA    | 1842 | 1/1   | 0.89 | 0.64 | 89,89,89,89                 | 0     |
| 56  | MG   | BA    | 3078 | 1/1   | 0.89 | 0.54 | 49,49,49,49                 | 0     |
| 56  | MG   | BY    | 203  | 1/1   | 0.89 | 0.57 | 65,65,65,65                 | 0     |
| 56  | MG   | CA    | 1712 | 1/1   | 0.89 | 0.25 | 83,83,83,83                 | 0     |
| 56  | MG   | CA    | 1692 | 1/1   | 0.89 | 0.68 | 84,84,84,84                 | 0     |
| 56  | MG   | AA    | 1707 | 1/1   | 0.89 | 0.18 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3498 | 1/1   | 0.89 | 0.20 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3090 | 1/1   | 0.89 | 0.40 | 46,46,46,46                 | 0     |
| 56  | MG   | AA    | 1677 | 1/1   | 0.89 | 0.55 | 84,84,84,84                 | 0     |
| 56  | MG   | CA    | 1649 | 1/1   | 0.89 | 0.13 | 78,78,78,78                 | 0     |
| 56  | MG   | BB    | 216  | 1/1   | 0.89 | 0.19 | 38,38,38,38                 | 0     |
| 56  | MG   | DA    | 3522 | 1/1   | 0.89 | 0.22 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3634 | 1/1   | 0.89 | 0.13 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1681 | 1/1   | 0.89 | 0.28 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3352 | 1/1   | 0.89 | 0.31 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3490 | 1/1   | 0.89 | 0.29 | 49,49,49,49                 | 0     |
| 56  | MG   | AA    | 1791 | 1/1   | 0.89 | 0.26 | 99,99,99,99                 | 0     |
| 56  | MG   | DA    | 3092 | 1/1   | 0.89 | 0.19 | 92,92,92,92                 | 0     |
| 56  | MG   | BA    | 3368 | 1/1   | 0.89 | 0.24 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3288 | 1/1   | 0.89 | 0.12 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3186 | 1/1   | 0.89 | 0.32 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3161 | 1/1   | 0.89 | 0.31 | 49,49,49,49                 | 0     |
| 56  | MG   | CA    | 1658 | 1/1   | 0.89 | 0.17 | 91,91,91,91                 | 0     |
| 56  | MG   | DA    | 3609 | 1/1   | 0.89 | 0.25 | 75,75,75,75                 | 0     |
| 56  | MG   | CA    | 1809 | 1/1   | 0.89 | 0.09 | 101,101,101,101             | 0     |
| 56  | MG   | CA    | 1662 | 1/1   | 0.89 | 0.46 | 92,92,92,92                 | 0     |
| 56  | MG   | AA    | 1614 | 1/1   | 0.89 | 0.16 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3239 | 1/1   | 0.89 | 0.46 | 62,62,62,62                 | 0     |
| 56  | MG   | CA    | 1801 | 1/1   | 0.89 | 0.13 | 83,83,83,83                 | 0     |
| 56  | MG   | BA    | 3605 | 1/1   | 0.89 | 0.19 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3469 | 1/1   | 0.89 | 0.31 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3538 | 1/1   | 0.89 | 0.14 | 33,33,33,33                 | 0     |
| 56  | MG   | DA    | 3631 | 1/1   | 0.89 | 0.29 | 94,94,94,94                 | 0     |
| 56  | MG   | BA    | 3713 | 1/1   | 0.89 | 0.11 | 85,85,85,85                 | 0     |
| 56  | MG   | CA    | 1762 | 1/1   | 0.89 | 0.22 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3155 | 1/1   | 0.89 | 0.29 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3404 | 1/1   | 0.89 | 0.17 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3274 | 1/1   | 0.89 | 0.21 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3214 | 1/1   | 0.89 | 0.14 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3724 | 1/1   | 0.89 | 0.19 | 88,88,88,88                 | 0     |
| 56  | MG   | AA    | 1761 | 1/1   | 0.89 | 0.31 | 58,58,58,58                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3663 | 1/1   | 0.89 | 0.11 | 81,81,81,81                | 0     |
| 56  | MG   | CV    | 110  | 1/1   | 0.89 | 0.10 | 100,100,100,100            | 0     |
| 56  | MG   | BA    | 3879 | 1/1   | 0.89 | 0.17 | 53,53,53,53                | 0     |
| 56  | MG   | AA    | 1878 | 1/1   | 0.89 | 0.14 | 46,46,46,46                | 0     |
| 56  | MG   | B3    | 102  | 1/1   | 0.89 | 0.28 | 56,56,56,56                | 0     |
| 56  | MG   | BA    | 3012 | 1/1   | 0.89 | 0.51 | 69,69,69,69                | 0     |
| 56  | MG   | BA    | 3336 | 1/1   | 0.89 | 0.26 | 46,46,46,46                | 0     |
| 56  | MG   | BA    | 3181 | 1/1   | 0.89 | 0.33 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1808 | 1/1   | 0.89 | 0.38 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3790 | 1/1   | 0.89 | 0.20 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3813 | 1/1   | 0.89 | 0.08 | 66,66,66,66                | 0     |
| 56  | MG   | DA    | 3397 | 1/1   | 0.89 | 0.11 | 35,35,35,35                | 0     |
| 56  | MG   | CA    | 1693 | 1/1   | 0.89 | 0.35 | 83,83,83,83                | 0     |
| 56  | MG   | BA    | 3364 | 1/1   | 0.89 | 0.20 | 69,69,69,69                | 0     |
| 56  | MG   | DX    | 101  | 1/1   | 0.89 | 0.24 | 55,55,55,55                | 0     |
| 56  | MG   | DA    | 3034 | 1/1   | 0.89 | 0.44 | 77,77,77,77                | 0     |
| 56  | MG   | CA    | 1803 | 1/1   | 0.89 | 0.19 | 102,102,102,102            | 0     |
| 56  | MG   | CA    | 1749 | 1/1   | 0.89 | 0.22 | 92,92,92,92                | 0     |
| 56  | MG   | BA    | 3748 | 1/1   | 0.89 | 0.15 | 28,28,28,28                | 0     |
| 56  | MG   | AA    | 1696 | 1/1   | 0.89 | 0.52 | 95,95,95,95                | 0     |
| 56  | MG   | CA    | 1652 | 1/1   | 0.89 | 0.41 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3310 | 1/1   | 0.89 | 0.27 | 54,54,54,54                | 0     |
| 56  | MG   | BA    | 3050 | 1/1   | 0.89 | 0.29 | 60,60,60,60                | 0     |
| 56  | MG   | DA    | 3230 | 1/1   | 0.89 | 0.13 | 68,68,68,68                | 0     |
| 56  | MG   | AA    | 1688 | 1/1   | 0.89 | 0.12 | 96,96,96,96                | 0     |
| 56  | MG   | BA    | 3896 | 1/1   | 0.89 | 0.15 | 72,72,72,72                | 0     |
| 56  | MG   | BA    | 3017 | 1/1   | 0.89 | 0.21 | 64,64,64,64                | 0     |
| 56  | MG   | BA    | 3009 | 1/1   | 0.89 | 0.18 | 83,83,83,83                | 0     |
| 56  | MG   | CA    | 1727 | 1/1   | 0.89 | 0.23 | 74,74,74,74                | 0     |
| 56  | MG   | BA    | 3392 | 1/1   | 0.89 | 0.25 | 54,54,54,54                | 0     |
| 56  | MG   | BA    | 3057 | 1/1   | 0.89 | 0.23 | 30,30,30,30                | 0     |
| 56  | MG   | BA    | 3394 | 1/1   | 0.89 | 0.30 | 58,58,58,58                | 0     |
| 56  | MG   | B7    | 101  | 1/1   | 0.89 | 0.22 | 51,51,51,51                | 0     |
| 56  | MG   | DA    | 3018 | 1/1   | 0.89 | 0.29 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3260 | 1/1   | 0.89 | 0.27 | 60,60,60,60                | 0     |
| 56  | MG   | DA    | 3180 | 1/1   | 0.89 | 0.11 | 75,75,75,75                | 0     |
| 56  | MG   | DA    | 3116 | 1/1   | 0.89 | 0.27 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3362 | 1/1   | 0.89 | 0.43 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3244 | 1/1   | 0.89 | 0.40 | 60,60,60,60                | 0     |
| 56  | MG   | CA    | 1706 | 1/1   | 0.89 | 0.89 | 75,75,75,75                | 0     |
| 56  | MG   | AV    | 108  | 1/1   | 0.89 | 0.19 | 98,98,98,98                | 0     |
| 56  | MG   | BA    | 3389 | 1/1   | 0.89 | 0.60 | 38,38,38,38                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3659 | 1/1   | 0.89 | 0.22 | 77,77,77,77                | 0     |
| 56  | MG   | DA    | 3533 | 1/1   | 0.90 | 0.17 | 95,95,95,95                | 0     |
| 56  | MG   | CA    | 1656 | 1/1   | 0.90 | 0.28 | 77,77,77,77                | 0     |
| 56  | MG   | BA    | 3238 | 1/1   | 0.90 | 0.30 | 55,55,55,55                | 0     |
| 56  | MG   | DA    | 3262 | 1/1   | 0.90 | 0.66 | 67,67,67,67                | 0     |
| 56  | MG   | DA    | 3350 | 1/1   | 0.90 | 0.29 | 72,72,72,72                | 0     |
| 56  | MG   | DA    | 3268 | 1/1   | 0.90 | 0.32 | 64,64,64,64                | 0     |
| 56  | MG   | AA    | 1625 | 1/1   | 0.90 | 0.17 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1753 | 1/1   | 0.90 | 0.34 | 86,86,86,86                | 0     |
| 56  | MG   | DA    | 3078 | 1/1   | 0.90 | 0.42 | 75,75,75,75                | 0     |
| 56  | MG   | BA    | 3403 | 1/1   | 0.90 | 0.46 | 51,51,51,51                | 0     |
| 56  | MG   | DA    | 3681 | 1/1   | 0.90 | 0.12 | 71,71,71,71                | 0     |
| 56  | MG   | CA    | 1607 | 1/1   | 0.90 | 0.16 | 73,73,73,73                | 0     |
| 56  | MG   | BT    | 201  | 1/1   | 0.90 | 0.14 | 53,53,53,53                | 0     |
| 56  | MG   | DA    | 3152 | 1/1   | 0.90 | 0.36 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3187 | 1/1   | 0.90 | 0.29 | 109,109,109,109            | 0     |
| 56  | MG   | AA    | 1921 | 1/1   | 0.90 | 0.12 | 97,97,97,97                | 0     |
| 56  | MG   | AA    | 1755 | 1/1   | 0.90 | 0.30 | 70,70,70,70                | 0     |
| 56  | MG   | DA    | 3198 | 1/1   | 0.90 | 0.33 | 80,80,80,80                | 0     |
| 56  | MG   | DA    | 3171 | 1/1   | 0.90 | 0.25 | 66,66,66,66                | 0     |
| 56  | MG   | CA    | 1636 | 1/1   | 0.90 | 0.45 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3781 | 1/1   | 0.90 | 0.11 | 84,84,84,84                | 0     |
| 56  | MG   | AA    | 1890 | 1/1   | 0.90 | 0.19 | 89,89,89,89                | 0     |
| 56  | MG   | DA    | 3153 | 1/1   | 0.90 | 0.80 | 66,66,66,66                | 0     |
| 56  | MG   | DB    | 215  | 1/1   | 0.90 | 0.17 | 94,94,94,94                | 0     |
| 56  | MG   | DA    | 3535 | 1/1   | 0.90 | 0.36 | 96,96,96,96                | 0     |
| 56  | MG   | BA    | 3070 | 1/1   | 0.90 | 0.42 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3401 | 1/1   | 0.90 | 0.23 | 57,57,57,57                | 0     |
| 56  | MG   | DA    | 3499 | 1/1   | 0.90 | 0.17 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3225 | 1/1   | 0.90 | 0.23 | 46,46,46,46                | 0     |
| 56  | MG   | DA    | 3011 | 1/1   | 0.90 | 0.15 | 66,66,66,66                | 0     |
| 56  | MG   | BA    | 3808 | 1/1   | 0.90 | 0.13 | 70,70,70,70                | 0     |
| 56  | MG   | BA    | 3358 | 1/1   | 0.90 | 0.80 | 63,63,63,63                | 0     |
| 56  | MG   | BA    | 3011 | 1/1   | 0.90 | 0.34 | 54,54,54,54                | 0     |
| 56  | MG   | AA    | 1619 | 1/1   | 0.90 | 0.41 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3293 | 1/1   | 0.90 | 0.32 | 45,45,45,45                | 0     |
| 56  | MG   | DA    | 3330 | 1/1   | 0.90 | 0.65 | 78,78,78,78                | 0     |
| 56  | MG   | BA    | 3822 | 1/1   | 0.90 | 0.17 | 66,66,66,66                | 0     |
| 56  | MG   | DA    | 3134 | 1/1   | 0.90 | 0.16 | 61,61,61,61                | 0     |
| 56  | MG   | DA    | 3493 | 1/1   | 0.90 | 0.21 | 80,80,80,80                | 0     |
| 56  | MG   | AA    | 1764 | 1/1   | 0.90 | 0.29 | 72,72,72,72                | 0     |
| 56  | MG   | BF    | 302  | 1/1   | 0.90 | 0.41 | 41,41,41,41                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3591 | 1/1   | 0.90 | 0.28 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3777 | 1/1   | 0.90 | 0.33 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1897 | 1/1   | 0.90 | 0.22 | 74,74,74,74                 | 0     |
| 56  | MG   | AA    | 1945 | 1/1   | 0.90 | 0.08 | 107,107,107,107             | 0     |
| 56  | MG   | DA    | 3655 | 1/1   | 0.90 | 0.23 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3843 | 1/1   | 0.90 | 0.14 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3569 | 1/1   | 0.90 | 0.09 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3870 | 1/1   | 0.90 | 0.29 | 100,100,100,100             | 0     |
| 56  | MG   | B5    | 101  | 1/1   | 0.90 | 0.27 | 50,50,50,50                 | 0     |
| 56  | MG   | BO    | 202  | 1/1   | 0.90 | 0.34 | 42,42,42,42                 | 0     |
| 56  | MG   | CA    | 1655 | 1/1   | 0.90 | 0.51 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3824 | 1/1   | 0.90 | 0.27 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3841 | 1/1   | 0.90 | 0.28 | 91,91,91,91                 | 0     |
| 56  | MG   | AA    | 1635 | 1/1   | 0.90 | 0.20 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3059 | 1/1   | 0.90 | 0.39 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3061 | 1/1   | 0.90 | 0.27 | 45,45,45,45                 | 0     |
| 56  | MG   | DA    | 3175 | 1/1   | 0.90 | 0.22 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3069 | 1/1   | 0.90 | 0.37 | 83,83,83,83                 | 0     |
| 56  | MG   | BA    | 3651 | 1/1   | 0.90 | 0.16 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3370 | 1/1   | 0.90 | 0.16 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3154 | 1/1   | 0.90 | 0.34 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3505 | 1/1   | 0.90 | 0.33 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3333 | 1/1   | 0.90 | 0.24 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3580 | 1/1   | 0.90 | 0.11 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3324 | 1/1   | 0.90 | 0.59 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3156 | 1/1   | 0.90 | 0.76 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3883 | 1/1   | 0.90 | 0.29 | 43,43,43,43                 | 0     |
| 56  | MG   | DA    | 3201 | 1/1   | 0.90 | 0.59 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3296 | 1/1   | 0.90 | 0.30 | 43,43,43,43                 | 0     |
| 56  | MG   | CA    | 1799 | 1/1   | 0.90 | 0.13 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3221 | 1/1   | 0.90 | 0.37 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3277 | 1/1   | 0.90 | 0.17 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3744 | 1/1   | 0.90 | 0.43 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3284 | 1/1   | 0.90 | 0.22 | 41,41,41,41                 | 0     |
| 56  | MG   | DA    | 3057 | 1/1   | 0.90 | 0.31 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3237 | 1/1   | 0.90 | 0.25 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3003 | 1/1   | 0.90 | 0.20 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3471 | 1/1   | 0.90 | 0.27 | 49,49,49,49                 | 0     |
| 56  | MG   | CA    | 1752 | 1/1   | 0.90 | 0.20 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3886 | 1/1   | 0.90 | 0.26 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3656 | 1/1   | 0.90 | 0.08 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3741 | 1/1   | 0.90 | 0.12 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3576 | 1/1   | 0.90 | 0.31 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3150 | 1/1   | 0.90 | 0.10 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1813 | 1/1   | 0.90 | 0.13 | 121,121,121,121             | 0     |
| 56  | MG   | AA    | 1714 | 1/1   | 0.90 | 0.23 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3159 | 1/1   | 0.90 | 0.26 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3366 | 1/1   | 0.90 | 0.37 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3351 | 1/1   | 0.90 | 0.37 | 57,57,57,57                 | 0     |
| 56  | MG   | AA    | 1648 | 1/1   | 0.90 | 0.21 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3826 | 1/1   | 0.90 | 0.47 | 92,92,92,92                 | 0     |
| 56  | MG   | BA    | 3861 | 1/1   | 0.90 | 0.08 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3338 | 1/1   | 0.90 | 0.35 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3823 | 1/1   | 0.90 | 0.16 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3165 | 1/1   | 0.90 | 0.57 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1781 | 1/1   | 0.90 | 0.50 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3263 | 1/1   | 0.90 | 0.30 | 67,67,67,67                 | 0     |
| 56  | MG   | AD    | 303  | 1/1   | 0.90 | 0.19 | 93,93,93,93                 | 0     |
| 56  | MG   | DA    | 3524 | 1/1   | 0.90 | 0.19 | 99,99,99,99                 | 0     |
| 56  | MG   | DA    | 3285 | 1/1   | 0.90 | 0.41 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3689 | 1/1   | 0.90 | 0.19 | 104,104,104,104             | 0     |
| 56  | MG   | BA    | 3032 | 1/1   | 0.90 | 0.13 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3421 | 1/1   | 0.90 | 0.29 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1618 | 1/1   | 0.90 | 0.29 | 61,61,61,61                 | 0     |
| 56  | MG   | DB    | 202  | 1/1   | 0.90 | 0.42 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1767 | 1/1   | 0.90 | 0.20 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3107 | 1/1   | 0.90 | 0.21 | 58,58,58,58                 | 0     |
| 56  | MG   | AA    | 1675 | 1/1   | 0.90 | 1.10 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3344 | 1/1   | 0.90 | 0.17 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3162 | 1/1   | 0.91 | 0.18 | 36,36,36,36                 | 0     |
| 56  | MG   | DA    | 3474 | 1/1   | 0.91 | 0.11 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3193 | 1/1   | 0.91 | 0.15 | 67,67,67,67                 | 0     |
| 56  | MG   | CA    | 1615 | 1/1   | 0.91 | 0.23 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3026 | 1/1   | 0.91 | 0.30 | 92,92,92,92                 | 0     |
| 56  | MG   | BB    | 222  | 1/1   | 0.91 | 0.11 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3091 | 1/1   | 0.91 | 0.32 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3039 | 1/1   | 0.91 | 0.21 | 50,50,50,50                 | 0     |
| 56  | MG   | B0    | 102  | 1/1   | 0.91 | 0.17 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3357 | 1/1   | 0.91 | 0.24 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3428 | 1/1   | 0.91 | 0.23 | 63,63,63,63                 | 0     |
| 56  | MG   | CA    | 1628 | 1/1   | 0.91 | 0.38 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3321 | 1/1   | 0.91 | 0.33 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3352 | 1/1   | 0.91 | 0.42 | 68,68,68,68                 | 0     |
| 56  | MG   | AA    | 1758 | 1/1   | 0.91 | 0.26 | 72,72,72,72                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DD    | 303  | 1/1   | 0.91 | 0.27 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3312 | 1/1   | 0.91 | 0.28 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3018 | 1/1   | 0.91 | 0.39 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3346 | 1/1   | 0.91 | 0.26 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3110 | 1/1   | 0.91 | 0.31 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1763 | 1/1   | 0.91 | 0.24 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3055 | 1/1   | 0.91 | 0.15 | 37,37,37,37                 | 0     |
| 56  | MG   | DA    | 3179 | 1/1   | 0.91 | 0.24 | 67,67,67,67                 | 0     |
| 56  | MG   | DA    | 3141 | 1/1   | 0.91 | 0.24 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3189 | 1/1   | 0.91 | 0.28 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3749 | 1/1   | 0.91 | 0.18 | 76,76,76,76                 | 0     |
| 56  | MG   | CA    | 1711 | 1/1   | 0.91 | 0.32 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3521 | 1/1   | 0.91 | 0.42 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3648 | 1/1   | 0.91 | 0.23 | 53,53,53,53                 | 0     |
| 56  | MG   | BG    | 202  | 1/1   | 0.91 | 0.07 | 82,82,82,82                 | 0     |
| 56  | MG   | AA    | 1607 | 1/1   | 0.91 | 0.29 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3349 | 1/1   | 0.91 | 0.20 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3006 | 1/1   | 0.91 | 0.20 | 55,55,55,55                 | 0     |
| 56  | MG   | AA    | 1928 | 1/1   | 0.91 | 0.10 | 71,71,71,71                 | 0     |
| 56  | MG   | AA    | 1829 | 1/1   | 0.91 | 0.17 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3177 | 1/1   | 0.91 | 0.45 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3235 | 1/1   | 0.91 | 0.25 | 53,53,53,53                 | 0     |
| 56  | MG   | BU    | 201  | 1/1   | 0.91 | 0.35 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3454 | 1/1   | 0.91 | 0.24 | 58,58,58,58                 | 0     |
| 56  | MG   | CA    | 1677 | 1/1   | 0.91 | 0.13 | 88,88,88,88                 | 0     |
| 56  | MG   | DA    | 3649 | 1/1   | 0.91 | 0.12 | 73,73,73,73                 | 0     |
| 56  | MG   | CA    | 1738 | 1/1   | 0.91 | 0.19 | 98,98,98,98                 | 0     |
| 56  | MG   | CA    | 1663 | 1/1   | 0.91 | 0.47 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3564 | 1/1   | 0.91 | 0.13 | 88,88,88,88                 | 0     |
| 56  | MG   | DA    | 3272 | 1/1   | 0.91 | 0.19 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3269 | 1/1   | 0.91 | 0.19 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3365 | 1/1   | 0.91 | 0.20 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3133 | 1/1   | 0.91 | 0.52 | 51,51,51,51                 | 0     |
| 56  | MG   | CA    | 1650 | 1/1   | 0.91 | 0.38 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3484 | 1/1   | 0.91 | 0.32 | 49,49,49,49                 | 0     |
| 56  | MG   | AA    | 1639 | 1/1   | 0.91 | 0.12 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3240 | 1/1   | 0.91 | 0.20 | 57,57,57,57                 | 0     |
| 56  | MG   | CA    | 1667 | 1/1   | 0.91 | 0.32 | 66,66,66,66                 | 0     |
| 56  | MG   | AV    | 107  | 1/1   | 0.91 | 0.33 | 87,87,87,87                 | 0     |
| 56  | MG   | AA    | 1790 | 1/1   | 0.91 | 0.16 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3627 | 1/1   | 0.91 | 0.21 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3684 | 1/1   | 0.91 | 0.19 | 98,98,98,98                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3683 | 1/1   | 0.91 | 0.28 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3615 | 1/1   | 0.91 | 0.20 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3149 | 1/1   | 0.91 | 0.17 | 51,51,51,51                 | 0     |
| 56  | MG   | AA    | 1682 | 1/1   | 0.91 | 0.31 | 118,118,118,118             | 0     |
| 56  | MG   | BA    | 3835 | 1/1   | 0.91 | 0.29 | 86,86,86,86                 | 0     |
| 56  | MG   | DA    | 3511 | 1/1   | 0.91 | 0.22 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3071 | 1/1   | 0.91 | 0.34 | 41,41,41,41                 | 0     |
| 56  | MG   | DT    | 203  | 1/1   | 0.91 | 0.20 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1906 | 1/1   | 0.91 | 0.21 | 89,89,89,89                 | 0     |
| 56  | MG   | DA    | 3261 | 1/1   | 0.91 | 0.31 | 69,69,69,69                 | 0     |
| 56  | MG   | AA    | 1617 | 1/1   | 0.91 | 0.06 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3848 | 1/1   | 0.91 | 0.20 | 43,43,43,43                 | 0     |
| 56  | MG   | DA    | 3164 | 1/1   | 0.91 | 0.42 | 87,87,87,87                 | 0     |
| 56  | MG   | BA    | 3157 | 1/1   | 0.91 | 0.43 | 42,42,42,42                 | 0     |
| 56  | MG   | CA    | 1786 | 1/1   | 0.91 | 0.13 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1672 | 1/1   | 0.91 | 0.33 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3196 | 1/1   | 0.91 | 0.14 | 66,66,66,66                 | 0     |
| 56  | MG   | DV    | 201  | 1/1   | 0.91 | 0.25 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3489 | 1/1   | 0.91 | 0.11 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3378 | 1/1   | 0.91 | 0.20 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3124 | 1/1   | 0.91 | 0.22 | 34,34,34,34                 | 0     |
| 56  | MG   | DA    | 3008 | 1/1   | 0.91 | 0.28 | 108,108,108,108             | 0     |
| 56  | MG   | BA    | 3297 | 1/1   | 0.91 | 0.24 | 53,53,53,53                 | 0     |
| 56  | MG   | CA    | 1633 | 1/1   | 0.91 | 0.43 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3023 | 1/1   | 0.91 | 0.20 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3591 | 1/1   | 0.91 | 0.18 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3039 | 1/1   | 0.91 | 0.18 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3020 | 1/1   | 0.91 | 0.14 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3019 | 1/1   | 0.91 | 0.10 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3172 | 1/1   | 0.91 | 0.44 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3670 | 1/1   | 0.91 | 0.11 | 83,83,83,83                 | 0     |
| 56  | MG   | BA    | 3481 | 1/1   | 0.91 | 0.15 | 87,87,87,87                 | 0     |
| 56  | MG   | DA    | 3119 | 1/1   | 0.91 | 0.44 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3066 | 1/1   | 0.91 | 0.56 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3444 | 1/1   | 0.91 | 0.19 | 74,74,74,74                 | 0     |
| 56  | MG   | AA    | 1766 | 1/1   | 0.91 | 0.17 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1626 | 1/1   | 0.91 | 0.43 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3122 | 1/1   | 0.91 | 0.31 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3266 | 1/1   | 0.91 | 0.22 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3640 | 1/1   | 0.91 | 0.10 | 33,33,33,33                 | 0     |
| 56  | MG   | DA    | 3176 | 1/1   | 0.91 | 0.28 | 67,67,67,67                 | 0     |
| 56  | MG   | AA    | 1805 | 1/1   | 0.91 | 0.84 | 89,89,89,89                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3546 | 1/1   | 0.91 | 0.10 | 73,73,73,73                | 0     |
| 56  | MG   | BA    | 3487 | 1/1   | 0.91 | 0.20 | 53,53,53,53                | 0     |
| 56  | MG   | D0    | 101  | 1/1   | 0.91 | 0.22 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3340 | 1/1   | 0.91 | 0.31 | 55,55,55,55                | 0     |
| 56  | MG   | BA    | 3217 | 1/1   | 0.91 | 0.14 | 38,38,38,38                | 0     |
| 56  | MG   | BA    | 3649 | 1/1   | 0.91 | 0.12 | 60,60,60,60                | 0     |
| 56  | MG   | DA    | 3692 | 1/1   | 0.91 | 0.24 | 46,46,46,46                | 0     |
| 56  | MG   | DA    | 3194 | 1/1   | 0.91 | 0.51 | 65,65,65,65                | 0     |
| 56  | MG   | DA    | 3250 | 1/1   | 0.91 | 0.40 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3174 | 1/1   | 0.91 | 0.25 | 62,62,62,62                | 0     |
| 56  | MG   | AA    | 1610 | 1/1   | 0.91 | 0.40 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3782 | 1/1   | 0.91 | 0.43 | 75,75,75,75                | 0     |
| 56  | MG   | AA    | 1926 | 1/1   | 0.91 | 0.10 | 90,90,90,90                | 0     |
| 56  | MG   | BA    | 3213 | 1/1   | 0.91 | 0.22 | 37,37,37,37                | 0     |
| 56  | MG   | CA    | 1601 | 1/1   | 0.91 | 0.84 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3577 | 1/1   | 0.91 | 0.12 | 78,78,78,78                | 0     |
| 56  | MG   | BA    | 3466 | 1/1   | 0.91 | 0.32 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3593 | 1/1   | 0.91 | 0.12 | 54,54,54,54                | 0     |
| 56  | MG   | CV    | 108  | 1/1   | 0.91 | 0.30 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3275 | 1/1   | 0.91 | 0.25 | 55,55,55,55                | 0     |
| 56  | MG   | BA    | 3287 | 1/1   | 0.91 | 0.24 | 82,82,82,82                | 0     |
| 56  | MG   | BA    | 3433 | 1/1   | 0.91 | 0.27 | 30,30,30,30                | 0     |
| 56  | MG   | AA    | 1885 | 1/1   | 0.91 | 0.24 | 90,90,90,90                | 0     |
| 56  | MG   | AA    | 1744 | 1/1   | 0.91 | 0.23 | 68,68,68,68                | 0     |
| 56  | MG   | BA    | 3785 | 1/1   | 0.91 | 0.17 | 69,69,69,69                | 0     |
| 56  | MG   | AA    | 1907 | 1/1   | 0.91 | 0.16 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3251 | 1/1   | 0.91 | 0.27 | 62,62,62,62                | 0     |
| 56  | MG   | DA    | 3668 | 1/1   | 0.91 | 0.17 | 100,100,100,100            | 0     |
| 56  | MG   | DA    | 3240 | 1/1   | 0.91 | 0.13 | 74,74,74,74                | 0     |
| 56  | MG   | BA    | 3152 | 1/1   | 0.91 | 0.11 | 42,42,42,42                | 0     |
| 56  | MG   | BA    | 3464 | 1/1   | 0.91 | 0.34 | 53,53,53,53                | 0     |
| 56  | MG   | B3    | 101  | 1/1   | 0.91 | 0.51 | 57,57,57,57                | 0     |
| 56  | MG   | BA    | 3148 | 1/1   | 0.91 | 0.21 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3558 | 1/1   | 0.91 | 0.14 | 61,61,61,61                | 0     |
| 56  | MG   | BA    | 3197 | 1/1   | 0.91 | 0.23 | 41,41,41,41                | 0     |
| 56  | MG   | AV    | 102  | 1/1   | 0.91 | 0.19 | 66,66,66,66                | 0     |
| 56  | MG   | BA    | 3127 | 1/1   | 0.92 | 0.17 | 41,41,41,41                | 0     |
| 56  | MG   | DA    | 3457 | 1/1   | 0.92 | 0.30 | 102,102,102,102            | 0     |
| 56  | MG   | DA    | 3147 | 1/1   | 0.92 | 0.30 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1879 | 1/1   | 0.92 | 0.21 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3142 | 1/1   | 0.92 | 0.35 | 44,44,44,44                | 0     |
| 56  | MG   | CA    | 1792 | 1/1   | 0.92 | 0.12 | 82,82,82,82                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3756 | 1/1   | 0.92 | 0.12 | 56,56,56,56                 | 0     |
| 56  | MG   | AA    | 1772 | 1/1   | 0.92 | 0.33 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3068 | 1/1   | 0.92 | 0.10 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3413 | 1/1   | 0.92 | 0.19 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3016 | 1/1   | 0.92 | 0.29 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3033 | 1/1   | 0.92 | 0.34 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3302 | 1/1   | 0.92 | 0.22 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3803 | 1/1   | 0.92 | 0.23 | 71,71,71,71                 | 0     |
| 56  | MG   | CA    | 1679 | 1/1   | 0.92 | 0.26 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1661 | 1/1   | 0.92 | 0.40 | 56,56,56,56                 | 0     |
| 56  | MG   | AT    | 201  | 1/1   | 0.92 | 0.27 | 111,111,111,111             | 0     |
| 56  | MG   | CA    | 1784 | 1/1   | 0.92 | 0.15 | 96,96,96,96                 | 0     |
| 56  | MG   | AA    | 1615 | 1/1   | 0.92 | 0.10 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3529 | 1/1   | 0.92 | 0.13 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3257 | 1/1   | 0.92 | 0.26 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3112 | 1/1   | 0.92 | 0.32 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3313 | 1/1   | 0.92 | 0.24 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3032 | 1/1   | 0.92 | 0.16 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3771 | 1/1   | 0.92 | 0.17 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3257 | 1/1   | 0.92 | 0.73 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3038 | 1/1   | 0.92 | 0.11 | 50,50,50,50                 | 0     |
| 56  | MG   | CA    | 1718 | 1/1   | 0.92 | 0.36 | 88,88,88,88                 | 0     |
| 56  | MG   | BA    | 3868 | 1/1   | 0.92 | 0.20 | 34,34,34,34                 | 0     |
| 56  | MG   | AA    | 1605 | 1/1   | 0.92 | 0.28 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3515 | 1/1   | 0.92 | 0.46 | 49,49,49,49                 | 0     |
| 56  | MG   | DD    | 304  | 1/1   | 0.92 | 0.38 | 65,65,65,65                 | 0     |
| 56  | MG   | BB    | 224  | 1/1   | 0.92 | 0.12 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3460 | 1/1   | 0.92 | 0.28 | 67,67,67,67                 | 0     |
| 56  | MG   | AV    | 115  | 1/1   | 0.92 | 0.19 | 65,65,65,65                 | 0     |
| 56  | MG   | CA    | 1695 | 1/1   | 0.92 | 0.13 | 94,94,94,94                 | 0     |
| 56  | MG   | AA    | 1621 | 1/1   | 0.92 | 0.15 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3137 | 1/1   | 0.92 | 0.21 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3345 | 1/1   | 0.92 | 0.10 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3305 | 1/1   | 0.92 | 0.16 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3209 | 1/1   | 0.92 | 0.28 | 25,25,25,25                 | 0     |
| 56  | MG   | BA    | 3022 | 1/1   | 0.92 | 0.12 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3117 | 1/1   | 0.92 | 0.33 | 46,46,46,46                 | 0     |
| 56  | MG   | BB    | 220  | 1/1   | 0.92 | 0.11 | 44,44,44,44                 | 0     |
| 56  | MG   | CA    | 1723 | 1/1   | 0.92 | 0.08 | 96,96,96,96                 | 0     |
| 56  | MG   | BA    | 3144 | 1/1   | 0.92 | 0.11 | 34,34,34,34                 | 0     |
| 56  | MG   | DA    | 3426 | 1/1   | 0.92 | 0.16 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3326 | 1/1   | 0.92 | 0.13 | 100,100,100,100             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3098 | 1/1   | 0.92 | 0.22 | 39,39,39,39                 | 0     |
| 56  | MG   | DB    | 204  | 1/1   | 0.92 | 0.26 | 107,107,107,107             | 0     |
| 56  | MG   | DA    | 3370 | 1/1   | 0.92 | 0.56 | 67,67,67,67                 | 0     |
| 56  | MG   | CA    | 1813 | 1/1   | 0.92 | 0.20 | 113,113,113,113             | 0     |
| 56  | MG   | BA    | 3276 | 1/1   | 0.92 | 0.23 | 57,57,57,57                 | 0     |
| 56  | MG   | BE    | 305  | 1/1   | 0.92 | 0.11 | 22,22,22,22                 | 0     |
| 56  | MG   | CA    | 1800 | 1/1   | 0.92 | 0.05 | 105,105,105,105             | 0     |
| 56  | MG   | BA    | 3113 | 1/1   | 0.92 | 0.18 | 46,46,46,46                 | 0     |
| 56  | MG   | AA    | 1779 | 1/1   | 0.92 | 0.30 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3511 | 1/1   | 0.92 | 0.35 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3118 | 1/1   | 0.92 | 0.23 | 50,50,50,50                 | 0     |
| 56  | MG   | DA    | 3170 | 1/1   | 0.92 | 0.33 | 96,96,96,96                 | 0     |
| 56  | MG   | BA    | 3121 | 1/1   | 0.92 | 0.15 | 40,40,40,40                 | 0     |
| 56  | MG   | AA    | 1655 | 1/1   | 0.92 | 0.27 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3807 | 1/1   | 0.92 | 0.17 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3090 | 1/1   | 0.92 | 0.53 | 76,76,76,76                 | 0     |
| 56  | MG   | CA    | 1610 | 1/1   | 0.92 | 0.11 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3507 | 1/1   | 0.92 | 0.31 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3357 | 1/1   | 0.92 | 0.24 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3062 | 1/1   | 0.92 | 0.24 | 65,65,65,65                 | 0     |
| 56  | MG   | CV    | 103  | 1/1   | 0.92 | 0.19 | 88,88,88,88                 | 0     |
| 56  | MG   | DA    | 3336 | 1/1   | 0.92 | 0.41 | 71,71,71,71                 | 0     |
| 56  | MG   | CA    | 1623 | 1/1   | 0.92 | 0.26 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3480 | 1/1   | 0.92 | 0.31 | 59,59,59,59                 | 0     |
| 56  | MG   | CA    | 1698 | 1/1   | 0.92 | 0.73 | 114,114,114,114             | 0     |
| 56  | MG   | CA    | 1705 | 1/1   | 0.92 | 0.44 | 112,112,112,112             | 0     |
| 56  | MG   | AA    | 1702 | 1/1   | 0.92 | 0.25 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3207 | 1/1   | 0.92 | 0.30 | 41,41,41,41                 | 0     |
| 56  | MG   | DA    | 3042 | 1/1   | 0.92 | 0.16 | 47,47,47,47                 | 0     |
| 56  | MG   | DA    | 3249 | 1/1   | 0.92 | 0.26 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3149 | 1/1   | 0.92 | 0.21 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3206 | 1/1   | 0.92 | 0.32 | 31,31,31,31                 | 0     |
| 56  | MG   | BA    | 3337 | 1/1   | 0.92 | 0.19 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3262 | 1/1   | 0.92 | 0.27 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3210 | 1/1   | 0.92 | 0.28 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3665 | 1/1   | 0.92 | 0.14 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3099 | 1/1   | 0.92 | 0.21 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3190 | 1/1   | 0.92 | 0.21 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3250 | 1/1   | 0.92 | 0.41 | 27,27,27,27                 | 0     |
| 56  | MG   | AA    | 1886 | 1/1   | 0.92 | 0.11 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3219 | 1/1   | 0.92 | 0.18 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3467 | 1/1   | 0.92 | 0.32 | 56,56,56,56                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | BA    | 3592 | 1/1   | 0.92 | 0.08 | 52,52,52,52                | 0     |
| 56  | MG   | BB    | 214  | 1/1   | 0.92 | 0.21 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3872 | 1/1   | 0.92 | 0.19 | 24,24,24,24                | 0     |
| 56  | MG   | BA    | 3652 | 1/1   | 0.92 | 0.14 | 53,53,53,53                | 0     |
| 56  | MG   | AA    | 1920 | 1/1   | 0.92 | 0.11 | 86,86,86,86                | 0     |
| 56  | MG   | D8    | 201  | 1/1   | 0.92 | 0.22 | 67,67,67,67                | 0     |
| 56  | MG   | BA    | 3772 | 1/1   | 0.92 | 0.10 | 26,26,26,26                | 0     |
| 56  | MG   | AA    | 1942 | 1/1   | 0.92 | 0.26 | 93,93,93,93                | 0     |
| 56  | MG   | BA    | 3010 | 1/1   | 0.92 | 0.60 | 56,56,56,56                | 0     |
| 56  | MG   | DA    | 3337 | 1/1   | 0.92 | 0.23 | 65,65,65,65                | 0     |
| 56  | MG   | DA    | 3077 | 1/1   | 0.92 | 0.24 | 74,74,74,74                | 0     |
| 56  | MG   | AA    | 1608 | 1/1   | 0.92 | 0.17 | 80,80,80,80                | 0     |
| 56  | MG   | AA    | 1735 | 1/1   | 0.92 | 0.71 | 84,84,84,84                | 0     |
| 56  | MG   | BA    | 3430 | 1/1   | 0.92 | 0.18 | 69,69,69,69                | 0     |
| 56  | MG   | BF    | 306  | 1/1   | 0.92 | 0.22 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3111 | 1/1   | 0.92 | 0.26 | 66,66,66,66                | 0     |
| 56  | MG   | DA    | 3065 | 1/1   | 0.92 | 1.02 | 59,59,59,59                | 0     |
| 56  | MG   | AA    | 1848 | 1/1   | 0.92 | 0.43 | 71,71,71,71                | 0     |
| 56  | MG   | DA    | 3583 | 1/1   | 0.92 | 0.18 | 96,96,96,96                | 0     |
| 56  | MG   | AA    | 1692 | 1/1   | 0.92 | 0.29 | 67,67,67,67                | 0     |
| 56  | MG   | BA    | 3796 | 1/1   | 0.92 | 0.38 | 83,83,83,83                | 0     |
| 56  | MG   | BA    | 3094 | 1/1   | 0.92 | 0.21 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3683 | 1/1   | 0.92 | 0.17 | 31,31,31,31                | 0     |
| 56  | MG   | DA    | 3109 | 1/1   | 0.92 | 0.20 | 74,74,74,74                | 0     |
| 56  | MG   | DB    | 211  | 1/1   | 0.92 | 0.07 | 83,83,83,83                | 0     |
| 56  | MG   | DE    | 304  | 1/1   | 0.92 | 0.21 | 70,70,70,70                | 0     |
| 56  | MG   | DA    | 3284 | 1/1   | 0.92 | 0.43 | 75,75,75,75                | 0     |
| 56  | MG   | AA    | 1831 | 1/1   | 0.92 | 0.18 | 63,63,63,63                | 0     |
| 56  | MG   | DA    | 3297 | 1/1   | 0.92 | 0.21 | 81,81,81,81                | 0     |
| 56  | MG   | DA    | 3298 | 1/1   | 0.92 | 0.23 | 55,55,55,55                | 0     |
| 56  | MG   | AV    | 117  | 1/1   | 0.92 | 0.10 | 69,69,69,69                | 0     |
| 56  | MG   | BA    | 3455 | 1/1   | 0.92 | 0.48 | 22,22,22,22                | 0     |
| 56  | MG   | BA    | 3151 | 1/1   | 0.92 | 0.22 | 38,38,38,38                | 0     |
| 56  | MG   | BA    | 3425 | 1/1   | 0.92 | 0.30 | 46,46,46,46                | 0     |
| 56  | MG   | BA    | 3500 | 1/1   | 0.92 | 0.19 | 93,93,93,93                | 0     |
| 56  | MG   | DA    | 3222 | 1/1   | 0.92 | 0.52 | 73,73,73,73                | 0     |
| 56  | MG   | DA    | 3665 | 1/1   | 0.92 | 0.09 | 87,87,87,87                | 0     |
| 56  | MG   | DA    | 3158 | 1/1   | 0.92 | 0.65 | 82,82,82,82                | 0     |
| 56  | MG   | BA    | 3319 | 1/1   | 0.92 | 0.15 | 59,59,59,59                | 0     |
| 56  | MG   | CD    | 302  | 1/1   | 0.92 | 0.38 | 53,53,53,53                | 0     |
| 56  | MG   | DA    | 3181 | 1/1   | 0.92 | 0.21 | 59,59,59,59                | 0     |
| 56  | MG   | CA    | 1815 | 1/1   | 0.92 | 0.14 | 119,119,119,119            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | CA    | 1731 | 1/1   | 0.92 | 0.43 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3252 | 1/1   | 0.92 | 0.11 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3585 | 1/1   | 0.92 | 0.22 | 104,104,104,104             | 0     |
| 56  | MG   | AA    | 1806 | 1/1   | 0.92 | 0.38 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3311 | 1/1   | 0.92 | 0.19 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1647 | 1/1   | 0.92 | 0.30 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3460 | 1/1   | 0.92 | 0.41 | 52,52,52,52                 | 0     |
| 56  | MG   | BY    | 202  | 1/1   | 0.92 | 0.29 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3374 | 1/1   | 0.92 | 0.40 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1873 | 1/1   | 0.92 | 0.15 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1759 | 1/1   | 0.92 | 0.30 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3482 | 1/1   | 0.92 | 0.15 | 73,73,73,73                 | 0     |
| 56  | MG   | DA    | 3242 | 1/1   | 0.92 | 0.28 | 77,77,77,77                 | 0     |
| 56  | MG   | DQ    | 202  | 1/1   | 0.92 | 0.38 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3328 | 1/1   | 0.92 | 0.10 | 68,68,68,68                 | 0     |
| 56  | MG   | CA    | 1764 | 1/1   | 0.92 | 0.11 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1645 | 1/1   | 0.92 | 0.30 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1874 | 1/1   | 0.92 | 0.24 | 95,95,95,95                 | 0     |
| 56  | MG   | BA    | 3234 | 1/1   | 0.92 | 0.29 | 43,43,43,43                 | 0     |
| 56  | MG   | DA    | 3050 | 1/1   | 0.92 | 0.20 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3779 | 1/1   | 0.92 | 0.39 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1765 | 1/1   | 0.92 | 0.34 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3176 | 1/1   | 0.92 | 0.15 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3228 | 1/1   | 0.92 | 0.24 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1659 | 1/1   | 0.92 | 0.47 | 97,97,97,97                 | 0     |
| 56  | MG   | DA    | 3367 | 1/1   | 0.92 | 0.11 | 75,75,75,75                 | 0     |
| 56  | MG   | AA    | 1909 | 1/1   | 0.92 | 0.05 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3046 | 1/1   | 0.92 | 0.14 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3043 | 1/1   | 0.92 | 0.95 | 42,42,42,42                 | 0     |
| 56  | MG   | DA    | 3311 | 1/1   | 0.92 | 0.36 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3322 | 1/1   | 0.93 | 0.23 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3626 | 1/1   | 0.93 | 0.24 | 103,103,103,103             | 0     |
| 56  | MG   | DA    | 3362 | 1/1   | 0.93 | 0.42 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3354 | 1/1   | 0.93 | 0.11 | 34,34,34,34                 | 0     |
| 56  | MG   | AA    | 1797 | 1/1   | 0.93 | 0.34 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3881 | 1/1   | 0.93 | 0.10 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3273 | 1/1   | 0.93 | 0.30 | 63,63,63,63                 | 0     |
| 56  | MG   | CA    | 1668 | 1/1   | 0.93 | 0.13 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3231 | 1/1   | 0.93 | 0.26 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3522 | 1/1   | 0.93 | 0.32 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3810 | 1/1   | 0.93 | 0.12 | 27,27,27,27                 | 0     |
| 56  | MG   | BA    | 3323 | 1/1   | 0.93 | 0.27 | 45,45,45,45                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3750 | 1/1   | 0.93 | 0.12 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3412 | 1/1   | 0.93 | 0.21 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3414 | 1/1   | 0.93 | 0.15 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3264 | 1/1   | 0.93 | 0.21 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3884 | 1/1   | 0.93 | 0.08 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3079 | 1/1   | 0.93 | 0.51 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3020 | 1/1   | 0.93 | 0.44 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3548 | 1/1   | 0.93 | 0.17 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3513 | 1/1   | 0.93 | 0.17 | 59,59,59,59                 | 0     |
| 56  | MG   | AV    | 111  | 1/1   | 0.93 | 0.27 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3076 | 1/1   | 0.93 | 0.52 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3029 | 1/1   | 0.93 | 0.21 | 33,33,33,33                 | 0     |
| 56  | MG   | DA    | 3300 | 1/1   | 0.93 | 0.29 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3527 | 1/1   | 0.93 | 0.09 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3058 | 1/1   | 0.93 | 0.30 | 46,46,46,46                 | 0     |
| 56  | MG   | AA    | 1747 | 1/1   | 0.93 | 0.31 | 93,93,93,93                 | 0     |
| 56  | MG   | DA    | 3439 | 1/1   | 0.93 | 0.08 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3345 | 1/1   | 0.93 | 0.19 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3303 | 1/1   | 0.93 | 0.61 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3281 | 1/1   | 0.93 | 0.26 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3642 | 1/1   | 0.93 | 0.07 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3465 | 1/1   | 0.93 | 0.29 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3486 | 1/1   | 0.93 | 0.33 | 60,60,60,60                 | 0     |
| 56  | MG   | CA    | 1617 | 1/1   | 0.93 | 0.47 | 61,61,61,61                 | 0     |
| 56  | MG   | AA    | 1814 | 1/1   | 0.93 | 0.29 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3622 | 1/1   | 0.93 | 0.19 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3398 | 1/1   | 0.93 | 0.22 | 62,62,62,62                 | 0     |
| 56  | MG   | AA    | 1601 | 1/1   | 0.93 | 0.21 | 65,65,65,65                 | 0     |
| 56  | MG   | CA    | 1678 | 1/1   | 0.93 | 0.18 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3506 | 1/1   | 0.93 | 0.27 | 61,61,61,61                 | 0     |
| 56  | MG   | CA    | 1626 | 1/1   | 0.93 | 0.31 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3356 | 1/1   | 0.93 | 0.17 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3891 | 1/1   | 0.93 | 0.20 | 74,74,74,74                 | 0     |
| 56  | MG   | DT    | 202  | 1/1   | 0.93 | 0.17 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3419 | 1/1   | 0.93 | 0.25 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3476 | 1/1   | 0.93 | 0.17 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3200 | 1/1   | 0.93 | 0.45 | 35,35,35,35                 | 0     |
| 56  | MG   | AA    | 1691 | 1/1   | 0.93 | 0.33 | 121,121,121,121             | 0     |
| 56  | MG   | BZ    | 301  | 1/1   | 0.93 | 0.20 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1856 | 1/1   | 0.93 | 0.11 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3193 | 1/1   | 0.93 | 0.25 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3805 | 1/1   | 0.93 | 0.19 | 63,63,63,63                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3330 | 1/1   | 0.93 | 0.22 | 57,57,57,57                 | 0     |
| 56  | MG   | CA    | 1768 | 1/1   | 0.93 | 0.24 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3462 | 1/1   | 0.93 | 0.11 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3351 | 1/1   | 0.93 | 0.11 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3060 | 1/1   | 0.93 | 0.19 | 90,90,90,90                 | 0     |
| 56  | MG   | CA    | 1619 | 1/1   | 0.93 | 0.28 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3640 | 1/1   | 0.93 | 0.11 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3582 | 1/1   | 0.93 | 0.20 | 30,30,30,30                 | 0     |
| 56  | MG   | DO    | 202  | 1/1   | 0.93 | 0.13 | 95,95,95,95                 | 0     |
| 56  | MG   | BB    | 208  | 1/1   | 0.93 | 0.31 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3083 | 1/1   | 0.93 | 0.18 | 48,48,48,48                 | 0     |
| 56  | MG   | AA    | 1818 | 1/1   | 0.93 | 0.19 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3602 | 1/1   | 0.93 | 0.22 | 22,22,22,22                 | 0     |
| 56  | MG   | BA    | 3292 | 1/1   | 0.93 | 0.15 | 47,47,47,47                 | 0     |
| 56  | MG   | DA    | 3669 | 1/1   | 0.93 | 0.10 | 93,93,93,93                 | 0     |
| 56  | MG   | DA    | 3525 | 1/1   | 0.93 | 0.18 | 77,77,77,77                 | 0     |
| 56  | MG   | CA    | 1756 | 1/1   | 0.93 | 0.84 | 84,84,84,84                 | 0     |
| 56  | MG   | AA    | 1710 | 1/1   | 0.93 | 0.11 | 76,76,76,76                 | 0     |
| 56  | MG   | CA    | 1760 | 1/1   | 0.93 | 0.74 | 103,103,103,103             | 0     |
| 56  | MG   | CA    | 1750 | 1/1   | 0.93 | 0.18 | 56,56,56,56                 | 0     |
| 56  | MG   | AA    | 1919 | 1/1   | 0.93 | 0.22 | 63,63,63,63                 | 0     |
| 56  | MG   | BF    | 305  | 1/1   | 0.93 | 0.22 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3190 | 1/1   | 0.93 | 0.37 | 70,70,70,70                 | 0     |
| 56  | MG   | CA    | 1772 | 1/1   | 0.93 | 0.11 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3049 | 1/1   | 0.93 | 0.17 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3229 | 1/1   | 0.93 | 0.17 | 41,41,41,41                 | 0     |
| 56  | MG   | CA    | 1776 | 1/1   | 0.93 | 0.54 | 90,90,90,90                 | 0     |
| 56  | MG   | CA    | 1726 | 1/1   | 0.93 | 0.26 | 70,70,70,70                 | 0     |
| 56  | MG   | BB    | 213  | 1/1   | 0.93 | 0.39 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3358 | 1/1   | 0.93 | 0.23 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3628 | 1/1   | 0.93 | 0.14 | 66,66,66,66                 | 0     |
| 56  | MG   | CV    | 101  | 1/1   | 0.93 | 0.19 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3580 | 1/1   | 0.93 | 0.10 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3495 | 1/1   | 0.93 | 0.10 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3051 | 1/1   | 0.93 | 0.40 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3028 | 1/1   | 0.93 | 0.16 | 33,33,33,33                 | 0     |
| 56  | MG   | DA    | 3425 | 1/1   | 0.93 | 0.18 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3504 | 1/1   | 0.93 | 0.22 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3371 | 1/1   | 0.93 | 0.21 | 65,65,65,65                 | 0     |
| 56  | MG   | DD    | 301  | 1/1   | 0.93 | 0.17 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3261 | 1/1   | 0.93 | 0.19 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3495 | 1/1   | 0.93 | 0.55 | 56,56,56,56                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3076 | 1/1   | 0.93 | 0.19 | 51,51,51,51                | 0     |
| 56  | MG   | CA    | 1651 | 1/1   | 0.93 | 0.36 | 54,54,54,54                | 0     |
| 56  | MG   | CA    | 1724 | 1/1   | 0.93 | 0.29 | 88,88,88,88                | 0     |
| 56  | MG   | BA    | 3850 | 1/1   | 0.93 | 0.27 | 82,82,82,82                | 0     |
| 56  | MG   | AA    | 1671 | 1/1   | 0.93 | 0.62 | 94,94,94,94                | 0     |
| 56  | MG   | AA    | 1624 | 1/1   | 0.93 | 0.50 | 57,57,57,57                | 0     |
| 56  | MG   | BA    | 3802 | 1/1   | 0.93 | 0.20 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3353 | 1/1   | 0.93 | 0.21 | 57,57,57,57                | 0     |
| 56  | MG   | BA    | 3086 | 1/1   | 0.93 | 0.34 | 51,51,51,51                | 0     |
| 56  | MG   | AA    | 1705 | 1/1   | 0.93 | 0.19 | 55,55,55,55                | 0     |
| 56  | MG   | AI    | 201  | 1/1   | 0.93 | 0.26 | 66,66,66,66                | 0     |
| 56  | MG   | BA    | 3620 | 1/1   | 0.93 | 0.06 | 49,49,49,49                | 0     |
| 56  | MG   | BA    | 3668 | 1/1   | 0.93 | 0.13 | 29,29,29,29                | 0     |
| 56  | MG   | DA    | 3467 | 1/1   | 0.93 | 0.18 | 91,91,91,91                | 0     |
| 56  | MG   | BA    | 3118 | 1/1   | 0.93 | 0.58 | 44,44,44,44                | 0     |
| 56  | MG   | DA    | 3196 | 1/1   | 0.93 | 0.13 | 77,77,77,77                | 0     |
| 56  | MG   | BA    | 3746 | 1/1   | 0.93 | 0.27 | 77,77,77,77                | 0     |
| 56  | MG   | AV    | 105  | 1/1   | 0.93 | 0.21 | 64,64,64,64                | 0     |
| 56  | MG   | DA    | 3012 | 1/1   | 0.93 | 0.10 | 76,76,76,76                | 0     |
| 56  | MG   | AA    | 1810 | 1/1   | 0.93 | 0.28 | 84,84,84,84                | 0     |
| 57  | ZN   | D9    | 101  | 1/1   | 0.93 | 0.16 | 117,117,117,117            | 0     |
| 56  | MG   | DA    | 3322 | 1/1   | 0.93 | 0.33 | 52,52,52,52                | 0     |
| 56  | MG   | BA    | 3015 | 1/1   | 0.93 | 0.54 | 59,59,59,59                | 0     |
| 57  | ZN   | CN    | 101  | 1/1   | 0.93 | 0.10 | 165,165,165,165            | 0     |
| 56  | MG   | BA    | 3110 | 1/1   | 0.93 | 0.29 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3042 | 1/1   | 0.93 | 0.23 | 37,37,37,37                | 0     |
| 56  | MG   | BA    | 3459 | 1/1   | 0.93 | 0.20 | 49,49,49,49                | 0     |
| 56  | MG   | DA    | 3581 | 1/1   | 0.93 | 0.10 | 46,46,46,46                | 0     |
| 56  | MG   | DA    | 3444 | 1/1   | 0.93 | 0.08 | 54,54,54,54                | 0     |
| 56  | MG   | D0    | 103  | 1/1   | 0.93 | 0.18 | 55,55,55,55                | 0     |
| 56  | MG   | BA    | 3597 | 1/1   | 0.93 | 0.08 | 66,66,66,66                | 0     |
| 56  | MG   | BA    | 3236 | 1/1   | 0.93 | 0.15 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3053 | 1/1   | 0.93 | 0.21 | 44,44,44,44                | 0     |
| 56  | MG   | DA    | 3142 | 1/1   | 0.93 | 0.26 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3867 | 1/1   | 0.93 | 0.19 | 60,60,60,60                | 0     |
| 56  | MG   | BB    | 217  | 1/1   | 0.93 | 0.10 | 80,80,80,80                | 0     |
| 56  | MG   | BA    | 3847 | 1/1   | 0.93 | 0.30 | 82,82,82,82                | 0     |
| 56  | MG   | CA    | 1710 | 1/1   | 0.93 | 0.17 | 95,95,95,95                | 0     |
| 56  | MG   | BA    | 3613 | 1/1   | 0.94 | 0.25 | 40,40,40,40                | 0     |
| 56  | MG   | DA    | 3672 | 1/1   | 0.94 | 0.10 | 87,87,87,87                | 0     |
| 56  | MG   | CA    | 1744 | 1/1   | 0.94 | 0.06 | 80,80,80,80                | 0     |
| 56  | MG   | AA    | 1663 | 1/1   | 0.94 | 0.22 | 76,76,76,76                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1622 | 1/1   | 0.94 | 0.70 | 56,56,56,56                 | 0     |
| 56  | MG   | AA    | 1868 | 1/1   | 0.94 | 0.28 | 62,62,62,62                 | 0     |
| 56  | MG   | CA    | 1754 | 1/1   | 0.94 | 0.21 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3106 | 1/1   | 0.94 | 0.27 | 48,48,48,48                 | 0     |
| 56  | MG   | BB    | 210  | 1/1   | 0.94 | 0.40 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3612 | 1/1   | 0.94 | 0.08 | 61,61,61,61                 | 0     |
| 56  | MG   | BD    | 305  | 1/1   | 0.94 | 0.39 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1866 | 1/1   | 0.94 | 0.34 | 86,86,86,86                 | 0     |
| 56  | MG   | CA    | 1614 | 1/1   | 0.94 | 0.11 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3203 | 1/1   | 0.94 | 0.19 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3643 | 1/1   | 0.94 | 0.14 | 89,89,89,89                 | 0     |
| 56  | MG   | BA    | 3788 | 1/1   | 0.94 | 0.15 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3220 | 1/1   | 0.94 | 0.17 | 83,83,83,83                 | 0     |
| 56  | MG   | BA    | 3865 | 1/1   | 0.94 | 0.14 | 97,97,97,97                 | 0     |
| 56  | MG   | BA    | 3474 | 1/1   | 0.94 | 0.32 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3306 | 1/1   | 0.94 | 0.07 | 106,106,106,106             | 0     |
| 56  | MG   | BA    | 3034 | 1/1   | 0.94 | 0.21 | 23,23,23,23                 | 0     |
| 56  | MG   | BA    | 3308 | 1/1   | 0.94 | 0.20 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3224 | 1/1   | 0.94 | 0.22 | 33,33,33,33                 | 0     |
| 56  | MG   | BB    | 202  | 1/1   | 0.94 | 0.15 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3504 | 1/1   | 0.94 | 0.08 | 94,94,94,94                 | 0     |
| 56  | MG   | BA    | 3241 | 1/1   | 0.94 | 0.31 | 38,38,38,38                 | 0     |
| 56  | MG   | DA    | 3305 | 1/1   | 0.94 | 0.19 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3718 | 1/1   | 0.94 | 0.12 | 87,87,87,87                 | 0     |
| 56  | MG   | AA    | 1676 | 1/1   | 0.94 | 0.57 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3520 | 1/1   | 0.94 | 0.07 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3737 | 1/1   | 0.94 | 0.08 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3567 | 1/1   | 0.94 | 0.15 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3465 | 1/1   | 0.94 | 0.14 | 104,104,104,104             | 0     |
| 56  | MG   | BA    | 3632 | 1/1   | 0.94 | 0.12 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3323 | 1/1   | 0.94 | 0.13 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3505 | 1/1   | 0.94 | 0.16 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3458 | 1/1   | 0.94 | 0.30 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3052 | 1/1   | 0.94 | 0.29 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3461 | 1/1   | 0.94 | 0.16 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3604 | 1/1   | 0.94 | 0.17 | 97,97,97,97                 | 0     |
| 56  | MG   | CA    | 1759 | 1/1   | 0.94 | 0.18 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3199 | 1/1   | 0.94 | 0.34 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3079 | 1/1   | 0.94 | 0.40 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3316 | 1/1   | 0.94 | 0.21 | 48,48,48,48                 | 0     |
| 56  | MG   | CA    | 1733 | 1/1   | 0.94 | 0.08 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3806 | 1/1   | 0.94 | 0.21 | 57,57,57,57                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | BA    | 3811 | 1/1   | 0.94 | 0.12 | 85,85,85,85                | 0     |
| 56  | MG   | DA    | 3315 | 1/1   | 0.94 | 0.52 | 47,47,47,47                | 0     |
| 56  | MG   | AA    | 1729 | 1/1   | 0.94 | 0.18 | 79,79,79,79                | 0     |
| 56  | MG   | D1    | 101  | 1/1   | 0.94 | 0.30 | 61,61,61,61                | 0     |
| 56  | MG   | DA    | 3428 | 1/1   | 0.94 | 0.14 | 53,53,53,53                | 0     |
| 56  | MG   | BA    | 3409 | 1/1   | 0.94 | 0.15 | 45,45,45,45                | 0     |
| 56  | MG   | DA    | 3139 | 1/1   | 0.94 | 0.46 | 64,64,64,64                | 0     |
| 56  | MG   | DA    | 3586 | 1/1   | 0.94 | 0.28 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3153 | 1/1   | 0.94 | 0.20 | 56,56,56,56                | 0     |
| 56  | MG   | BA    | 3798 | 1/1   | 0.94 | 0.20 | 45,45,45,45                | 0     |
| 56  | MG   | AA    | 1853 | 1/1   | 0.94 | 0.20 | 93,93,93,93                | 0     |
| 56  | MG   | CA    | 1743 | 1/1   | 0.94 | 0.59 | 86,86,86,86                | 0     |
| 56  | MG   | DA    | 3391 | 1/1   | 0.94 | 0.17 | 48,48,48,48                | 0     |
| 56  | MG   | DA    | 3168 | 1/1   | 0.94 | 0.31 | 53,53,53,53                | 0     |
| 56  | MG   | DA    | 3037 | 1/1   | 0.94 | 0.14 | 83,83,83,83                | 0     |
| 56  | MG   | CA    | 1777 | 1/1   | 0.94 | 0.11 | 82,82,82,82                | 0     |
| 56  | MG   | BA    | 3235 | 1/1   | 0.94 | 0.06 | 55,55,55,55                | 0     |
| 56  | MG   | BA    | 3150 | 1/1   | 0.94 | 0.49 | 54,54,54,54                | 0     |
| 56  | MG   | BP    | 202  | 1/1   | 0.94 | 0.16 | 62,62,62,62                | 0     |
| 56  | MG   | DA    | 3270 | 1/1   | 0.94 | 0.22 | 70,70,70,70                | 0     |
| 56  | MG   | BA    | 3060 | 1/1   | 0.94 | 0.14 | 52,52,52,52                | 0     |
| 56  | MG   | AA    | 1656 | 1/1   | 0.94 | 0.08 | 72,72,72,72                | 0     |
| 56  | MG   | BA    | 3599 | 1/1   | 0.94 | 0.10 | 52,52,52,52                | 0     |
| 56  | MG   | BA    | 3723 | 1/1   | 0.94 | 0.09 | 51,51,51,51                | 0     |
| 56  | MG   | B0    | 103  | 1/1   | 0.94 | 0.17 | 68,68,68,68                | 0     |
| 56  | MG   | AA    | 1804 | 1/1   | 0.94 | 0.18 | 115,115,115,115            | 0     |
| 56  | MG   | DA    | 3487 | 1/1   | 0.94 | 0.05 | 70,70,70,70                | 0     |
| 56  | MG   | AA    | 1740 | 1/1   | 0.94 | 0.49 | 72,72,72,72                | 0     |
| 56  | MG   | BA    | 3179 | 1/1   | 0.94 | 0.26 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3318 | 1/1   | 0.94 | 0.16 | 63,63,63,63                | 0     |
| 56  | MG   | BA    | 3754 | 1/1   | 0.94 | 0.14 | 68,68,68,68                | 0     |
| 56  | MG   | DA    | 3596 | 1/1   | 0.94 | 0.19 | 67,67,67,67                | 0     |
| 56  | MG   | BA    | 3730 | 1/1   | 0.94 | 0.06 | 63,63,63,63                | 0     |
| 56  | MG   | BA    | 3391 | 1/1   | 0.94 | 0.25 | 27,27,27,27                | 0     |
| 56  | MG   | AA    | 1852 | 1/1   | 0.94 | 0.14 | 93,93,93,93                | 0     |
| 56  | MG   | DA    | 3657 | 1/1   | 0.94 | 0.07 | 89,89,89,89                | 0     |
| 56  | MG   | DA    | 3200 | 1/1   | 0.94 | 0.64 | 53,53,53,53                | 0     |
| 56  | MG   | BB    | 215  | 1/1   | 0.94 | 0.16 | 62,62,62,62                | 0     |
| 56  | MG   | CA    | 1719 | 1/1   | 0.94 | 0.23 | 85,85,85,85                | 0     |
| 56  | MG   | BA    | 3774 | 1/1   | 0.94 | 0.28 | 72,72,72,72                | 0     |
| 56  | MG   | BA    | 3634 | 1/1   | 0.94 | 0.08 | 46,46,46,46                | 0     |
| 56  | MG   | BB    | 201  | 1/1   | 0.94 | 0.39 | 57,57,57,57                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3530 | 1/1   | 0.94 | 0.30 | 72,72,72,72                 | 0     |
| 56  | MG   | CA    | 1746 | 1/1   | 0.94 | 0.09 | 65,65,65,65                 | 0     |
| 56  | MG   | AA    | 1738 | 1/1   | 0.94 | 0.15 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3094 | 1/1   | 0.94 | 0.17 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3075 | 1/1   | 0.94 | 0.18 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3167 | 1/1   | 0.94 | 0.25 | 31,31,31,31                 | 0     |
| 56  | MG   | BA    | 3348 | 1/1   | 0.94 | 0.26 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3426 | 1/1   | 0.94 | 0.14 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3614 | 1/1   | 0.94 | 0.45 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3386 | 1/1   | 0.94 | 0.29 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3441 | 1/1   | 0.94 | 0.32 | 47,47,47,47                 | 0     |
| 56  | MG   | CA    | 1682 | 1/1   | 0.94 | 0.49 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1816 | 1/1   | 0.94 | 0.19 | 107,107,107,107             | 0     |
| 56  | MG   | BA    | 3745 | 1/1   | 0.94 | 0.13 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3672 | 1/1   | 0.94 | 0.15 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3860 | 1/1   | 0.94 | 0.04 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3216 | 1/1   | 0.94 | 0.14 | 28,28,28,28                 | 0     |
| 56  | MG   | DA    | 3471 | 1/1   | 0.94 | 0.08 | 87,87,87,87                 | 0     |
| 56  | MG   | BA    | 3851 | 1/1   | 0.94 | 0.14 | 35,35,35,35                 | 0     |
| 56  | MG   | DA    | 3390 | 1/1   | 0.94 | 0.14 | 55,55,55,55                 | 0     |
| 56  | MG   | BB    | 204  | 1/1   | 0.94 | 0.36 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3051 | 1/1   | 0.94 | 0.37 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3372 | 1/1   | 0.94 | 0.16 | 77,77,77,77                 | 0     |
| 56  | MG   | AA    | 1700 | 1/1   | 0.94 | 0.22 | 116,116,116,116             | 0     |
| 56  | MG   | BA    | 3227 | 1/1   | 0.94 | 0.36 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3508 | 1/1   | 0.94 | 0.25 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3133 | 1/1   | 0.94 | 0.54 | 27,27,27,27                 | 0     |
| 56  | MG   | DA    | 3183 | 1/1   | 0.94 | 0.17 | 106,106,106,106             | 0     |
| 56  | MG   | AA    | 1683 | 1/1   | 0.94 | 0.28 | 106,106,106,106             | 0     |
| 56  | MG   | BA    | 3299 | 1/1   | 0.94 | 0.25 | 58,58,58,58                 | 0     |
| 56  | MG   | AA    | 1725 | 1/1   | 0.94 | 0.19 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3644 | 1/1   | 0.94 | 0.11 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3044 | 1/1   | 0.94 | 0.13 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3419 | 1/1   | 0.94 | 0.25 | 35,35,35,35                 | 0     |
| 56  | MG   | BB    | 228  | 1/1   | 0.94 | 0.09 | 69,69,69,69                 | 0     |
| 56  | MG   | BP    | 201  | 1/1   | 0.94 | 0.34 | 33,33,33,33                 | 0     |
| 56  | MG   | DA    | 3526 | 1/1   | 0.94 | 0.09 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3658 | 1/1   | 0.94 | 0.18 | 79,79,79,79                 | 0     |
| 56  | MG   | BF    | 303  | 1/1   | 0.94 | 0.11 | 41,41,41,41                 | 0     |
| 56  | MG   | DA    | 3241 | 1/1   | 0.94 | 0.13 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3578 | 1/1   | 0.94 | 0.16 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3375 | 1/1   | 0.94 | 0.27 | 47,47,47,47                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3013 | 1/1   | 0.94 | 0.30 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3647 | 1/1   | 0.94 | 0.13 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3725 | 1/1   | 0.94 | 0.13 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3496 | 1/1   | 0.94 | 0.26 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3075 | 1/1   | 0.94 | 0.42 | 84,84,84,84                 | 0     |
| 56  | MG   | AA    | 1777 | 1/1   | 0.94 | 0.35 | 61,61,61,61                 | 0     |
| 56  | MG   | AA    | 1649 | 1/1   | 0.94 | 0.15 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3119 | 1/1   | 0.94 | 0.16 | 50,50,50,50                 | 0     |
| 56  | MG   | AA    | 1757 | 1/1   | 0.94 | 0.21 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3436 | 1/1   | 0.94 | 0.07 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3101 | 1/1   | 0.94 | 0.32 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3638 | 1/1   | 0.94 | 0.25 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3561 | 1/1   | 0.94 | 0.14 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3251 | 1/1   | 0.94 | 0.47 | 51,51,51,51                 | 0     |
| 56  | MG   | CA    | 1625 | 1/1   | 0.94 | 0.42 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3760 | 1/1   | 0.94 | 0.08 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3714 | 1/1   | 0.94 | 0.30 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3608 | 1/1   | 0.94 | 0.07 | 82,82,82,82                 | 0     |
| 56  | MG   | DA    | 3514 | 1/1   | 0.94 | 0.20 | 76,76,76,76                 | 0     |
| 56  | MG   | CA    | 1707 | 1/1   | 0.94 | 1.37 | 72,72,72,72                 | 0     |
| 56  | MG   | CV    | 104  | 1/1   | 0.94 | 0.22 | 92,92,92,92                 | 0     |
| 56  | MG   | DA    | 3031 | 1/1   | 0.94 | 0.11 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3479 | 1/1   | 0.94 | 0.12 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3646 | 1/1   | 0.94 | 0.17 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3239 | 1/1   | 0.94 | 0.16 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3475 | 1/1   | 0.94 | 0.21 | 42,42,42,42                 | 0     |
| 56  | MG   | DA    | 3053 | 1/1   | 0.94 | 0.16 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3740 | 1/1   | 0.94 | 0.17 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3875 | 1/1   | 0.94 | 0.38 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3568 | 1/1   | 0.94 | 0.15 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3070 | 1/1   | 0.94 | 0.14 | 74,74,74,74                 | 0     |
| 56  | MG   | AA    | 1941 | 1/1   | 0.94 | 0.17 | 94,94,94,94                 | 0     |
| 56  | MG   | DA    | 3571 | 1/1   | 0.94 | 0.11 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3086 | 1/1   | 0.94 | 0.33 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3066 | 1/1   | 0.94 | 0.17 | 35,35,35,35                 | 0     |
| 56  | MG   | BF    | 304  | 1/1   | 0.94 | 0.39 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3477 | 1/1   | 0.94 | 0.31 | 45,45,45,45                 | 0     |
| 56  | MG   | DA    | 3115 | 1/1   | 0.94 | 0.59 | 75,75,75,75                 | 0     |
| 56  | MG   | CA    | 1789 | 1/1   | 0.94 | 0.23 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3111 | 1/1   | 0.94 | 0.28 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3104 | 1/1   | 0.94 | 0.43 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3047 | 1/1   | 0.94 | 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 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1636 | 1/1   | 0.94 | 0.42 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3365 | 1/1   | 0.94 | 0.12 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3074 | 1/1   | 0.94 | 0.30 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3719 | 1/1   | 0.94 | 0.12 | 71,71,71,71                 | 0     |
| 56  | MG   | CA    | 1630 | 1/1   | 0.94 | 0.53 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3821 | 1/1   | 0.94 | 0.08 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3647 | 1/1   | 0.94 | 0.20 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3869 | 1/1   | 0.94 | 0.11 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3481 | 1/1   | 0.94 | 0.37 | 85,85,85,85                 | 0     |
| 56  | MG   | DA    | 3145 | 1/1   | 0.94 | 0.17 | 41,41,41,41                 | 0     |
| 56  | MG   | DA    | 3095 | 1/1   | 0.94 | 0.36 | 41,41,41,41                 | 0     |
| 56  | MG   | DA    | 3229 | 1/1   | 0.94 | 0.43 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3767 | 1/1   | 0.94 | 0.13 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3244 | 1/1   | 0.94 | 0.34 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3175 | 1/1   | 0.94 | 0.38 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3837 | 1/1   | 0.94 | 0.24 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3655 | 1/1   | 0.94 | 0.12 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3639 | 1/1   | 0.94 | 0.10 | 82,82,82,82                 | 0     |
| 56  | MG   | DA    | 3063 | 1/1   | 0.95 | 0.45 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3232 | 1/1   | 0.95 | 0.16 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3141 | 1/1   | 0.95 | 0.15 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3762 | 1/1   | 0.95 | 0.14 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3410 | 1/1   | 0.95 | 0.50 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3605 | 1/1   | 0.95 | 0.20 | 101,101,101,101             | 0     |
| 56  | MG   | AA    | 1770 | 1/1   | 0.95 | 0.39 | 76,76,76,76                 | 0     |
| 56  | MG   | AA    | 1836 | 1/1   | 0.95 | 0.16 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3787 | 1/1   | 0.95 | 0.06 | 35,35,35,35                 | 0     |
| 56  | MG   | AA    | 1765 | 1/1   | 0.95 | 0.16 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3516 | 1/1   | 0.95 | 0.17 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3579 | 1/1   | 0.95 | 0.17 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3103 | 1/1   | 0.95 | 0.51 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3114 | 1/1   | 0.95 | 0.40 | 37,37,37,37                 | 0     |
| 56  | MG   | BA    | 3890 | 1/1   | 0.95 | 0.07 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3137 | 1/1   | 0.95 | 0.32 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3556 | 1/1   | 0.95 | 0.22 | 52,52,52,52                 | 0     |
| 56  | MG   | AA    | 1940 | 1/1   | 0.95 | 0.14 | 92,92,92,92                 | 0     |
| 56  | MG   | DA    | 3568 | 1/1   | 0.95 | 0.17 | 82,82,82,82                 | 0     |
| 56  | MG   | BA    | 3553 | 1/1   | 0.95 | 0.11 | 29,29,29,29                 | 0     |
| 56  | MG   | AA    | 1857 | 1/1   | 0.95 | 0.22 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3645 | 1/1   | 0.95 | 0.13 | 46,46,46,46                 | 0     |
| 56  | MG   | AV    | 109  | 1/1   | 0.95 | 0.19 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3243 | 1/1   | 0.95 | 0.07 | 78,78,78,78                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1633 | 1/1   | 0.95 | 0.50 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3575 | 1/1   | 0.95 | 0.11 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1634 | 1/1   | 0.95 | 0.33 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3073 | 1/1   | 0.95 | 0.67 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3451 | 1/1   | 0.95 | 0.21 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3128 | 1/1   | 0.95 | 0.35 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1716 | 1/1   | 0.95 | 0.14 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3454 | 1/1   | 0.95 | 0.14 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3077 | 1/1   | 0.95 | 0.34 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3497 | 1/1   | 0.95 | 0.20 | 61,61,61,61                 | 0     |
| 56  | MG   | AA    | 1623 | 1/1   | 0.95 | 0.19 | 59,59,59,59                 | 0     |
| 57  | ZN   | D4    | 101  | 1/1   | 0.95 | 0.13 | 178,178,178,178             | 0     |
| 56  | MG   | DA    | 3556 | 1/1   | 0.95 | 0.08 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3173 | 1/1   | 0.95 | 0.28 | 62,62,62,62                 | 0     |
| 56  | MG   | AA    | 1910 | 1/1   | 0.95 | 0.18 | 87,87,87,87                 | 0     |
| 56  | MG   | BR    | 202  | 1/1   | 0.95 | 0.27 | 30,30,30,30                 | 0     |
| 56  | MG   | BA    | 3759 | 1/1   | 0.95 | 0.22 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3697 | 1/1   | 0.95 | 0.15 | 51,51,51,51                 | 0     |
| 56  | MG   | B9    | 102  | 1/1   | 0.95 | 0.28 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3704 | 1/1   | 0.95 | 0.15 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3619 | 1/1   | 0.95 | 0.12 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3381 | 1/1   | 0.95 | 0.37 | 19,19,19,19                 | 0     |
| 56  | MG   | BE    | 303  | 1/1   | 0.95 | 0.18 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3706 | 1/1   | 0.95 | 0.22 | 29,29,29,29                 | 0     |
| 56  | MG   | BA    | 3355 | 1/1   | 0.95 | 0.35 | 62,62,62,62                 | 0     |
| 56  | MG   | BD    | 303  | 1/1   | 0.95 | 0.40 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3645 | 1/1   | 0.95 | 0.06 | 93,93,93,93                 | 0     |
| 56  | MG   | BA    | 3248 | 1/1   | 0.95 | 0.24 | 24,24,24,24                 | 0     |
| 56  | MG   | BA    | 3733 | 1/1   | 0.95 | 0.17 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3717 | 1/1   | 0.95 | 0.17 | 21,21,21,21                 | 0     |
| 56  | MG   | BA    | 3285 | 1/1   | 0.95 | 0.15 | 55,55,55,55                 | 0     |
| 56  | MG   | AA    | 1727 | 1/1   | 0.95 | 0.48 | 73,73,73,73                 | 0     |
| 56  | MG   | AA    | 1929 | 1/1   | 0.95 | 0.15 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3124 | 1/1   | 0.95 | 0.51 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3468 | 1/1   | 0.95 | 0.21 | 54,54,54,54                 | 0     |
| 56  | MG   | D5    | 101  | 1/1   | 0.95 | 0.61 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3452 | 1/1   | 0.95 | 0.35 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3376 | 1/1   | 0.95 | 0.35 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3279 | 1/1   | 0.95 | 0.11 | 50,50,50,50                 | 0     |
| 56  | MG   | AA    | 1850 | 1/1   | 0.95 | 0.47 | 85,85,85,85                 | 0     |
| 56  | MG   | DA    | 3573 | 1/1   | 0.95 | 0.17 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3529 | 1/1   | 0.95 | 0.14 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1877 | 1/1   | 0.95 | 0.08 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3134 | 1/1   | 0.95 | 0.22 | 35,35,35,35                 | 0     |
| 56  | MG   | DA    | 3275 | 1/1   | 0.95 | 0.33 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3178 | 1/1   | 0.95 | 0.35 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3625 | 1/1   | 0.95 | 0.10 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3084 | 1/1   | 0.95 | 0.26 | 43,43,43,43                 | 0     |
| 56  | MG   | CA    | 1755 | 1/1   | 0.95 | 0.17 | 93,93,93,93                 | 0     |
| 56  | MG   | DA    | 3551 | 1/1   | 0.95 | 0.25 | 42,42,42,42                 | 0     |
| 56  | MG   | DA    | 3637 | 1/1   | 0.95 | 0.09 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3657 | 1/1   | 0.95 | 0.25 | 51,51,51,51                 | 0     |
| 56  | MG   | AA    | 1654 | 1/1   | 0.95 | 0.34 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1739 | 1/1   | 0.95 | 0.20 | 79,79,79,79                 | 0     |
| 56  | MG   | DA    | 3143 | 1/1   | 0.95 | 0.22 | 50,50,50,50                 | 0     |
| 56  | MG   | DA    | 3394 | 1/1   | 0.95 | 0.10 | 36,36,36,36                 | 0     |
| 56  | MG   | AA    | 1666 | 1/1   | 0.95 | 0.25 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3584 | 1/1   | 0.95 | 0.14 | 54,54,54,54                 | 0     |
| 56  | MG   | B1    | 102  | 1/1   | 0.95 | 0.15 | 45,45,45,45                 | 0     |
| 56  | MG   | CA    | 1609 | 1/1   | 0.95 | 0.12 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1684 | 1/1   | 0.95 | 0.18 | 102,102,102,102             | 0     |
| 56  | MG   | DA    | 3067 | 1/1   | 0.95 | 0.16 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3031 | 1/1   | 0.95 | 0.22 | 29,29,29,29                 | 0     |
| 56  | MG   | BA    | 3130 | 1/1   | 0.95 | 0.08 | 30,30,30,30                 | 0     |
| 56  | MG   | BA    | 3380 | 1/1   | 0.95 | 0.19 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3321 | 1/1   | 0.95 | 0.62 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3361 | 1/1   | 0.95 | 0.23 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3503 | 1/1   | 0.95 | 0.15 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3463 | 1/1   | 0.95 | 0.10 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3587 | 1/1   | 0.95 | 0.18 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3417 | 1/1   | 0.95 | 0.43 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3233 | 1/1   | 0.95 | 0.23 | 22,22,22,22                 | 0     |
| 56  | MG   | DF    | 303  | 1/1   | 0.95 | 0.12 | 77,77,77,77                 | 0     |
| 56  | MG   | CA    | 1730 | 1/1   | 0.95 | 0.35 | 69,69,69,69                 | 0     |
| 56  | MG   | DR    | 201  | 1/1   | 0.95 | 0.23 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1918 | 1/1   | 0.95 | 0.13 | 68,68,68,68                 | 0     |
| 56  | MG   | AA    | 1732 | 1/1   | 0.95 | 0.10 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3761 | 1/1   | 0.95 | 0.21 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3028 | 1/1   | 0.95 | 0.52 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3478 | 1/1   | 0.95 | 0.35 | 90,90,90,90                 | 0     |
| 56  | MG   | CA    | 1725 | 1/1   | 0.95 | 0.16 | 79,79,79,79                 | 0     |
| 56  | MG   | BA    | 3016 | 1/1   | 0.95 | 0.43 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3343 | 1/1   | 0.95 | 0.25 | 37,37,37,37                 | 0     |
| 56  | MG   | DA    | 3617 | 1/1   | 0.95 | 0.10 | 86,86,86,86                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3751 | 1/1   | 0.95 | 0.08 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3427 | 1/1   | 0.95 | 0.22 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3786 | 1/1   | 0.95 | 0.16 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3863 | 1/1   | 0.95 | 0.09 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3186 | 1/1   | 0.95 | 0.46 | 27,27,27,27                 | 0     |
| 56  | MG   | BA    | 3180 | 1/1   | 0.95 | 0.36 | 41,41,41,41                 | 0     |
| 56  | MG   | BQ    | 202  | 1/1   | 0.95 | 0.18 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3041 | 1/1   | 0.95 | 0.09 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3532 | 1/1   | 0.95 | 0.23 | 34,34,34,34                 | 0     |
| 56  | MG   | B5    | 102  | 1/1   | 0.95 | 0.18 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3611 | 1/1   | 0.95 | 0.14 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3731 | 1/1   | 0.95 | 0.14 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3092 | 1/1   | 0.95 | 0.27 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3212 | 1/1   | 0.95 | 0.15 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3684 | 1/1   | 0.95 | 0.20 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3069 | 1/1   | 0.95 | 0.33 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3721 | 1/1   | 0.95 | 0.24 | 23,23,23,23                 | 0     |
| 56  | MG   | DA    | 3405 | 1/1   | 0.95 | 0.24 | 43,43,43,43                 | 0     |
| 56  | MG   | DA    | 3502 | 1/1   | 0.95 | 0.16 | 68,68,68,68                 | 0     |
| 56  | MG   | CA    | 1621 | 1/1   | 0.95 | 0.20 | 100,100,100,100             | 0     |
| 56  | MG   | BA    | 3080 | 1/1   | 0.95 | 0.19 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1730 | 1/1   | 0.95 | 0.17 | 61,61,61,61                 | 0     |
| 56  | MG   | AA    | 1792 | 1/1   | 0.95 | 0.17 | 44,44,44,44                 | 0     |
| 56  | MG   | CA    | 1769 | 1/1   | 0.95 | 0.20 | 93,93,93,93                 | 0     |
| 56  | MG   | BA    | 3429 | 1/1   | 0.95 | 0.24 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3829 | 1/1   | 0.95 | 0.37 | 82,82,82,82                 | 0     |
| 56  | MG   | BB    | 218  | 1/1   | 0.95 | 0.12 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3106 | 1/1   | 0.95 | 0.17 | 28,28,28,28                 | 0     |
| 56  | MG   | DA    | 3125 | 1/1   | 0.95 | 0.18 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3185 | 1/1   | 0.95 | 0.11 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3451 | 1/1   | 0.95 | 0.28 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3248 | 1/1   | 0.95 | 0.22 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1849 | 1/1   | 0.95 | 0.21 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3121 | 1/1   | 0.95 | 0.32 | 37,37,37,37                 | 0     |
| 56  | MG   | DA    | 3411 | 1/1   | 0.95 | 0.36 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3327 | 1/1   | 0.95 | 0.26 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3304 | 1/1   | 0.95 | 0.22 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3219 | 1/1   | 0.95 | 0.44 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3637 | 1/1   | 0.95 | 0.09 | 62,62,62,62                 | 0     |
| 56  | MG   | AA    | 1681 | 1/1   | 0.95 | 0.25 | 91,91,91,91                 | 0     |
| 56  | MG   | DA    | 3488 | 1/1   | 0.95 | 0.69 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3700 | 1/1   | 0.95 | 0.28 | 26,26,26,26                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3703 | 1/1   | 0.95 | 0.08 | 65,65,65,65                 | 0     |
| 56  | MG   | CA    | 1691 | 1/1   | 0.95 | 0.45 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3115 | 1/1   | 0.95 | 0.23 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3595 | 1/1   | 0.95 | 0.12 | 45,45,45,45                 | 0     |
| 56  | MG   | AA    | 1728 | 1/1   | 0.95 | 0.50 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3243 | 1/1   | 0.95 | 0.43 | 35,35,35,35                 | 0     |
| 56  | MG   | DA    | 3132 | 1/1   | 0.95 | 0.17 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3889 | 1/1   | 0.95 | 0.17 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3038 | 1/1   | 0.95 | 0.20 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3442 | 1/1   | 0.95 | 0.30 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3503 | 1/1   | 0.95 | 0.24 | 51,51,51,51                 | 0     |
| 56  | MG   | BQ    | 201  | 1/1   | 0.95 | 0.17 | 18,18,18,18                 | 0     |
| 56  | MG   | BA    | 3639 | 1/1   | 0.95 | 0.09 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3382 | 1/1   | 0.95 | 0.16 | 68,68,68,68                 | 0     |
| 56  | MG   | AA    | 1616 | 1/1   | 0.95 | 0.13 | 65,65,65,65                 | 0     |
| 56  | MG   | DA    | 3195 | 1/1   | 0.95 | 0.17 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3324 | 1/1   | 0.95 | 0.14 | 55,55,55,55                 | 0     |
| 56  | MG   | AA    | 1664 | 1/1   | 0.95 | 0.13 | 51,51,51,51                 | 0     |
| 56  | MG   | CA    | 1721 | 1/1   | 0.95 | 0.10 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3626 | 1/1   | 0.95 | 0.08 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3453 | 1/1   | 0.95 | 0.15 | 77,77,77,77                 | 0     |
| 56  | MG   | DA    | 3108 | 1/1   | 0.95 | 0.28 | 45,45,45,45                 | 0     |
| 56  | MG   | DA    | 3388 | 1/1   | 0.95 | 0.09 | 74,74,74,74                 | 0     |
| 56  | MG   | DA    | 3418 | 1/1   | 0.95 | 0.34 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3385 | 1/1   | 0.95 | 0.17 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3306 | 1/1   | 0.95 | 0.18 | 45,45,45,45                 | 0     |
| 56  | MG   | CA    | 1697 | 1/1   | 0.95 | 0.58 | 117,117,117,117             | 0     |
| 56  | MG   | DA    | 3660 | 1/1   | 0.95 | 0.11 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3100 | 1/1   | 0.95 | 0.28 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3005 | 1/1   | 0.95 | 0.14 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3030 | 1/1   | 0.95 | 0.18 | 36,36,36,36                 | 0     |
| 56  | MG   | DA    | 3373 | 1/1   | 0.95 | 0.35 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3776 | 1/1   | 0.95 | 0.53 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3679 | 1/1   | 0.95 | 0.22 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3282 | 1/1   | 0.95 | 0.16 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1632 | 1/1   | 0.95 | 0.50 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3328 | 1/1   | 0.96 | 0.15 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3633 | 1/1   | 0.96 | 0.11 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3384 | 1/1   | 0.96 | 0.20 | 51,51,51,51                 | 0     |
| 56  | MG   | CA    | 1627 | 1/1   | 0.96 | 0.56 | 50,50,50,50                 | 0     |
| 56  | MG   | BV    | 202  | 1/1   | 0.96 | 0.19 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3129 | 1/1   | 0.96 | 0.29 | 49,49,49,49                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3453 | 1/1   | 0.96 | 0.59 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3518 | 1/1   | 0.96 | 0.23 | 33,33,33,33                 | 0     |
| 57  | ZN   | CD    | 301  | 1/1   | 0.96 | 0.28 | 90,90,90,90                 | 0     |
| 56  | MG   | BA    | 3675 | 1/1   | 0.96 | 0.19 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3021 | 1/1   | 0.96 | 0.11 | 35,35,35,35                 | 0     |
| 56  | MG   | DF    | 302  | 1/1   | 0.96 | 0.33 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3442 | 1/1   | 0.96 | 0.18 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3182 | 1/1   | 0.96 | 0.41 | 25,25,25,25                 | 0     |
| 56  | MG   | DA    | 3131 | 1/1   | 0.96 | 0.34 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3361 | 1/1   | 0.96 | 0.19 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1855 | 1/1   | 0.96 | 0.18 | 80,80,80,80                 | 0     |
| 56  | MG   | BB    | 207  | 1/1   | 0.96 | 0.27 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3543 | 1/1   | 0.96 | 0.12 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3769 | 1/1   | 0.96 | 0.18 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3558 | 1/1   | 0.96 | 0.25 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3601 | 1/1   | 0.96 | 0.31 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3271 | 1/1   | 0.96 | 0.16 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1673 | 1/1   | 0.96 | 0.22 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3648 | 1/1   | 0.96 | 0.17 | 49,49,49,49                 | 0     |
| 56  | MG   | AA    | 1882 | 1/1   | 0.96 | 0.13 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3015 | 1/1   | 0.96 | 0.14 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3804 | 1/1   | 0.96 | 0.14 | 59,59,59,59                 | 0     |
| 56  | MG   | B5    | 103  | 1/1   | 0.96 | 0.12 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3007 | 1/1   | 0.96 | 0.10 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3894 | 1/1   | 0.96 | 0.19 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3024 | 1/1   | 0.96 | 0.27 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3570 | 1/1   | 0.96 | 0.12 | 60,60,60,60                 | 0     |
| 56  | MG   | CA    | 1669 | 1/1   | 0.96 | 0.83 | 78,78,78,78                 | 0     |
| 56  | MG   | AA    | 1769 | 1/1   | 0.96 | 0.14 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3278 | 1/1   | 0.96 | 0.10 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1859 | 1/1   | 0.96 | 0.11 | 91,91,91,91                 | 0     |
| 56  | MG   | DA    | 3485 | 1/1   | 0.96 | 0.11 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3100 | 1/1   | 0.96 | 0.15 | 48,48,48,48                 | 0     |
| 56  | MG   | BF    | 301  | 1/1   | 0.96 | 0.21 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3609 | 1/1   | 0.96 | 0.07 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3501 | 1/1   | 0.96 | 0.12 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3434 | 1/1   | 0.96 | 0.20 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3619 | 1/1   | 0.96 | 0.06 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3607 | 1/1   | 0.96 | 0.29 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3594 | 1/1   | 0.96 | 0.22 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3445 | 1/1   | 0.96 | 0.14 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3026 | 1/1   | 0.96 | 0.29 | 64,64,64,64                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3598 | 1/1   | 0.96 | 0.34 | 69,69,69,69                 | 0     |
| 56  | MG   | CA    | 1729 | 1/1   | 0.96 | 0.18 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3037 | 1/1   | 0.96 | 0.14 | 37,37,37,37                 | 0     |
| 56  | MG   | AA    | 1854 | 1/1   | 0.96 | 0.16 | 73,73,73,73                 | 0     |
| 56  | MG   | DA    | 3508 | 1/1   | 0.96 | 0.17 | 87,87,87,87                 | 0     |
| 56  | MG   | BA    | 3245 | 1/1   | 0.96 | 0.33 | 42,42,42,42                 | 0     |
| 56  | MG   | CA    | 1686 | 1/1   | 0.96 | 0.14 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3814 | 1/1   | 0.96 | 0.26 | 86,86,86,86                 | 0     |
| 56  | MG   | BA    | 3286 | 1/1   | 0.96 | 0.17 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3353 | 1/1   | 0.96 | 0.62 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3438 | 1/1   | 0.96 | 0.09 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1799 | 1/1   | 0.96 | 0.13 | 95,95,95,95                 | 0     |
| 56  | MG   | BE    | 301  | 1/1   | 0.96 | 0.43 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3208 | 1/1   | 0.96 | 0.12 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3727 | 1/1   | 0.96 | 0.12 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3172 | 1/1   | 0.96 | 0.48 | 44,44,44,44                 | 0     |
| 56  | MG   | CA    | 1602 | 1/1   | 0.96 | 0.25 | 72,72,72,72                 | 0     |
| 56  | MG   | BA    | 3624 | 1/1   | 0.96 | 0.15 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3856 | 1/1   | 0.96 | 0.14 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3220 | 1/1   | 0.96 | 0.37 | 27,27,27,27                 | 0     |
| 56  | MG   | BA    | 3686 | 1/1   | 0.96 | 0.13 | 26,26,26,26                 | 0     |
| 56  | MG   | BA    | 3360 | 1/1   | 0.96 | 0.21 | 51,51,51,51                 | 0     |
| 56  | MG   | DB    | 210  | 1/1   | 0.96 | 0.18 | 91,91,91,91                 | 0     |
| 56  | MG   | BA    | 3722 | 1/1   | 0.96 | 0.05 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3108 | 1/1   | 0.96 | 0.12 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3680 | 1/1   | 0.96 | 0.08 | 46,46,46,46                 | 0     |
| 56  | MG   | CA    | 1641 | 1/1   | 0.96 | 0.23 | 80,80,80,80                 | 0     |
| 56  | MG   | CA    | 1660 | 1/1   | 0.96 | 0.23 | 92,92,92,92                 | 0     |
| 56  | MG   | BA    | 3707 | 1/1   | 0.96 | 0.14 | 25,25,25,25                 | 0     |
| 56  | MG   | DA    | 3574 | 1/1   | 0.96 | 0.14 | 53,53,53,53                 | 0     |
| 56  | MG   | AA    | 1933 | 1/1   | 0.96 | 0.13 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3537 | 1/1   | 0.96 | 0.51 | 68,68,68,68                 | 0     |
| 56  | MG   | AA    | 1863 | 1/1   | 0.96 | 0.26 | 54,54,54,54                 | 0     |
| 56  | MG   | CA    | 1753 | 1/1   | 0.96 | 0.22 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3793 | 1/1   | 0.96 | 0.47 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3044 | 1/1   | 0.96 | 0.20 | 62,62,62,62                 | 0     |
| 56  | MG   | CA    | 1611 | 1/1   | 0.96 | 0.13 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3476 | 1/1   | 0.96 | 0.11 | 50,50,50,50                 | 0     |
| 56  | MG   | AD    | 302  | 1/1   | 0.96 | 0.39 | 79,79,79,79                 | 0     |
| 56  | MG   | BA    | 3074 | 1/1   | 0.96 | 0.15 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3732 | 1/1   | 0.96 | 0.19 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3773 | 1/1   | 0.96 | 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 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3628 | 1/1   | 0.96 | 0.11 | 80,80,80,80                 | 0     |
| 56  | MG   | DA    | 3414 | 1/1   | 0.96 | 0.17 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3107 | 1/1   | 0.96 | 0.14 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1713 | 1/1   | 0.96 | 0.32 | 60,60,60,60                 | 0     |
| 56  | MG   | AA    | 1864 | 1/1   | 0.96 | 0.14 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3253 | 1/1   | 0.96 | 0.38 | 20,20,20,20                 | 0     |
| 56  | MG   | BA    | 3816 | 1/1   | 0.96 | 0.15 | 85,85,85,85                 | 0     |
| 56  | MG   | BA    | 3548 | 1/1   | 0.96 | 0.25 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3687 | 1/1   | 0.96 | 0.08 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3536 | 1/1   | 0.96 | 0.15 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3650 | 1/1   | 0.96 | 0.09 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3523 | 1/1   | 0.96 | 0.09 | 86,86,86,86                 | 0     |
| 56  | MG   | AA    | 1938 | 1/1   | 0.96 | 0.10 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3554 | 1/1   | 0.96 | 0.30 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3412 | 1/1   | 0.96 | 0.12 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3001 | 1/1   | 0.96 | 0.14 | 58,58,58,58                 | 0     |
| 56  | MG   | BA    | 3621 | 1/1   | 0.96 | 0.19 | 30,30,30,30                 | 0     |
| 56  | MG   | BA    | 3834 | 1/1   | 0.96 | 0.19 | 27,27,27,27                 | 0     |
| 56  | MG   | DA    | 3584 | 1/1   | 0.96 | 0.10 | 76,76,76,76                 | 0     |
| 56  | MG   | DA    | 3644 | 1/1   | 0.96 | 0.05 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3758 | 1/1   | 0.96 | 0.09 | 60,60,60,60                 | 0     |
| 56  | MG   | DA    | 3096 | 1/1   | 0.96 | 0.21 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3489 | 1/1   | 0.96 | 0.12 | 55,55,55,55                 | 0     |
| 56  | MG   | DA    | 3547 | 1/1   | 0.96 | 0.10 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3120 | 1/1   | 0.96 | 0.15 | 42,42,42,42                 | 0     |
| 56  | MG   | D6    | 103  | 1/1   | 0.96 | 0.31 | 93,93,93,93                 | 0     |
| 56  | MG   | CA    | 1716 | 1/1   | 0.96 | 0.24 | 66,66,66,66                 | 0     |
| 56  | MG   | CA    | 1715 | 1/1   | 0.96 | 0.13 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1782 | 1/1   | 0.96 | 0.23 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3253 | 1/1   | 0.96 | 0.36 | 67,67,67,67                 | 0     |
| 56  | MG   | BA    | 3757 | 1/1   | 0.96 | 0.15 | 28,28,28,28                 | 0     |
| 56  | MG   | BA    | 3735 | 1/1   | 0.96 | 0.05 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3555 | 1/1   | 0.96 | 0.05 | 94,94,94,94                 | 0     |
| 56  | MG   | BA    | 3143 | 1/1   | 0.96 | 0.32 | 20,20,20,20                 | 0     |
| 56  | MG   | DA    | 3340 | 1/1   | 0.96 | 0.46 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3690 | 1/1   | 0.96 | 0.10 | 27,27,27,27                 | 0     |
| 56  | MG   | DA    | 3022 | 1/1   | 0.96 | 0.10 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3525 | 1/1   | 0.96 | 0.10 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3608 | 1/1   | 0.96 | 0.14 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3658 | 1/1   | 0.96 | 0.26 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3531 | 1/1   | 0.96 | 0.04 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3563 | 1/1   | 0.96 | 0.12 | 45,45,45,45                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3592 | 1/1   | 0.96 | 0.13 | 69,69,69,69                 | 0     |
| 56  | MG   | BA    | 3794 | 1/1   | 0.96 | 0.17 | 80,80,80,80                 | 0     |
| 56  | MG   | BA    | 3242 | 1/1   | 0.96 | 0.25 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3603 | 1/1   | 0.96 | 0.12 | 32,32,32,32                 | 0     |
| 56  | MG   | DA    | 3473 | 1/1   | 0.96 | 0.14 | 81,81,81,81                 | 0     |
| 56  | MG   | CA    | 1761 | 1/1   | 0.96 | 0.29 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3528 | 1/1   | 0.96 | 0.09 | 71,71,71,71                 | 0     |
| 56  | MG   | CA    | 1720 | 1/1   | 0.96 | 0.24 | 84,84,84,84                 | 0     |
| 56  | MG   | DA    | 3461 | 1/1   | 0.96 | 0.28 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3165 | 1/1   | 0.96 | 0.47 | 17,17,17,17                 | 0     |
| 56  | MG   | AA    | 1640 | 1/1   | 0.96 | 0.19 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3775 | 1/1   | 0.96 | 0.27 | 74,74,74,74                 | 0     |
| 56  | MG   | BV    | 201  | 1/1   | 0.96 | 0.38 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3041 | 1/1   | 0.96 | 0.48 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3450 | 1/1   | 0.96 | 0.26 | 42,42,42,42                 | 0     |
| 56  | MG   | BE    | 304  | 1/1   | 0.96 | 0.44 | 14,14,14,14                 | 0     |
| 56  | MG   | AA    | 1748 | 1/1   | 0.96 | 0.16 | 90,90,90,90                 | 0     |
| 56  | MG   | DE    | 302  | 1/1   | 0.96 | 0.52 | 55,55,55,55                 | 0     |
| 56  | MG   | DE    | 303  | 1/1   | 0.96 | 0.45 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3088 | 1/1   | 0.96 | 0.27 | 45,45,45,45                 | 0     |
| 56  | MG   | DA    | 3675 | 1/1   | 0.96 | 0.10 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3418 | 1/1   | 0.96 | 0.25 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3694 | 1/1   | 0.96 | 0.13 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3424 | 1/1   | 0.96 | 0.15 | 72,72,72,72                 | 0     |
| 56  | MG   | DA    | 3093 | 1/1   | 0.96 | 0.29 | 77,77,77,77                 | 0     |
| 56  | MG   | BA    | 3160 | 1/1   | 0.96 | 0.42 | 41,41,41,41                 | 0     |
| 56  | MG   | AA    | 1881 | 1/1   | 0.96 | 0.15 | 50,50,50,50                 | 0     |
| 56  | MG   | BA    | 3105 | 1/1   | 0.96 | 0.16 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3462 | 1/1   | 0.96 | 0.34 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3818 | 1/1   | 0.96 | 0.28 | 86,86,86,86                 | 0     |
| 56  | MG   | AA    | 1750 | 1/1   | 0.96 | 0.15 | 79,79,79,79                 | 0     |
| 56  | MG   | CA    | 1781 | 1/1   | 0.96 | 0.19 | 103,103,103,103             | 0     |
| 56  | MG   | BA    | 3387 | 1/1   | 0.96 | 0.16 | 48,48,48,48                 | 0     |
| 56  | MG   | AA    | 1609 | 1/1   | 0.96 | 0.69 | 61,61,61,61                 | 0     |
| 56  | MG   | CA    | 1620 | 1/1   | 0.96 | 0.14 | 70,70,70,70                 | 0     |
| 56  | MG   | AA    | 1876 | 1/1   | 0.96 | 0.08 | 89,89,89,89                 | 0     |
| 56  | MG   | BB    | 230  | 1/1   | 0.96 | 0.18 | 56,56,56,56                 | 0     |
| 56  | MG   | DA    | 3212 | 1/1   | 0.96 | 0.28 | 66,66,66,66                 | 0     |
| 56  | MG   | DA    | 3327 | 1/1   | 0.96 | 0.41 | 64,64,64,64                 | 0     |
| 56  | MG   | CA    | 1766 | 1/1   | 0.96 | 0.10 | 106,106,106,106             | 0     |
| 56  | MG   | AA    | 1630 | 1/1   | 0.96 | 0.21 | 98,98,98,98                 | 0     |
| 56  | MG   | DA    | 3542 | 1/1   | 0.96 | 0.09 | 84,84,84,84                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | DA    | 3091 | 1/1   | 0.96 | 0.11 | 47,47,47,47                 | 0     |
| 56  | MG   | AA    | 1891 | 1/1   | 0.96 | 0.05 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3295 | 1/1   | 0.96 | 0.23 | 45,45,45,45                 | 0     |
| 56  | MG   | AA    | 1840 | 1/1   | 0.96 | 0.16 | 83,83,83,83                 | 0     |
| 56  | MG   | DA    | 3246 | 1/1   | 0.96 | 0.17 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3562 | 1/1   | 0.96 | 0.21 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3071 | 1/1   | 0.96 | 0.38 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1776 | 1/1   | 0.96 | 0.22 | 89,89,89,89                 | 0     |
| 56  | MG   | BA    | 3598 | 1/1   | 0.96 | 0.04 | 54,54,54,54                 | 0     |
| 56  | MG   | AA    | 1947 | 1/1   | 0.96 | 0.08 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3651 | 1/1   | 0.96 | 0.05 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3067 | 1/1   | 0.96 | 0.11 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3202 | 1/1   | 0.96 | 0.16 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3289 | 1/1   | 0.96 | 0.23 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3500 | 1/1   | 0.96 | 0.10 | 68,68,68,68                 | 0     |
| 56  | MG   | CA    | 1790 | 1/1   | 0.96 | 0.30 | 64,64,64,64                 | 0     |
| 56  | MG   | AA    | 1756 | 1/1   | 0.96 | 0.23 | 90,90,90,90                 | 0     |
| 56  | MG   | DB    | 201  | 1/1   | 0.96 | 0.21 | 61,61,61,61                 | 0     |
| 56  | MG   | BA    | 3670 | 1/1   | 0.96 | 0.07 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3096 | 1/1   | 0.96 | 0.14 | 37,37,37,37                 | 0     |
| 56  | MG   | BA    | 3215 | 1/1   | 0.96 | 0.40 | 16,16,16,16                 | 0     |
| 56  | MG   | BA    | 3470 | 1/1   | 0.96 | 0.28 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3520 | 1/1   | 0.96 | 0.35 | 38,38,38,38                 | 0     |
| 56  | MG   | DA    | 3399 | 1/1   | 0.96 | 0.38 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3085 | 1/1   | 0.96 | 0.29 | 35,35,35,35                 | 0     |
| 56  | MG   | BA    | 3783 | 1/1   | 0.96 | 0.23 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3581 | 1/1   | 0.96 | 0.18 | 29,29,29,29                 | 0     |
| 56  | MG   | BA    | 3452 | 1/1   | 0.96 | 0.33 | 55,55,55,55                 | 0     |
| 56  | MG   | BA    | 3036 | 1/1   | 0.96 | 0.34 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3177 | 1/1   | 0.96 | 0.22 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3766 | 1/1   | 0.96 | 0.19 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3056 | 1/1   | 0.96 | 0.28 | 50,50,50,50                 | 0     |
| 56  | MG   | DA    | 3080 | 1/1   | 0.96 | 0.34 | 36,36,36,36                 | 0     |
| 56  | MG   | B0    | 101  | 1/1   | 0.96 | 0.37 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3696 | 1/1   | 0.97 | 0.07 | 30,30,30,30                 | 0     |
| 56  | MG   | DA    | 3403 | 1/1   | 0.97 | 0.42 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3062 | 1/1   | 0.97 | 0.14 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3526 | 1/1   | 0.97 | 0.08 | 40,40,40,40                 | 0     |
| 56  | MG   | DA    | 3433 | 1/1   | 0.97 | 0.26 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3768 | 1/1   | 0.97 | 0.04 | 90,90,90,90                 | 0     |
| 56  | MG   | DA    | 3184 | 1/1   | 0.97 | 0.44 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3539 | 1/1   | 0.97 | 0.11 | 22,22,22,22                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1892 | 1/1   | 0.97 | 0.08 | 84,84,84,84                 | 0     |
| 56  | MG   | AA    | 1895 | 1/1   | 0.97 | 0.18 | 87,87,87,87                 | 0     |
| 56  | MG   | DA    | 3301 | 1/1   | 0.97 | 0.12 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3146 | 1/1   | 0.97 | 0.30 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3573 | 1/1   | 0.97 | 0.07 | 54,54,54,54                 | 0     |
| 56  | MG   | B6    | 102  | 1/1   | 0.97 | 0.07 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3576 | 1/1   | 0.97 | 0.13 | 66,66,66,66                 | 0     |
| 57  | ZN   | DY    | 201  | 1/1   | 0.97 | 0.07 | 123,123,123,123             | 0     |
| 56  | MG   | BA    | 3627 | 1/1   | 0.97 | 0.07 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3393 | 1/1   | 0.97 | 0.14 | 28,28,28,28                 | 0     |
| 56  | MG   | AA    | 1745 | 1/1   | 0.97 | 0.28 | 64,64,64,64                 | 0     |
| 56  | MG   | BA    | 3572 | 1/1   | 0.97 | 0.07 | 66,66,66,66                 | 0     |
| 56  | MG   | BA    | 3231 | 1/1   | 0.97 | 0.20 | 31,31,31,31                 | 0     |
| 56  | MG   | BA    | 3836 | 1/1   | 0.97 | 0.20 | 23,23,23,23                 | 0     |
| 56  | MG   | BA    | 3674 | 1/1   | 0.97 | 0.12 | 27,27,27,27                 | 0     |
| 56  | MG   | BA    | 3698 | 1/1   | 0.97 | 0.08 | 44,44,44,44                 | 0     |
| 56  | MG   | AA    | 1916 | 1/1   | 0.97 | 0.07 | 82,82,82,82                 | 0     |
| 56  | MG   | DA    | 3475 | 1/1   | 0.97 | 0.20 | 78,78,78,78                 | 0     |
| 56  | MG   | CA    | 1771 | 1/1   | 0.97 | 0.20 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3564 | 1/1   | 0.97 | 0.10 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3578 | 1/1   | 0.97 | 0.15 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3681 | 1/1   | 0.97 | 0.14 | 52,52,52,52                 | 0     |
| 56  | MG   | DA    | 3048 | 1/1   | 0.97 | 0.13 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3195 | 1/1   | 0.97 | 0.34 | 19,19,19,19                 | 0     |
| 56  | MG   | BA    | 3255 | 1/1   | 0.97 | 0.34 | 16,16,16,16                 | 0     |
| 56  | MG   | BA    | 3072 | 1/1   | 0.97 | 0.65 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3830 | 1/1   | 0.97 | 0.14 | 31,31,31,31                 | 0     |
| 56  | MG   | BA    | 3839 | 1/1   | 0.97 | 0.12 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3557 | 1/1   | 0.97 | 0.05 | 62,62,62,62                 | 0     |
| 56  | MG   | BA    | 3136 | 1/1   | 0.97 | 0.26 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3218 | 1/1   | 0.97 | 0.23 | 20,20,20,20                 | 0     |
| 56  | MG   | BA    | 3335 | 1/1   | 0.97 | 0.32 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3019 | 1/1   | 0.97 | 0.22 | 33,33,33,33                 | 0     |
| 56  | MG   | CA    | 1696 | 1/1   | 0.97 | 0.11 | 99,99,99,99                 | 0     |
| 56  | MG   | BA    | 3734 | 1/1   | 0.97 | 0.12 | 40,40,40,40                 | 0     |
| 57  | ZN   | B4    | 101  | 1/1   | 0.97 | 0.05 | 137,137,137,137             | 0     |
| 56  | MG   | BQ    | 204  | 1/1   | 0.97 | 0.15 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3622 | 1/1   | 0.97 | 0.16 | 65,65,65,65                 | 0     |
| 56  | MG   | BA    | 3502 | 1/1   | 0.97 | 0.27 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3184 | 1/1   | 0.97 | 0.29 | 31,31,31,31                 | 0     |
| 56  | MG   | DA    | 3492 | 1/1   | 0.97 | 0.12 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3396 | 1/1   | 0.97 | 0.13 | 37,37,37,37                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3204 | 1/1   | 0.97 | 0.20 | 52,52,52,52                 | 0     |
| 56  | MG   | BA    | 3795 | 1/1   | 0.97 | 0.17 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3693 | 1/1   | 0.97 | 0.10 | 38,38,38,38                 | 0     |
| 56  | MG   | DA    | 3401 | 1/1   | 0.97 | 0.29 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3170 | 1/1   | 0.97 | 0.18 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3386 | 1/1   | 0.97 | 0.17 | 54,54,54,54                 | 0     |
| 56  | MG   | DA    | 3445 | 1/1   | 0.97 | 0.14 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3449 | 1/1   | 0.97 | 0.51 | 34,34,34,34                 | 0     |
| 56  | MG   | DA    | 3450 | 1/1   | 0.97 | 0.32 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3615 | 1/1   | 0.97 | 0.23 | 68,68,68,68                 | 0     |
| 56  | MG   | BA    | 3832 | 1/1   | 0.97 | 0.15 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3623 | 1/1   | 0.97 | 0.05 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3047 | 1/1   | 0.97 | 0.32 | 32,32,32,32                 | 0     |
| 56  | MG   | BA    | 3588 | 1/1   | 0.97 | 0.17 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3784 | 1/1   | 0.97 | 0.20 | 88,88,88,88                 | 0     |
| 56  | MG   | AA    | 1872 | 1/1   | 0.97 | 0.18 | 41,41,41,41                 | 0     |
| 56  | MG   | AA    | 1875 | 1/1   | 0.97 | 0.22 | 59,59,59,59                 | 0     |
| 56  | MG   | AA    | 1889 | 1/1   | 0.97 | 0.17 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3530 | 1/1   | 0.97 | 0.11 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3676 | 1/1   | 0.97 | 0.17 | 20,20,20,20                 | 0     |
| 56  | MG   | BA    | 3516 | 1/1   | 0.97 | 0.33 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3635 | 1/1   | 0.97 | 0.14 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3151 | 1/1   | 0.97 | 0.22 | 45,45,45,45                 | 0     |
| 56  | MG   | AA    | 1934 | 1/1   | 0.97 | 0.08 | 48,48,48,48                 | 0     |
| 56  | MG   | DA    | 3308 | 1/1   | 0.97 | 0.17 | 60,60,60,60                 | 0     |
| 56  | MG   | BF    | 307  | 1/1   | 0.97 | 0.22 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3540 | 1/1   | 0.97 | 0.16 | 19,19,19,19                 | 0     |
| 56  | MG   | BA    | 3596 | 1/1   | 0.97 | 0.06 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3429 | 1/1   | 0.97 | 0.06 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3552 | 1/1   | 0.97 | 0.06 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3560 | 1/1   | 0.97 | 0.18 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3254 | 1/1   | 0.97 | 0.39 | 21,21,21,21                 | 0     |
| 56  | MG   | DA    | 3642 | 1/1   | 0.97 | 0.10 | 71,71,71,71                 | 0     |
| 56  | MG   | DA    | 3456 | 1/1   | 0.97 | 0.18 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3809 | 1/1   | 0.97 | 0.18 | 40,40,40,40                 | 0     |
| 56  | MG   | DA    | 3559 | 1/1   | 0.97 | 0.13 | 76,76,76,76                 | 0     |
| 56  | MG   | BA    | 3545 | 1/1   | 0.97 | 0.12 | 53,53,53,53                 | 0     |
| 56  | MG   | BA    | 3166 | 1/1   | 0.97 | 0.46 | 30,30,30,30                 | 0     |
| 56  | MG   | AA    | 1936 | 1/1   | 0.97 | 0.18 | 84,84,84,84                 | 0     |
| 56  | MG   | BA    | 3659 | 1/1   | 0.97 | 0.18 | 60,60,60,60                 | 0     |
| 56  | MG   | BA    | 3222 | 1/1   | 0.97 | 0.37 | 28,28,28,28                 | 0     |
| 56  | MG   | BA    | 3739 | 1/1   | 0.97 | 0.07 | 42,42,42,42                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | AA    | 1606 | 1/1   | 0.97 | 0.27 | 35,35,35,35                | 0     |
| 56  | MG   | BA    | 3671 | 1/1   | 0.97 | 0.06 | 41,41,41,41                | 0     |
| 56  | MG   | BA    | 3566 | 1/1   | 0.97 | 0.05 | 54,54,54,54                | 0     |
| 56  | MG   | BA    | 3569 | 1/1   | 0.97 | 0.24 | 49,49,49,49                | 0     |
| 56  | MG   | BA    | 3840 | 1/1   | 0.97 | 0.06 | 41,41,41,41                | 0     |
| 56  | MG   | BA    | 3263 | 1/1   | 0.97 | 0.16 | 41,41,41,41                | 0     |
| 56  | MG   | BA    | 3679 | 1/1   | 0.97 | 0.05 | 34,34,34,34                | 0     |
| 56  | MG   | DA    | 3633 | 1/1   | 0.97 | 0.26 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3544 | 1/1   | 0.97 | 0.11 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3320 | 1/1   | 0.97 | 0.33 | 58,58,58,58                | 0     |
| 56  | MG   | BA    | 3715 | 1/1   | 0.97 | 0.14 | 21,21,21,21                | 0     |
| 56  | MG   | BA    | 3661 | 1/1   | 0.97 | 0.24 | 53,53,53,53                | 0     |
| 56  | MG   | BA    | 3159 | 1/1   | 0.97 | 0.27 | 43,43,43,43                | 0     |
| 56  | MG   | AA    | 1780 | 1/1   | 0.97 | 0.22 | 55,55,55,55                | 0     |
| 56  | MG   | DA    | 3209 | 1/1   | 0.97 | 0.20 | 89,89,89,89                | 0     |
| 56  | MG   | BA    | 3422 | 1/1   | 0.97 | 0.07 | 82,82,82,82                | 0     |
| 56  | MG   | B8    | 101  | 1/1   | 0.97 | 0.55 | 49,49,49,49                | 0     |
| 56  | MG   | BA    | 3594 | 1/1   | 0.97 | 0.15 | 44,44,44,44                | 0     |
| 56  | MG   | CA    | 1805 | 1/1   | 0.97 | 0.13 | 88,88,88,88                | 0     |
| 56  | MG   | BA    | 3519 | 1/1   | 0.97 | 0.39 | 53,53,53,53                | 0     |
| 57  | ZN   | AN    | 101  | 1/1   | 0.97 | 0.15 | 164,164,164,164            | 0     |
| 56  | MG   | BA    | 3716 | 1/1   | 0.97 | 0.16 | 40,40,40,40                | 0     |
| 56  | MG   | AA    | 1847 | 1/1   | 0.97 | 0.27 | 98,98,98,98                | 0     |
| 56  | MG   | AA    | 1871 | 1/1   | 0.97 | 0.07 | 71,71,71,71                | 0     |
| 56  | MG   | BA    | 3164 | 1/1   | 0.97 | 0.14 | 26,26,26,26                | 0     |
| 56  | MG   | DA    | 3595 | 1/1   | 0.97 | 0.14 | 43,43,43,43                | 0     |
| 56  | MG   | BA    | 3789 | 1/1   | 0.97 | 0.12 | 41,41,41,41                | 0     |
| 56  | MG   | DA    | 3167 | 1/1   | 0.97 | 0.37 | 67,67,67,67                | 0     |
| 56  | MG   | DA    | 3496 | 1/1   | 0.97 | 0.19 | 47,47,47,47                | 0     |
| 56  | MG   | BA    | 3852 | 1/1   | 0.97 | 0.22 | 59,59,59,59                | 0     |
| 56  | MG   | BA    | 3171 | 1/1   | 0.97 | 0.36 | 38,38,38,38                | 0     |
| 56  | MG   | BA    | 3369 | 1/1   | 0.97 | 0.43 | 65,65,65,65                | 0     |
| 56  | MG   | BA    | 3555 | 1/1   | 0.97 | 0.10 | 47,47,47,47                | 0     |
| 56  | MG   | BA    | 3268 | 1/1   | 0.97 | 0.13 | 52,52,52,52                | 0     |
| 56  | MG   | BA    | 3831 | 1/1   | 0.97 | 0.14 | 22,22,22,22                | 0     |
| 56  | MG   | DA    | 3045 | 1/1   | 0.97 | 0.24 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3003 | 1/1   | 0.97 | 0.11 | 59,59,59,59                | 0     |
| 56  | MG   | BA    | 3198 | 1/1   | 0.97 | 0.21 | 17,17,17,17                | 0     |
| 56  | MG   | CA    | 1670 | 1/1   | 0.97 | 0.18 | 69,69,69,69                | 0     |
| 56  | MG   | DA    | 3653 | 1/1   | 0.97 | 0.19 | 59,59,59,59                | 0     |
| 56  | MG   | BA    | 3533 | 1/1   | 0.97 | 0.11 | 61,61,61,61                | 0     |
| 56  | MG   | DD    | 302  | 1/1   | 0.97 | 0.52 | 48,48,48,48                | 0     |

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| <b>Mol</b> | <b>Type</b> | <b>Chain</b> | <b>Res</b> | <b>Atoms</b> | <b>RSCC</b> | <b>RSR</b> | <b>B-factors(Å<sup>2</sup>)</b> | <b>Q&lt;0.9</b> |
|------------|-------------|--------------|------------|--------------|-------------|------------|---------------------------------|-----------------|
| 56         | MG          | BA           | 3653       | 1/1          | 0.97        | 0.17       | 38,38,38,38                     | 0               |
| 56         | MG          | BA           | 3023       | 1/1          | 0.97        | 0.13       | 46,46,46,46                     | 0               |
| 56         | MG          | CA           | 1690       | 1/1          | 0.97        | 0.32       | 74,74,74,74                     | 0               |
| 56         | MG          | AA           | 1860       | 1/1          | 0.97        | 0.11       | 85,85,85,85                     | 0               |
| 56         | MG          | DA           | 3560       | 1/1          | 0.97        | 0.21       | 64,64,64,64                     | 0               |
| 56         | MG          | DA           | 3392       | 1/1          | 0.97        | 0.10       | 42,42,42,42                     | 0               |
| 56         | MG          | BA           | 3093       | 1/1          | 0.97        | 0.12       | 42,42,42,42                     | 0               |
| 56         | MG          | DA           | 3416       | 1/1          | 0.97        | 0.12       | 53,53,53,53                     | 0               |
| 56         | MG          | DA           | 3406       | 1/1          | 0.97        | 0.11       | 48,48,48,48                     | 0               |
| 57         | ZN          | AD           | 301        | 1/1          | 0.97        | 0.29       | 93,93,93,93                     | 0               |
| 56         | MG          | BA           | 3666       | 1/1          | 0.97        | 0.06       | 28,28,28,28                     | 0               |
| 56         | MG          | CA           | 1778       | 1/1          | 0.97        | 0.34       | 81,81,81,81                     | 0               |
| 56         | MG          | BA           | 3574       | 1/1          | 0.97        | 0.17       | 36,36,36,36                     | 0               |
| 56         | MG          | BA           | 3859       | 1/1          | 0.97        | 0.15       | 31,31,31,31                     | 0               |
| 56         | MG          | DA           | 3600       | 1/1          | 0.97        | 0.21       | 57,57,57,57                     | 0               |
| 56         | MG          | DA           | 3680       | 1/1          | 0.97        | 0.09       | 79,79,79,79                     | 0               |
| 56         | MG          | BA           | 3027       | 1/1          | 0.97        | 0.19       | 44,44,44,44                     | 0               |
| 56         | MG          | DA           | 3423       | 1/1          | 0.97        | 0.26       | 45,45,45,45                     | 0               |
| 57         | ZN          | D6           | 101        | 1/1          | 0.97        | 0.09       | 106,106,106,106                 | 0               |
| 56         | MG          | BA           | 3447       | 1/1          | 0.97        | 0.11       | 45,45,45,45                     | 0               |
| 56         | MG          | AA           | 1908       | 1/1          | 0.97        | 0.11       | 97,97,97,97                     | 0               |
| 56         | MG          | DA           | 3635       | 1/1          | 0.97        | 0.17       | 88,88,88,88                     | 0               |
| 56         | MG          | BA           | 3702       | 1/1          | 0.97        | 0.22       | 49,49,49,49                     | 0               |
| 56         | MG          | BA           | 3618       | 1/1          | 0.97        | 0.10       | 46,46,46,46                     | 0               |
| 56         | MG          | DA           | 3593       | 1/1          | 0.97        | 0.07       | 75,75,75,75                     | 0               |
| 56         | MG          | AA           | 1927       | 1/1          | 0.97        | 0.12       | 85,85,85,85                     | 0               |
| 56         | MG          | DA           | 3613       | 1/1          | 0.97        | 0.11       | 60,60,60,60                     | 0               |
| 56         | MG          | CA           | 1616       | 1/1          | 0.97        | 0.67       | 54,54,54,54                     | 0               |
| 56         | MG          | BA           | 3169       | 1/1          | 0.97        | 0.44       | 14,14,14,14                     | 0               |
| 56         | MG          | DA           | 3484       | 1/1          | 0.97        | 0.12       | 45,45,45,45                     | 0               |
| 56         | MG          | DA           | 3632       | 1/1          | 0.97        | 0.31       | 69,69,69,69                     | 0               |
| 56         | MG          | DA           | 3437       | 1/1          | 0.97        | 0.18       | 70,70,70,70                     | 0               |
| 56         | MG          | DA           | 3470       | 1/1          | 0.97        | 0.27       | 73,73,73,73                     | 0               |
| 56         | MG          | CA           | 1643       | 1/1          | 0.97        | 0.40       | 53,53,53,53                     | 0               |
| 56         | MG          | DA           | 3393       | 1/1          | 0.97        | 0.30       | 63,63,63,63                     | 0               |
| 56         | MG          | DA           | 3536       | 1/1          | 0.97        | 0.33       | 54,54,54,54                     | 0               |
| 56         | MG          | BA           | 3065       | 1/1          | 0.97        | 0.12       | 28,28,28,28                     | 0               |
| 56         | MG          | DA           | 3385       | 1/1          | 0.97        | 0.18       | 48,48,48,48                     | 0               |
| 56         | MG          | DA           | 3562       | 1/1          | 0.97        | 0.25       | 69,69,69,69                     | 0               |
| 56         | MG          | BA           | 3270       | 1/1          | 0.97        | 0.39       | 53,53,53,53                     | 0               |
| 56         | MG          | BA           | 3654       | 1/1          | 0.97        | 0.19       | 59,59,59,59                     | 0               |
| 56         | MG          | BA           | 3432       | 1/1          | 0.97        | 0.17       | 29,29,29,29                     | 0               |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3641 | 1/1   | 0.97 | 0.11 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3354 | 1/1   | 0.97 | 0.23 | 43,43,43,43                 | 0     |
| 56  | MG   | BA    | 3753 | 1/1   | 0.97 | 0.26 | 31,31,31,31                 | 0     |
| 56  | MG   | BA    | 3636 | 1/1   | 0.97 | 0.07 | 63,63,63,63                 | 0     |
| 56  | MG   | DA    | 3630 | 1/1   | 0.97 | 0.21 | 47,47,47,47                 | 0     |
| 56  | MG   | BB    | 221  | 1/1   | 0.97 | 0.10 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3589 | 1/1   | 0.97 | 0.07 | 81,81,81,81                 | 0     |
| 56  | MG   | DA    | 3447 | 1/1   | 0.97 | 0.19 | 62,62,62,62                 | 0     |
| 56  | MG   | DA    | 3661 | 1/1   | 0.97 | 0.18 | 61,61,61,61                 | 0     |
| 56  | MG   | AV    | 116  | 1/1   | 0.97 | 0.15 | 84,84,84,84                 | 0     |
| 56  | MG   | AA    | 1862 | 1/1   | 0.97 | 0.08 | 45,45,45,45                 | 0     |
| 56  | MG   | DA    | 3068 | 1/1   | 0.97 | 0.33 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3743 | 1/1   | 0.97 | 0.32 | 71,71,71,71                 | 0     |
| 56  | MG   | AA    | 1652 | 1/1   | 0.97 | 0.28 | 69,69,69,69                 | 0     |
| 56  | MG   | DA    | 3006 | 1/1   | 0.97 | 0.18 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3132 | 1/1   | 0.97 | 0.14 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3245 | 1/1   | 0.97 | 0.14 | 39,39,39,39                 | 0     |
| 56  | MG   | DA    | 3446 | 1/1   | 0.97 | 0.14 | 40,40,40,40                 | 0     |
| 56  | MG   | DA    | 3413 | 1/1   | 0.97 | 0.29 | 40,40,40,40                 | 0     |
| 56  | MG   | AA    | 1631 | 1/1   | 0.97 | 0.31 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3252 | 1/1   | 0.97 | 0.49 | 20,20,20,20                 | 0     |
| 56  | MG   | BA    | 3601 | 1/1   | 0.98 | 0.15 | 24,24,24,24                 | 0     |
| 56  | MG   | BA    | 3664 | 1/1   | 0.98 | 0.14 | 31,31,31,31                 | 0     |
| 56  | MG   | AA    | 1660 | 1/1   | 0.98 | 0.22 | 59,59,59,59                 | 0     |
| 56  | MG   | CA    | 1735 | 1/1   | 0.98 | 0.07 | 78,78,78,78                 | 0     |
| 56  | MG   | BA    | 3765 | 1/1   | 0.98 | 0.07 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3552 | 1/1   | 0.98 | 0.28 | 39,39,39,39                 | 0     |
| 56  | MG   | BA    | 3687 | 1/1   | 0.98 | 0.20 | 23,23,23,23                 | 0     |
| 56  | MG   | B1    | 103  | 1/1   | 0.98 | 0.23 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3138 | 1/1   | 0.98 | 0.20 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3646 | 1/1   | 0.98 | 0.13 | 44,44,44,44                 | 0     |
| 56  | MG   | BA    | 3600 | 1/1   | 0.98 | 0.26 | 36,36,36,36                 | 0     |
| 56  | MG   | BA    | 3546 | 1/1   | 0.98 | 0.07 | 48,48,48,48                 | 0     |
| 57  | ZN   | D5    | 102  | 1/1   | 0.98 | 0.08 | 88,88,88,88                 | 0     |
| 57  | ZN   | BY    | 201  | 1/1   | 0.98 | 0.06 | 70,70,70,70                 | 0     |
| 56  | MG   | DA    | 3599 | 1/1   | 0.98 | 0.26 | 50,50,50,50                 | 0     |
| 56  | MG   | DA    | 3577 | 1/1   | 0.98 | 0.22 | 95,95,95,95                 | 0     |
| 56  | MG   | BA    | 3059 | 1/1   | 0.98 | 0.33 | 25,25,25,25                 | 0     |
| 56  | MG   | DA    | 3534 | 1/1   | 0.98 | 0.12 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3163 | 1/1   | 0.98 | 0.16 | 40,40,40,40                 | 0     |
| 56  | MG   | DA    | 3225 | 1/1   | 0.98 | 0.38 | 43,43,43,43                 | 0     |
| 56  | MG   | DA    | 3494 | 1/1   | 0.98 | 0.20 | 70,70,70,70                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3629 | 1/1   | 0.98 | 0.09 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3498 | 1/1   | 0.98 | 0.08 | 51,51,51,51                 | 0     |
| 56  | MG   | DA    | 3099 | 1/1   | 0.98 | 0.42 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3825 | 1/1   | 0.98 | 0.05 | 37,37,37,37                 | 0     |
| 56  | MG   | DA    | 3477 | 1/1   | 0.98 | 0.09 | 78,78,78,78                 | 0     |
| 56  | MG   | DA    | 3161 | 1/1   | 0.98 | 0.20 | 45,45,45,45                 | 0     |
| 56  | MG   | CA    | 1634 | 1/1   | 0.98 | 0.40 | 63,63,63,63                 | 0     |
| 56  | MG   | BA    | 3116 | 1/1   | 0.98 | 0.29 | 37,37,37,37                 | 0     |
| 56  | MG   | BB    | 223  | 1/1   | 0.98 | 0.18 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3673 | 1/1   | 0.98 | 0.17 | 43,43,43,43                 | 0     |
| 56  | MG   | AA    | 1861 | 1/1   | 0.98 | 0.13 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3862 | 1/1   | 0.98 | 0.10 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3791 | 1/1   | 0.98 | 0.24 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3597 | 1/1   | 0.98 | 0.10 | 57,57,57,57                 | 0     |
| 56  | MG   | BA    | 3590 | 1/1   | 0.98 | 0.07 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3249 | 1/1   | 0.98 | 0.29 | 24,24,24,24                 | 0     |
| 56  | MG   | AA    | 1924 | 1/1   | 0.98 | 0.10 | 80,80,80,80                 | 0     |
| 56  | MG   | BB    | 226  | 1/1   | 0.98 | 0.07 | 61,61,61,61                 | 0     |
| 56  | MG   | DA    | 3409 | 1/1   | 0.98 | 0.07 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3621 | 1/1   | 0.98 | 0.07 | 73,73,73,73                 | 0     |
| 56  | MG   | BA    | 3692 | 1/1   | 0.98 | 0.11 | 30,30,30,30                 | 0     |
| 56  | MG   | DA    | 3420 | 1/1   | 0.98 | 0.10 | 38,38,38,38                 | 0     |
| 56  | MG   | BA    | 3537 | 1/1   | 0.98 | 0.15 | 47,47,47,47                 | 0     |
| 56  | MG   | AA    | 1832 | 1/1   | 0.98 | 0.40 | 75,75,75,75                 | 0     |
| 56  | MG   | BA    | 3131 | 1/1   | 0.98 | 0.16 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3587 | 1/1   | 0.98 | 0.14 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3541 | 1/1   | 0.98 | 0.08 | 35,35,35,35                 | 0     |
| 56  | MG   | DA    | 3449 | 1/1   | 0.98 | 0.27 | 45,45,45,45                 | 0     |
| 56  | MG   | BA    | 3374 | 1/1   | 0.98 | 0.36 | 24,24,24,24                 | 0     |
| 56  | MG   | DA    | 3565 | 1/1   | 0.98 | 0.12 | 50,50,50,50                 | 0     |
| 56  | MG   | AA    | 1841 | 1/1   | 0.98 | 0.10 | 75,75,75,75                 | 0     |
| 56  | MG   | DA    | 3518 | 1/1   | 0.98 | 0.23 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3586 | 1/1   | 0.98 | 0.12 | 52,52,52,52                 | 0     |
| 56  | MG   | AA    | 1946 | 1/1   | 0.98 | 0.11 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3064 | 1/1   | 0.98 | 0.16 | 41,41,41,41                 | 0     |
| 56  | MG   | BA    | 3709 | 1/1   | 0.98 | 0.13 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3602 | 1/1   | 0.98 | 0.19 | 47,47,47,47                 | 0     |
| 56  | MG   | BE    | 302  | 1/1   | 0.98 | 0.54 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3554 | 1/1   | 0.98 | 0.14 | 55,55,55,55                 | 0     |
| 56  | MG   | AA    | 1824 | 1/1   | 0.98 | 0.27 | 33,33,33,33                 | 0     |
| 56  | MG   | BA    | 3685 | 1/1   | 0.98 | 0.07 | 40,40,40,40                 | 0     |
| 56  | MG   | BA    | 3211 | 1/1   | 0.98 | 0.29 | 46,46,46,46                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | BA    | 3726 | 1/1   | 0.98 | 0.35 | 48,48,48,48                | 0     |
| 57  | ZN   | B6    | 101  | 1/1   | 0.98 | 0.11 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3838 | 1/1   | 0.98 | 0.20 | 28,28,28,28                | 0     |
| 56  | MG   | BA    | 3221 | 1/1   | 0.98 | 0.33 | 17,17,17,17                | 0     |
| 56  | MG   | DA    | 3431 | 1/1   | 0.98 | 0.14 | 33,33,33,33                | 0     |
| 56  | MG   | BA    | 3183 | 1/1   | 0.98 | 0.40 | 22,22,22,22                | 0     |
| 56  | MG   | DA    | 3636 | 1/1   | 0.98 | 0.13 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3215 | 1/1   | 0.98 | 0.59 | 46,46,46,46                | 0     |
| 56  | MG   | DA    | 3169 | 1/1   | 0.98 | 0.19 | 51,51,51,51                | 0     |
| 56  | MG   | DA    | 3459 | 1/1   | 0.98 | 0.37 | 46,46,46,46                | 0     |
| 56  | MG   | DA    | 3521 | 1/1   | 0.98 | 0.52 | 60,60,60,60                | 0     |
| 56  | MG   | BA    | 3390 | 1/1   | 0.98 | 0.19 | 28,28,28,28                | 0     |
| 56  | MG   | BA    | 3443 | 1/1   | 0.98 | 0.15 | 41,41,41,41                | 0     |
| 56  | MG   | AA    | 1896 | 1/1   | 0.98 | 0.09 | 88,88,88,88                | 0     |
| 56  | MG   | BA    | 3643 | 1/1   | 0.98 | 0.05 | 54,54,54,54                | 0     |
| 56  | MG   | BA    | 3854 | 1/1   | 0.98 | 0.18 | 25,25,25,25                | 0     |
| 56  | MG   | BA    | 3878 | 1/1   | 0.98 | 0.13 | 81,81,81,81                | 0     |
| 56  | MG   | BA    | 3877 | 1/1   | 0.98 | 0.21 | 21,21,21,21                | 0     |
| 56  | MG   | DA    | 3515 | 1/1   | 0.98 | 0.23 | 51,51,51,51                | 0     |
| 56  | MG   | BA    | 3662 | 1/1   | 0.98 | 0.15 | 30,30,30,30                | 0     |
| 56  | MG   | DA    | 3641 | 1/1   | 0.98 | 0.15 | 50,50,50,50                | 0     |
| 56  | MG   | BA    | 3173 | 1/1   | 0.98 | 0.18 | 31,31,31,31                | 0     |
| 56  | MG   | CA    | 1763 | 1/1   | 0.98 | 0.09 | 62,62,62,62                | 0     |
| 56  | MG   | DA    | 3652 | 1/1   | 0.98 | 0.08 | 85,85,85,85                | 0     |
| 56  | MG   | DA    | 3415 | 1/1   | 0.98 | 0.44 | 33,33,33,33                | 0     |
| 56  | MG   | DA    | 3097 | 1/1   | 0.98 | 0.45 | 31,31,31,31                | 0     |
| 56  | MG   | BA    | 3630 | 1/1   | 0.98 | 0.13 | 23,23,23,23                | 0     |
| 56  | MG   | BA    | 3168 | 1/1   | 0.98 | 0.15 | 27,27,27,27                | 0     |
| 56  | MG   | BA    | 3688 | 1/1   | 0.98 | 0.12 | 25,25,25,25                | 0     |
| 56  | MG   | BA    | 3583 | 1/1   | 0.98 | 0.10 | 22,22,22,22                | 0     |
| 56  | MG   | BA    | 3616 | 1/1   | 0.98 | 0.23 | 40,40,40,40                | 0     |
| 56  | MG   | DA    | 3677 | 1/1   | 0.98 | 0.27 | 51,51,51,51                | 0     |
| 56  | MG   | DA    | 3490 | 1/1   | 0.98 | 0.24 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3145 | 1/1   | 0.98 | 0.26 | 26,26,26,26                | 0     |
| 56  | MG   | BA    | 3126 | 1/1   | 0.98 | 0.45 | 40,40,40,40                | 0     |
| 56  | MG   | BD    | 304  | 1/1   | 0.98 | 0.42 | 20,20,20,20                | 0     |
| 56  | MG   | BA    | 3705 | 1/1   | 0.98 | 0.25 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3689 | 1/1   | 0.98 | 0.09 | 25,25,25,25                | 0     |
| 56  | MG   | BB    | 229  | 1/1   | 0.98 | 0.04 | 67,67,67,67                | 0     |
| 56  | MG   | BA    | 3846 | 1/1   | 0.98 | 0.18 | 27,27,27,27                | 0     |
| 56  | MG   | CA    | 1779 | 1/1   | 0.98 | 0.18 | 95,95,95,95                | 0     |
| 56  | MG   | DA    | 3410 | 1/1   | 0.98 | 0.24 | 55,55,55,55                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 56  | MG   | DA    | 3572 | 1/1   | 0.98 | 0.26 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3720 | 1/1   | 0.98 | 0.17 | 22,22,22,22                | 0     |
| 56  | MG   | DO    | 203  | 1/1   | 0.98 | 0.18 | 79,79,79,79                | 0     |
| 56  | MG   | BA    | 3660 | 1/1   | 0.98 | 0.08 | 28,28,28,28                | 0     |
| 56  | MG   | DA    | 3402 | 1/1   | 0.98 | 0.11 | 38,38,38,38                | 0     |
| 57  | ZN   | B5    | 104  | 1/1   | 0.98 | 0.09 | 75,75,75,75                | 0     |
| 56  | MG   | DA    | 3054 | 1/1   | 0.98 | 0.29 | 78,78,78,78                | 0     |
| 56  | MG   | DA    | 3014 | 1/1   | 0.98 | 0.21 | 38,38,38,38                | 0     |
| 56  | MG   | BA    | 3606 | 1/1   | 0.98 | 0.09 | 63,63,63,63                | 0     |
| 56  | MG   | AV    | 101  | 1/1   | 0.98 | 0.34 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3833 | 1/1   | 0.98 | 0.12 | 41,41,41,41                | 0     |
| 56  | MG   | AA    | 1858 | 1/1   | 0.98 | 0.04 | 90,90,90,90                | 0     |
| 56  | MG   | DA    | 3130 | 1/1   | 0.98 | 0.09 | 52,52,52,52                | 0     |
| 56  | MG   | DA    | 3650 | 1/1   | 0.98 | 0.16 | 43,43,43,43                | 0     |
| 56  | MG   | BA    | 3677 | 1/1   | 0.98 | 0.20 | 29,29,29,29                | 0     |
| 56  | MG   | BA    | 3604 | 1/1   | 0.98 | 0.06 | 80,80,80,80                | 0     |
| 56  | MG   | BQ    | 203  | 1/1   | 0.98 | 0.24 | 62,62,62,62                | 0     |
| 56  | MG   | BA    | 3738 | 1/1   | 0.98 | 0.36 | 42,42,42,42                | 0     |
| 56  | MG   | BA    | 3729 | 1/1   | 0.98 | 0.09 | 59,59,59,59                | 0     |
| 56  | MG   | BA    | 3752 | 1/1   | 0.98 | 0.23 | 28,28,28,28                | 0     |
| 56  | MG   | BA    | 3585 | 1/1   | 0.98 | 0.06 | 35,35,35,35                | 0     |
| 56  | MG   | AA    | 1835 | 1/1   | 0.98 | 0.08 | 88,88,88,88                | 0     |
| 56  | MG   | BA    | 3682 | 1/1   | 0.98 | 0.20 | 28,28,28,28                | 0     |
| 56  | MG   | B0    | 105  | 1/1   | 0.98 | 0.15 | 76,76,76,76                | 0     |
| 56  | MG   | DA    | 3427 | 1/1   | 0.98 | 0.29 | 45,45,45,45                | 0     |
| 56  | MG   | BA    | 3701 | 1/1   | 0.98 | 0.13 | 26,26,26,26                | 0     |
| 56  | MG   | BA    | 3691 | 1/1   | 0.98 | 0.10 | 31,31,31,31                | 0     |
| 56  | MG   | BA    | 3887 | 1/1   | 0.98 | 0.27 | 17,17,17,17                | 0     |
| 56  | MG   | AA    | 1935 | 1/1   | 0.98 | 0.18 | 56,56,56,56                | 0     |
| 56  | MG   | DA    | 3140 | 1/1   | 0.98 | 0.52 | 44,44,44,44                | 0     |
| 56  | MG   | BA    | 3101 | 1/1   | 0.98 | 0.35 | 26,26,26,26                | 0     |
| 56  | MG   | BB    | 225  | 1/1   | 0.98 | 0.14 | 56,56,56,56                | 0     |
| 56  | MG   | DA    | 3436 | 1/1   | 0.98 | 0.29 | 50,50,50,50                | 0     |
| 56  | MG   | DA    | 3455 | 1/1   | 0.98 | 0.13 | 61,61,61,61                | 0     |
| 56  | MG   | AA    | 1644 | 1/1   | 0.98 | 0.28 | 48,48,48,48                | 0     |
| 56  | MG   | DA    | 3127 | 1/1   | 0.98 | 0.29 | 37,37,37,37                | 0     |
| 56  | MG   | BA    | 3097 | 1/1   | 0.98 | 0.15 | 34,34,34,34                | 0     |
| 56  | MG   | BA    | 3699 | 1/1   | 0.98 | 0.14 | 38,38,38,38                | 0     |
| 56  | MG   | BA    | 3710 | 1/1   | 0.98 | 0.17 | 58,58,58,58                | 0     |
| 56  | MG   | DA    | 3638 | 1/1   | 0.98 | 0.12 | 48,48,48,48                | 0     |
| 56  | MG   | BA    | 3817 | 1/1   | 0.98 | 0.18 | 22,22,22,22                | 0     |
| 56  | MG   | AA    | 1839 | 1/1   | 0.98 | 0.06 | 69,69,69,69                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | BA    | 3547 | 1/1   | 0.98 | 0.04 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3534 | 1/1   | 0.99 | 0.06 | 44,44,44,44                 | 0     |
| 56  | MG   | BB    | 205  | 1/1   | 0.99 | 0.13 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3387 | 1/1   | 0.99 | 0.16 | 40,40,40,40                 | 0     |
| 56  | MG   | B0    | 104  | 1/1   | 0.99 | 0.18 | 58,58,58,58                 | 0     |
| 57  | ZN   | B9    | 101  | 1/1   | 0.99 | 0.08 | 51,51,51,51                 | 0     |
| 56  | MG   | BA    | 3712 | 1/1   | 0.99 | 0.21 | 48,48,48,48                 | 0     |
| 56  | MG   | BA    | 3667 | 1/1   | 0.99 | 0.10 | 27,27,27,27                 | 0     |
| 56  | MG   | B8    | 102  | 1/1   | 0.99 | 0.14 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3686 | 1/1   | 0.99 | 0.23 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3473 | 1/1   | 0.99 | 0.33 | 22,22,22,22                 | 0     |
| 56  | MG   | DA    | 3543 | 1/1   | 0.99 | 0.05 | 74,74,74,74                 | 0     |
| 56  | MG   | BA    | 3678 | 1/1   | 0.99 | 0.14 | 22,22,22,22                 | 0     |
| 56  | MG   | DA    | 3417 | 1/1   | 0.99 | 0.38 | 46,46,46,46                 | 0     |
| 56  | MG   | BA    | 3551 | 1/1   | 0.99 | 0.03 | 68,68,68,68                 | 0     |
| 56  | MG   | DA    | 3550 | 1/1   | 0.99 | 0.42 | 42,42,42,42                 | 0     |
| 56  | MG   | BA    | 3747 | 1/1   | 0.99 | 0.15 | 20,20,20,20                 | 0     |
| 56  | MG   | BA    | 3711 | 1/1   | 0.99 | 0.16 | 24,24,24,24                 | 0     |
| 56  | MG   | BA    | 3565 | 1/1   | 0.99 | 0.13 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3559 | 1/1   | 0.99 | 0.09 | 53,53,53,53                 | 0     |
| 56  | MG   | DA    | 3389 | 1/1   | 0.99 | 0.09 | 66,66,66,66                 | 0     |
| 56  | MG   | CA    | 1794 | 1/1   | 0.99 | 0.13 | 59,59,59,59                 | 0     |
| 56  | MG   | BA    | 3695 | 1/1   | 0.99 | 0.07 | 29,29,29,29                 | 0     |
| 56  | MG   | DA    | 3506 | 1/1   | 0.99 | 0.15 | 66,66,66,66                 | 0     |
| 56  | MG   | CA    | 1758 | 1/1   | 0.99 | 0.21 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3549 | 1/1   | 0.99 | 0.24 | 19,19,19,19                 | 0     |
| 56  | MG   | BA    | 3617 | 1/1   | 0.99 | 0.07 | 58,58,58,58                 | 0     |
| 56  | MG   | DA    | 3531 | 1/1   | 0.99 | 0.23 | 66,66,66,66                 | 0     |
| 56  | MG   | AA    | 1869 | 1/1   | 0.99 | 0.30 | 81,81,81,81                 | 0     |
| 56  | MG   | BA    | 3610 | 1/1   | 0.99 | 0.10 | 41,41,41,41                 | 0     |
| 56  | MG   | BR    | 201  | 1/1   | 0.99 | 0.24 | 19,19,19,19                 | 0     |
| 56  | MG   | DA    | 3512 | 1/1   | 0.99 | 0.32 | 49,49,49,49                 | 0     |
| 56  | MG   | BA    | 3845 | 1/1   | 0.99 | 0.14 | 37,37,37,37                 | 0     |
| 56  | MG   | DA    | 3404 | 1/1   | 0.99 | 0.11 | 56,56,56,56                 | 0     |
| 56  | MG   | BA    | 3876 | 1/1   | 0.99 | 0.10 | 54,54,54,54                 | 0     |
| 56  | MG   | BA    | 3550 | 1/1   | 0.99 | 0.26 | 27,27,27,27                 | 0     |
| 56  | MG   | BA    | 3631 | 1/1   | 0.99 | 0.08 | 25,25,25,25                 | 0     |
| 56  | MG   | DA    | 3486 | 1/1   | 0.99 | 0.24 | 42,42,42,42                 | 0     |
| 56  | MG   | DA    | 3561 | 1/1   | 0.99 | 0.17 | 70,70,70,70                 | 0     |
| 56  | MG   | BA    | 3434 | 1/1   | 0.99 | 0.48 | 22,22,22,22                 | 0     |
| 56  | MG   | BA    | 3669 | 1/1   | 0.99 | 0.10 | 34,34,34,34                 | 0     |
| 56  | MG   | BA    | 3347 | 1/1   | 0.99 | 0.47 | 20,20,20,20                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 56  | MG   | AA    | 1604 | 1/1   | 0.99 | 0.22 | 42,42,42,42                 | 0     |
| 56  | MG   | DA    | 3422 | 1/1   | 0.99 | 0.10 | 47,47,47,47                 | 0     |
| 56  | MG   | BA    | 3247 | 1/1   | 0.99 | 0.19 | 20,20,20,20                 | 0     |
| 56  | MG   | DA    | 3553 | 1/1   | 0.99 | 0.22 | 46,46,46,46                 | 0     |
| 56  | MG   | DA    | 3407 | 1/1   | 0.99 | 0.11 | 44,44,44,44                 | 0     |
| 56  | MG   | DA    | 3517 | 1/1   | 0.99 | 0.17 | 64,64,64,64                 | 0     |
| 56  | MG   | DA    | 3458 | 1/1   | 0.99 | 0.12 | 49,49,49,49                 | 0     |
| 56  | MG   | DA    | 3540 | 1/1   | 0.99 | 0.26 | 57,57,57,57                 | 0     |
| 56  | MG   | DA    | 3440 | 1/1   | 0.99 | 0.06 | 47,47,47,47                 | 0     |
| 56  | MG   | AA    | 1628 | 1/1   | 0.99 | 0.28 | 22,22,22,22                 | 0     |
| 56  | MG   | AA    | 1845 | 1/1   | 0.99 | 0.56 | 59,59,59,59                 | 0     |
| 56  | MG   | DA    | 3408 | 1/1   | 0.99 | 0.08 | 71,71,71,71                 | 0     |
| 56  | MG   | BA    | 3755 | 1/1   | 1.00 | 0.10 | 40,40,40,40                 | 0     |

## 6.5 Other polymers [i](#)

There are no such residues in this entry.