



# wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 8, 2024 – 03:35 pm GMT

PDB ID : 5TBW  
Title : Crystal structure of chlorolissoclimide bound to the yeast 80S ribosome  
Authors : Konst, Z.A.; Szklarski, A.R.; Pellegrino, S.; Michalak, S.E.; Meyer, M.; Zanette, C.; Cencic, R.; Nam, S.; Horne, D.A.; Pelletier, J.; Mobley, D.L.; Yusupova, G.; Yusupov, M.; Vanderwal, C.D.  
Deposited on : 2016-09-13  
Resolution : 3.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
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) : 2.36

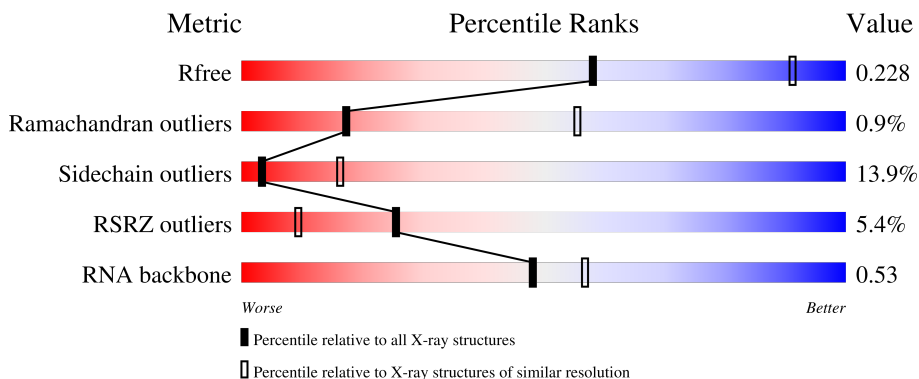
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

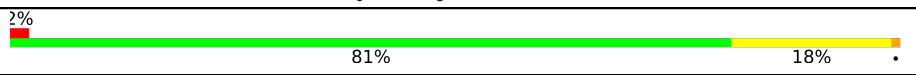
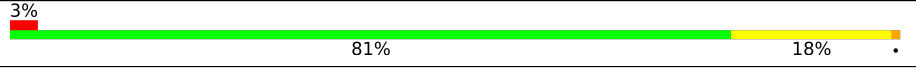
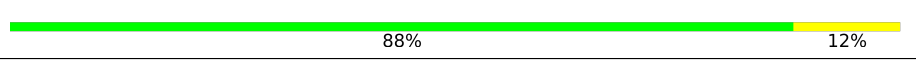

The reported resolution of this entry is 3.00 Å.

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





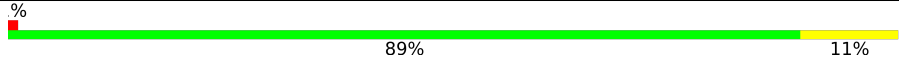

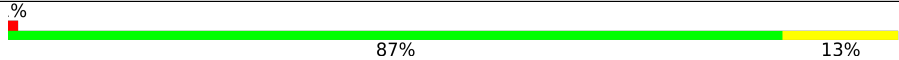
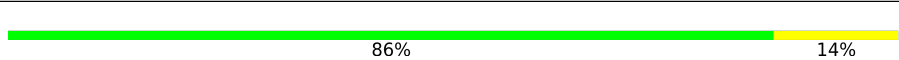
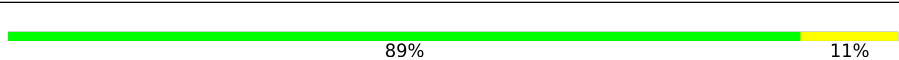
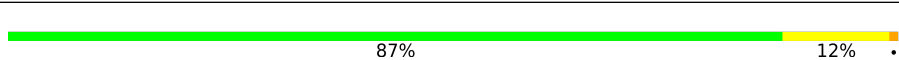
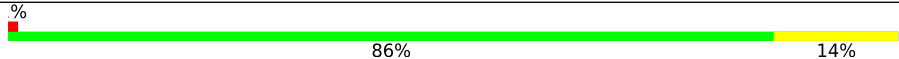
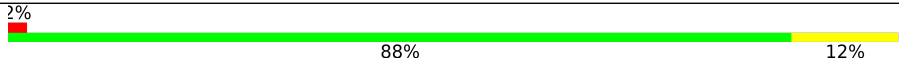
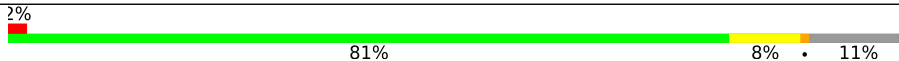
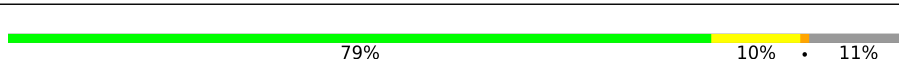
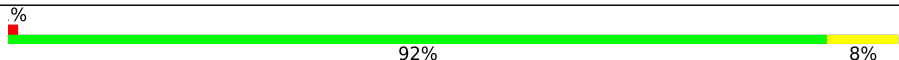
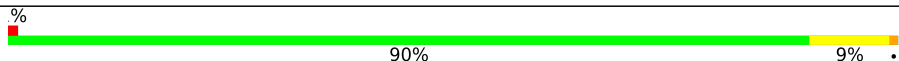
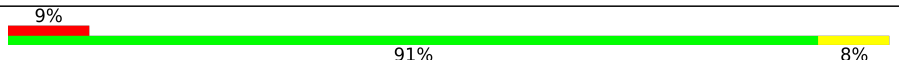
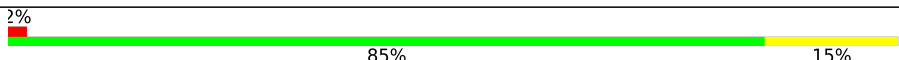
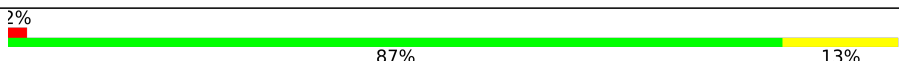
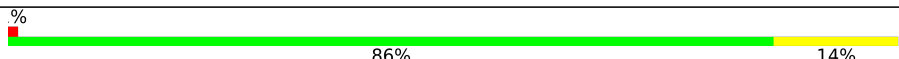
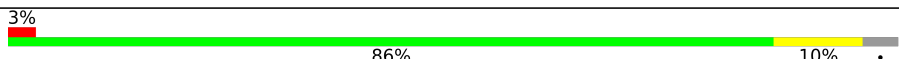

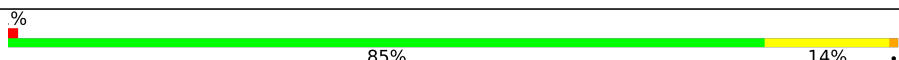
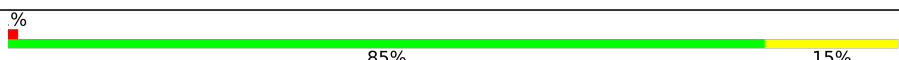
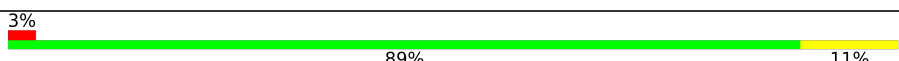
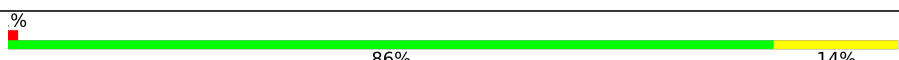
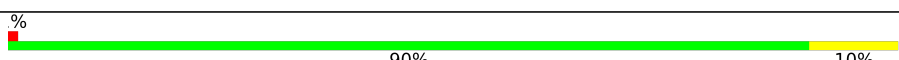
| Metric                | Whole archive<br>(#Entries) | Similar resolution<br>(#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| $R_{free}$            | 130704                      | 2092 (3.00-3.00)                                      |
| Ramachandran outliers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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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   | 1     | 3149   | <br>2% 81% 18% |
| 1   | AR    | 3149   | <br>3% 81% 18% |
| 2   | 3     | 121    | <br>88% 12%    |
| 2   | AS    | 121    | <br>88% 12%    |


























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| Mol | Chain | Length | Quality of chain  |
|-----|-------|--------|---|
| 3   | 4     | 158    |  79% 21%      |
| 3   | AT    | 158    |  81% 18%      |
| 4   | CD    | 252    |  89% 11%      |
| 4   | j     | 252    |  88% 11%      |
| 5   | CE    | 386    |  87% 13%      |
| 5   | k     | 386    |  86% 14%      |
| 6   | CF    | 361    |  89% 11%      |
| 6   | l     | 361    |  87% 12%      |
| 7   | CG    | 296    |  86% 14%      |
| 7   | m     | 296    |  88% 12%      |
| 8   | CH    | 175    |  81% 8% 11%   |
| 8   | n     | 175    |  79% 10% 11% |
| 9   | CI    | 222    |  92% 8%     |
| 9   | o     | 222    |  90% 9%     |
| 10  | CJ    | 233    |  91% 8%     |
| 10  | p     | 233    |  85% 15%    |
| 11  | CK    | 191    |  87% 13%    |
| 11  | q     | 191    |  86% 14%    |
| 12  | CL    | 220    |  86% 10%    |
| 12  | r     | 220    |  84% 12%    |
| 13  | CM    | 169    |  85% 14%    |
| 13  | s     | 169    |  85% 15%    |
| 14  | CN    | 193    |  89% 11%    |
| 14  | t     | 193    |  86% 14%    |
| 15  | CO    | 136    |  90% 10%    |

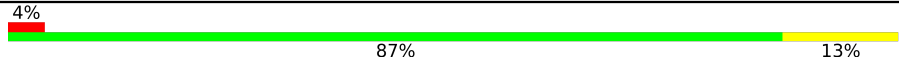
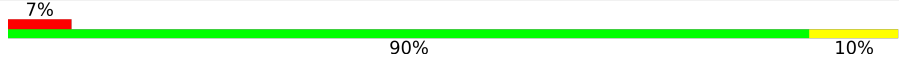
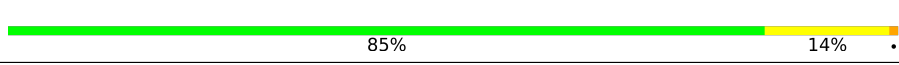

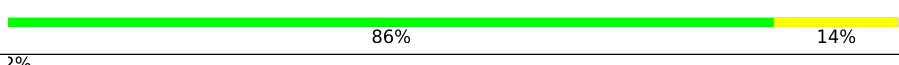
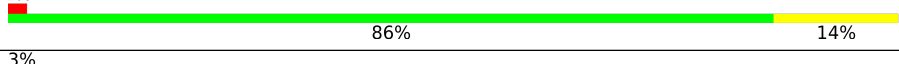
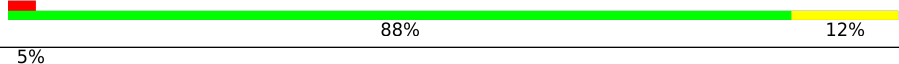
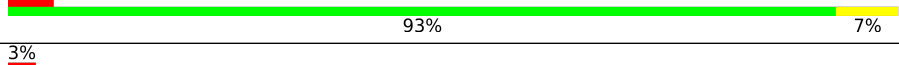
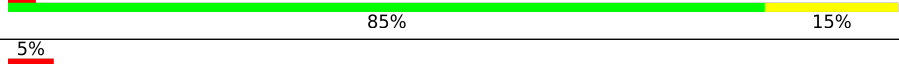

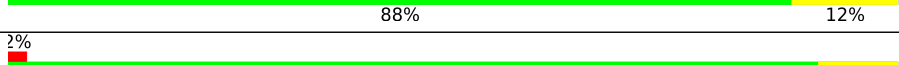
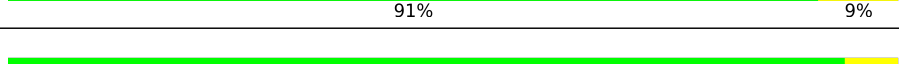
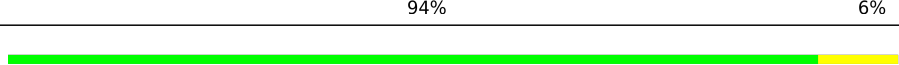
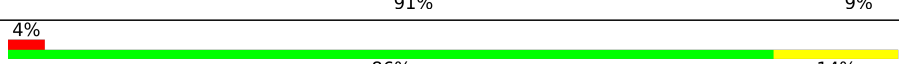
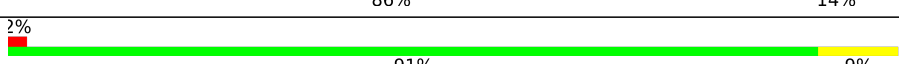
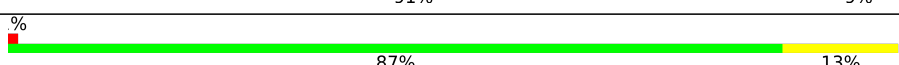
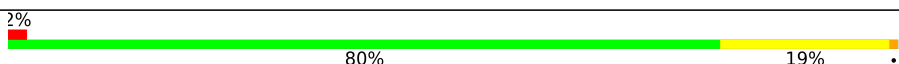
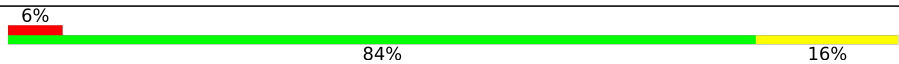
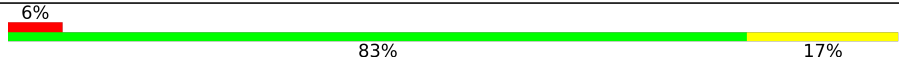
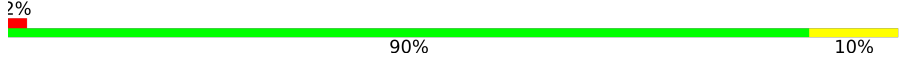

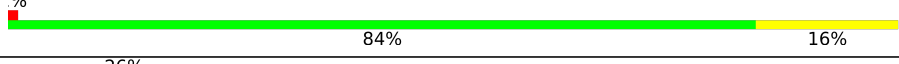
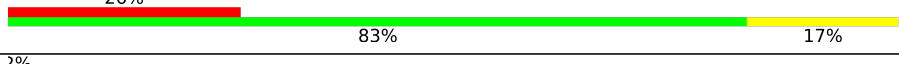


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| Mol | Chain | Length | Quality of chain   |
|-----|-------|--------|--|
| 15  | u     | 136    |  88% 11%       |
| 16  | CP    | 203    |  89% 11%       |
| 16  | v     | 203    |  89% 11%       |
| 17  | CQ    | 197    |  2% 89% 11%    |
| 17  | w     | 197    |  90% 9%        |
| 18  | CR    | 183    |  16% 86% 14%   |
| 18  | x     | 183    |  8% 90% 10%    |
| 19  | CS    | 185    |  85% 15%       |
| 19  | y     | 185    |  86% 14%       |
| 20  | CT    | 188    |  6% 85% 15%    |
| 20  | z     | 188    |  7% 91% 9%     |
| 21  | 0     | 172    |  85% 15%      |
| 21  | CU    | 172    |  85% 15%     |
| 22  | 2     | 159    |  82% 18%     |
| 22  | CV    | 159    |  84% 14%     |
| 23  | 5     | 100    |  11% 89% 11% |
| 23  | CW    | 100    |  19% 88% 12% |
| 24  | 6     | 136    |  88% 12%     |
| 24  | CX    | 136    |  2% 90% 10%  |
| 25  | 7     | 98     |  33% 93% 7%  |
| 25  | CY    | 98     |  17% 91% 9%  |
| 26  | 8     | 121    |  86% 14%     |
| 26  | CZ    | 121    |  2% 85% 14%  |
| 27  | 9     | 126    |  84% 15%     |
| 27  | DA    | 126    |  2% 87% 13%  |

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| Mol | Chain | Length | Quality of chain   |
|-----|-------|--------|--|
| 28  | AA    | 135    |  4% 87% 13%    |
| 28  | DB    | 135    |  7% 90% 10%    |
| 29  | AB    | 148    |  85% 14%       |
| 29  | DC    | 148    |  87% 13%       |
| 30  | AC    | 58     |  86% 14%       |
| 30  | DD    | 58     |  2% 86% 14%    |
| 31  | AD    | 97     |  3% 88% 12%    |
| 31  | DE    | 97     |  5% 93% 7%     |
| 32  | AE    | 109    |  3% 85% 15%    |
| 32  | DF    | 109    |  5% 82% 17%    |
| 33  | AF    | 127    |  2% 88% 12%    |
| 33  | DG    | 127    |  2% 91% 9%    |
| 34  | AG    | 106    |  94% 6%      |
| 34  | DH    | 106    |  91% 9%      |
| 35  | AH    | 112    |  4% 86% 14%  |
| 35  | DI    | 112    |  2% 91% 9%   |
| 36  | AI    | 119    |  87% 13%     |
| 36  | DJ    | 119    |  2% 80% 19%  |
| 37  | AJ    | 99     |  6% 84% 16%  |
| 37  | DK    | 99     |  6% 83% 17%  |
| 38  | AK    | 87     |  2% 90% 10%  |
| 38  | DL    | 87     |  2% 87% 13%  |
| 39  | AL    | 77     |  84% 16%     |
| 39  | DM    | 77     |  26% 83% 17% |
| 40  | AM    | 50     |  2% 86% 14%  |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 40  | DN    | 50     | 90% 10%          |
| 41  | AN    | 52     | 2% 83% 17%       |
| 41  | DO    | 52     | 87% 13%          |
| 42  | AO    | 25     | 84% 16%          |
| 42  | DP    | 25     | 84% 16%          |
| 43  | AP    | 105    | 2% 90% 10%       |
| 43  | DQ    | 105    | 84% 16%          |
| 44  | AQ    | 91     | 85% 15%          |
| 44  | DR    | 91     | 90% 10%          |
| 45  | i     | 168    | 15% 83% 11% 5%   |
| 46  | p0    | 219    | 17% 57% 9% 35%   |
| 47  | sM    | 104    | 12% 93% 6%       |
| 48  | A     | 1800   | 5% 75% 23% ..    |
| 48  | sR    | 1800   | 5% 77% 21% ..    |
| 49  | B     | 206    | 12% 92% 8%       |
| 49  | s0    | 206    | 7% 86% 14%       |
| 50  | C     | 216    | 20% 84% 15% .    |
| 50  | s1    | 216    | 6% 87% 12%       |
| 51  | D     | 217    | 2% 83% 16% .     |
| 51  | s2    | 217    | 3% 84% 16%       |
| 52  | E     | 223    | 6% 88% 11% .     |
| 52  | s3    | 223    | 4% 90% 10%       |
| 53  | F     | 260    | 3% 88% 12%       |
| 53  | s4    | 260    | 2% 88% 12%       |
| 54  | G     | 206    | 15% 91% 9%       |

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| Mol | Chain | Length | Quality of chain        |
|-----|-------|--------|-------------------------|
| 54  | s5    | 206    | 13%<br>88%<br>12%       |
| 55  | H     | 226    | 8%<br>86%<br>13%        |
| 55  | s6    | 226    | 6%<br>85%<br>11% .      |
| 56  | I     | 186    | 13%<br>84%<br>14% ..    |
| 56  | s7    | 186    | 13%<br>90%<br>10% .     |
| 57  | J     | 199    | 3%<br>86%<br>7% . 6%    |
| 57  | s8    | 199    | 5%<br>86%<br>8% . 6%    |
| 58  | K     | 185    | 11%<br>84%<br>16%       |
| 58  | s9    | 185    | 5%<br>89%<br>11%        |
| 59  | L     | 105    | %<br>84%<br>7% . 9%     |
| 59  | c0    | 105    | 23%<br>79%<br>10% . 9%  |
| 60  | M     | 155    | 12%<br>85%<br>15%       |
| 60  | c1    | 155    | 6%<br>81%<br>12% . 6%   |
| 61  | N     | 143    | 35%<br>71%<br>15% . 13% |
| 61  | c2    | 143    | 54%<br>69%<br>17% . 13% |
| 62  | O     | 150    | 3%<br>85%<br>15%        |
| 62  | c3    | 150    | 87%<br>12% .            |
| 63  | P     | 128    | 24%<br>88%<br>12% .     |
| 63  | c4    | 128    | 9%<br>87%<br>13%        |
| 64  | Q     | 135    | 4%<br>79%<br>13% . 8%   |
| 64  | c5    | 135    | 12%<br>88%<br>11% .     |
| 65  | R     | 142    | 13%<br>84%<br>14% ..    |
| 65  | c6    | 142    | 9%<br>87%<br>13%        |
| 66  | S     | 125    | 9%<br>78%<br>16% .. .   |
| 67  | T     | 145    | 10%<br>81%<br>17% .     |

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| Mol | Chain | Length | Quality of chain  |
|-----|-------|--------|-------------------|
| 67  | c8    | 145    | 9%<br>86%<br>14%  |
| 68  | U     | 143    | 7%<br>85%<br>15%  |
| 68  | c9    | 143    | 8%<br>92%<br>6%   |
| 69  | V     | 110    | 22%<br>82%<br>15% |
| 69  | d0    | 110    | 25%<br>87%<br>12% |
| 70  | W     | 87     | 8%<br>84%<br>16%  |
| 70  | d1    | 87     | 6%<br>86%<br>14%  |
| 71  | X     | 129    | %<br>84%<br>15%   |
| 71  | d2    | 129    | 91%<br>8%         |
| 72  | Y     | 144    | 86%<br>14%        |
| 72  | d3    | 144    | %<br>91%<br>9%    |
| 73  | Z     | 134    | 5%<br>89%<br>10%  |
| 73  | d4    | 134    | 4%<br>91%<br>8%   |
| 74  | a     | 70     | 33%<br>71%<br>27% |
| 74  | d5    | 70     | 31%<br>91%<br>7%  |
| 75  | b     | 97     | 15%<br>86%<br>14% |
| 75  | d6    | 97     | 2%<br>92%<br>8%   |
| 76  | c     | 81     | 12%<br>90%<br>10% |
| 76  | d7    | 81     | 15%<br>89%<br>11% |
| 77  | d     | 63     | 17%<br>89%<br>11% |
| 77  | d8    | 63     | 32%<br>90%<br>10% |
| 78  | d9    | 53     | 4%<br>81%<br>17%  |
| 78  | e     | 53     | 2%<br>85%<br>15%  |
| 79  | e0    | 62     | 10%<br>84%<br>16% |
| 79  | f     | 62     | 13%<br>82%<br>15% |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 80  | g     | 71     |                  |
| 81  | Rb    | 318    |                  |
| 81  | h     | 318    |                  |
| 82  | c7    | 121    |                  |
| 83  | e1    | 51     |                  |

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 |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 84  | OHX  | 1     | 3673 | -         | -        | -       | X                |
| 84  | OHX  | 1     | 3718 | -         | -        | -       | X                |
| 84  | OHX  | A     | 2039 | -         | -        | -       | X                |
| 84  | OHX  | AR    | 3740 | -         | -        | -       | X                |
| 84  | OHX  | sR    | 2040 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3772 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3787 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3790 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3802 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3822 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3834 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3866 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3878 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3913 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3985 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3988 | -         | -        | -       | X                |
| 85  | MG   | 1     | 3994 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4001 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4003 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4032 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4104 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4108 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4116 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4155 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4162 | -         | -        | -       | X                |
| 85  | MG   | 1     | 4194 | -         | -        | -       | X                |
| 85  | MG   | 3     | 210  | -         | -        | -       | X                |
| 85  | MG   | 3     | 216  | -         | -        | -       | X                |

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| Mol | Type | Chain | Res  | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 85  | MG   | A     | 2068 | -         | -        | -       | X                |
| 85  | MG   | A     | 2102 | -         | -        | -       | X                |
| 85  | MG   | A     | 2104 | -         | -        | -       | X                |
| 85  | MG   | A     | 2113 | -         | -        | -       | X                |
| 85  | MG   | A     | 2119 | -         | -        | -       | X                |
| 85  | MG   | A     | 2134 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3803 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3834 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3966 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3972 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3974 | -         | -        | -       | X                |
| 85  | MG   | AR    | 3989 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4038 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4055 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4085 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4091 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4102 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4113 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4126 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4138 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4156 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4157 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4169 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4171 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4186 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4227 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4233 | -         | -        | -       | X                |
| 85  | MG   | AR    | 4236 | -         | -        | -       | X                |
| 85  | MG   | AT    | 221  | -         | -        | -       | X                |
| 85  | MG   | AT    | 225  | -         | -        | -       | X                |
| 85  | MG   | l     | 403  | -         | -        | -       | X                |
| 85  | MG   | l     | 404  | -         | -        | -       | X                |
| 85  | MG   | l     | 406  | -         | -        | -       | X                |
| 85  | MG   | sR    | 2066 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2082 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2157 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2159 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2185 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2187 | -         | -        | -       | X                |
| 85  | MG   | sR    | 2188 | -         | -        | -       | X                |
| 85  | MG   | x     | 206  | -         | -        | -       | X                |

## 2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 409612 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 25S ribosomal RNA.

| Mol | Chain | Residues | Atoms |       |       |       |      | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|-------|-------|------|---------|---------|-------|
|     |       |          | Total | C     | N     | O     | P    |         |         |       |
| 1   | 1     | 3149     | 67355 | 30086 | 12142 | 21978 | 3149 | 0       | 0       | 0     |
| 1   | AR    | 3149     | 67355 | 30086 | 12142 | 21978 | 3149 | 0       | 0       | 0     |

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

| Mol | Chain | Residues | Atoms |      |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | P   |         |         |       |
| 2   | 3     | 121      | 2579  | 1152 | 461 | 845 | 121 | 0       | 0       | 0     |
| 2   | AS    | 121      | 2579  | 1152 | 461 | 845 | 121 | 0       | 0       | 0     |

- Molecule 3 is a RNA chain called 5.8S ribosomal RNA.

| Mol | Chain | Residues | Atoms |      |     |      |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|------|-----|---------|---------|-------|
|     |       |          | Total | C    | N   | O    | P   |         |         |       |
| 3   | 4     | 158      | 3353  | 1500 | 586 | 1109 | 158 | 0       | 0       | 0     |
| 3   | AT    | 158      | 3353  | 1500 | 586 | 1109 | 158 | 0       | 0       | 0     |

- Molecule 4 is a protein called 60S ribosomal protein L2-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 4   | j     | 252      | 1914  | 1191 | 388 | 334 | 1 | 0       | 0       | 0     |
| 4   | CD    | 252      | 1914  | 1191 | 388 | 334 | 1 | 0       | 0       | 0     |

- Molecule 5 is a protein called 60S ribosomal protein L3.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 5   | k     | 386      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 3075  | 1950 | 584 | 533 | 8 |         |         |       |
| 5   | CE    | 386      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 3075  | 1950 | 584 | 533 | 8 |         |         |       |

- Molecule 6 is a protein called 60S ribosomal protein L4-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 6   | l     | 361      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2748  | 1729 | 522 | 494 | 3 |         |         |       |
| 6   | CF    | 361      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2748  | 1729 | 522 | 494 | 3 |         |         |       |

- Molecule 7 is a protein called 60S ribosomal protein L5.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 7   | m     | 296      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2375  | 1501 | 414 | 458 | 2 |         |         |       |
| 7   | CG    | 296      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2375  | 1501 | 414 | 458 | 2 |         |         |       |

- Molecule 8 is a protein called 60S ribosomal protein L6-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 8   | n     | 156      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1239  | 800 | 222 | 216 | 1 |         |         |       |
| 8   | CH    | 156      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1239  | 800 | 222 | 216 | 1 |         |         |       |

- Molecule 9 is a protein called 60S ribosomal protein L7-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 9   | o     | 222      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1784  | 1151 | 324 | 308 | 1 |         |         |       |
| 9   | CI    | 222      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1784  | 1151 | 324 | 308 | 1 |         |         |       |

- Molecule 10 is a protein called 60S ribosomal protein L8-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 10  | p     | 233      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1804  | 1151 | 323 | 327 | 3 |         |         |       |

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| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 10  | CJ    | 233      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1804  | 1151 | 323 | 327 | 3 |         |         |       |

- Molecule 11 is a protein called 60S ribosomal protein L9-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 11  | q     | 191      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1518  | 963 | 274 | 277 | 4 |         |         |       |
| 11  | CK    | 191      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1518  | 963 | 274 | 277 | 4 |         |         |       |

- Molecule 12 is a protein called 60S ribosomal protein L10.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 12  | r     | 211      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1705  | 1083 | 322 | 294 | 6 |         |         |       |
| 12  | CL    | 211      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1705  | 1083 | 322 | 294 | 6 |         |         |       |

- Molecule 13 is a protein called 60S ribosomal protein L11-B.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 13  | s     | 169      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1353  | 847 | 253 | 249 | 4 |         |         |       |
| 13  | CM    | 169      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1353  | 847 | 253 | 249 | 4 |         |         |       |

- Molecule 14 is a protein called 60S ribosomal protein L13-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 14  | t     | 193      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1543  | 962 | 315 | 266 |         |         |       |
| 14  | CN    | 193      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1543  | 962 | 315 | 266 |         |         |       |

- Molecule 15 is a protein called 60S ribosomal protein L14-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 15  | u     | 136      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1053  | 675 | 199 | 177 | 2 |         |         |       |
| 15  | CO    | 136      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1053  | 675 | 199 | 177 | 2 |         |         |       |

- Molecule 16 is a protein called 60S ribosomal protein L15-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 16  | v     | 203      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1720  | 1077 | 361 | 281 | 1 |         |         |       |
| 16  | CP    | 203      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1720  | 1077 | 361 | 281 | 1 |         |         |       |

- Molecule 17 is a protein called 60S ribosomal protein L16-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 17  | w     | 197      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1555  | 1003 | 289 | 262 | 1 |         |         |       |
| 17  | CQ    | 197      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1555  | 1003 | 289 | 262 | 1 |         |         |       |

- Molecule 18 is a protein called 60S ribosomal protein L17-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 18  | x     | 183      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1420  | 882 | 281 | 257 |         |         |       |
| 18  | CR    | 183      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1420  | 882 | 281 | 257 |         |         |       |

- Molecule 19 is a protein called 60S ribosomal protein L18-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 19  | y     | 185      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1441  | 908 | 290 | 241 | 2 |         |         |       |
| 19  | CS    | 185      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1441  | 908 | 290 | 241 | 2 |         |         |       |

- Molecule 20 is a protein called 60S ribosomal protein L19-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 20  | z     | 188      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1521  | 935 | 326 | 260 |         |         |       |
| 20  | CT    | 188      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1521  | 935 | 326 | 260 |         |         |       |

- Molecule 21 is a protein called 60S ribosomal protein L20-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 21  | 0     | 172      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1445  | 930 | 267 | 244 | 4 |         |         |       |
| 21  | CU    | 172      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1445  | 930 | 267 | 244 | 4 |         |         |       |

- Molecule 22 is a protein called 60S ribosomal protein L21-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 22  | 2     | 159      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1276  | 805 | 246 | 221 | 4 |         |         |       |
| 22  | CV    | 159      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1276  | 805 | 246 | 221 | 4 |         |         |       |

- Molecule 23 is a protein called 60S ribosomal protein L22-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 23  | 5     | 100      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 796   | 516 | 131 | 149 |         |         |       |
| 23  | CW    | 100      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 796   | 516 | 131 | 149 |         |         |       |

- Molecule 24 is a protein called 60S ribosomal protein L23-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 24  | 6     | 136      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1003  | 628 | 189 | 179 | 7 |         |         |       |
| 24  | CX    | 136      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1003  | 628 | 189 | 179 | 7 |         |         |       |

- Molecule 25 is a protein called 60S ribosomal protein L24-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 25  | 7     | 98       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 699   | 443 | 137 | 118 | 1 |         |         |       |
| 25  | CY    | 98       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 699   | 443 | 137 | 118 | 1 |         |         |       |

- Molecule 26 is a protein called 60S ribosomal protein L25.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 26  | 8     | 121      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 964   | 620 | 169 | 173 | 2 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 26  | CZ    | 121      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 964   | 620 | 169 | 173 | 2 |         |         |       |

- Molecule 27 is a protein called 60S ribosomal protein L26-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 27  | 9     | 126      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 993   | 625 | 192 | 176 |         |         |       |
| 27  | DA    | 126      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 993   | 625 | 192 | 176 |         |         |       |

- Molecule 28 is a protein called 60S ribosomal protein L27-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 28  | AA    | 135      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1092  | 710 | 202 | 180 |         |         |       |
| 28  | DB    | 135      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1092  | 710 | 202 | 180 |         |         |       |

- Molecule 29 is a protein called 60S ribosomal protein L28.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 29  | AB    | 148      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1173  | 749 | 231 | 190 | 3 |         |         |       |
| 29  | DC    | 148      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1173  | 749 | 231 | 190 | 3 |         |         |       |

- Molecule 30 is a protein called 60S ribosomal protein L29.

| Mol | Chain | Residues | Atoms |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 30  | AC    | 58       | Total | C   | N   | O  | 0       | 0       | 0     |
|     |       |          | 462   | 289 | 100 | 73 |         |         |       |
| 30  | DD    | 58       | Total | C   | N   | O  | 0       | 0       | 0     |
|     |       |          | 462   | 289 | 100 | 73 |         |         |       |

- Molecule 31 is a protein called 60S ribosomal protein L30.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 31  | AD    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 743   | 479 | 124 | 139 | 1 |         |         |       |
| 31  | DE    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 743   | 479 | 124 | 139 | 1 |         |         |       |



- Molecule 32 is a protein called 60S ribosomal protein L31-A.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 32  | AE    | 109      | Total<br>876 | C<br>556 | N<br>167 | O<br>152 | S<br>1 | 0       | 0       | 0     |
| 32  | DF    | 109      | Total<br>876 | C<br>556 | N<br>167 | O<br>152 | S<br>1 | 0       | 0       | 0     |

- Molecule 33 is a protein called 60S ribosomal protein L32.

| Mol | Chain | Residues | Atoms         |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C        | N        | O        | S      |         |         |       |
| 33  | AF    | 127      | Total<br>1020 | C<br>647 | N<br>205 | O<br>167 | S<br>1 | 0       | 0       | 0     |
| 33  | DG    | 127      | Total<br>1020 | C<br>647 | N<br>205 | O<br>167 | S<br>1 | 0       | 0       | 0     |

- Molecule 34 is a protein called 60S ribosomal protein L33-A.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 34  | AG    | 106      | Total<br>850 | C<br>540 | N<br>165 | O<br>144 | S<br>1 | 0       | 0       | 0     |
| 34  | DH    | 106      | Total<br>850 | C<br>540 | N<br>165 | O<br>144 | S<br>1 | 0       | 0       | 0     |

- Molecule 35 is a protein called 60S ribosomal protein L34-A.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 35  | AH    | 112      | Total<br>880 | C<br>545 | N<br>179 | O<br>152 | S<br>4 | 0       | 0       | 0     |
| 35  | DI    | 112      | Total<br>880 | C<br>545 | N<br>179 | O<br>152 | S<br>4 | 0       | 0       | 0     |

- Molecule 36 is a protein called 60S ribosomal protein L35-A.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 36  | AI    | 119      | Total<br>969 | C<br>615 | N<br>186 | O<br>167 | S<br>1 | 0       | 0       | 0     |
| 36  | DJ    | 119      | Total<br>969 | C<br>615 | N<br>186 | O<br>167 | S<br>1 | 0       | 0       | 0     |

- Molecule 37 is a protein called 60S ribosomal protein L36-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 37  | AJ    | 99       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 771   | 481 | 156 | 132 | 2 |         |         |       |
| 37  | DK    | 99       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 771   | 481 | 156 | 132 | 2 |         |         |       |

- Molecule 38 is a protein called 60S ribosomal protein L37-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 38  | AK    | 87       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 681   | 414 | 148 | 114 | 5 |         |         |       |
| 38  | DL    | 87       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 681   | 414 | 148 | 114 | 5 |         |         |       |

- Molecule 39 is a protein called 60S ribosomal protein L38.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 39  | AL    | 77       | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 612   | 391 | 115 | 106 |         |         |       |
| 39  | DM    | 77       | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 612   | 391 | 115 | 106 |         |         |       |

- Molecule 40 is a protein called 60S ribosomal protein L39.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 40  | AM    | 50       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 436   | 272 | 97 | 65 | 2 |         |         |       |
| 40  | DN    | 50       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 436   | 272 | 97 | 65 | 2 |         |         |       |

- Molecule 41 is a protein called Ubiquitin-60S ribosomal protein L40.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 41  | AN    | 52       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 417   | 259 | 86 | 67 | 5 |         |         |       |
| 41  | DO    | 52       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 417   | 259 | 86 | 67 | 5 |         |         |       |

- Molecule 42 is a protein called 60S ribosomal protein L41-A.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 42  | AO    | 25       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 233   | 142 | 63 | 27 | 1 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
|     |       |          | Total | C   | N  | O  | S |         |         |       |
| 42  | DP    | 25       | 233   | 142 | 63 | 27 | 1 | 0       | 0       | 0     |

- Molecule 43 is a protein called 60S ribosomal protein L42-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 43  | AP    | 105      | 847   | 534 | 170 | 138 | 5 | 0       | 0       | 0     |
| 43  | DQ    | 105      | 847   | 534 | 170 | 138 | 5 | 0       | 0       | 0     |

- Molecule 44 is a protein called 60S ribosomal protein L43-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 44  | AQ    | 91       | 694   | 429 | 138 | 121 | 6 | 0       | 0       | 0     |
| 44  | DR    | 91       | 694   | 429 | 138 | 121 | 6 | 0       | 0       | 0     |

- Molecule 45 is a protein called Suppressor protein STM1.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 45  | i     | 159      | 1104  | 654 | 221 | 229 | 0       | 0       | 0     |

There is a discrepancy between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment  | Reference  |
|-------|---------|----------|--------|----------|------------|
| i     | 134     | LEU      | ASP    | conflict | UNP P39015 |

- Molecule 46 is a protein called 60S acidic ribosomal protein P0.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 46  | p0    | 143      | 1077  | 687 | 192 | 195 | 3 | 0       | 0       | 0     |

- Molecule 47 is a protein called Suppressor protein STM1.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 47  | sM    | 104      | 681   | 404 | 140 | 137 | 0       | 0       | 0     |

There is a discrepancy between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment  | Reference  |
|-------|---------|----------|--------|----------|------------|
| sM    | 59      | ALA      | GLY    | conflict | UNP P39015 |

- Molecule 48 is a RNA chain called 18S ribosomal RNA.

| Mol | Chain | Residues | Atoms |       |      |       |      | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-------|------|-------|------|---------|---------|-------|
| 48  | A     | 1781     | Total | C     | N    | O     | P    | 0       | 0       | 0     |
|     |       |          | 37948 | 16965 | 6715 | 12487 | 1781 |         |         |       |
| 48  | sR    | 1783     | Total | C     | N    | O     | P    | 0       | 0       | 0     |
|     |       |          | 37990 | 16984 | 6723 | 12500 | 1783 |         |         |       |

- Molecule 49 is a protein called 40S ribosomal protein S0-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 49  | B     | 206      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1577  | 1014 | 278 | 283 | 2 |         |         |       |
| 49  | s0    | 206      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1583  | 1017 | 281 | 283 | 2 |         |         |       |

- Molecule 50 is a protein called 40S ribosomal protein S1-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 50  | C     | 214      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1709  | 1084 | 310 | 311 | 4 |         |         |       |
| 50  | s1    | 216      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1722  | 1091 | 312 | 315 | 4 |         |         |       |

- Molecule 51 is a protein called 40S ribosomal protein S2.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 51  | D     | 217      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1635  | 1047 | 289 | 297 | 2 |         |         |       |
| 51  | s2    | 217      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1635  | 1047 | 289 | 297 | 2 |         |         |       |

- Molecule 52 is a protein called 40S ribosomal protein S3.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 52  | E     | 223      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1734  | 1101 | 313 | 314 | 6 |         |         |       |
| 52  | s3    | 223      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1734  | 1101 | 313 | 314 | 6 |         |         |       |

- Molecule 53 is a protein called 40S ribosomal protein S4-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 53  | F     | 260      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2068  | 1316 | 389 | 360 | 3 |         |         |       |
| 53  | s4    | 260      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 2068  | 1316 | 389 | 360 | 3 |         |         |       |

- Molecule 54 is a protein called 40S ribosomal protein S5.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 54  | G     | 206      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1609  | 1007 | 300 | 299 | 3 |         |         |       |
| 54  | s5    | 206      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1609  | 1007 | 300 | 299 | 3 |         |         |       |

- Molecule 55 is a protein called 40S ribosomal protein S6-A.

| Mol | Chain | Residues | Atoms |      |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C    | N   | O   | S |         |         |       |
| 55  | H     | 226      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1799  | 1129 | 346 | 321 | 3 |         |         |       |
| 55  | s6    | 218      | Total | C    | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1755  | 1102 | 337 | 313 | 3 |         |         |       |

- Molecule 56 is a protein called 40S ribosomal protein S7-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
|     |       |          | Total | C   | N   | O   |         |         |       |
| 56  | I     | 184      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1481  | 951 | 265 | 265 |         |         |       |
| 56  | s7    | 186      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1491  | 957 | 267 | 267 |         |         |       |

- Molecule 57 is a protein called 40S ribosomal protein S8-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 57  | J     | 188      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1489  | 925 | 298 | 264 | 2 |         |         |       |
| 57  | s8    | 188      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1489  | 925 | 298 | 264 | 2 |         |         |       |

- Molecule 58 is a protein called 40S ribosomal protein S9-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 58  | K     | 185      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1494  | 943 | 289 | 261 | 1 |         |         |       |
| 58  | s9    | 185      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1494  | 943 | 289 | 261 | 1 |         |         |       |

- Molecule 59 is a protein called 40S ribosomal protein S10-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 59  | L     | 96       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 772   | 499 | 126 | 145 | 2 |         |         |       |
| 59  | c0    | 96       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 760   | 489 | 125 | 144 | 2 |         |         |       |

- Molecule 60 is a protein called 40S ribosomal protein S11-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 60  | M     | 155      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1213  | 774 | 230 | 206 | 3 |         |         |       |
| 60  | c1    | 146      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1168  | 747 | 221 | 197 | 3 |         |         |       |

- Molecule 61 is a protein called 40S ribosomal protein S12.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 61  | N     | 124      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 890   | 560 | 156 | 172 | 2 |         |         |       |
| 61  | c2    | 124      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 890   | 560 | 156 | 172 | 2 |         |         |       |

- Molecule 62 is a protein called 40S ribosomal protein S13.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 62  | O     | 150      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1192  | 759 | 224 | 207 | 2 |         |         |       |
| 62  | c3    | 150      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1192  | 759 | 224 | 207 | 2 |         |         |       |

- Molecule 63 is a protein called 40S ribosomal protein S14-B.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 63  | P     | 127      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 891   | 545 | 182 | 163 | 1 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 63  | c4    | 128      | 949   | 582 | 188 | 176 | 3 | 0       | 0       | 0     |

- Molecule 64 is a protein called 40S ribosomal protein S15.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 64  | Q     | 124      | 977   | 622 | 182 | 166 | 7 | 0       | 0       | 0     |
| 64  | c5    | 135      | 1039  | 658 | 196 | 178 | 7 | 0       | 0       | 0     |

- Molecule 65 is a protein called 40S ribosomal protein S16-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |   |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|---|
|     |       |          | Total | C   | N   | O   |         |         |       |   |
| 65  | R     | 141      | 1105  | 708 | 203 | 194 |         | 0       | 0     | 0 |
| 65  | c6    | 142      | 1111  | 711 | 204 | 196 |         | 0       | 0     | 0 |

- Molecule 66 is a protein called 40S ribosomal protein S17-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 66  | S     | 120      | 926   | 577 | 177 | 170 | 2 | 0       | 0       | 0     |

- Molecule 67 is a protein called 40S ribosomal protein S18-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 67  | T     | 145      | 1192  | 743 | 237 | 210 | 2 | 0       | 0       | 0     |
| 67  | c8    | 145      | 1192  | 743 | 237 | 210 | 2 | 0       | 0       | 0     |

- Molecule 68 is a protein called 40S ribosomal protein S19-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
|     |       |          | Total | C   | N   | O   | S |         |         |       |
| 68  | U     | 143      | 1112  | 694 | 208 | 208 | 2 | 0       | 0       | 0     |
| 68  | c9    | 143      | 1112  | 694 | 208 | 208 | 2 | 0       | 0       | 0     |

- Molecule 69 is a protein called 40S ribosomal protein S20.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 69  | V     | 107      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 855   | 539 | 156 | 159 | 1 |         |         |       |
| 69  | d0    | 110      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 882   | 554 | 161 | 166 | 1 |         |         |       |

- Molecule 70 is a protein called 40S ribosomal protein S21-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 70  | W     | 87       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 684   | 420 | 125 | 137 | 2 |         |         |       |
| 70  | d1    | 87       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 684   | 420 | 125 | 137 | 2 |         |         |       |

- Molecule 71 is a protein called 40S ribosomal protein S22-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 71  | X     | 129      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1021  | 650 | 188 | 180 | 3 |         |         |       |
| 71  | d2    | 129      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1021  | 650 | 188 | 180 | 3 |         |         |       |

- Molecule 72 is a protein called 40S ribosomal protein S23-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 72  | Y     | 144      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1121  | 708 | 220 | 191 | 2 |         |         |       |
| 72  | d3    | 144      | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 1121  | 708 | 220 | 191 | 2 |         |         |       |

- Molecule 73 is a protein called 40S ribosomal protein S24-A.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 73  | Z     | 134      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1073  | 676 | 208 | 189 |         |         |       |
| 73  | d4    | 134      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 1073  | 676 | 208 | 189 |         |         |       |

- Molecule 74 is a protein called 40S ribosomal protein S25-A.

| Mol | Chain | Residues | Atoms |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 74  | a     | 70       | Total | C   | N   | O  | 0       | 0       | 0     |
|     |       |          | 563   | 360 | 104 | 99 |         |         |       |

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| Mol | Chain | Residues | Atoms |     |     |    | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---------|---------|-------|
| 74  | d5    | 69       | Total | C   | N   | O  | 0       | 0       | 0     |
|     |       |          | 558   | 357 | 103 | 98 |         |         |       |

- Molecule 75 is a protein called 40S ribosomal protein S26-B.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 75  | b     | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 769   | 475 | 160 | 129 | 5 |         |         |       |
| 75  | d6    | 97       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 769   | 475 | 160 | 129 | 5 |         |         |       |

- Molecule 76 is a protein called 40S ribosomal protein S27-A.

| Mol | Chain | Residues | Atoms |     |     |     |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 76  | c     | 81       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 610   | 382 | 110 | 113 | 5 |         |         |       |
| 76  | d7    | 81       | Total | C   | N   | O   | S | 0       | 0       | 0     |
|     |       |          | 610   | 382 | 110 | 113 | 5 |         |         |       |

- Molecule 77 is a protein called 40S ribosomal protein S28-A.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 77  | d     | 63       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 497   | 306 | 99 | 91 | 1 |         |         |       |
| 77  | d8    | 63       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 497   | 306 | 99 | 91 | 1 |         |         |       |

- Molecule 78 is a protein called 40S ribosomal protein S29-A.

| Mol | Chain | Residues | Atoms |     |    |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 78  | e     | 53       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 442   | 274 | 92 | 72 | 4 |         |         |       |
| 78  | d9    | 53       | Total | C   | N  | O  | S | 0       | 0       | 0     |
|     |       |          | 442   | 274 | 92 | 72 | 4 |         |         |       |

- Molecule 79 is a protein called 40S ribosomal protein S30-A.

| Mol | Chain | Residues | Atoms |     |     |    |   | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|----|---|---------|---------|-------|
| 79  | f     | 60       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 475   | 299 | 98  | 77 | 1 |         |         |       |
| 79  | e0    | 62       | Total | C   | N   | O  | S | 0       | 0       | 0     |
|     |       |          | 491   | 309 | 101 | 80 | 1 |         |         |       |

- Molecule 80 is a protein called Ubiquitin-40S ribosomal protein S31.

| Mol | Chain | Residues | Atoms        |          |          |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O       | S      |         |         |       |
| 80  | g     | 71       | Total<br>566 | C<br>362 | N<br>106 | O<br>94 | S<br>4 | 0       | 0       | 0     |

- Molecule 81 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

| Mol | Chain | Residues | Atoms         |           |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total         | C         | N        | O        | S      |         |         |       |
| 81  | h     | 318      | Total<br>2437 | C<br>1541 | N<br>418 | O<br>470 | S<br>8 | 0       | 0       | 0     |
| 81  | Rb    | 318      | Total<br>2442 | C<br>1544 | N<br>418 | O<br>472 | S<br>8 | 0       | 0       | 0     |

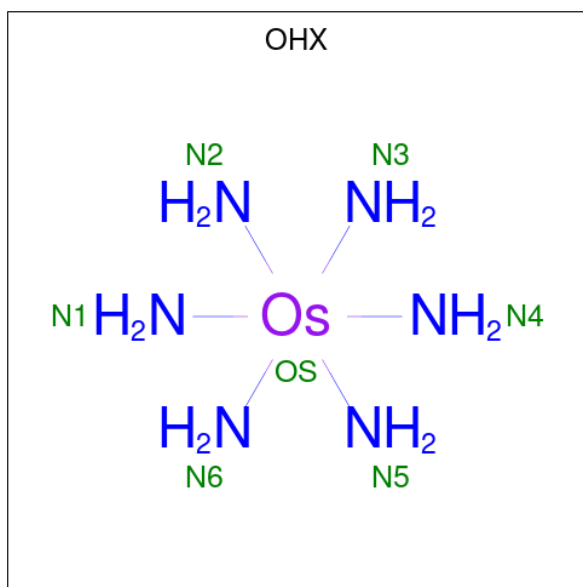
- Molecule 82 is a protein called 40S ribosomal protein S17-A.

| Mol | Chain | Residues | Atoms        |          |          |          |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N        | O        | S      |         |         |       |
| 82  | c7    | 117      | Total<br>906 | C<br>563 | N<br>174 | O<br>167 | S<br>2 | 0       | 0       | 0     |

- Molecule 83 is a protein called Ubiquitin-40S ribosomal protein S31.

| Mol | Chain | Residues | Atoms        |          |         |         |        | ZeroOcc | AltConf | Trace |
|-----|-------|----------|--------------|----------|---------|---------|--------|---------|---------|-------|
|     |       |          | Total        | C        | N       | O       | S      |         |         |       |
| 83  | e1    | 51       | Total<br>397 | C<br>249 | N<br>73 | O<br>71 | S<br>4 | 0       | 0       | 0     |

- Molecule 84 is osmium (III) hexammine (three-letter code: OHX) (formula: H<sub>12</sub>N<sub>6</sub>Os).



| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | 1     | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 1     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 3     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | 4     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | k     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | l     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | r     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | v     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | v     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | x     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | x     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | y     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | z     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AC    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AG    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AK    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AK    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AP    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| <b>Mol</b> | <b>Chain</b> | <b>Residues</b> | <b>Atoms</b> |   |    | <b>ZeroOcc</b> | <b>AltConf</b> |
|------------|--------------|-----------------|--------------|---|----|----------------|----------------|
|            |              |                 | Total        | N | Os |                |                |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |
| 84         | AR           | 1               | 7            | 6 | 1  | 0              | 0              |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AS    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | AT    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms      |         |    | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|----|---------|---------|
|     |       |          | Total      | N       | Os |         |         |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | AT    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CE    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CE    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CF    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CF    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CG    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CG    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CG    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CK    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CL    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CL    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CM    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CO    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CP    | 1        | 7          | 6       | 1  | 0       | 0       |
| 84  | CS    | 1        | Total<br>1 | Os<br>1 |    | 0       | 0       |
| 84  | CV    | 1        | 7          | 6       | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | CX    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | CX    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | DD    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | DH    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | DL    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | DQ    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms      |        |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|--------|---------|---------|---------|
|     |       |          | Total      | N      | Os      |         |         |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | A     | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |

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| <b>Mol</b> | <b>Chain</b> | <b>Residues</b> | <b>Atoms</b> |          |           | <b>ZeroOcc</b> | <b>AltConf</b> |
|------------|--------------|-----------------|--------------|----------|-----------|----------------|----------------|
|            |              |                 | <b>Total</b> | <b>N</b> | <b>Os</b> |                |                |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |
| 84         | A            | 1               | Total<br>7   | N<br>6   | Os<br>1   | 0              | 0              |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | A     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | H     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | J     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | M     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | O     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | Q     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | T     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | e     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | h     | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms      |        |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|--------|---------|---------|---------|
|     |       |          | Total      | N      | Os      |         |         |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |
| 84  | sR    | 1        | Total<br>7 | N<br>6 | Os<br>1 | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
|     |       |          | Total | N | Os |         |         |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | sR    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | Rb    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | s1    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | s4    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | s8    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | c3    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | c5    | 1        | 7     | 6 | 1  | 0       | 0       |
| 84  | c8    | 1        | 7     | 6 | 1  | 0       | 0       |

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| Mol | Chain | Residues | Atoms |   |    | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|----|---------|---------|
| 84  | d4    | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |
| 84  | d9    | 1        | Total | N | Os | 0       | 0       |
|     |       |          | 7     | 6 | 1  |         |         |

- Molecule 85 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

| Mol | Chain | Residues | Atoms |     | ZeroOcc | AltConf |
|-----|-------|----------|-------|-----|---------|---------|
| 85  | 1     | 485      | Total | Mg  | 0       | 0       |
|     |       |          | 485   | 485 |         |         |
| 85  | 3     | 12       | Total | Mg  | 0       | 0       |
|     |       |          | 12    | 12  |         |         |
| 85  | 4     | 19       | Total | Mg  | 0       | 0       |
|     |       |          | 19    | 19  |         |         |
| 85  | j     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | k     | 2        | Total | Mg  | 0       | 0       |
|     |       |          | 2     | 2   |         |         |
| 85  | l     | 5        | Total | Mg  | 0       | 0       |
|     |       |          | 5     | 5   |         |         |
| 85  | n     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | o     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | r     | 2        | Total | Mg  | 0       | 0       |
|     |       |          | 2     | 2   |         |         |
| 85  | s     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | t     | 3        | Total | Mg  | 0       | 0       |
|     |       |          | 3     | 3   |         |         |
| 85  | u     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | v     | 2        | Total | Mg  | 0       | 0       |
|     |       |          | 2     | 2   |         |         |
| 85  | w     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | x     | 5        | Total | Mg  | 0       | 0       |
|     |       |          | 5     | 5   |         |         |
| 85  | z     | 1        | Total | Mg  | 0       | 0       |
|     |       |          | 1     | 1   |         |         |
| 85  | 6     | 2        | Total | Mg  | 0       | 0       |
|     |       |          | 2     | 2   |         |         |

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| Mol | Chain | Residues | Atoms        |           | ZeroOcc | AltConf |
|-----|-------|----------|--------------|-----------|---------|---------|
| 85  | AB    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 85  | AH    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | AK    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | AP    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | AR    | 504      | Total<br>504 | Mg<br>504 | 0       | 0       |
| 85  | AS    | 17       | Total<br>17  | Mg<br>17  | 0       | 0       |
| 85  | AT    | 13       | Total<br>13  | Mg<br>13  | 0       | 0       |
| 85  | CD    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 85  | CE    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 85  | CF    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | CG    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | CJ    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | CM    | 2        | Total<br>2   | Mg<br>2   | 0       | 0       |
| 85  | CN    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | CP    | 4        | Total<br>4   | Mg<br>4   | 0       | 0       |
| 85  | CQ    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 85  | CR    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |
| 85  | CU    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | CX    | 3        | Total<br>3   | Mg<br>3   | 0       | 0       |
| 85  | DA    | 1        | Total<br>1   | Mg<br>1   | 0       | 0       |
| 85  | DC    | 6        | Total<br>6   | Mg<br>6   | 0       | 0       |

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| Mol | Chain | Residues | Atoms               | ZeroOcc | AltConf |
|-----|-------|----------|---------------------|---------|---------|
| 85  | DD    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | DH    | 2        | Total Mg<br>2 2     | 0       | 0       |
| 85  | DO    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | DP    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | DR    | 2        | Total Mg<br>2 2     | 0       | 0       |
| 85  | sM    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | A     | 109      | Total Mg<br>109 109 | 0       | 0       |
| 85  | D     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | J     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | O     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | Y     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | b     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | e     | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | sR    | 139      | Total Mg<br>139 139 | 0       | 0       |
| 85  | s1    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | s8    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | c1    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | c6    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | c7    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | c8    | 1        | Total Mg<br>1 1     | 0       | 0       |
| 85  | d3    | 2        | Total Mg<br>2 2     | 0       | 0       |

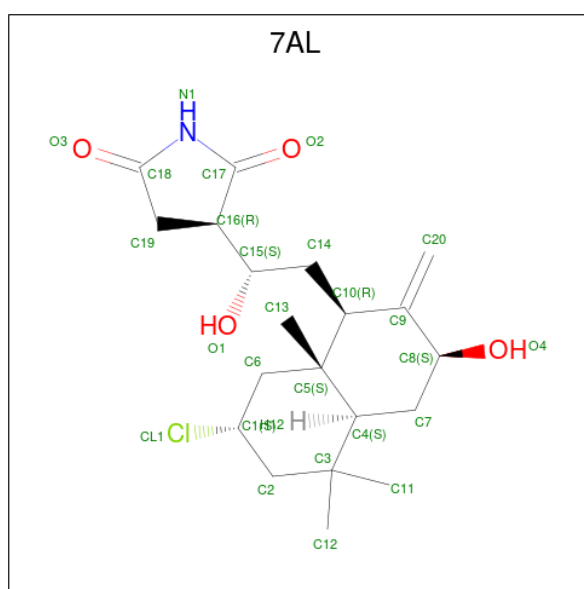
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| Mol | Chain | Residues | Atoms           | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 85  | d4    | 1        | Total Mg<br>1 1 | 0       | 0       |
| 85  | d5    | 1        | Total Mg<br>1 1 | 0       | 0       |
| 85  | d6    | 2        | Total Mg<br>2 2 | 0       | 0       |
| 85  | d9    | 1        | Total Mg<br>1 1 | 0       | 0       |

- Molecule 86 is Chlorolissoclimide (three-letter code: 7AL) (formula: C<sub>20</sub>H<sub>30</sub>ClNO<sub>4</sub>).



| Mol | Chain | Residues | Atoms                         | ZeroOcc | AltConf |
|-----|-------|----------|-------------------------------|---------|---------|
| 86  | 1     | 1        | Total C Cl N O<br>26 20 1 1 4 | 0       | 0       |
| 86  | AR    | 1        | Total C Cl N O<br>26 20 1 1 4 | 0       | 0       |

- Molecule 87 is ZINC ION (three-letter code: ZN) (formula: Zn).

| Mol | Chain | Residues | Atoms           | ZeroOcc | AltConf |
|-----|-------|----------|-----------------|---------|---------|
| 87  | AK    | 1        | Total Zn<br>1 1 | 0       | 0       |
| 87  | AN    | 1        | Total Zn<br>1 1 | 0       | 0       |
| 87  | AP    | 1        | Total Zn<br>1 1 | 0       | 0       |

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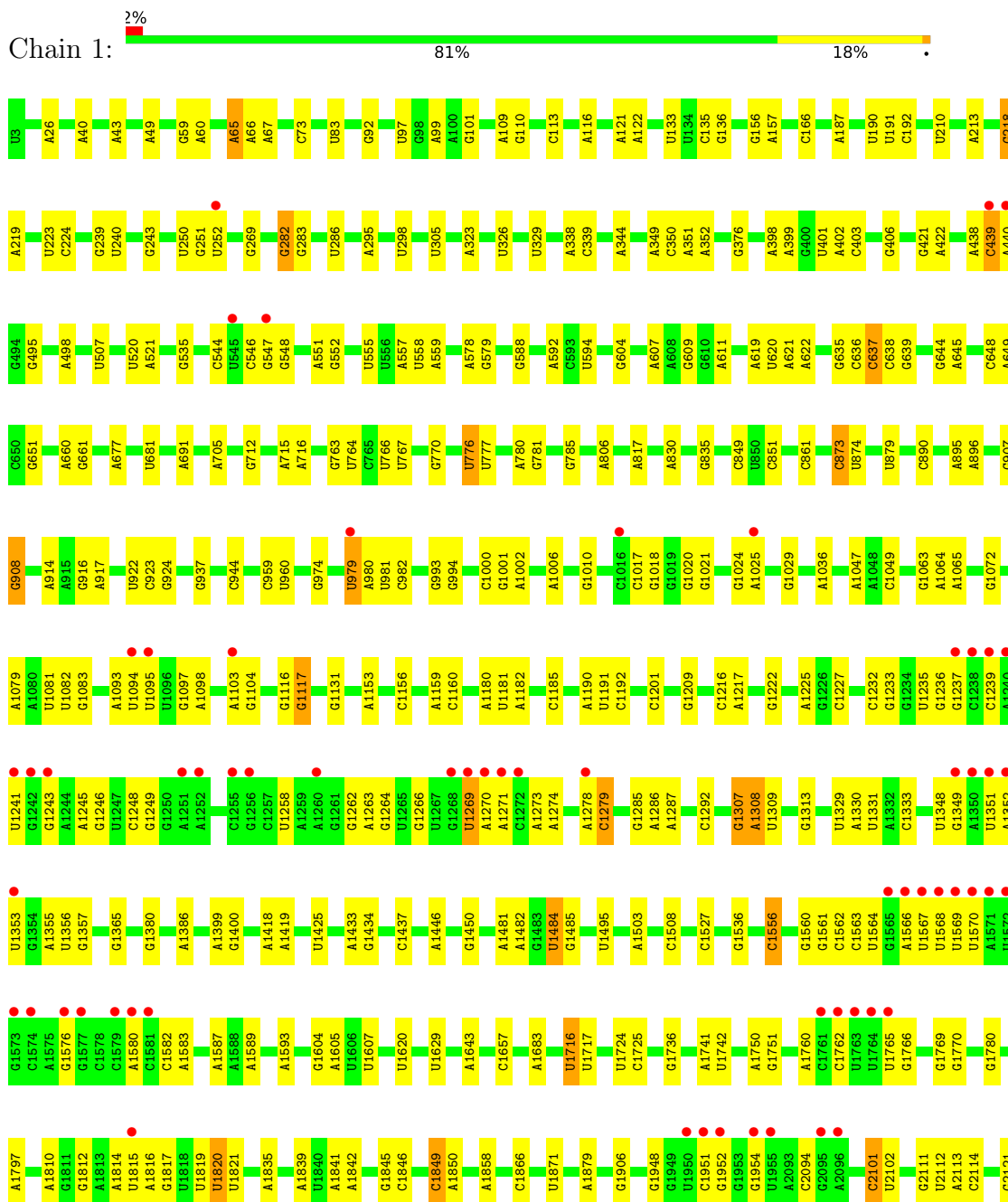
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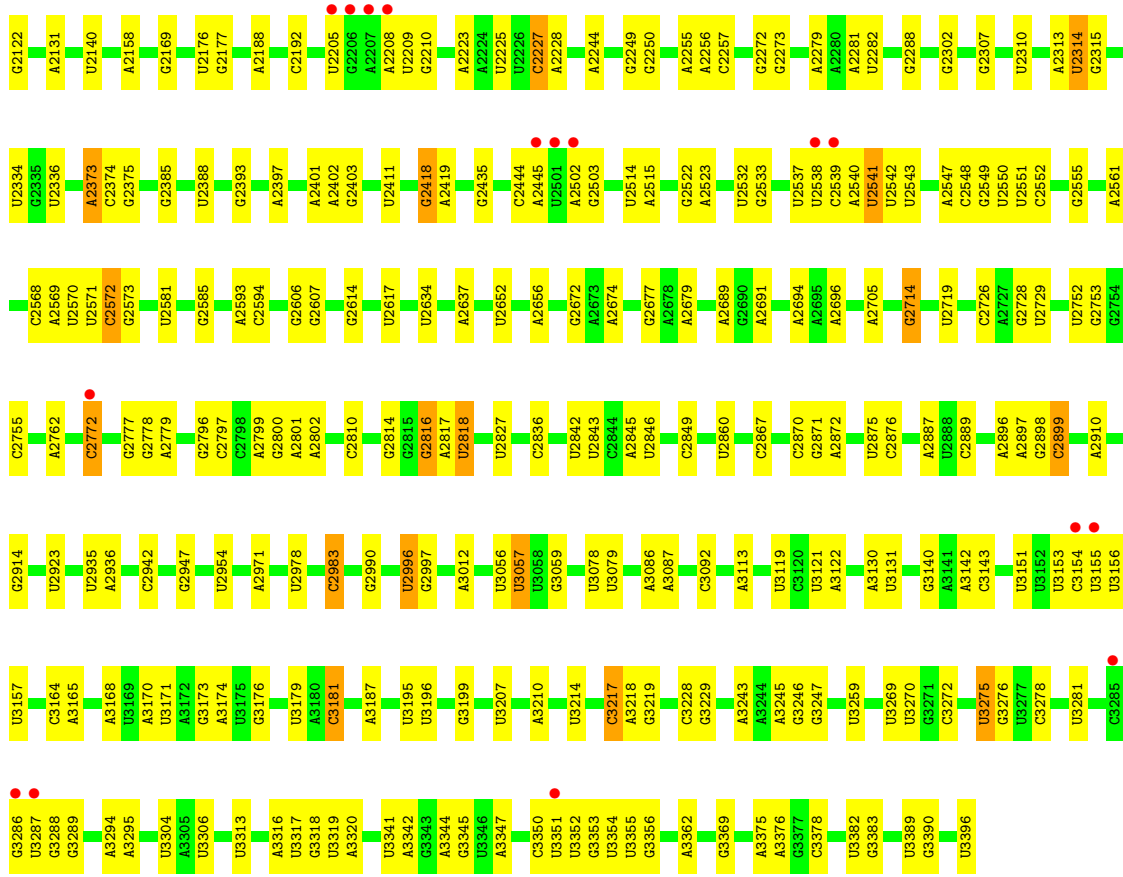
| Mol | Chain | Residues | Atoms      |         | ZeroOcc | AltConf |
|-----|-------|----------|------------|---------|---------|---------|
| 87  | AQ    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | DL    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | DO    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | DQ    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | DR    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | b     | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | c     | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | e     | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | g     | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | d6    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | d7    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | d9    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |
| 87  | e1    | 1        | Total<br>1 | Zn<br>1 | 0       | 0       |

### 3 Residue-property plots [i](#)

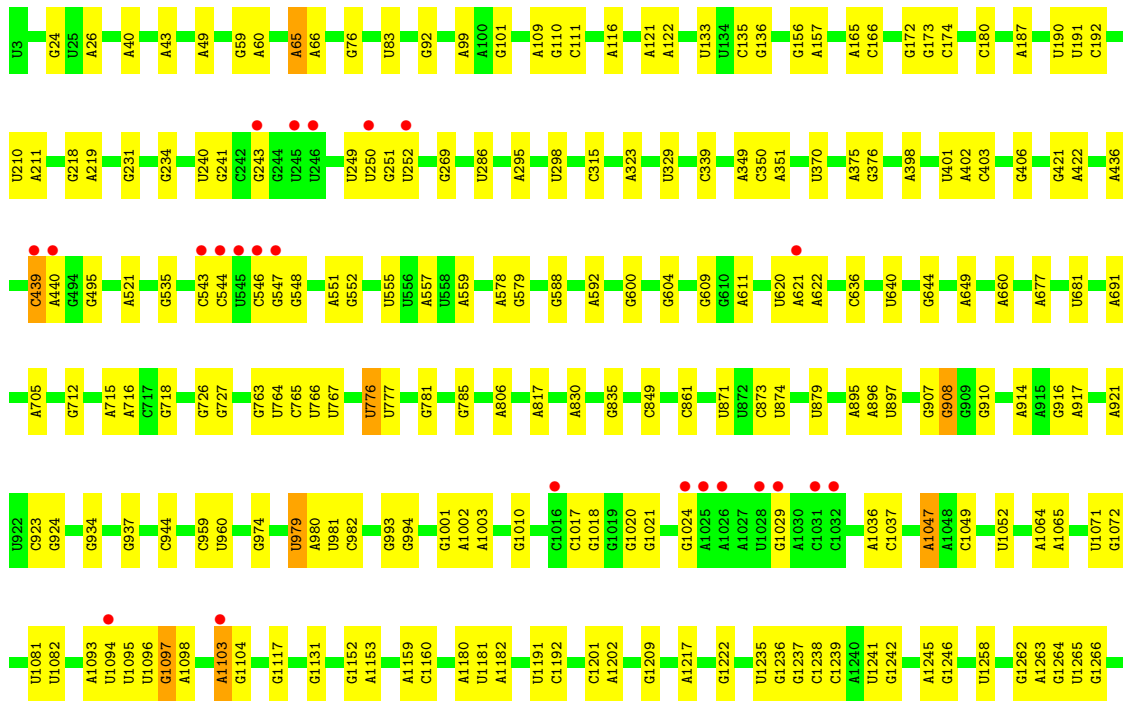
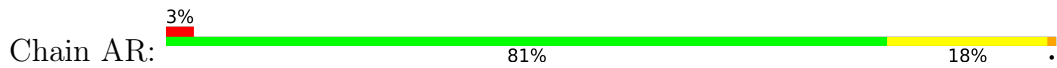
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

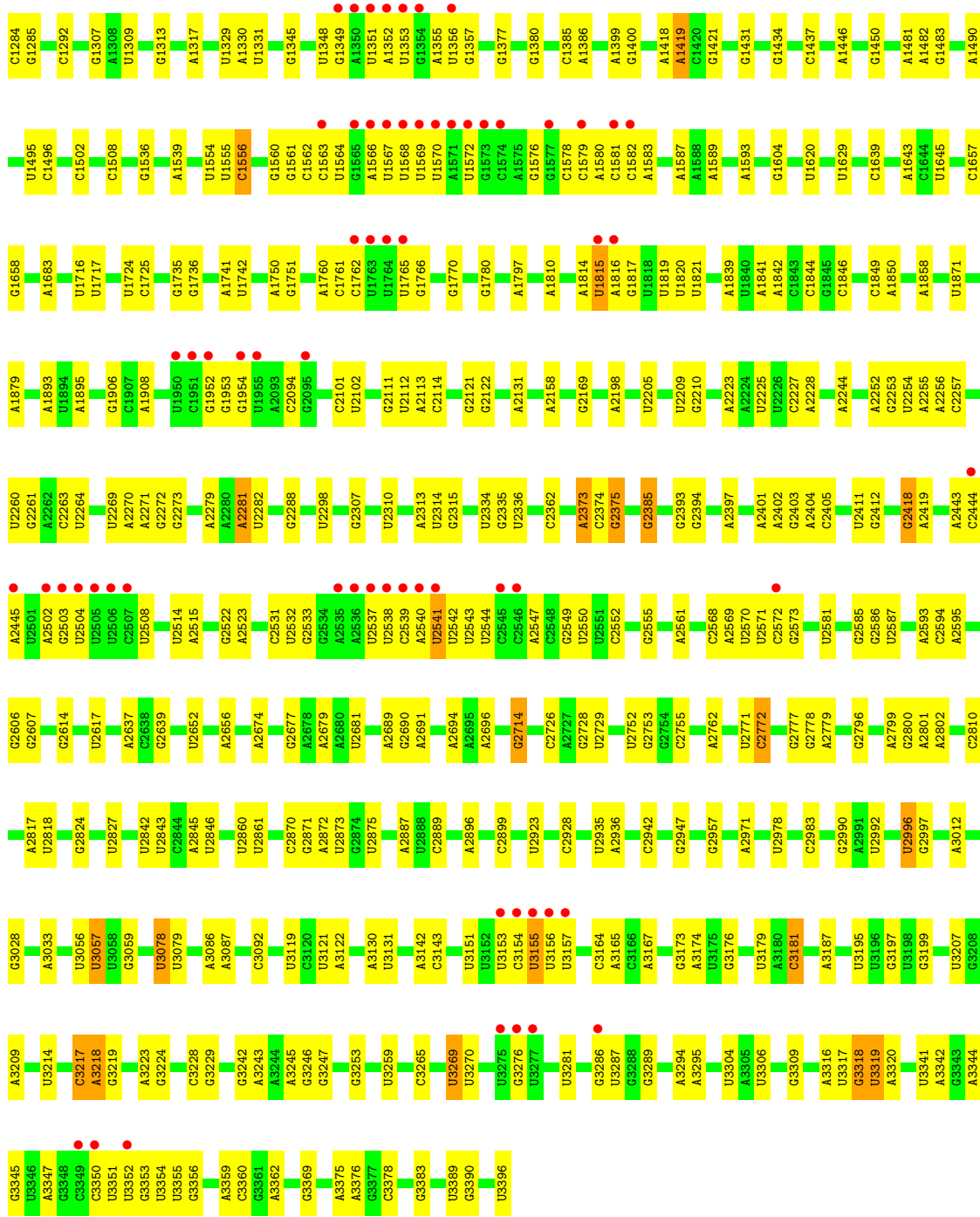
- Molecule 1: 25S ribosomal RNA



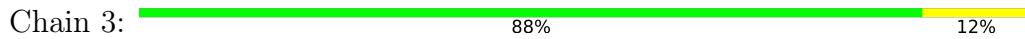


● Molecule 1: 25S ribosomal RNA

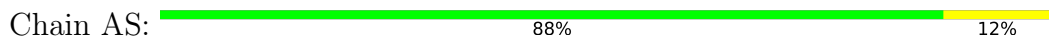




• Molecule 2: 5S ribosomal RNA

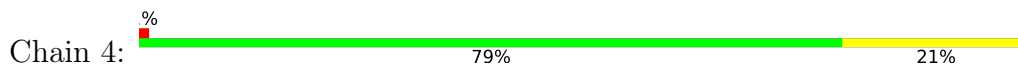


• Molecule 2: 5S ribosomal RNA

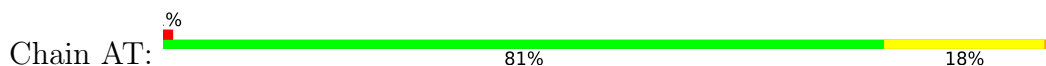




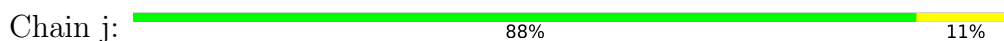
- Molecule 3: 5.8S ribosomal RNA



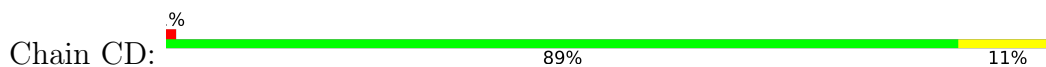
- Molecule 3: 5.8S ribosomal RNA



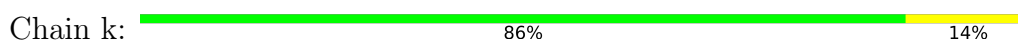
- Molecule 4: 60S ribosomal protein L2-A



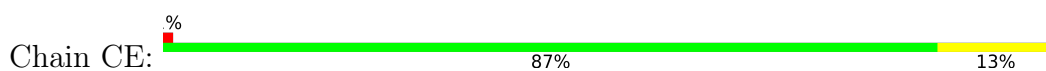
- Molecule 4: 60S ribosomal protein L2-A

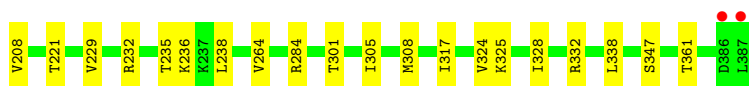


- Molecule 5: 60S ribosomal protein L3



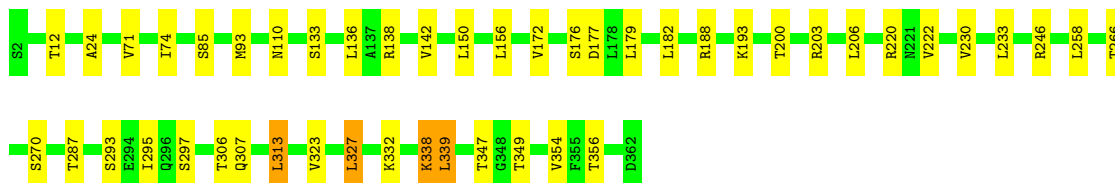
- Molecule 5: 60S ribosomal protein L3





- Molecule 6: 60S ribosomal protein L4-A

Chain l: 87% 12%



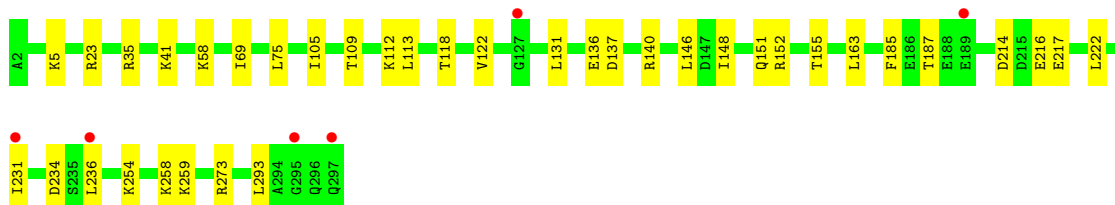
- Molecule 6: 60S ribosomal protein L4-A

Chain CF: 89% 11%



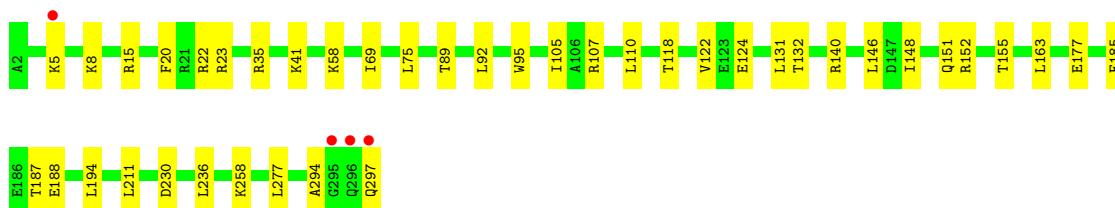
- Molecule 7: 60S ribosomal protein L5

Chain m: 2% 88% 12%



- Molecule 7: 60S ribosomal protein L5

Chain CG: % 86% 14%

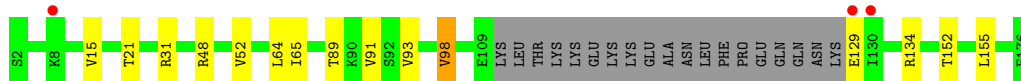
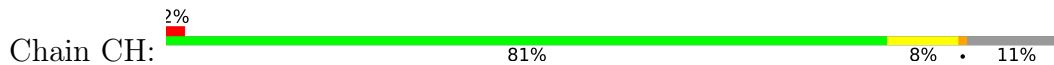


- Molecule 8: 60S ribosomal protein L6-A

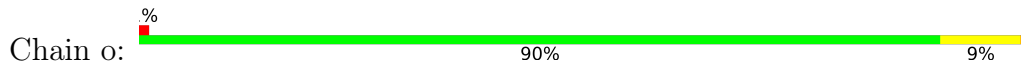
Chain n: 79% 10% 11%



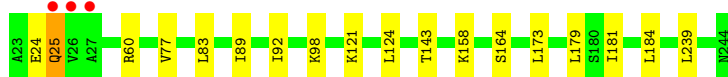
• Molecule 8: 60S ribosomal protein L6-A



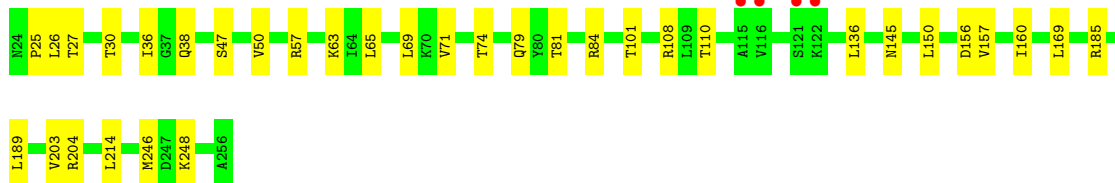
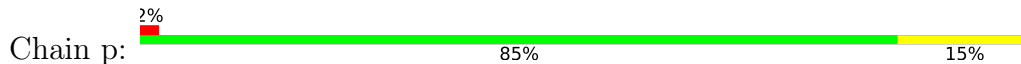
• Molecule 9: 60S ribosomal protein L7-A



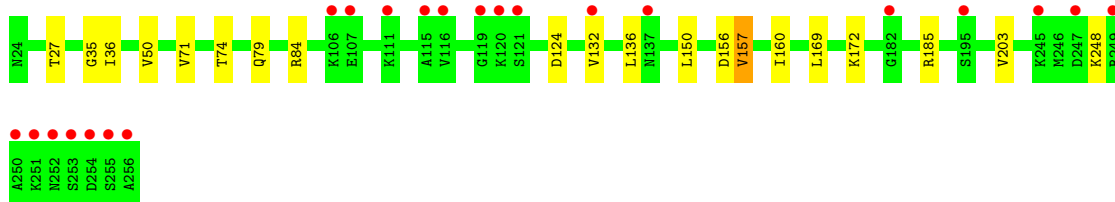
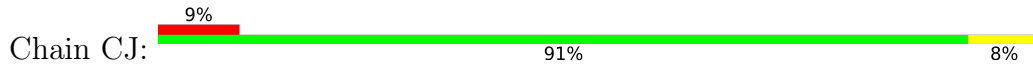
• Molecule 9: 60S ribosomal protein L7-A



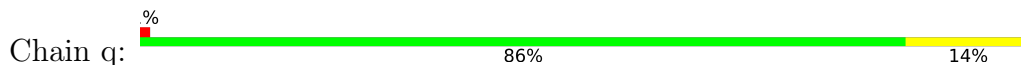
• Molecule 10: 60S ribosomal protein L8-A



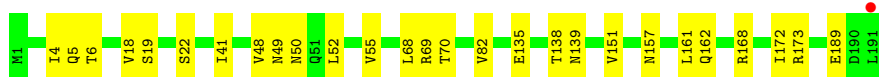
• Molecule 10: 60S ribosomal protein L8-A



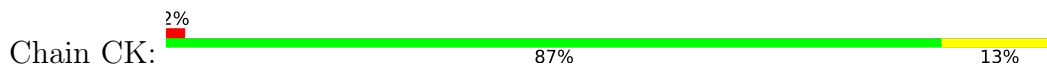
• Molecule 11: 60S ribosomal protein L9-A



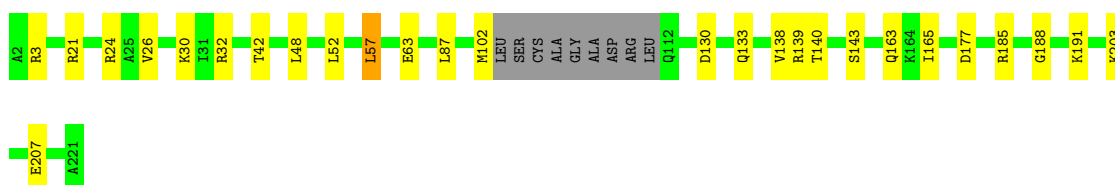
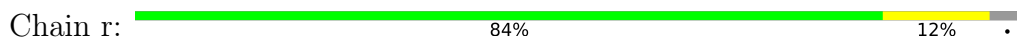




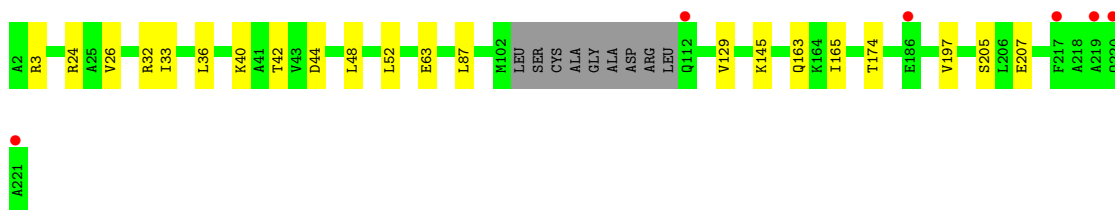
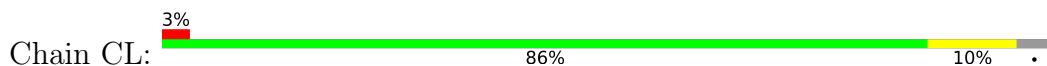
- Molecule 11: 60S ribosomal protein L9-A



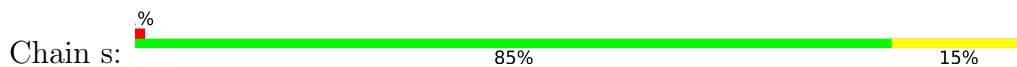
- Molecule 12: 60S ribosomal protein L10



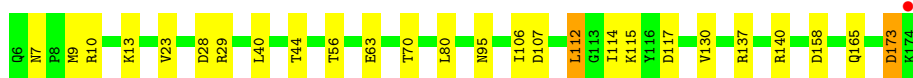
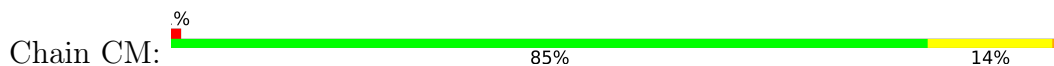
- Molecule 12: 60S ribosomal protein L10



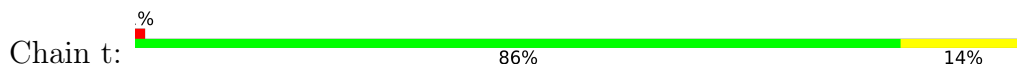
- Molecule 13: 60S ribosomal protein L11-B

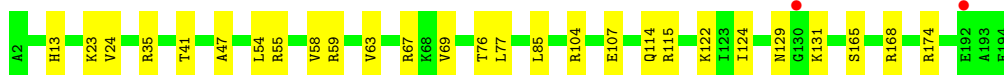


- Molecule 13: 60S ribosomal protein L11-B

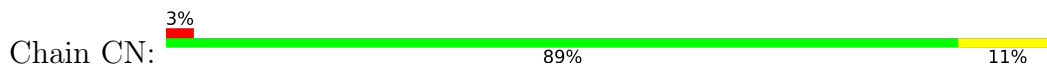


- Molecule 14: 60S ribosomal protein L13-A

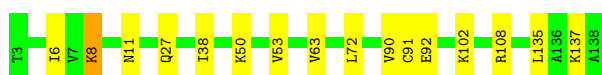
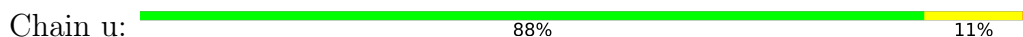




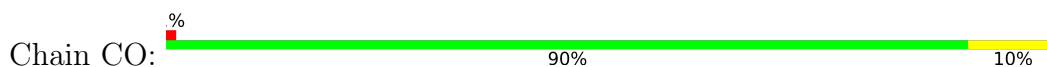
- Molecule 14: 60S ribosomal protein L13-A



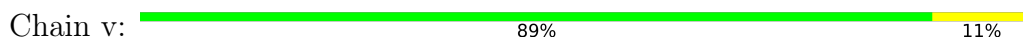
- Molecule 15: 60S ribosomal protein L14-A



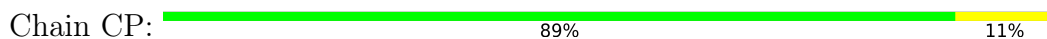
- Molecule 15: 60S ribosomal protein L14-A



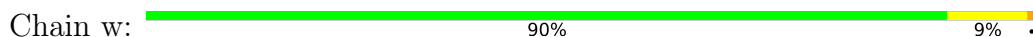
- Molecule 16: 60S ribosomal protein L15-A



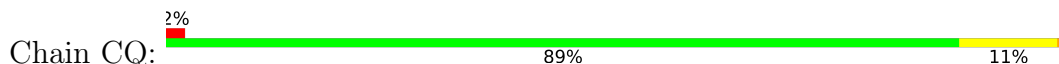
- Molecule 16: 60S ribosomal protein L15-A



- Molecule 17: 60S ribosomal protein L16-A

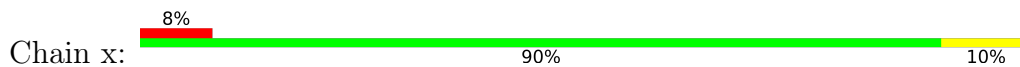


- Molecule 17: 60S ribosomal protein L16-A

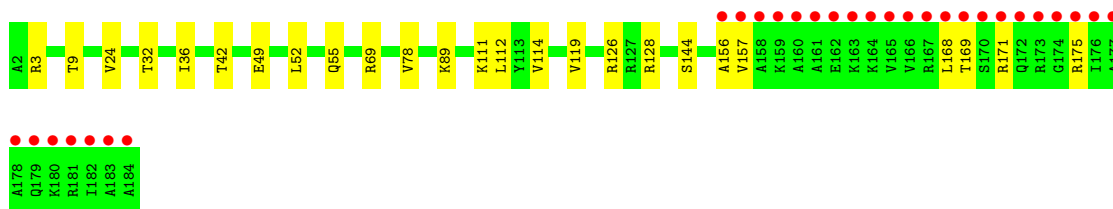
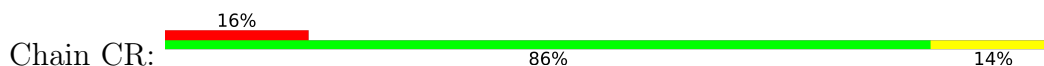




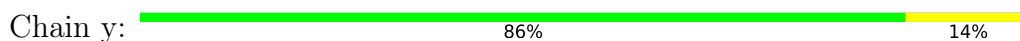
- Molecule 18: 60S ribosomal protein L17-A



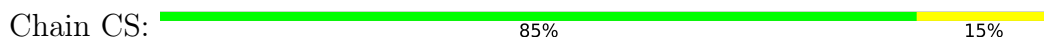
- Molecule 18: 60S ribosomal protein L17-A



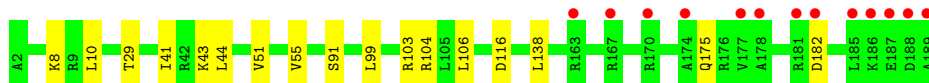
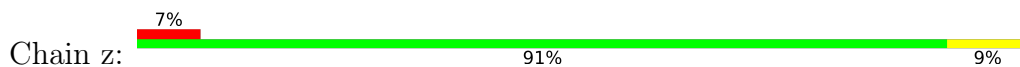
- Molecule 19: 60S ribosomal protein L18-A



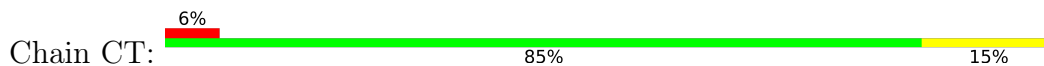
- Molecule 19: 60S ribosomal protein L18-A

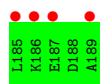


- Molecule 20: 60S ribosomal protein L19-A

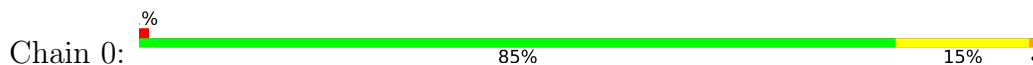


- Molecule 20: 60S ribosomal protein L19-A

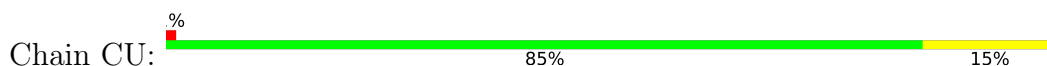




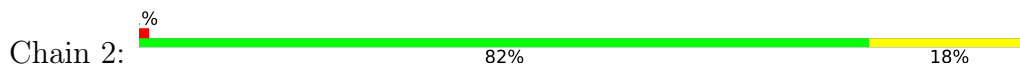
- Molecule 21: 60S ribosomal protein L20-A



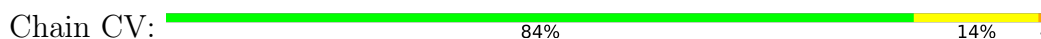
- Molecule 21: 60S ribosomal protein L20-A



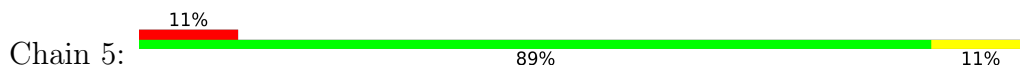
- Molecule 22: 60S ribosomal protein L21-A



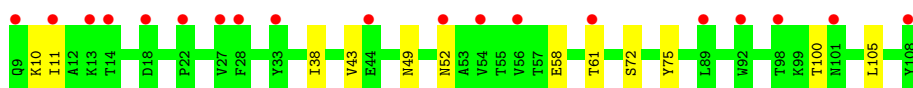
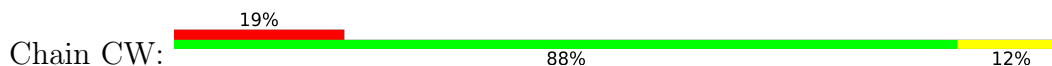
- Molecule 22: 60S ribosomal protein L21-A



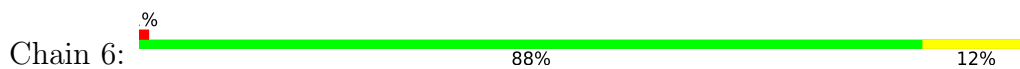
- Molecule 23: 60S ribosomal protein L22-A



- Molecule 23: 60S ribosomal protein L22-A



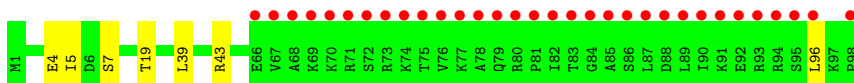
- Molecule 24: 60S ribosomal protein L23-A



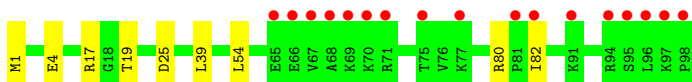
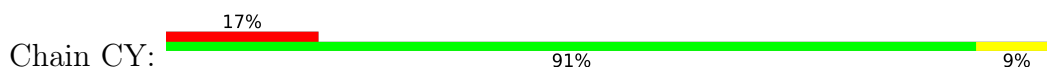
- Molecule 24: 60S ribosomal protein L23-A



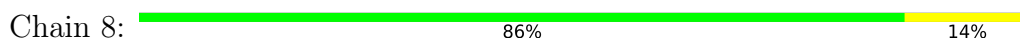
- Molecule 25: 60S ribosomal protein L24-A



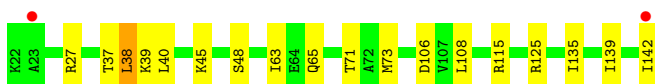
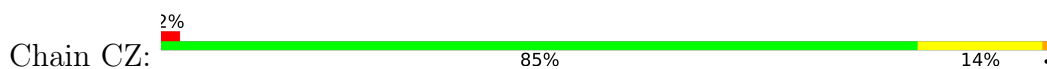
- Molecule 25: 60S ribosomal protein L24-A



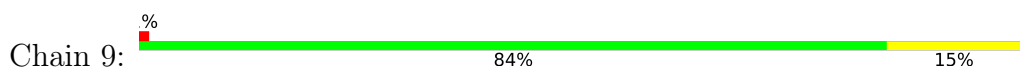
- Molecule 26: 60S ribosomal protein L25



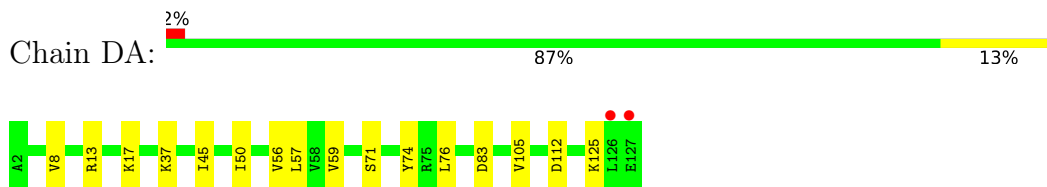
- Molecule 26: 60S ribosomal protein L25



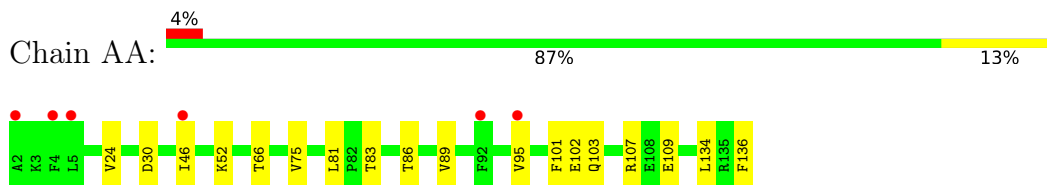
- Molecule 27: 60S ribosomal protein L26-A



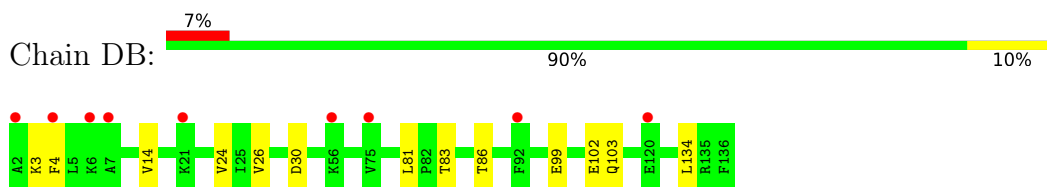
- Molecule 27: 60S ribosomal protein L26-A



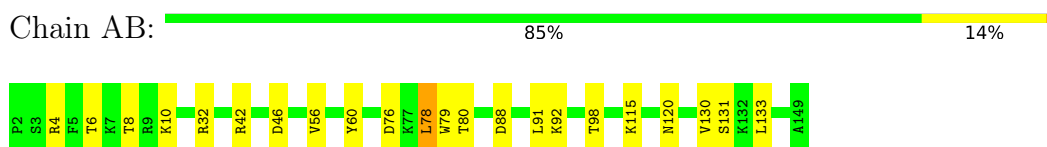
- Molecule 28: 60S ribosomal protein L27-A



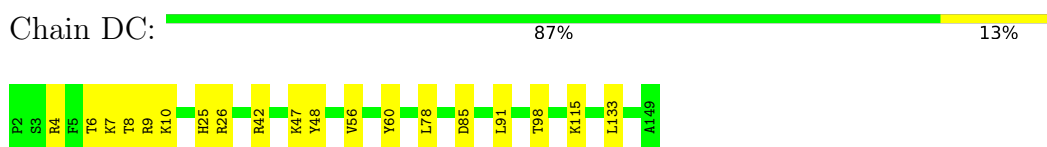
- Molecule 28: 60S ribosomal protein L27-A



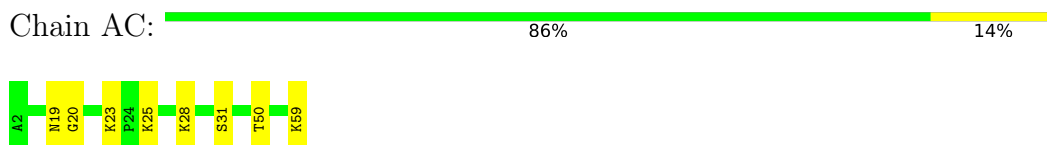
- Molecule 29: 60S ribosomal protein L28



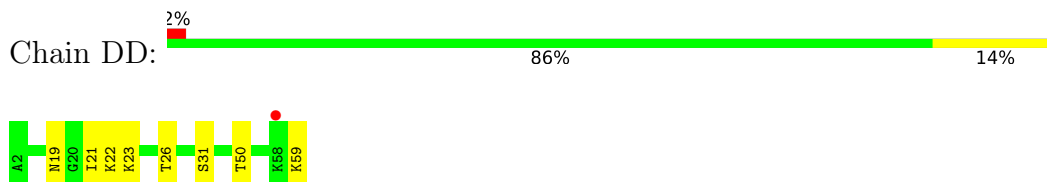
- Molecule 29: 60S ribosomal protein L28



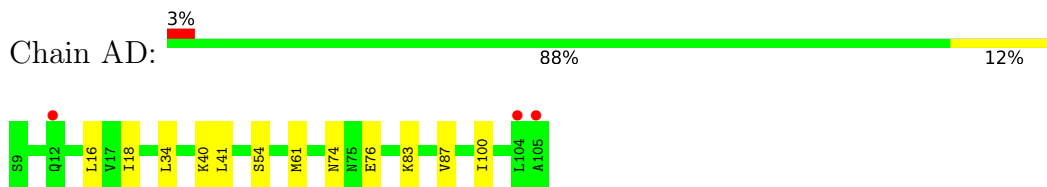
- Molecule 30: 60S ribosomal protein L29



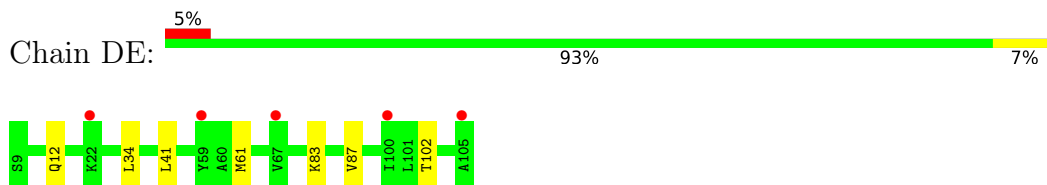
- Molecule 30: 60S ribosomal protein L29



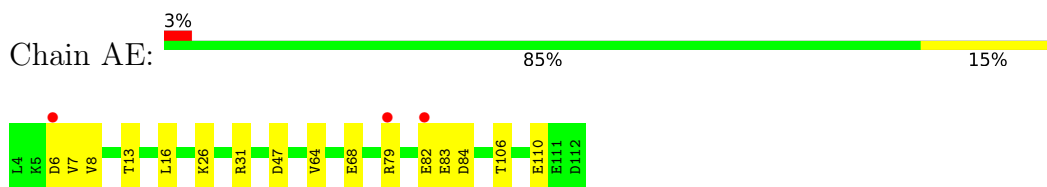
- Molecule 31: 60S ribosomal protein L30



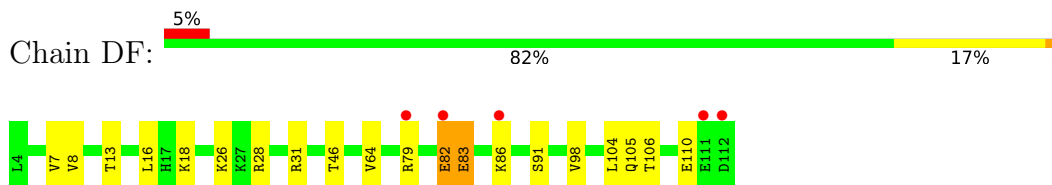
- Molecule 31: 60S ribosomal protein L30



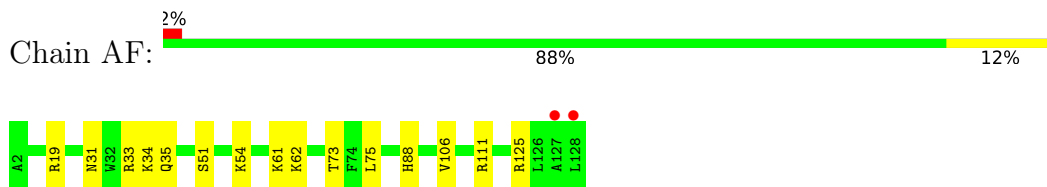
- Molecule 32: 60S ribosomal protein L31-A



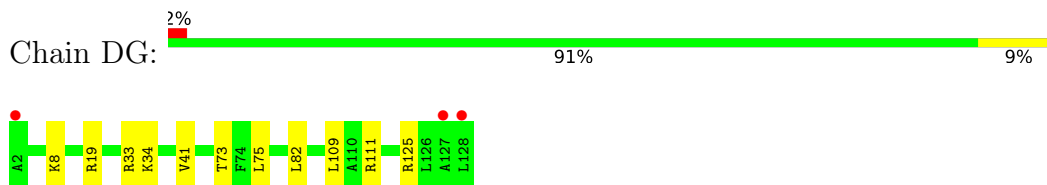
- Molecule 32: 60S ribosomal protein L31-A



- Molecule 33: 60S ribosomal protein L32

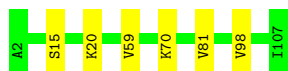


- Molecule 33: 60S ribosomal protein L32



- Molecule 34: 60S ribosomal protein L33-A

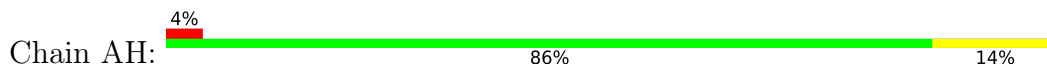




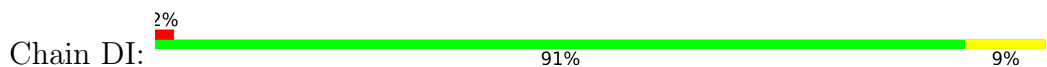
- Molecule 34: 60S ribosomal protein L33-A



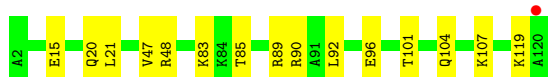
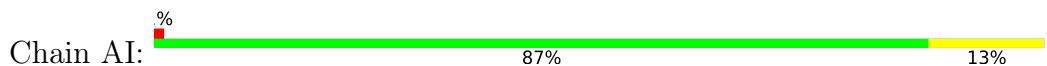
- Molecule 35: 60S ribosomal protein L34-A



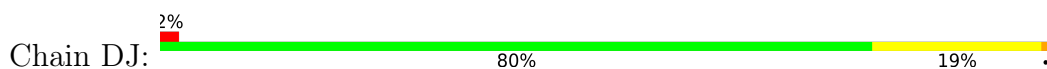
- Molecule 35: 60S ribosomal protein L34-A



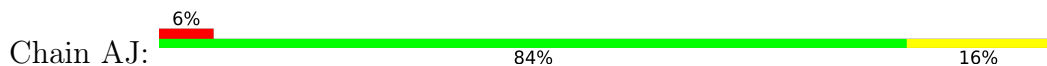
- Molecule 36: 60S ribosomal protein L35-A



- Molecule 36: 60S ribosomal protein L35-A

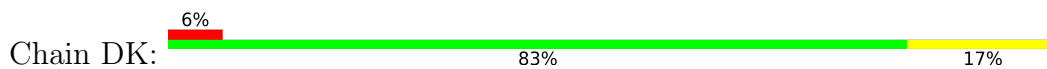


- Molecule 37: 60S ribosomal protein L36-A

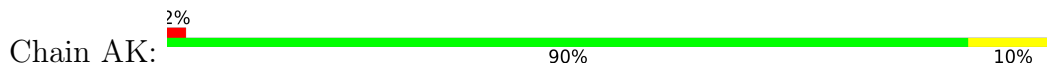


- Molecule 37: 60S ribosomal protein L36-A

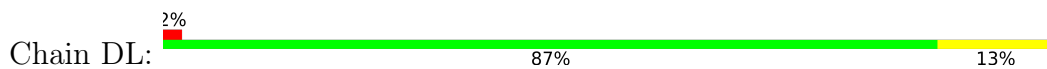




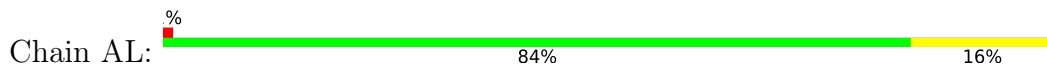
- Molecule 38: 60S ribosomal protein L37-A



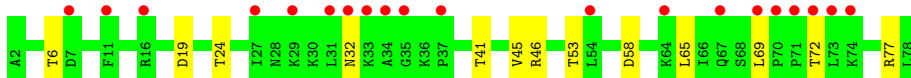
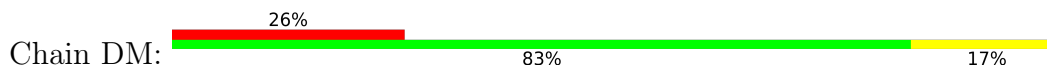
- Molecule 38: 60S ribosomal protein L37-A



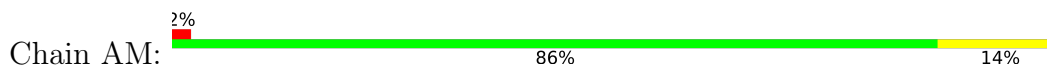
- Molecule 39: 60S ribosomal protein L38



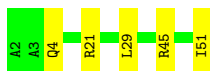
- Molecule 39: 60S ribosomal protein L38



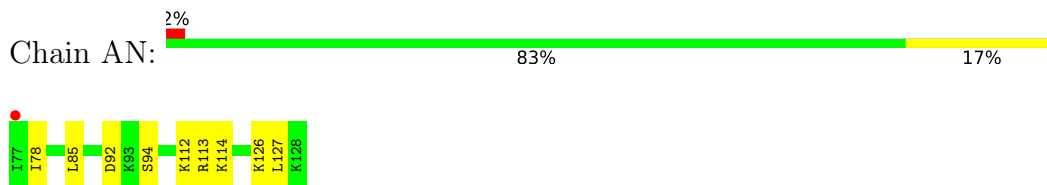
- Molecule 40: 60S ribosomal protein L39



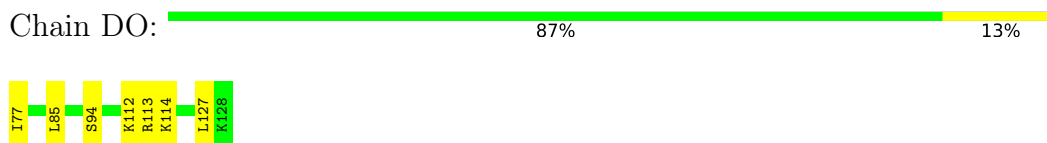
- Molecule 40: 60S ribosomal protein L39



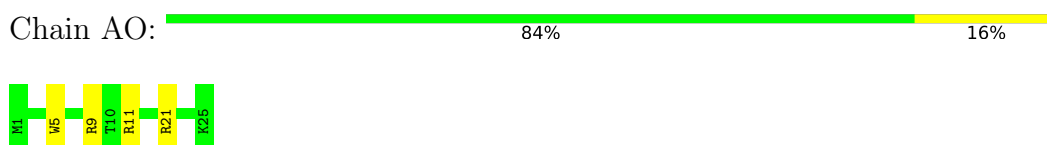
- Molecule 41: Ubiquitin-60S ribosomal protein L40



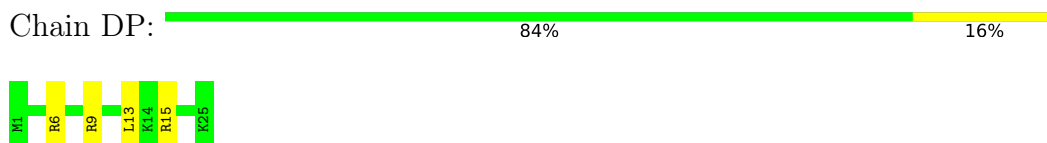
- Molecule 41: Ubiquitin-60S ribosomal protein L40



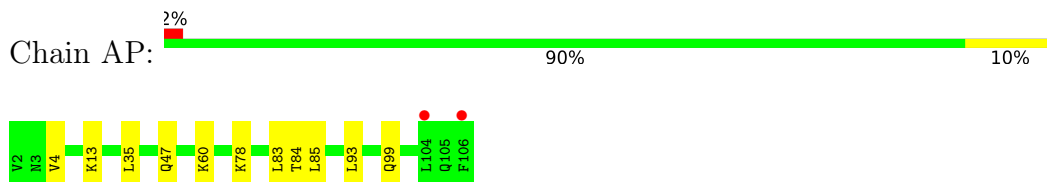
- Molecule 42: 60S ribosomal protein L41-A



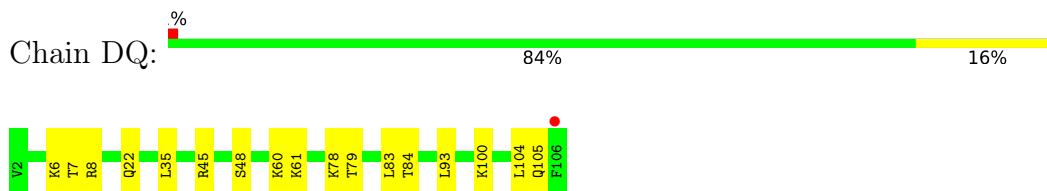
- Molecule 42: 60S ribosomal protein L41-A



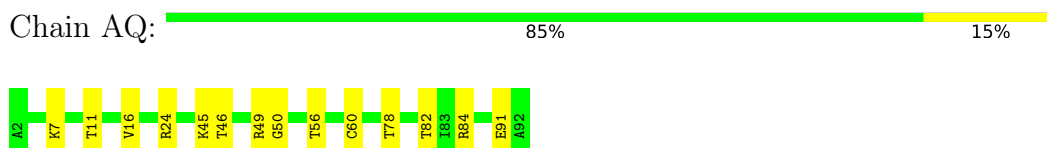
- Molecule 43: 60S ribosomal protein L42-A



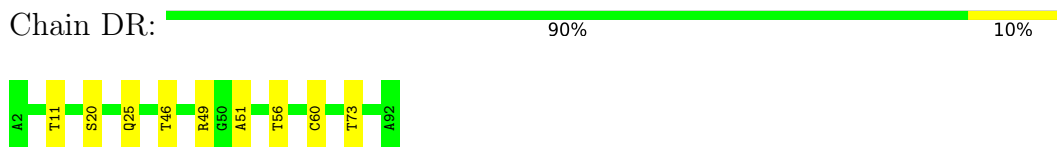
- Molecule 43: 60S ribosomal protein L42-A



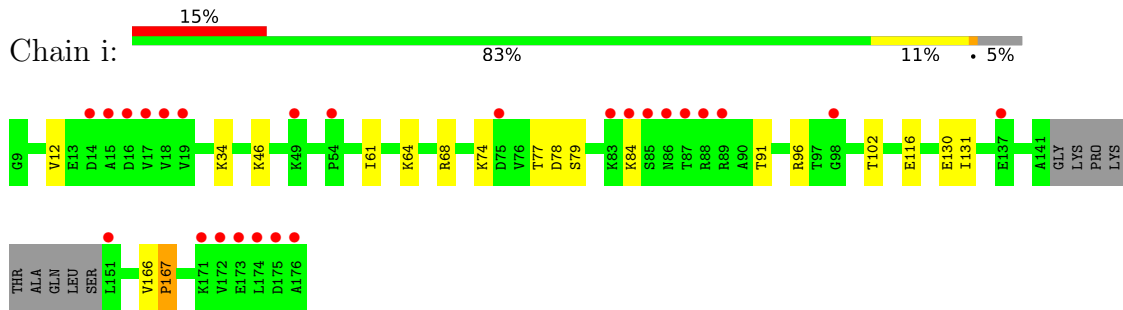
- Molecule 44: 60S ribosomal protein L43-A



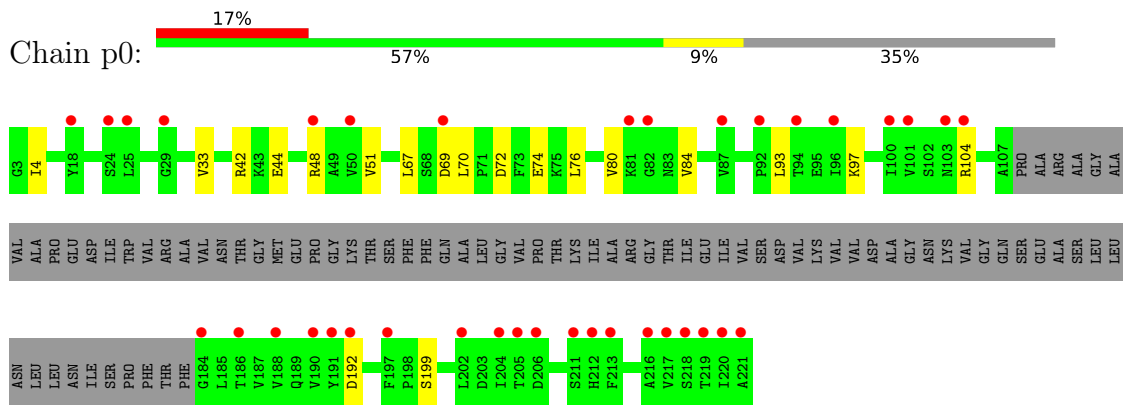
● Molecule 44: 60S ribosomal protein L43-A



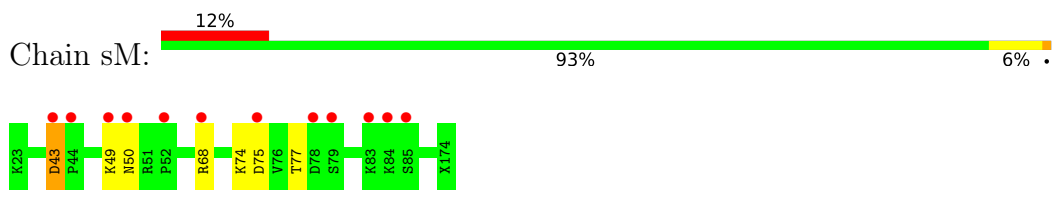
● Molecule 45: Suppressor protein STM1



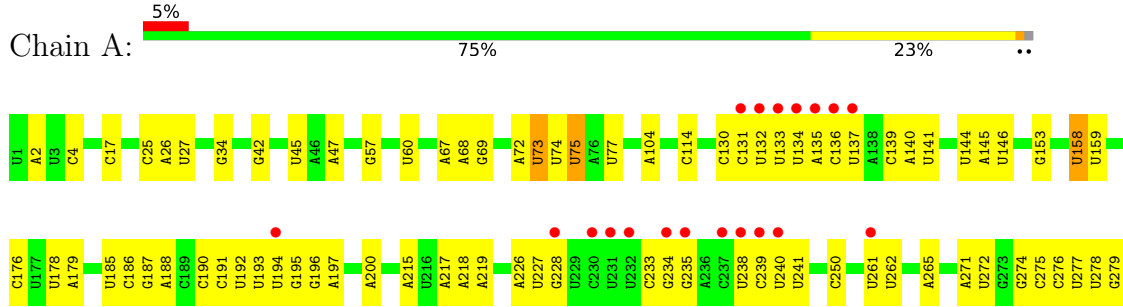
● Molecule 46: 60S acidic ribosomal protein P0



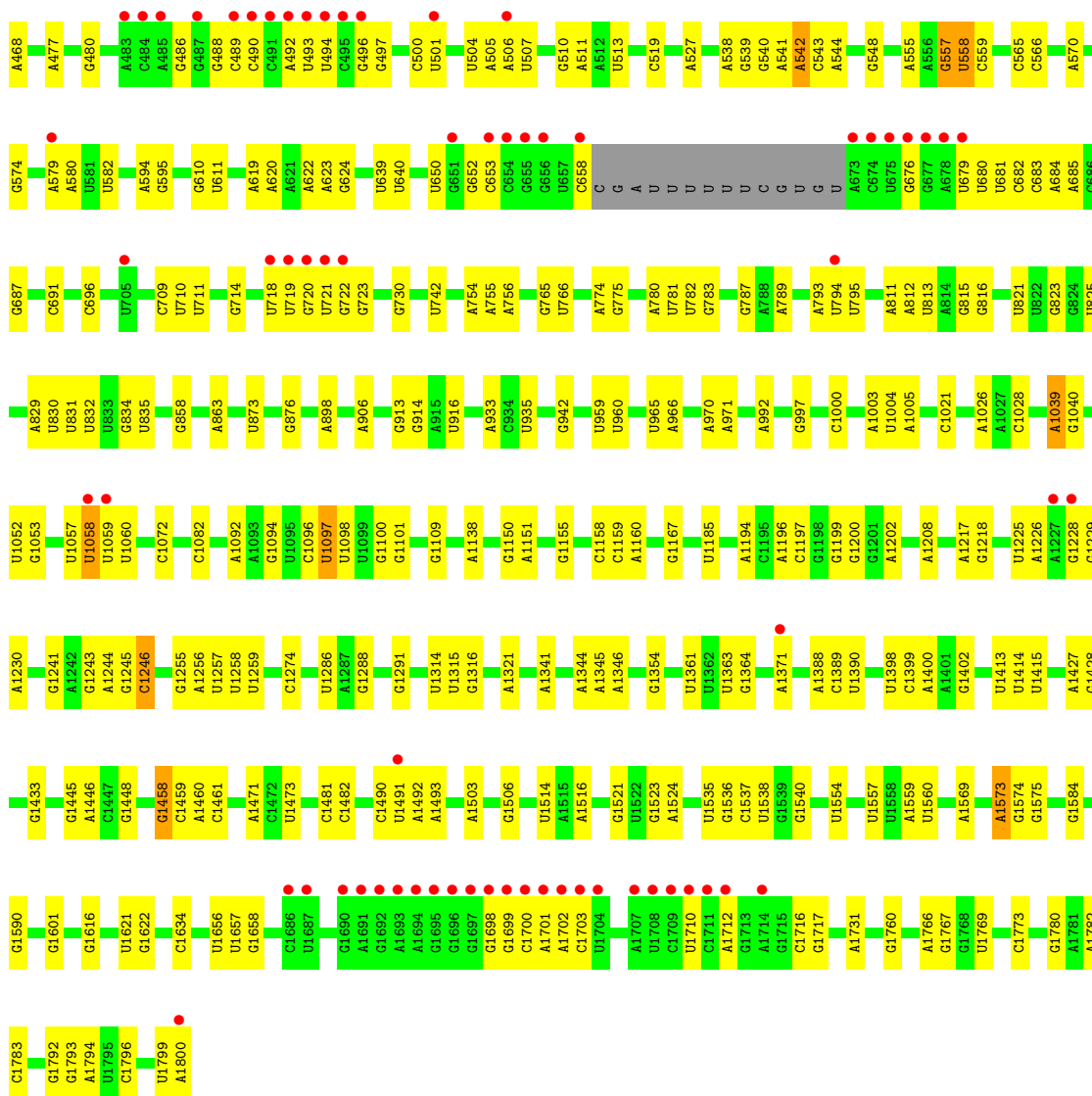
● Molecule 47: Suppressor protein STM1



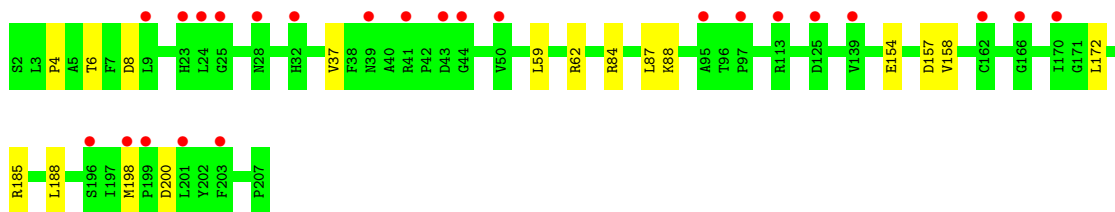
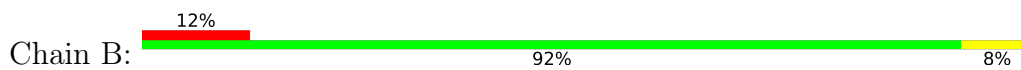
● Molecule 48: 18S ribosomal RNA



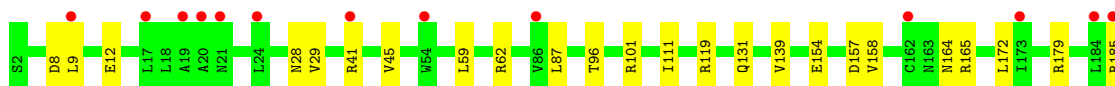
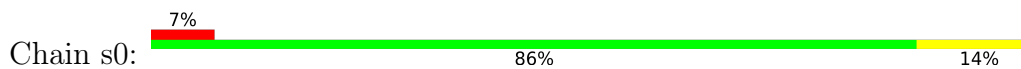




• Molecule 49: 40S ribosomal protein S0-A

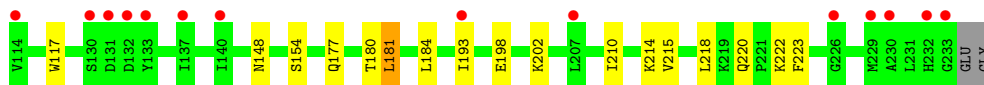
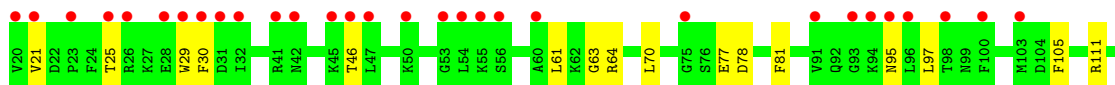
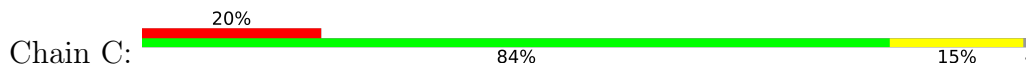


• Molecule 49: 40S ribosomal protein S0-A

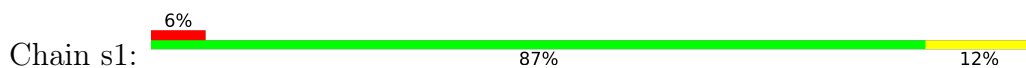




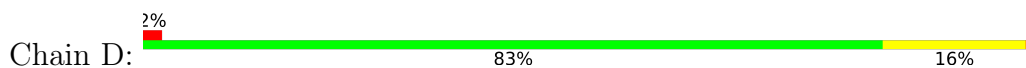
- Molecule 50: 40S ribosomal protein S1-A



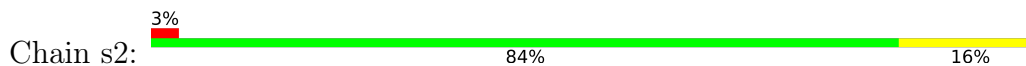
- Molecule 50: 40S ribosomal protein S1-A



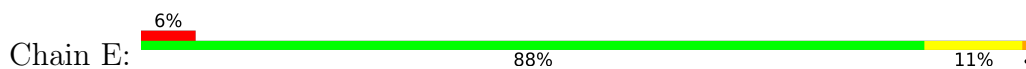
- Molecule 51: 40S ribosomal protein S2

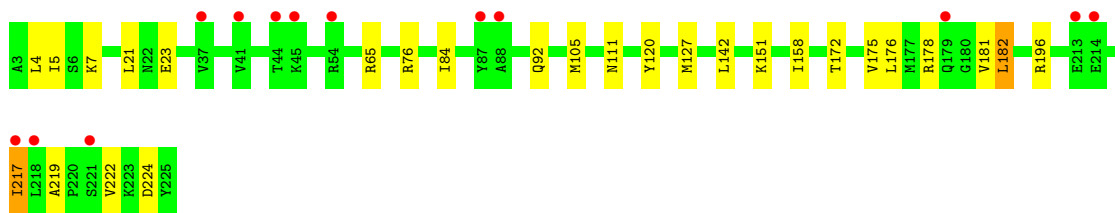


- Molecule 51: 40S ribosomal protein S2

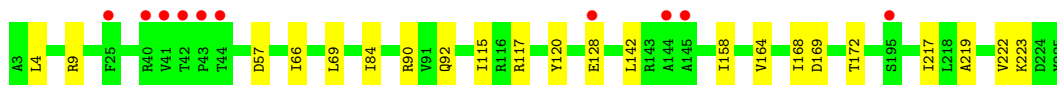
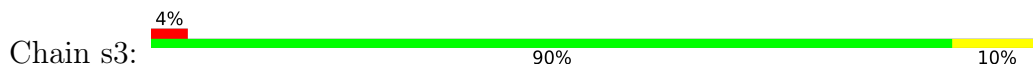


- Molecule 52: 40S ribosomal protein S3

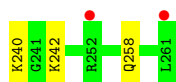
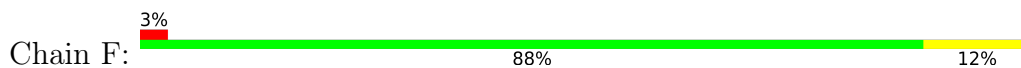




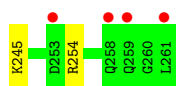
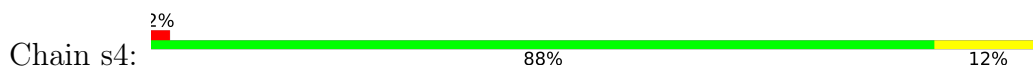
- Molecule 52: 40S ribosomal protein S3



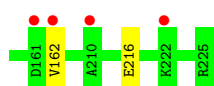
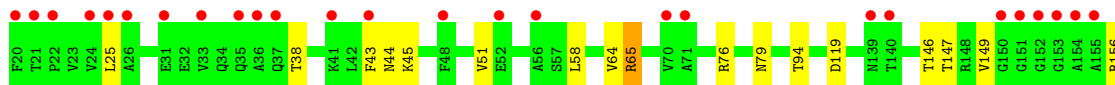
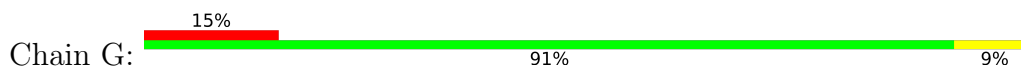
- Molecule 53: 40S ribosomal protein S4-A



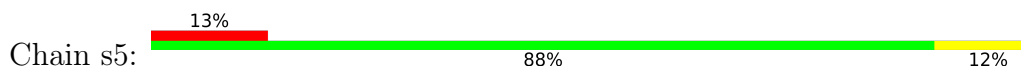
- Molecule 53: 40S ribosomal protein S4-A

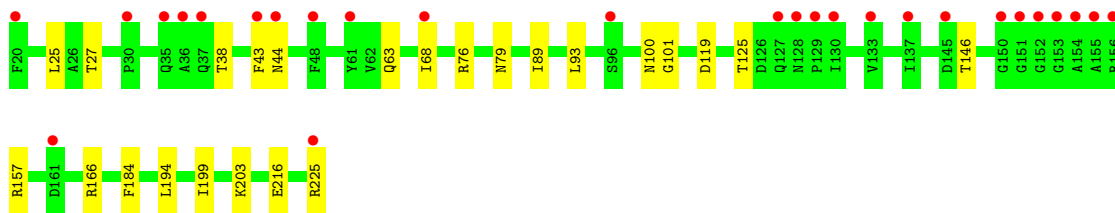


- Molecule 54: 40S ribosomal protein S5

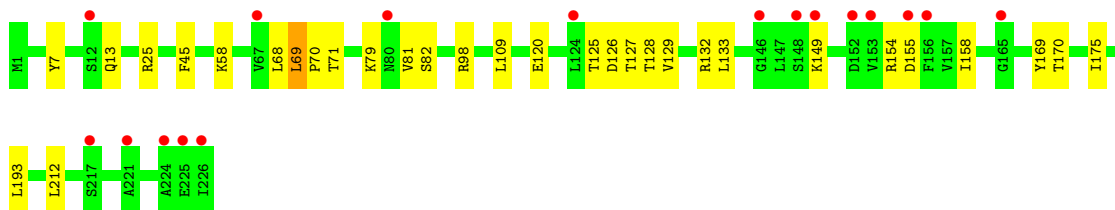
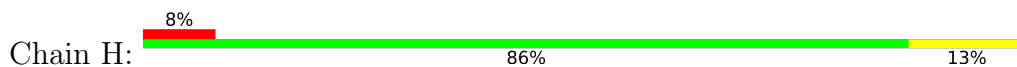


- Molecule 54: 40S ribosomal protein S5

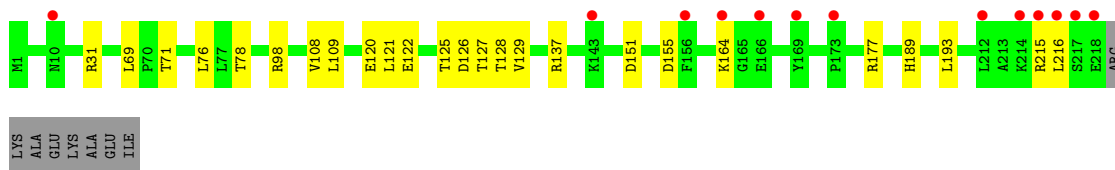
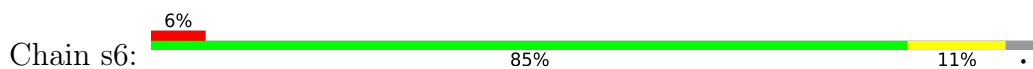




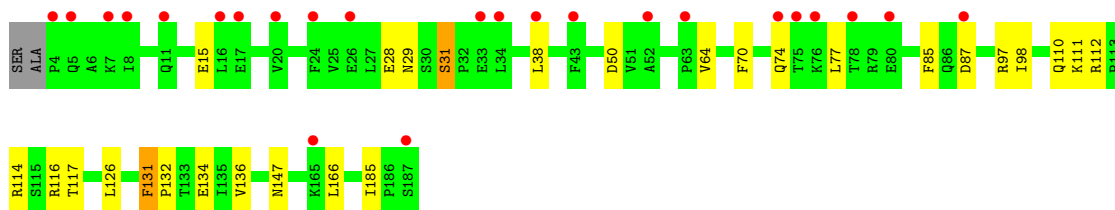
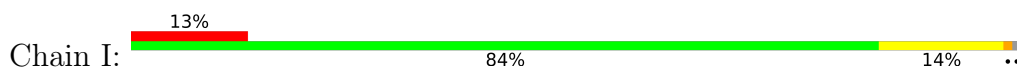
• Molecule 55: 40S ribosomal protein S6-A



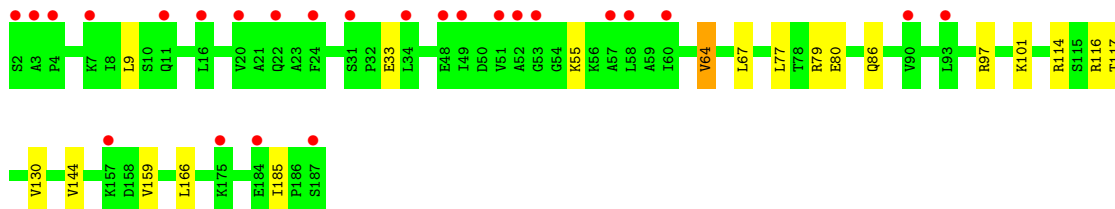
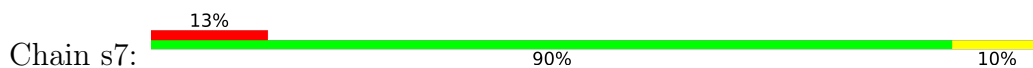
• Molecule 55: 40S ribosomal protein S6-A



• Molecule 56: 40S ribosomal protein S7-A

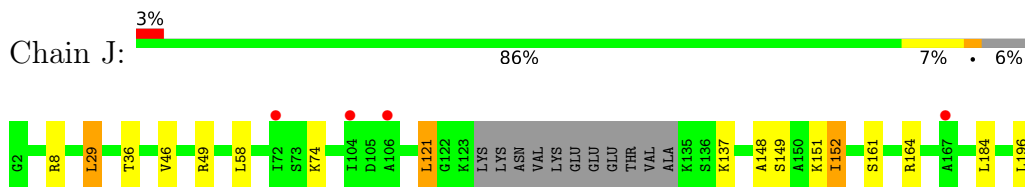


• Molecule 56: 40S ribosomal protein S7-A

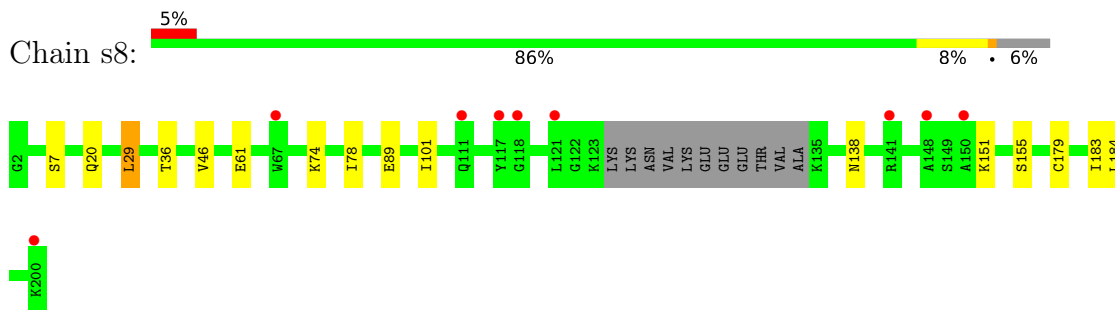




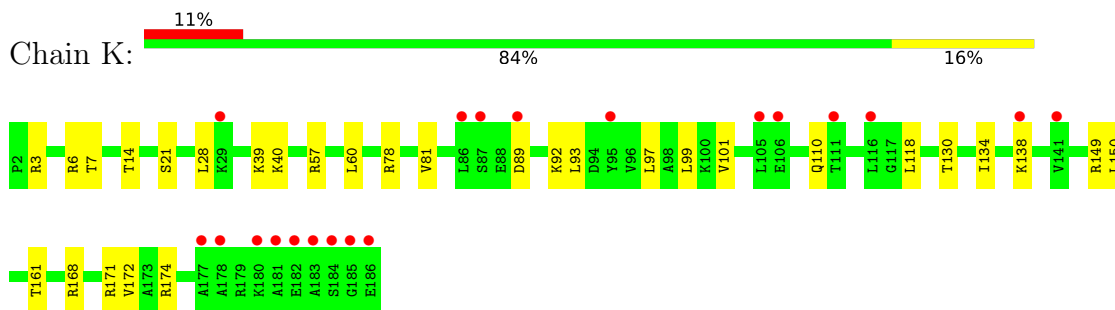
• Molecule 57: 40S ribosomal protein S8-A



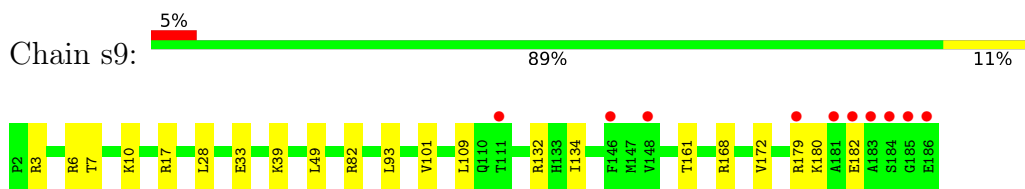
• Molecule 57: 40S ribosomal protein S8-A



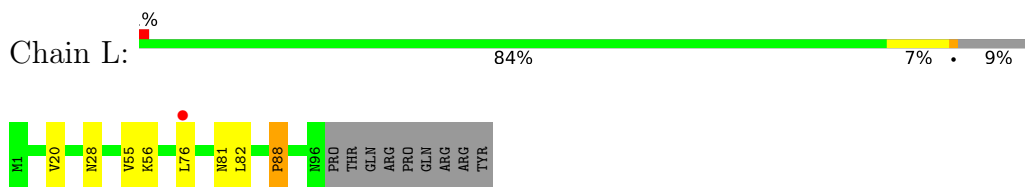
• Molecule 58: 40S ribosomal protein S9-A



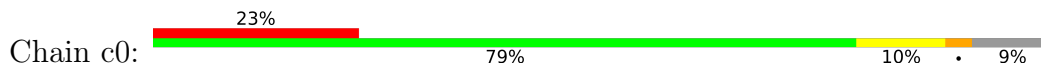
• Molecule 58: 40S ribosomal protein S9-A

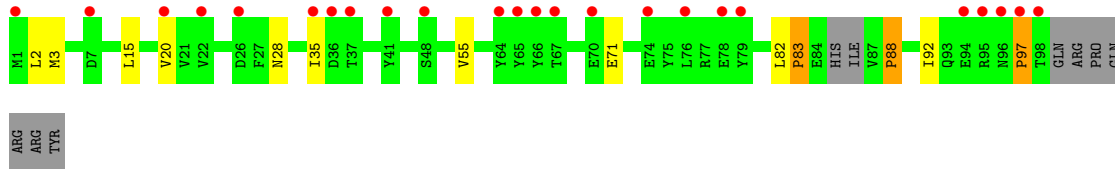


• Molecule 59: 40S ribosomal protein S10-A

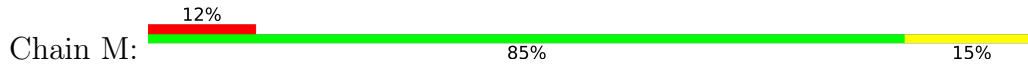


• Molecule 59: 40S ribosomal protein S10-A

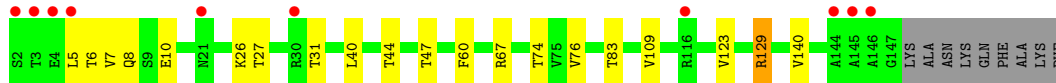
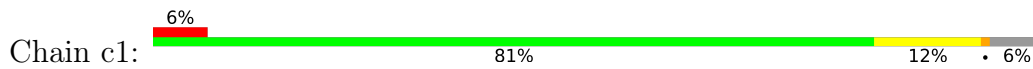




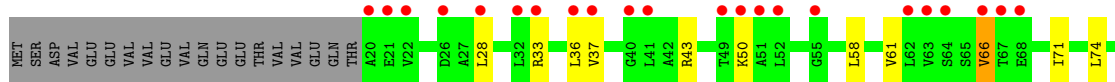
- Molecule 60: 40S ribosomal protein S11-A



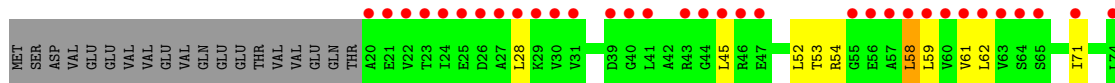
- Molecule 60: 40S ribosomal protein S11-A



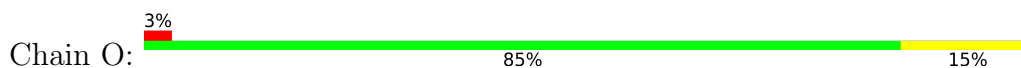
- Molecule 61: 40S ribosomal protein S12

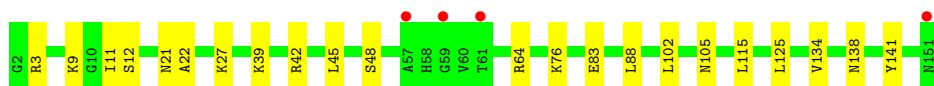


- Molecule 61: 40S ribosomal protein S12



- Molecule 62: 40S ribosomal protein S13





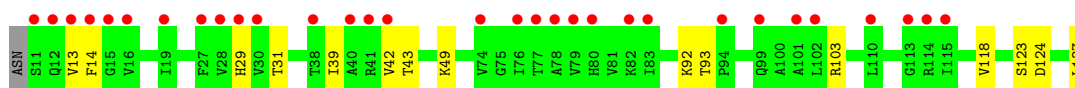
- Molecule 62: 40S ribosomal protein S13

Chain c3: 87% 12%



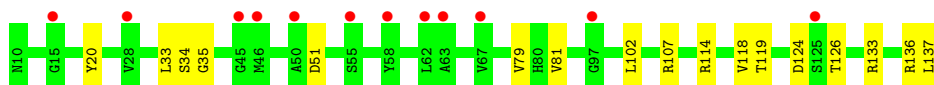
- Molecule 63: 40S ribosomal protein S14-B

Chain P: 24% 88% 12%



- Molecule 63: 40S ribosomal protein S14-B

Chain c4: 9% 87% 13%



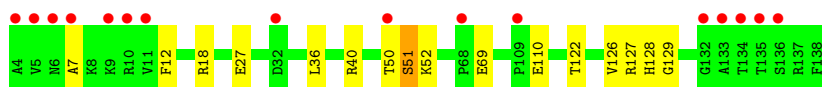
- Molecule 64: 40S ribosomal protein S15

Chain Q: 4% 79% 13% 8%



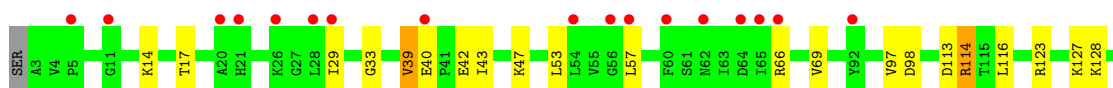
- Molecule 64: 40S ribosomal protein S15

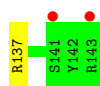
Chain c5: 12% 88% 11%



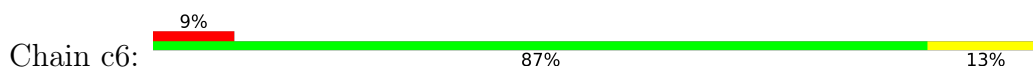
- Molecule 65: 40S ribosomal protein S16-A

Chain R: 13% 84% 14%

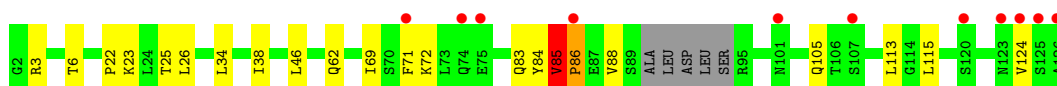
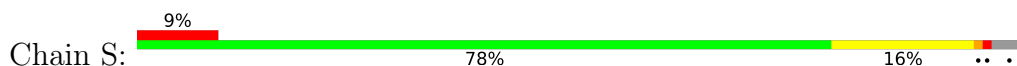




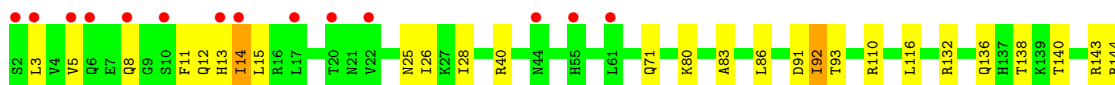
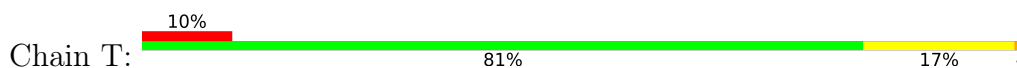
- Molecule 65: 40S ribosomal protein S16-A



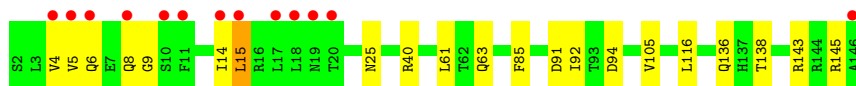
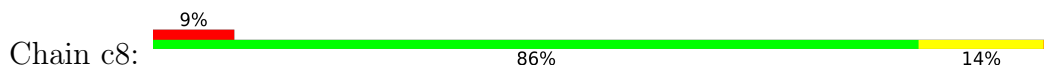
- Molecule 66: 40S ribosomal protein S17-A



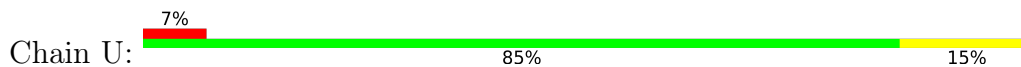
- Molecule 67: 40S ribosomal protein S18-A



- Molecule 67: 40S ribosomal protein S18-A



- Molecule 68: 40S ribosomal protein S19-A

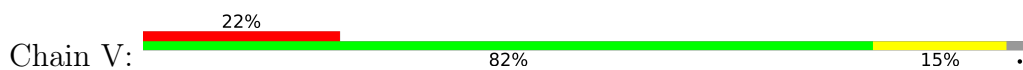


- Molecule 68: 40S ribosomal protein S19-A

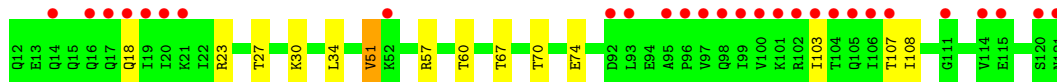
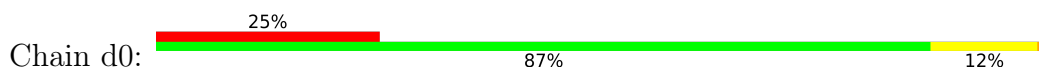




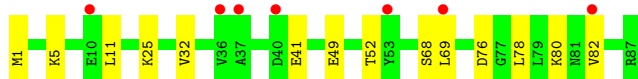
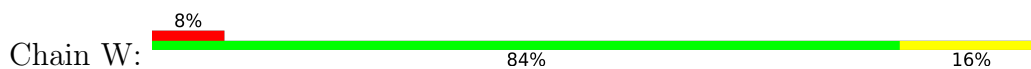
- Molecule 69: 40S ribosomal protein S20



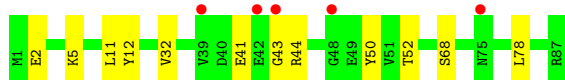
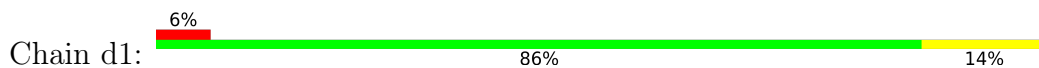
- Molecule 69: 40S ribosomal protein S20



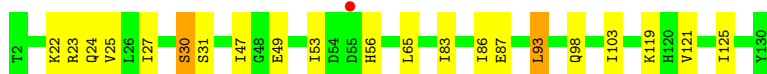
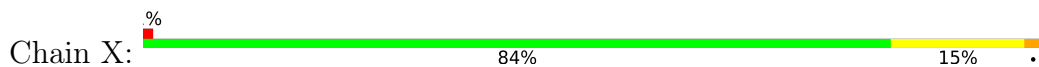
- Molecule 70: 40S ribosomal protein S21-A



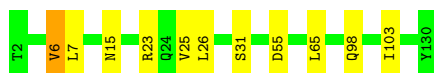
- Molecule 70: 40S ribosomal protein S21-A



- Molecule 71: 40S ribosomal protein S22-A



- Molecule 71: 40S ribosomal protein S22-A

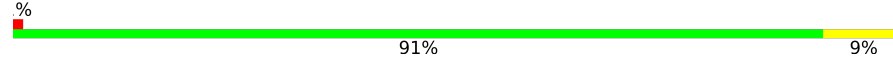


- Molecule 72: 40S ribosomal protein S23-A

Chain Y:  86% 14%




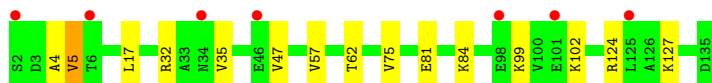
- Molecule 72: 40S ribosomal protein S23-A

Chain d3:  91% 9%

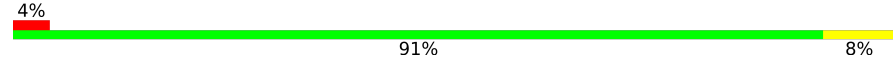


- Molecule 73: 40S ribosomal protein S24-A

Chain Z:  89% 10% 5%



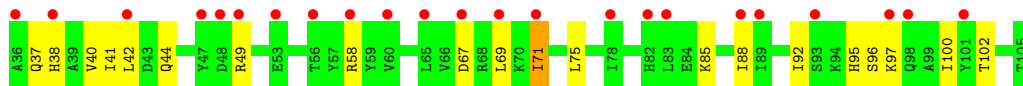
- Molecule 73: 40S ribosomal protein S24-A

Chain d4:  91% 8% 4%

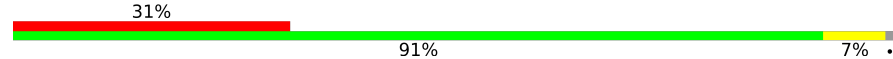


- Molecule 74: 40S ribosomal protein S25-A

Chain a:  71% 27% 33%




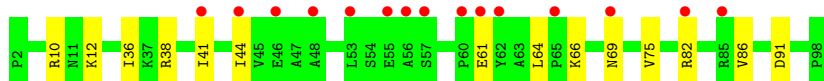
- Molecule 74: 40S ribosomal protein S25-A

Chain d5:  91% 7% 31%

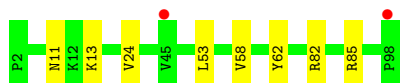


- Molecule 75: 40S ribosomal protein S26-B

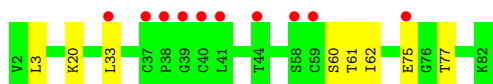
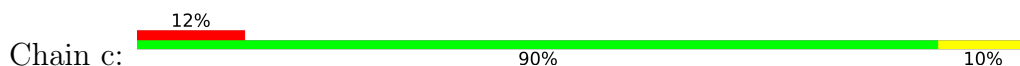
Chain b:  86% 14% 15%



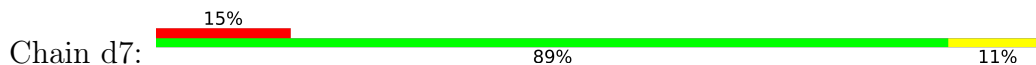
- Molecule 75: 40S ribosomal protein S26-B



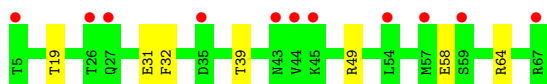
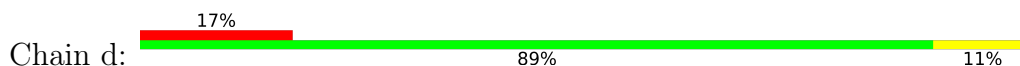
- Molecule 76: 40S ribosomal protein S27-A



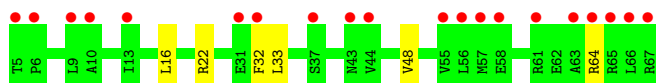
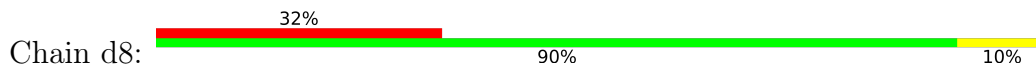
- Molecule 76: 40S ribosomal protein S27-A



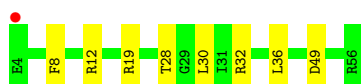
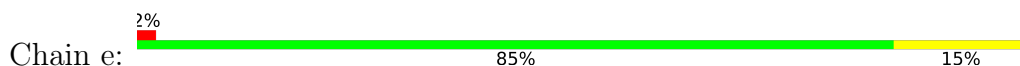
- Molecule 77: 40S ribosomal protein S28-A



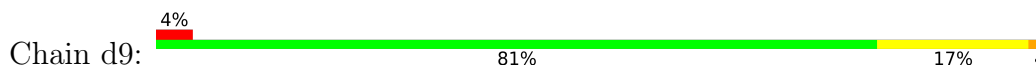
- Molecule 77: 40S ribosomal protein S28-A



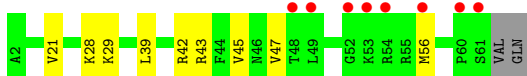
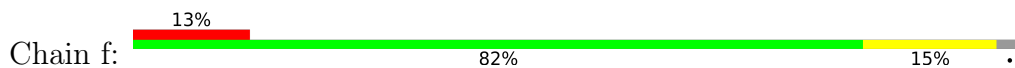
- Molecule 78: 40S ribosomal protein S29-A



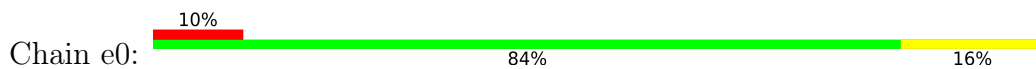
- Molecule 78: 40S ribosomal protein S29-A



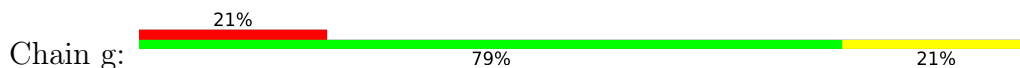
- Molecule 79: 40S ribosomal protein S30-A



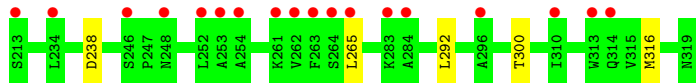
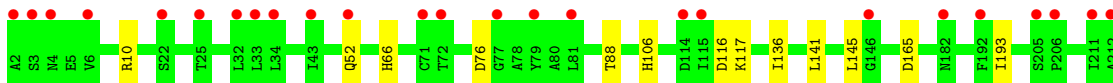
- Molecule 79: 40S ribosomal protein S30-A



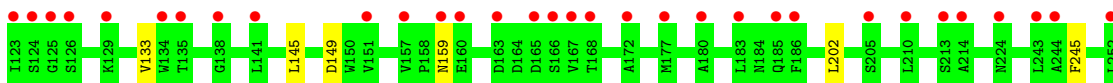
- Molecule 80: Ubiquitin-40S ribosomal protein S31



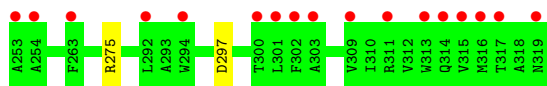
- Molecule 81: Guanine nucleotide-binding protein subunit beta-like protein



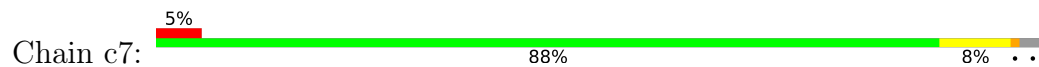
- Molecule 81: Guanine nucleotide-binding protein subunit beta-like protein



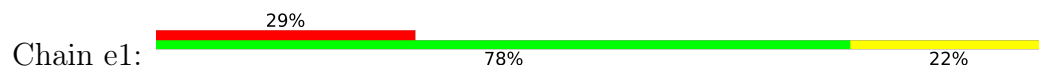




- Molecule 82: 40S ribosomal protein S17-A



- Molecule 83: Ubiquitin-40S ribosomal protein S31



## 4 Data and refinement statistics

| Property  | Value   | Source           |
|---|---|------------------|
| Space group   | P 1 21 1  | Depositor        |
| Cell constants<br>a, b, c, $\alpha$ , $\beta$ , $\gamma$                | 304.80Å 288.20Å 437.68Å<br>90.00° 98.71° 90.00°             | Depositor        |
| Resolution (Å)  | 99.86 – 3.00<br>99.86 – 3.00                                | Depositor<br>EDS |
| % Data completeness<br>(in resolution range)                            | 100.0 (99.86-3.00)<br>100.0 (99.86-3.00)                    | Depositor<br>EDS |
| $R_{merge}$   | 0.20  | Depositor        |
| $R_{sym}$   | (Not available)   | Depositor        |
| $\langle I/\sigma(I) \rangle$ <sup>1</sup>                              | 1.52 (at 3.01Å)   | Xtrriage         |
| Refinement program  | PHENIX  | Depositor        |
| R, $R_{free}$   | 0.194 , 0.227<br>0.196 , 0.228                              | Depositor<br>DCC |
| $R_{free}$ test set   | 29480 reflections (1.99%)                                   | wwPDB-VP         |
| Wilson B-factor (Å <sup>2</sup> )                                       | 62.3  | Xtrriage         |
| Anisotropy  | 0.296   | Xtrriage         |
| Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> ) | 0.30 , 63.7   | EDS              |
| L-test for twinning <sup>2</sup>  | $\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$ | Xtrriage         |
| Estimated twinning fraction   | No twinning to report.                                      | Xtrriage         |
| $F_o, F_c$ correlation  | 0.93  | EDS              |
| Total number of atoms   | 409612  | wwPDB-VP         |
| Average B, all atoms (Å <sup>2</sup> )                                  | 74.0  | wwPDB-VP         |

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

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

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

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 7AL, MG, ZN, OHX

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   | 1     | 0.54         | 0/75394 | 1.00        | 128/117545 (0.1%) |
| 1   | AR    | 0.54         | 0/75394 | 0.98        | 102/117545 (0.1%) |
| 2   | 3     | 0.47         | 0/2883  | 0.88        | 0/4491            |
| 2   | AS    | 0.52         | 0/2883  | 0.94        | 1/4491 (0.0%)     |
| 3   | 4     | 0.52         | 0/3746  | 0.96        | 1/5832 (0.0%)     |
| 3   | AT    | 0.46         | 0/3746  | 0.91        | 4/5832 (0.1%)     |
| 4   | CD    | 0.37         | 0/1948  | 0.60        | 0/2617            |
| 4   | j     | 0.41         | 0/1948  | 0.65        | 1/2617 (0.0%)     |
| 5   | CE    | 0.45         | 0/3146  | 0.66        | 1/4228 (0.0%)     |
| 5   | k     | 0.41         | 0/3146  | 0.63        | 0/4228            |
| 6   | CF    | 0.40         | 0/2800  | 0.67        | 2/3790 (0.1%)     |
| 6   | l     | 0.44         | 0/2800  | 0.70        | 3/3790 (0.1%)     |
| 7   | CG    | 0.39         | 0/2425  | 0.60        | 0/3271            |
| 7   | m     | 0.34         | 0/2425  | 0.54        | 0/3271            |
| 8   | CH    | 0.40         | 0/1260  | 0.58        | 0/1694            |
| 8   | n     | 0.40         | 0/1260  | 0.58        | 0/1694            |
| 9   | CI    | 0.43         | 0/1821  | 0.61        | 0/2451            |
| 9   | o     | 0.43         | 0/1821  | 0.63        | 1/2451 (0.0%)     |
| 10  | CJ    | 0.32         | 0/1836  | 0.54        | 1/2481 (0.0%)     |
| 10  | p     | 0.34         | 0/1836  | 0.58        | 0/2481            |
| 11  | CK    | 0.39         | 0/1539  | 0.58        | 0/2073            |
| 11  | q     | 0.38         | 0/1539  | 0.58        | 0/2073            |
| 12  | CL    | 0.40         | 0/1741  | 0.60        | 0/2335            |
| 12  | r     | 0.42         | 0/1741  | 0.64        | 1/2335 (0.0%)     |
| 13  | CM    | 0.39         | 0/1374  | 0.62        | 1/1842 (0.1%)     |
| 13  | s     | 0.33         | 0/1374  | 0.57        | 0/1842            |
| 14  | CN    | 0.39         | 0/1568  | 0.61        | 0/2106            |
| 14  | t     | 0.41         | 0/1568  | 0.64        | 0/2106            |
| 15  | CO    | 0.41         | 0/1068  | 0.60        | 0/1438            |
| 15  | u     | 0.39         | 0/1068  | 0.59        | 0/1438            |
| 16  | CP    | 0.39         | 0/1757  | 0.62        | 1/2354 (0.0%)     |
| 16  | v     | 0.44         | 0/1757  | 0.66        | 1/2354 (0.0%)     |

| Mol | Chain | Bond lengths |         | Bond angles |               |
|-----|-------|--------------|---------|-------------|---------------|
|     |       | RMSZ         | # Z  >5 | RMSZ        | # Z  >5       |
| 17  | CQ    | 0.53         | 0/1585  | 0.63        | 1/2128 (0.0%) |
| 17  | w     | 0.47         | 0/1585  | 0.61        | 0/2128        |
| 18  | CR    | 0.45         | 0/1443  | 0.66        | 0/1944        |
| 18  | x     | 0.43         | 0/1443  | 0.63        | 0/1944        |
| 19  | CS    | 0.41         | 0/1465  | 0.66        | 1/1965 (0.1%) |
| 19  | y     | 0.44         | 0/1465  | 0.67        | 0/1965        |
| 20  | CT    | 0.34         | 0/1538  | 0.55        | 0/2050        |
| 20  | z     | 0.33         | 0/1538  | 0.52        | 0/2050        |
| 21  | 0     | 0.40         | 0/1481  | 0.61        | 0/1990        |
| 21  | CU    | 0.42         | 0/1481  | 0.60        | 0/1990        |
| 22  | 2     | 0.40         | 0/1300  | 0.60        | 0/1743        |
| 22  | CV    | 0.43         | 0/1300  | 0.61        | 0/1743        |
| 23  | 5     | 0.29         | 0/812   | 0.49        | 0/1099        |
| 23  | CW    | 0.32         | 0/812   | 0.54        | 0/1099        |
| 24  | 6     | 0.42         | 0/1018  | 0.60        | 0/1369        |
| 24  | CX    | 0.44         | 0/1018  | 0.60        | 0/1369        |
| 25  | 7     | 0.35         | 0/712   | 0.51        | 0/958         |
| 25  | CY    | 0.37         | 0/712   | 0.60        | 0/958         |
| 26  | 8     | 0.34         | 0/979   | 0.59        | 0/1321        |
| 26  | CZ    | 0.36         | 0/979   | 0.60        | 1/1321 (0.1%) |
| 27  | 9     | 0.39         | 0/1004  | 0.67        | 1/1341 (0.1%) |
| 27  | DA    | 0.39         | 0/1004  | 0.62        | 0/1341        |
| 28  | AA    | 0.33         | 0/1118  | 0.52        | 0/1497        |
| 28  | DB    | 0.31         | 0/1118  | 0.54        | 0/1497        |
| 29  | AB    | 0.45         | 0/1204  | 0.70        | 1/1612 (0.1%) |
| 29  | DC    | 0.44         | 0/1204  | 0.65        | 0/1612        |
| 30  | AC    | 0.38         | 0/473   | 0.65        | 1/629 (0.2%)  |
| 30  | DD    | 0.38         | 0/473   | 0.60        | 0/629         |
| 31  | AD    | 0.31         | 0/751   | 0.52        | 0/1008        |
| 31  | DE    | 0.30         | 0/751   | 0.52        | 1/1008 (0.1%) |
| 32  | AE    | 0.35         | 0/890   | 0.57        | 0/1196        |
| 32  | DF    | 0.39         | 0/890   | 0.57        | 0/1196        |
| 33  | AF    | 0.43         | 0/1041  | 0.60        | 0/1394        |
| 33  | DG    | 0.42         | 0/1041  | 0.62        | 0/1394        |
| 34  | AG    | 0.48         | 0/868   | 0.62        | 0/1168        |
| 34  | DH    | 0.46         | 0/868   | 0.63        | 0/1168        |
| 35  | AH    | 0.37         | 0/890   | 0.60        | 0/1189        |
| 35  | DI    | 0.35         | 0/890   | 0.57        | 0/1189        |
| 36  | AI    | 0.39         | 0/978   | 0.57        | 0/1301        |
| 36  | DJ    | 0.34         | 0/978   | 0.50        | 1/1301 (0.1%) |
| 37  | AJ    | 0.37         | 0/778   | 0.59        | 0/1034        |
| 37  | DK    | 0.32         | 0/778   | 0.57        | 0/1034        |
| 38  | AK    | 0.49         | 0/696   | 0.71        | 0/923         |

| Mol | Chain | Bond lengths |         | Bond angles |                 |
|-----|-------|--------------|---------|-------------|-----------------|
|     |       | RMSZ         | # Z  >5 | RMSZ        | # Z  >5         |
| 38  | DL    | 0.41         | 0/696   | 0.65        | 0/923           |
| 39  | AL    | 0.33         | 0/618   | 0.51        | 0/826           |
| 39  | DM    | 0.30         | 0/618   | 0.52        | 0/826           |
| 40  | AM    | 0.42         | 0/443   | 0.67        | 0/588           |
| 40  | DN    | 0.35         | 0/443   | 0.63        | 0/588           |
| 41  | AN    | 0.44         | 0/423   | 0.65        | 0/562           |
| 41  | DO    | 0.44         | 0/423   | 0.66        | 0/562           |
| 42  | AO    | 0.36         | 0/234   | 0.57        | 0/300           |
| 42  | DP    | 0.37         | 0/234   | 0.56        | 0/300           |
| 43  | AP    | 0.42         | 0/860   | 0.64        | 0/1136          |
| 43  | DQ    | 0.43         | 0/860   | 0.65        | 0/1136          |
| 44  | AQ    | 0.40         | 0/701   | 0.64        | 1/934 (0.1%)    |
| 44  | DR    | 0.37         | 0/701   | 0.63        | 0/934           |
| 45  | i     | 0.33         | 0/1113  | 0.56        | 1/1502 (0.1%)   |
| 46  | p0    | 0.31         | 0/1092  | 0.54        | 0/1474          |
| 47  | sM    | 0.34         | 0/481   | 0.61        | 0/644           |
| 48  | A     | 0.36         | 0/42443 | 0.87        | 45/66134 (0.1%) |
| 48  | sR    | 0.40         | 0/42490 | 0.88        | 45/66207 (0.1%) |
| 49  | B     | 0.29         | 0/1617  | 0.57        | 0/2215          |
| 49  | s0    | 0.31         | 0/1623  | 0.55        | 0/2222          |
| 50  | C     | 0.29         | 0/1735  | 0.58        | 1/2335 (0.0%)   |
| 50  | s1    | 0.31         | 0/1748  | 0.59        | 1/2352 (0.0%)   |
| 51  | D     | 0.30         | 0/1665  | 0.54        | 0/2263          |
| 51  | s2    | 0.33         | 0/1665  | 0.60        | 0/2263          |
| 52  | E     | 0.29         | 0/1759  | 0.50        | 1/2368 (0.0%)   |
| 52  | s3    | 0.27         | 0/1759  | 0.47        | 0/2368          |
| 53  | F     | 0.32         | 0/2109  | 0.60        | 1/2839 (0.0%)   |
| 53  | s4    | 0.32         | 0/2109  | 0.60        | 0/2839          |
| 54  | G     | 0.27         | 0/1629  | 0.51        | 0/2202          |
| 54  | s5    | 0.28         | 0/1629  | 0.52        | 0/2202          |
| 55  | H     | 0.29         | 0/1823  | 0.50        | 0/2439          |
| 55  | s6    | 0.32         | 0/1779  | 0.52        | 0/2379          |
| 56  | I     | 0.31         | 0/1506  | 0.54        | 0/2028          |
| 56  | s7    | 0.31         | 0/1516  | 0.53        | 0/2043          |
| 57  | J     | 0.33         | 0/1514  | 0.62        | 2/2021 (0.1%)   |
| 57  | s8    | 0.34         | 0/1514  | 0.56        | 1/2021 (0.0%)   |
| 58  | K     | 0.30         | 0/1519  | 0.56        | 0/2035          |
| 58  | s9    | 0.31         | 0/1519  | 0.51        | 0/2035          |
| 59  | L     | 0.32         | 0/789   | 0.64        | 1/1067 (0.1%)   |
| 59  | c0    | 0.31         | 0/775   | 0.63        | 3/1045 (0.3%)   |
| 60  | M     | 0.37         | 0/1239  | 0.61        | 0/1673          |
| 60  | c1    | 0.35         | 0/1194  | 0.60        | 0/1610          |
| 61  | N     | 0.33         | 0/898   | 0.59        | 0/1220          |

| Mol | Chain | Bond lengths |          | Bond angles |                   |
|-----|-------|--------------|----------|-------------|-------------------|
|     |       | RMSZ         | # Z  >5  | RMSZ        | # Z  >5           |
| 61  | c2    | 0.26         | 0/898    | 0.57        | 1/1220 (0.1%)     |
| 62  | O     | 0.32         | 0/1215   | 0.52        | 0/1638            |
| 62  | c3    | 0.33         | 0/1215   | 0.55        | 0/1638            |
| 63  | P     | 0.29         | 0/901    | 0.59        | 0/1217            |
| 63  | c4    | 0.33         | 0/960    | 0.61        | 0/1290            |
| 64  | Q     | 0.31         | 0/998    | 0.56        | 0/1341            |
| 64  | c5    | 0.32         | 0/1060   | 0.58        | 0/1426            |
| 65  | R     | 0.29         | 0/1125   | 0.58        | 0/1510            |
| 65  | c6    | 0.30         | 0/1131   | 0.54        | 0/1518            |
| 66  | S     | 0.32         | 0/935    | 0.66        | 2/1254 (0.2%)     |
| 67  | T     | 0.31         | 0/1211   | 0.55        | 0/1628            |
| 67  | c8    | 0.30         | 0/1211   | 0.53        | 1/1628 (0.1%)     |
| 68  | U     | 0.29         | 0/1130   | 0.49        | 0/1517            |
| 68  | c9    | 0.29         | 0/1130   | 0.55        | 1/1517 (0.1%)     |
| 69  | V     | 0.29         | 0/865    | 0.54        | 0/1169            |
| 69  | d0    | 0.30         | 0/892    | 0.56        | 0/1205            |
| 70  | W     | 0.29         | 0/693    | 0.51        | 0/935             |
| 70  | d1    | 0.29         | 0/693    | 0.56        | 0/935             |
| 71  | X     | 0.31         | 0/1038   | 0.61        | 1/1395 (0.1%)     |
| 71  | d2    | 0.34         | 0/1038   | 0.57        | 0/1395            |
| 72  | Y     | 0.35         | 0/1139   | 0.60        | 0/1518            |
| 72  | d3    | 0.39         | 0/1139   | 0.58        | 0/1518            |
| 73  | Z     | 0.30         | 0/1087   | 0.49        | 0/1449            |
| 73  | d4    | 0.33         | 0/1087   | 0.58        | 0/1449            |
| 74  | a     | 0.29         | 0/571    | 0.64        | 0/768             |
| 74  | d5    | 0.27         | 0/566    | 0.47        | 0/761             |
| 75  | b     | 0.30         | 0/782    | 0.58        | 0/1047            |
| 75  | d6    | 0.33         | 0/782    | 0.55        | 0/1047            |
| 76  | c     | 0.27         | 0/620    | 0.52        | 0/838             |
| 76  | d7    | 0.30         | 0/620    | 0.57        | 0/838             |
| 77  | d     | 0.25         | 0/499    | 0.49        | 0/670             |
| 77  | d8    | 0.26         | 0/499    | 0.53        | 0/670             |
| 78  | d9    | 0.32         | 0/452    | 0.52        | 0/600             |
| 78  | e     | 0.37         | 0/452    | 0.61        | 0/600             |
| 79  | e0    | 0.32         | 0/499    | 0.60        | 0/665             |
| 79  | f     | 0.31         | 0/483    | 0.56        | 0/643             |
| 80  | g     | 0.39         | 0/577    | 0.76        | 0/770             |
| 81  | Rb    | 0.26         | 0/2495   | 0.47        | 0/3395            |
| 81  | h     | 0.26         | 0/2490   | 0.49        | 0/3389            |
| 82  | c7    | 0.29         | 0/914    | 0.50        | 0/1224            |
| 83  | e1    | 0.30         | 0/404    | 0.63        | 0/542             |
| All | All   | 0.44         | 0/429965 | 0.83        | 366/631328 (0.1%) |

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 |
|-----|-------|---------------------|---------------------|
| 6   | l     | 0                   | 1                   |
| 7   | CG    | 0                   | 2                   |
| 10  | p     | 0                   | 1                   |
| 12  | r     | 0                   | 1                   |
| 17  | CQ    | 0                   | 1                   |
| 17  | w     | 0                   | 1                   |
| 21  | 0     | 0                   | 1                   |
| 22  | 2     | 0                   | 1                   |
| 22  | CV    | 0                   | 1                   |
| 25  | CY    | 0                   | 1                   |
| 27  | 9     | 0                   | 1                   |
| 27  | DA    | 0                   | 1                   |
| 28  | AA    | 0                   | 1                   |
| 28  | DB    | 0                   | 1                   |
| 30  | AC    | 0                   | 1                   |
| 30  | DD    | 0                   | 1                   |
| 32  | DF    | 0                   | 1                   |
| 36  | DJ    | 0                   | 1                   |
| 39  | AL    | 0                   | 1                   |
| 44  | DR    | 0                   | 1                   |
| 51  | D     | 0                   | 1                   |
| 52  | E     | 0                   | 1                   |
| 52  | s3    | 0                   | 1                   |
| 53  | F     | 0                   | 1                   |
| 53  | s4    | 0                   | 1                   |
| 54  | G     | 0                   | 2                   |
| 54  | s5    | 0                   | 2                   |
| 55  | s6    | 0                   | 1                   |
| 56  | I     | 0                   | 3                   |
| 56  | s7    | 0                   | 2                   |
| 57  | J     | 0                   | 1                   |
| 61  | c2    | 0                   | 1                   |
| 63  | P     | 0                   | 1                   |
| 63  | c4    | 0                   | 1                   |
| 64  | Q     | 0                   | 1                   |
| 64  | c5    | 0                   | 2                   |
| 65  | R     | 0                   | 4                   |
| 65  | c6    | 0                   | 2                   |
| 66  | S     | 0                   | 3                   |

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| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 67  | T     | 0                   | 1                   |
| 70  | d1    | 0                   | 1                   |
| 72  | Y     | 0                   | 1                   |
| 73  | d4    | 0                   | 1                   |
| 75  | b     | 0                   | 1                   |
| 80  | g     | 0                   | 2                   |
| 83  | e1    | 0                   | 1                   |
| All | All   | 0                   | 60                  |

There are no bond length outliers.

The worst 5 of 366 bond angle outliers are listed below:

| Mol | Chain | Res  | Type | Atoms      | Z      | Observed(°) | Ideal(°) |
|-----|-------|------|------|------------|--------|-------------|----------|
| 1   | 1     | 1308 | A    | O5'-P-OP1  | -10.26 | 96.47       | 105.70   |
| 1   | 1     | 1307 | G    | P-O3'-C3'  | 10.16  | 131.89      | 119.70   |
| 1   | AR    | 3217 | C    | N1-C2-O2   | 9.74   | 124.75      | 118.90   |
| 1   | 1     | 406  | G    | O4'-C1'-N9 | 9.62   | 115.89      | 108.20   |
| 1   | 1     | 3278 | C    | N1-C2-O2   | 9.04   | 124.32      | 118.90   |

There are no chirality outliers.

5 of 60 planarity outliers are listed below:

| Mol | Chain | Res | Type | Group   |
|-----|-------|-----|------|---------|
| 21  | 0     | 133 | ALA  | Peptide |
| 6   | l     | 338 | LYS  | Peptide |
| 10  | p     | 30  | THR  | Peptide |
| 12  | r     | 188 | GLY  | Peptide |
| 17  | w     | 110 | PRO  | Peptide |

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

Due to software issues we are unable to calculate clashes - this section is therefore empty.

## 5.3 Torsion angles [i](#)

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

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



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

| Mol | Chain | Analysed       | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|----------------|-----------|----------|----------|-------------|-----|
| 4   | CD    | 250/252 (99%)  | 237 (95%) | 13 (5%)  | 0        | 100         | 100 |
| 4   | j     | 250/252 (99%)  | 235 (94%) | 15 (6%)  | 0        | 100         | 100 |
| 5   | CE    | 384/386 (100%) | 357 (93%) | 27 (7%)  | 0        | 100         | 100 |
| 5   | k     | 384/386 (100%) | 361 (94%) | 22 (6%)  | 1 (0%)   | 41          | 76  |
| 6   | CF    | 359/361 (99%)  | 333 (93%) | 25 (7%)  | 1 (0%)   | 41          | 76  |
| 6   | l     | 359/361 (99%)  | 334 (93%) | 23 (6%)  | 2 (1%)   | 25          | 64  |
| 7   | CG    | 294/296 (99%)  | 274 (93%) | 19 (6%)  | 1 (0%)   | 41          | 76  |
| 7   | m     | 294/296 (99%)  | 268 (91%) | 26 (9%)  | 0        | 100         | 100 |
| 8   | CH    | 152/175 (87%)  | 145 (95%) | 6 (4%)   | 1 (1%)   | 22          | 60  |
| 8   | n     | 152/175 (87%)  | 146 (96%) | 5 (3%)   | 1 (1%)   | 22          | 60  |
| 9   | CI    | 220/222 (99%)  | 207 (94%) | 11 (5%)  | 2 (1%)   | 17          | 55  |
| 9   | o     | 220/222 (99%)  | 208 (94%) | 9 (4%)   | 3 (1%)   | 11          | 43  |
| 10  | CJ    | 231/233 (99%)  | 208 (90%) | 21 (9%)  | 2 (1%)   | 17          | 55  |
| 10  | p     | 231/233 (99%)  | 210 (91%) | 18 (8%)  | 3 (1%)   | 12          | 45  |
| 11  | CK    | 189/191 (99%)  | 176 (93%) | 13 (7%)  | 0        | 100         | 100 |
| 11  | q     | 189/191 (99%)  | 176 (93%) | 12 (6%)  | 1 (0%)   | 29          | 68  |
| 12  | CL    | 207/220 (94%)  | 194 (94%) | 12 (6%)  | 1 (0%)   | 29          | 68  |
| 12  | r     | 207/220 (94%)  | 202 (98%) | 5 (2%)   | 0        | 100         | 100 |
| 13  | CM    | 167/169 (99%)  | 148 (89%) | 16 (10%) | 3 (2%)   | 8           | 37  |
| 13  | s     | 167/169 (99%)  | 149 (89%) | 17 (10%) | 1 (1%)   | 25          | 64  |
| 14  | CN    | 191/193 (99%)  | 175 (92%) | 13 (7%)  | 3 (2%)   | 9           | 40  |
| 14  | t     | 191/193 (99%)  | 174 (91%) | 14 (7%)  | 3 (2%)   | 9           | 40  |
| 15  | CO    | 134/136 (98%)  | 127 (95%) | 5 (4%)   | 2 (2%)   | 10          | 42  |
| 15  | u     | 134/136 (98%)  | 126 (94%) | 6 (4%)   | 2 (2%)   | 10          | 42  |
| 16  | CP    | 201/203 (99%)  | 193 (96%) | 8 (4%)   | 0        | 100         | 100 |
| 16  | v     | 201/203 (99%)  | 188 (94%) | 11 (6%)  | 2 (1%)   | 15          | 53  |
| 17  | CQ    | 195/197 (99%)  | 189 (97%) | 3 (2%)   | 3 (2%)   | 10          | 42  |
| 17  | w     | 195/197 (99%)  | 190 (97%) | 3 (2%)   | 2 (1%)   | 15          | 53  |
| 18  | CR    | 181/183 (99%)  | 167 (92%) | 13 (7%)  | 1 (1%)   | 25          | 64  |
| 18  | x     | 181/183 (99%)  | 172 (95%) | 8 (4%)   | 1 (1%)   | 25          | 64  |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 19  | CS    | 183/185 (99%) | 172 (94%) | 10 (6%)  | 1 (0%)   | 29          | 68  |
| 19  | y     | 183/185 (99%) | 174 (95%) | 8 (4%)   | 1 (0%)   | 29          | 68  |
| 20  | CT    | 186/188 (99%) | 172 (92%) | 13 (7%)  | 1 (0%)   | 29          | 68  |
| 20  | z     | 186/188 (99%) | 181 (97%) | 5 (3%)   | 0        | 100         | 100 |
| 21  | 0     | 170/172 (99%) | 159 (94%) | 10 (6%)  | 1 (1%)   | 25          | 64  |
| 21  | CU    | 170/172 (99%) | 163 (96%) | 6 (4%)   | 1 (1%)   | 25          | 64  |
| 22  | 2     | 157/159 (99%) | 147 (94%) | 9 (6%)   | 1 (1%)   | 25          | 64  |
| 22  | CV    | 157/159 (99%) | 148 (94%) | 8 (5%)   | 1 (1%)   | 25          | 64  |
| 23  | 5     | 98/100 (98%)  | 90 (92%)  | 7 (7%)   | 1 (1%)   | 15          | 53  |
| 23  | CW    | 98/100 (98%)  | 90 (92%)  | 7 (7%)   | 1 (1%)   | 15          | 53  |
| 24  | 6     | 134/136 (98%) | 133 (99%) | 1 (1%)   | 0        | 100         | 100 |
| 24  | CX    | 134/136 (98%) | 133 (99%) | 1 (1%)   | 0        | 100         | 100 |
| 25  | 7     | 96/98 (98%)   | 88 (92%)  | 7 (7%)   | 1 (1%)   | 15          | 53  |
| 25  | CY    | 96/98 (98%)   | 89 (93%)  | 5 (5%)   | 2 (2%)   | 7           | 33  |
| 26  | 8     | 119/121 (98%) | 114 (96%) | 5 (4%)   | 0        | 100         | 100 |
| 26  | CZ    | 119/121 (98%) | 112 (94%) | 7 (6%)   | 0        | 100         | 100 |
| 27  | 9     | 124/126 (98%) | 118 (95%) | 6 (5%)   | 0        | 100         | 100 |
| 27  | DA    | 124/126 (98%) | 121 (98%) | 3 (2%)   | 0        | 100         | 100 |
| 28  | AA    | 133/135 (98%) | 127 (96%) | 6 (4%)   | 0        | 100         | 100 |
| 28  | DB    | 133/135 (98%) | 121 (91%) | 10 (8%)  | 2 (2%)   | 10          | 42  |
| 29  | AB    | 146/148 (99%) | 127 (87%) | 17 (12%) | 2 (1%)   | 11          | 43  |
| 29  | DC    | 146/148 (99%) | 133 (91%) | 10 (7%)  | 3 (2%)   | 7           | 33  |
| 30  | AC    | 56/58 (97%)   | 52 (93%)  | 4 (7%)   | 0        | 100         | 100 |
| 30  | DD    | 56/58 (97%)   | 50 (89%)  | 6 (11%)  | 0        | 100         | 100 |
| 31  | AD    | 95/97 (98%)   | 93 (98%)  | 2 (2%)   | 0        | 100         | 100 |
| 31  | DE    | 95/97 (98%)   | 93 (98%)  | 2 (2%)   | 0        | 100         | 100 |
| 32  | AE    | 107/109 (98%) | 101 (94%) | 3 (3%)   | 3 (3%)   | 5           | 25  |
| 32  | DF    | 107/109 (98%) | 103 (96%) | 1 (1%)   | 3 (3%)   | 5           | 25  |
| 33  | AF    | 125/127 (98%) | 122 (98%) | 3 (2%)   | 0        | 100         | 100 |
| 33  | DG    | 125/127 (98%) | 123 (98%) | 2 (2%)   | 0        | 100         | 100 |
| 34  | AG    | 104/106 (98%) | 101 (97%) | 3 (3%)   | 0        | 100         | 100 |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 34  | DH    | 104/106 (98%) | 99 (95%)  | 5 (5%)   | 0        | 100         | 100 |
| 35  | AH    | 110/112 (98%) | 105 (96%) | 4 (4%)   | 1 (1%)   | 17          | 55  |
| 35  | DI    | 110/112 (98%) | 103 (94%) | 6 (6%)   | 1 (1%)   | 17          | 55  |
| 36  | AI    | 117/119 (98%) | 110 (94%) | 7 (6%)   | 0        | 100         | 100 |
| 36  | DJ    | 117/119 (98%) | 112 (96%) | 5 (4%)   | 0        | 100         | 100 |
| 37  | AJ    | 97/99 (98%)   | 88 (91%)  | 8 (8%)   | 1 (1%)   | 15          | 53  |
| 37  | DK    | 97/99 (98%)   | 86 (89%)  | 10 (10%) | 1 (1%)   | 15          | 53  |
| 38  | AK    | 85/87 (98%)   | 79 (93%)  | 6 (7%)   | 0        | 100         | 100 |
| 38  | DL    | 85/87 (98%)   | 79 (93%)  | 6 (7%)   | 0        | 100         | 100 |
| 39  | AL    | 75/77 (97%)   | 68 (91%)  | 7 (9%)   | 0        | 100         | 100 |
| 39  | DM    | 75/77 (97%)   | 69 (92%)  | 5 (7%)   | 1 (1%)   | 12          | 45  |
| 40  | AM    | 48/50 (96%)   | 45 (94%)  | 3 (6%)   | 0        | 100         | 100 |
| 40  | DN    | 48/50 (96%)   | 47 (98%)  | 1 (2%)   | 0        | 100         | 100 |
| 41  | AN    | 50/52 (96%)   | 46 (92%)  | 4 (8%)   | 0        | 100         | 100 |
| 41  | DO    | 50/52 (96%)   | 48 (96%)  | 2 (4%)   | 0        | 100         | 100 |
| 42  | AO    | 23/25 (92%)   | 22 (96%)  | 1 (4%)   | 0        | 100         | 100 |
| 42  | DP    | 23/25 (92%)   | 23 (100%) | 0        | 0        | 100         | 100 |
| 43  | AP    | 103/105 (98%) | 90 (87%)  | 12 (12%) | 1 (1%)   | 15          | 53  |
| 43  | DQ    | 103/105 (98%) | 90 (87%)  | 13 (13%) | 0        | 100         | 100 |
| 44  | AQ    | 89/91 (98%)   | 80 (90%)  | 9 (10%)  | 0        | 100         | 100 |
| 44  | DR    | 89/91 (98%)   | 81 (91%)  | 7 (8%)   | 1 (1%)   | 14          | 50  |
| 45  | i     | 155/168 (92%) | 131 (84%) | 21 (14%) | 3 (2%)   | 8           | 36  |
| 46  | p0    | 139/219 (64%) | 123 (88%) | 14 (10%) | 2 (1%)   | 11          | 43  |
| 47  | sM    | 61/104 (59%)  | 50 (82%)  | 10 (16%) | 1 (2%)   | 9           | 40  |
| 49  | B     | 204/206 (99%) | 177 (87%) | 25 (12%) | 2 (1%)   | 15          | 53  |
| 49  | s0    | 204/206 (99%) | 179 (88%) | 23 (11%) | 2 (1%)   | 15          | 53  |
| 50  | C     | 212/216 (98%) | 170 (80%) | 40 (19%) | 2 (1%)   | 17          | 55  |
| 50  | s1    | 214/216 (99%) | 193 (90%) | 21 (10%) | 0        | 100         | 100 |
| 51  | D     | 215/217 (99%) | 200 (93%) | 13 (6%)  | 2 (1%)   | 17          | 55  |
| 51  | s2    | 215/217 (99%) | 200 (93%) | 15 (7%)  | 0        | 100         | 100 |
| 52  | E     | 221/223 (99%) | 203 (92%) | 16 (7%)  | 2 (1%)   | 17          | 55  |

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| Mol | Chain | Analysed      | Favoured  | Allowed  | Outliers | Percentiles |     |
|-----|-------|---------------|-----------|----------|----------|-------------|-----|
| 52  | s3    | 221/223 (99%) | 199 (90%) | 20 (9%)  | 2 (1%)   | 17          | 55  |
| 53  | F     | 258/260 (99%) | 236 (92%) | 21 (8%)  | 1 (0%)   | 34          | 72  |
| 53  | s4    | 258/260 (99%) | 235 (91%) | 21 (8%)  | 2 (1%)   | 19          | 57  |
| 54  | G     | 204/206 (99%) | 180 (88%) | 21 (10%) | 3 (2%)   | 10          | 42  |
| 54  | s5    | 204/206 (99%) | 181 (89%) | 21 (10%) | 2 (1%)   | 15          | 53  |
| 55  | H     | 224/226 (99%) | 207 (92%) | 14 (6%)  | 3 (1%)   | 12          | 45  |
| 55  | s6    | 216/226 (96%) | 198 (92%) | 16 (7%)  | 2 (1%)   | 17          | 55  |
| 56  | I     | 182/186 (98%) | 158 (87%) | 18 (10%) | 6 (3%)   | 4           | 21  |
| 56  | s7    | 184/186 (99%) | 162 (88%) | 21 (11%) | 1 (0%)   | 29          | 68  |
| 57  | J     | 184/199 (92%) | 162 (88%) | 20 (11%) | 2 (1%)   | 14          | 50  |
| 57  | s8    | 184/199 (92%) | 168 (91%) | 14 (8%)  | 2 (1%)   | 14          | 50  |
| 58  | K     | 183/185 (99%) | 165 (90%) | 17 (9%)  | 1 (0%)   | 29          | 68  |
| 58  | s9    | 183/185 (99%) | 168 (92%) | 15 (8%)  | 0        | 100         | 100 |
| 59  | L     | 94/105 (90%)  | 77 (82%)  | 16 (17%) | 1 (1%)   | 14          | 50  |
| 59  | c0    | 92/105 (88%)  | 64 (70%)  | 21 (23%) | 7 (8%)   | 1           | 5   |
| 60  | M     | 153/155 (99%) | 135 (88%) | 15 (10%) | 3 (2%)   | 7           | 34  |
| 60  | c1    | 144/155 (93%) | 133 (92%) | 9 (6%)   | 2 (1%)   | 11          | 43  |
| 61  | N     | 122/143 (85%) | 88 (72%)  | 30 (25%) | 4 (3%)   | 4           | 21  |
| 61  | c2    | 122/143 (85%) | 94 (77%)  | 24 (20%) | 4 (3%)   | 4           | 21  |
| 62  | O     | 148/150 (99%) | 138 (93%) | 9 (6%)   | 1 (1%)   | 22          | 60  |
| 62  | c3    | 148/150 (99%) | 134 (90%) | 11 (7%)  | 3 (2%)   | 7           | 34  |
| 63  | P     | 125/128 (98%) | 112 (90%) | 11 (9%)  | 2 (2%)   | 9           | 40  |
| 63  | c4    | 126/128 (98%) | 113 (90%) | 11 (9%)  | 2 (2%)   | 9           | 40  |
| 64  | Q     | 122/135 (90%) | 107 (88%) | 12 (10%) | 3 (2%)   | 5           | 28  |
| 64  | c5    | 133/135 (98%) | 105 (79%) | 22 (16%) | 6 (4%)   | 2           | 14  |
| 65  | R     | 139/142 (98%) | 121 (87%) | 15 (11%) | 3 (2%)   | 6           | 31  |
| 65  | c6    | 140/142 (99%) | 132 (94%) | 7 (5%)   | 1 (1%)   | 22          | 60  |
| 66  | S     | 116/125 (93%) | 97 (84%)  | 15 (13%) | 4 (3%)   | 3           | 20  |
| 67  | T     | 143/145 (99%) | 124 (87%) | 15 (10%) | 4 (3%)   | 5           | 25  |
| 67  | c8    | 143/145 (99%) | 123 (86%) | 16 (11%) | 4 (3%)   | 5           | 25  |
| 68  | U     | 141/143 (99%) | 125 (89%) | 16 (11%) | 0        | 100         | 100 |

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| Mol | Chain | Analysed          | Favoured    | Allowed   | Outliers | Percentiles |     |
|-----|-------|-------------------|-------------|-----------|----------|-------------|-----|
| 68  | c9    | 141/143 (99%)     | 131 (93%)   | 8 (6%)    | 2 (1%)   | 11          | 43  |
| 69  | V     | 105/110 (96%)     | 93 (89%)    | 11 (10%)  | 1 (1%)   | 15          | 53  |
| 69  | d0    | 108/110 (98%)     | 92 (85%)    | 15 (14%)  | 1 (1%)   | 17          | 55  |
| 70  | W     | 85/87 (98%)       | 73 (86%)    | 11 (13%)  | 1 (1%)   | 13          | 48  |
| 70  | d1    | 85/87 (98%)       | 77 (91%)    | 8 (9%)    | 0        | 100         | 100 |
| 71  | X     | 127/129 (98%)     | 116 (91%)   | 8 (6%)    | 3 (2%)   | 6           | 29  |
| 71  | d2    | 127/129 (98%)     | 120 (94%)   | 6 (5%)    | 1 (1%)   | 19          | 57  |
| 72  | Y     | 142/144 (99%)     | 121 (85%)   | 20 (14%)  | 1 (1%)   | 22          | 60  |
| 72  | d3    | 142/144 (99%)     | 134 (94%)   | 8 (6%)    | 0        | 100         | 100 |
| 73  | Z     | 132/134 (98%)     | 121 (92%)   | 8 (6%)    | 3 (2%)   | 6           | 30  |
| 73  | d4    | 132/134 (98%)     | 120 (91%)   | 11 (8%)   | 1 (1%)   | 19          | 57  |
| 74  | a     | 68/70 (97%)       | 55 (81%)    | 9 (13%)   | 4 (6%)   | 1           | 9   |
| 74  | d5    | 67/70 (96%)       | 62 (92%)    | 4 (6%)    | 1 (2%)   | 10          | 42  |
| 75  | b     | 95/97 (98%)       | 71 (75%)    | 21 (22%)  | 3 (3%)   | 4           | 22  |
| 75  | d6    | 95/97 (98%)       | 78 (82%)    | 15 (16%)  | 2 (2%)   | 7           | 33  |
| 76  | c     | 79/81 (98%)       | 70 (89%)    | 8 (10%)   | 1 (1%)   | 12          | 45  |
| 76  | d7    | 79/81 (98%)       | 69 (87%)    | 8 (10%)   | 2 (2%)   | 5           | 28  |
| 77  | d     | 61/63 (97%)       | 55 (90%)    | 6 (10%)   | 0        | 100         | 100 |
| 77  | d8    | 61/63 (97%)       | 50 (82%)    | 11 (18%)  | 0        | 100         | 100 |
| 78  | d9    | 51/53 (96%)       | 44 (86%)    | 6 (12%)   | 1 (2%)   | 7           | 34  |
| 78  | e     | 51/53 (96%)       | 46 (90%)    | 5 (10%)   | 0        | 100         | 100 |
| 79  | e0    | 60/62 (97%)       | 52 (87%)    | 7 (12%)   | 1 (2%)   | 9           | 39  |
| 79  | f     | 58/62 (94%)       | 49 (84%)    | 7 (12%)   | 2 (3%)   | 3           | 20  |
| 80  | g     | 69/71 (97%)       | 44 (64%)    | 19 (28%)  | 6 (9%)   | 1           | 3   |
| 81  | Rb    | 316/318 (99%)     | 294 (93%)   | 22 (7%)   | 0        | 100         | 100 |
| 81  | h     | 316/318 (99%)     | 295 (93%)   | 21 (7%)   | 0        | 100         | 100 |
| 82  | c7    | 113/121 (93%)     | 101 (89%)   | 10 (9%)   | 2 (2%)   | 8           | 37  |
| 83  | e1    | 49/51 (96%)       | 37 (76%)    | 12 (24%)  | 0        | 100         | 100 |
| All | All   | 22260/22893 (97%) | 20326 (91%) | 1724 (8%) | 210 (1%) | 17          | 55  |

5 of 210 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 6   | l     | 339 | LEU  |
| 8   | n     | 98  | VAL  |
| 11  | q     | 50  | ASN  |
| 16  | v     | 75  | VAL  |
| 17  | w     | 111 | PRO  |

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

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

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

| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 4   | CD    | 193/194 (100%) | 165 (86%) | 28 (14%) | 3           | 15 |
| 4   | j     | 193/194 (100%) | 164 (85%) | 29 (15%) | 3           | 14 |
| 5   | CE    | 320/322 (99%)  | 269 (84%) | 51 (16%) | 2           | 12 |
| 5   | k     | 320/322 (99%)  | 266 (83%) | 54 (17%) | 2           | 11 |
| 6   | CF    | 288/288 (100%) | 249 (86%) | 39 (14%) | 4           | 17 |
| 6   | l     | 288/288 (100%) | 243 (84%) | 45 (16%) | 2           | 13 |
| 7   | CG    | 244/244 (100%) | 206 (84%) | 38 (16%) | 2           | 13 |
| 7   | m     | 244/244 (100%) | 207 (85%) | 37 (15%) | 3           | 14 |
| 8   | CH    | 134/152 (88%)  | 119 (89%) | 15 (11%) | 6           | 24 |
| 8   | n     | 134/152 (88%)  | 116 (87%) | 18 (13%) | 4           | 17 |
| 9   | CI    | 186/186 (100%) | 169 (91%) | 17 (9%)  | 9           | 34 |
| 9   | o     | 186/186 (100%) | 164 (88%) | 22 (12%) | 5           | 22 |
| 10  | CJ    | 187/191 (98%)  | 169 (90%) | 18 (10%) | 8           | 32 |
| 10  | p     | 187/191 (98%)  | 157 (84%) | 30 (16%) | 2           | 12 |
| 11  | CK    | 171/171 (100%) | 146 (85%) | 25 (15%) | 3           | 15 |
| 11  | q     | 171/171 (100%) | 145 (85%) | 26 (15%) | 3           | 14 |
| 12  | CL    | 177/186 (95%)  | 157 (89%) | 20 (11%) | 6           | 24 |
| 12  | r     | 177/186 (95%)  | 151 (85%) | 26 (15%) | 3           | 15 |
| 13  | CM    | 147/147 (100%) | 123 (84%) | 24 (16%) | 2           | 11 |
| 13  | s     | 147/147 (100%) | 122 (83%) | 25 (17%) | 2           | 10 |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 14  | CN    | 154/154 (100%) | 135 (88%) | 19 (12%) | 4           | 21 |
| 14  | t     | 154/154 (100%) | 130 (84%) | 24 (16%) | 2           | 13 |
| 15  | CO    | 107/107 (100%) | 96 (90%)  | 11 (10%) | 7           | 28 |
| 15  | u     | 107/107 (100%) | 92 (86%)  | 15 (14%) | 3           | 16 |
| 16  | CP    | 175/175 (100%) | 153 (87%) | 22 (13%) | 4           | 20 |
| 16  | v     | 175/175 (100%) | 156 (89%) | 19 (11%) | 6           | 25 |
| 17  | CQ    | 160/160 (100%) | 142 (89%) | 18 (11%) | 6           | 24 |
| 17  | w     | 160/160 (100%) | 143 (89%) | 17 (11%) | 6           | 26 |
| 18  | CR    | 140/145 (97%)  | 116 (83%) | 24 (17%) | 2           | 10 |
| 18  | x     | 140/145 (97%)  | 122 (87%) | 18 (13%) | 4           | 19 |
| 19  | CS    | 150/150 (100%) | 125 (83%) | 25 (17%) | 2           | 11 |
| 19  | y     | 150/150 (100%) | 125 (83%) | 25 (17%) | 2           | 11 |
| 20  | CT    | 153/153 (100%) | 125 (82%) | 28 (18%) | 1           | 9  |
| 20  | z     | 153/153 (100%) | 136 (89%) | 17 (11%) | 6           | 25 |
| 21  | 0     | 156/156 (100%) | 131 (84%) | 25 (16%) | 2           | 12 |
| 21  | CU    | 156/156 (100%) | 132 (85%) | 24 (15%) | 2           | 13 |
| 22  | 2     | 136/136 (100%) | 110 (81%) | 26 (19%) | 1           | 8  |
| 22  | CV    | 136/136 (100%) | 111 (82%) | 25 (18%) | 1           | 9  |
| 23  | 5     | 87/87 (100%)   | 77 (88%)  | 10 (12%) | 5           | 24 |
| 23  | CW    | 87/87 (100%)   | 76 (87%)  | 11 (13%) | 4           | 20 |
| 24  | 6     | 104/104 (100%) | 88 (85%)  | 16 (15%) | 2           | 13 |
| 24  | CX    | 104/104 (100%) | 91 (88%)  | 13 (12%) | 4           | 20 |
| 25  | 7     | 57/86 (66%)    | 51 (90%)  | 6 (10%)  | 7           | 27 |
| 25  | CY    | 57/86 (66%)    | 51 (90%)  | 6 (10%)  | 7           | 27 |
| 26  | 8     | 104/105 (99%)  | 87 (84%)  | 17 (16%) | 2           | 11 |
| 26  | CZ    | 104/105 (99%)  | 86 (83%)  | 18 (17%) | 2           | 10 |
| 27  | 9     | 109/109 (100%) | 90 (83%)  | 19 (17%) | 2           | 10 |
| 27  | DA    | 109/109 (100%) | 94 (86%)  | 15 (14%) | 3           | 17 |
| 28  | AA    | 115/115 (100%) | 98 (85%)  | 17 (15%) | 3           | 14 |
| 28  | DB    | 115/115 (100%) | 105 (91%) | 10 (9%)  | 10          | 37 |
| 29  | AB    | 118/118 (100%) | 98 (83%)  | 20 (17%) | 2           | 11 |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 29  | DC    | 118/118 (100%) | 102 (86%) | 16 (14%) | 3           | 17 |
| 30  | AC    | 46/46 (100%)   | 40 (87%)  | 6 (13%)  | 4           | 19 |
| 30  | DD    | 46/46 (100%)   | 39 (85%)  | 7 (15%)  | 3           | 14 |
| 31  | AD    | 81/81 (100%)   | 69 (85%)  | 12 (15%) | 3           | 14 |
| 31  | DE    | 81/81 (100%)   | 75 (93%)  | 6 (7%)   | 13          | 44 |
| 32  | AE    | 92/96 (96%)    | 79 (86%)  | 13 (14%) | 3           | 16 |
| 32  | DF    | 92/96 (96%)    | 74 (80%)  | 18 (20%) | 1           | 7  |
| 33  | AF    | 109/109 (100%) | 94 (86%)  | 15 (14%) | 3           | 17 |
| 33  | DG    | 109/109 (100%) | 98 (90%)  | 11 (10%) | 7           | 29 |
| 34  | AG    | 90/90 (100%)   | 84 (93%)  | 6 (7%)   | 16          | 49 |
| 34  | DH    | 90/90 (100%)   | 80 (89%)  | 10 (11%) | 6           | 25 |
| 35  | AH    | 95/95 (100%)   | 80 (84%)  | 15 (16%) | 2           | 12 |
| 35  | DI    | 95/95 (100%)   | 86 (90%)  | 9 (10%)  | 8           | 32 |
| 36  | AI    | 104/104 (100%) | 89 (86%)  | 15 (14%) | 3           | 15 |
| 36  | DJ    | 104/104 (100%) | 81 (78%)  | 23 (22%) | 1           | 4  |
| 37  | AJ    | 81/81 (100%)   | 66 (82%)  | 15 (18%) | 1           | 8  |
| 37  | DK    | 81/81 (100%)   | 65 (80%)  | 16 (20%) | 1           | 7  |
| 38  | AK    | 70/70 (100%)   | 61 (87%)  | 9 (13%)  | 4           | 19 |
| 38  | DL    | 70/70 (100%)   | 59 (84%)  | 11 (16%) | 2           | 13 |
| 39  | AL    | 68/68 (100%)   | 57 (84%)  | 11 (16%) | 2           | 12 |
| 39  | DM    | 68/68 (100%)   | 56 (82%)  | 12 (18%) | 2           | 10 |
| 40  | AM    | 45/45 (100%)   | 38 (84%)  | 7 (16%)  | 2           | 13 |
| 40  | DN    | 45/45 (100%)   | 40 (89%)  | 5 (11%)  | 6           | 25 |
| 41  | AN    | 47/47 (100%)   | 38 (81%)  | 9 (19%)  | 1           | 8  |
| 41  | DO    | 47/47 (100%)   | 40 (85%)  | 7 (15%)  | 3           | 14 |
| 42  | AO    | 23/23 (100%)   | 19 (83%)  | 4 (17%)  | 2           | 10 |
| 42  | DP    | 23/23 (100%)   | 19 (83%)  | 4 (17%)  | 2           | 10 |
| 43  | AP    | 90/90 (100%)   | 80 (89%)  | 10 (11%) | 6           | 25 |
| 43  | DQ    | 90/90 (100%)   | 73 (81%)  | 17 (19%) | 1           | 8  |
| 44  | AQ    | 71/71 (100%)   | 58 (82%)  | 13 (18%) | 1           | 9  |
| 44  | DR    | 71/71 (100%)   | 64 (90%)  | 7 (10%)  | 8           | 30 |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 45  | i     | 97/137 (71%)   | 81 (84%)  | 16 (16%) | 2           | 11 |
| 46  | p0    | 105/186 (56%)  | 88 (84%)  | 17 (16%) | 2           | 12 |
| 47  | sM    | 54/54 (100%)   | 47 (87%)  | 7 (13%)  | 4           | 19 |
| 49  | B     | 164/173 (95%)  | 149 (91%) | 15 (9%)  | 9           | 34 |
| 49  | s0    | 165/173 (95%)  | 139 (84%) | 26 (16%) | 2           | 12 |
| 50  | C     | 191/192 (100%) | 160 (84%) | 31 (16%) | 2           | 12 |
| 50  | s1    | 192/192 (100%) | 164 (85%) | 28 (15%) | 3           | 15 |
| 51  | D     | 176/176 (100%) | 140 (80%) | 36 (20%) | 1           | 6  |
| 51  | s2    | 176/176 (100%) | 141 (80%) | 35 (20%) | 1           | 7  |
| 52  | E     | 182/182 (100%) | 157 (86%) | 25 (14%) | 3           | 17 |
| 52  | s3    | 182/182 (100%) | 163 (90%) | 19 (10%) | 7           | 27 |
| 53  | F     | 221/221 (100%) | 194 (88%) | 27 (12%) | 5           | 21 |
| 53  | s4    | 221/221 (100%) | 191 (86%) | 30 (14%) | 3           | 17 |
| 54  | G     | 173/173 (100%) | 158 (91%) | 15 (9%)  | 10          | 37 |
| 54  | s5    | 173/173 (100%) | 153 (88%) | 20 (12%) | 5           | 23 |
| 55  | H     | 188/193 (97%)  | 159 (85%) | 29 (15%) | 2           | 13 |
| 55  | s6    | 187/193 (97%)  | 165 (88%) | 22 (12%) | 5           | 22 |
| 56  | I     | 165/166 (99%)  | 144 (87%) | 21 (13%) | 4           | 19 |
| 56  | s7    | 165/166 (99%)  | 148 (90%) | 17 (10%) | 7           | 28 |
| 57  | J     | 150/160 (94%)  | 135 (90%) | 15 (10%) | 7           | 29 |
| 57  | s8    | 150/160 (94%)  | 136 (91%) | 14 (9%)  | 9           | 33 |
| 58  | K     | 158/158 (100%) | 129 (82%) | 29 (18%) | 1           | 9  |
| 58  | s9    | 158/158 (100%) | 137 (87%) | 21 (13%) | 4           | 17 |
| 59  | L     | 77/98 (79%)    | 70 (91%)  | 7 (9%)   | 9           | 34 |
| 59  | c0    | 73/98 (74%)    | 67 (92%)  | 6 (8%)   | 11          | 39 |
| 60  | M     | 129/136 (95%)  | 108 (84%) | 21 (16%) | 2           | 11 |
| 60  | c1    | 129/136 (95%)  | 110 (85%) | 19 (15%) | 3           | 15 |
| 61  | N     | 88/119 (74%)   | 68 (77%)  | 20 (23%) | 1           | 4  |
| 61  | c2    | 88/119 (74%)   | 68 (77%)  | 20 (23%) | 1           | 4  |
| 62  | O     | 127/127 (100%) | 106 (84%) | 21 (16%) | 2           | 11 |
| 62  | c3    | 127/127 (100%) | 110 (87%) | 17 (13%) | 4           | 17 |

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| Mol | Chain | Analysed       | Rotameric | Outliers | Percentiles |    |
|-----|-------|----------------|-----------|----------|-------------|----|
| 63  | P     | 81/97 (84%)    | 69 (85%)  | 12 (15%) | 3           | 14 |
| 63  | c4    | 97/97 (100%)   | 83 (86%)  | 14 (14%) | 3           | 15 |
| 64  | Q     | 101/111 (91%)  | 86 (85%)  | 15 (15%) | 3           | 14 |
| 64  | c5    | 103/111 (93%)  | 94 (91%)  | 9 (9%)   | 10          | 37 |
| 65  | R     | 117/118 (99%)  | 100 (86%) | 17 (14%) | 3           | 15 |
| 65  | c6    | 118/118 (100%) | 102 (86%) | 16 (14%) | 3           | 17 |
| 66  | S     | 94/113 (83%)   | 77 (82%)  | 17 (18%) | 1           | 9  |
| 67  | T     | 128/128 (100%) | 104 (81%) | 24 (19%) | 1           | 8  |
| 67  | c8    | 128/128 (100%) | 111 (87%) | 17 (13%) | 4           | 17 |
| 68  | U     | 115/115 (100%) | 94 (82%)  | 21 (18%) | 1           | 9  |
| 68  | c9    | 115/115 (100%) | 105 (91%) | 10 (9%)  | 10          | 37 |
| 69  | V     | 100/103 (97%)  | 84 (84%)  | 16 (16%) | 2           | 12 |
| 69  | d0    | 103/103 (100%) | 89 (86%)  | 14 (14%) | 3           | 17 |
| 70  | W     | 74/74 (100%)   | 61 (82%)  | 13 (18%) | 2           | 10 |
| 70  | d1    | 74/74 (100%)   | 63 (85%)  | 11 (15%) | 3           | 14 |
| 71  | X     | 110/110 (100%) | 91 (83%)  | 19 (17%) | 2           | 10 |
| 71  | d2    | 110/110 (100%) | 99 (90%)  | 11 (10%) | 7           | 29 |
| 72  | Y     | 119/119 (100%) | 101 (85%) | 18 (15%) | 3           | 14 |
| 72  | d3    | 119/119 (100%) | 106 (89%) | 13 (11%) | 6           | 25 |
| 73  | Z     | 112/112 (100%) | 99 (88%)  | 13 (12%) | 5           | 23 |
| 73  | d4    | 112/112 (100%) | 101 (90%) | 11 (10%) | 8           | 30 |
| 74  | a     | 61/61 (100%)   | 44 (72%)  | 17 (28%) | 0           | 2  |
| 74  | d5    | 61/61 (100%)   | 57 (93%)  | 4 (7%)   | 16          | 49 |
| 75  | b     | 83/83 (100%)   | 73 (88%)  | 10 (12%) | 5           | 22 |
| 75  | d6    | 83/83 (100%)   | 77 (93%)  | 6 (7%)   | 14          | 45 |
| 76  | c     | 70/70 (100%)   | 63 (90%)  | 7 (10%)  | 7           | 29 |
| 76  | d7    | 70/70 (100%)   | 63 (90%)  | 7 (10%)  | 7           | 29 |
| 77  | d     | 56/56 (100%)   | 49 (88%)  | 7 (12%)  | 4           | 20 |
| 77  | d8    | 56/56 (100%)   | 50 (89%)  | 6 (11%)  | 6           | 26 |
| 78  | d9    | 47/47 (100%)   | 37 (79%)  | 10 (21%) | 1           | 5  |
| 78  | e     | 47/47 (100%)   | 39 (83%)  | 8 (17%)  | 2           | 10 |

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| Mol | Chain | Analysed          | Rotameric   | Outliers   | Percentiles |    |
|-----|-------|-------------------|-------------|------------|-------------|----|
| 79  | e0    | 53/53 (100%)      | 44 (83%)    | 9 (17%)    | 2           | 10 |
| 79  | f     | 51/53 (96%)       | 44 (86%)    | 7 (14%)    | 3           | 17 |
| 80  | g     | 62/62 (100%)      | 55 (89%)    | 7 (11%)    | 6           | 24 |
| 81  | Rb    | 260/261 (100%)    | 243 (94%)   | 17 (6%)    | 17          | 50 |
| 81  | h     | 259/261 (99%)     | 241 (93%)   | 18 (7%)    | 15          | 48 |
| 82  | c7    | 92/110 (84%)      | 82 (89%)    | 10 (11%)   | 6           | 25 |
| 83  | e1    | 43/43 (100%)      | 33 (77%)    | 10 (23%)   | 1           | 4  |
| All | All   | 18683/19203 (97%) | 16080 (86%) | 2603 (14%) | 3           | 16 |

5 of 2603 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 64  | Q     | 26  | LEU  |
| 55  | s6    | 129 | VAL  |
| 67  | T     | 25  | ASN  |
| 64  | Q     | 11  | VAL  |
| 80  | g     | 91  | ILE  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 28 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 58  | K     | 110 | GLN  |
| 56  | s7    | 71  | HIS  |
| 67  | T     | 25  | ASN  |
| 49  | s0    | 32  | HIS  |
| 66  | S     | 105 | GLN  |

### 5.3.3 RNA [i](#)

| Mol | Chain | Analysed        | Backbone Outliers | Pucker Outliers |
|-----|-------|-----------------|-------------------|-----------------|
| 1   | 1     | 3145/3149 (99%) | 550 (17%)         | 62 (1%)         |
| 1   | AR    | 3145/3149 (99%) | 548 (17%)         | 63 (2%)         |
| 2   | 3     | 120/121 (99%)   | 14 (11%)          | 1 (0%)          |
| 2   | AS    | 120/121 (99%)   | 14 (11%)          | 1 (0%)          |
| 3   | 4     | 157/158 (99%)   | 31 (19%)          | 3 (1%)          |
| 3   | AT    | 157/158 (99%)   | 30 (19%)          | 3 (1%)          |
| 48  | A     | 1778/1800 (98%) | 417 (23%)         | 50 (2%)         |

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| Mol | Chain | Analysed          | Backbone Outliers | Pucker Outliers |
|-----|-------|-------------------|-------------------|-----------------|
| 48  | sR    | 1780/1800 (98%)   | 372 (20%)         | 0               |
| All | All   | 10402/10456 (99%) | 1976 (18%)        | 183 (1%)        |

5 of 1976 RNA backbone outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | 1     | 26  | A    |
| 1   | 1     | 40  | A    |
| 1   | 1     | 49  | A    |
| 1   | 1     | 59  | G    |
| 1   | 1     | 60  | A    |

5 of 183 RNA pucker outliers are listed below:

| Mol | Chain | Res  | Type |
|-----|-------|------|------|
| 1   | AR    | 2801 | A    |
| 48  | A     | 240  | U    |
| 1   | AR    | 3121 | U    |
| 3   | AT    | 82   | U    |
| 48  | A     | 503  | G    |

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 2486 ligands modelled in this entry, 1 is modelled with single atom and 1410 are monoatomic - leaving 1075 for Mogul analysis.

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

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3480 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3525 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3599 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3491 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3659 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1990 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3725 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3559 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1910 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | v     | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3549 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3578 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3640 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3689 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3532 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 210  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3628 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1995 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3690 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1939 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3416 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3526 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3574 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3455 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3557 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3473 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3446 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3512 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3588 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3423 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1902 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3667 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3606 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3657 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2020 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3451 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3734 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | e     | 101  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2032 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3648 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2014 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3482 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2042 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3603 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3617 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3569 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1981 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2048 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1989 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3506 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3700 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3570 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3416 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2047 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3559 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3716 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1941 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3683 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3670 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1912 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1958 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1972 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3610 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 213  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1987 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3607 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3498 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1966 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 212  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3561 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2020 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3508 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3454 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3740 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3570 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3686 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3444 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2023 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1905 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3456 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1974 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3568 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3402 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3620 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3721 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3677 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3702 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1922 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 210  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3501 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3703 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3704 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3431 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3682 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3710 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3573 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3631 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3654 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1957 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3720 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1949 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1971 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3691 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3518 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 215  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3499 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3411 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3655 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 203  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3688 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2011 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3524 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3575 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1956 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1985 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3672 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3519 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3455 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3647 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1959 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3637 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 205  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3691 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1935 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 206  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2018 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3694 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3402 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3600 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3533 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CE    | 401  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3419 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3583 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3409 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3555 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2032 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2033 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AG    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3459 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3491 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3635 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3726 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AC    | 101  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1926 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | c5    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1965 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3507 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2040 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1977 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3453 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 208  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3448 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3437 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1960 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3457 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1932 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3662 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1946 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3463 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | J     | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1928 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1997 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3461 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3583 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1973 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3464 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1955 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3535 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3510 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3610 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3526 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3449 | -    | 0,6,6        | -    | -        | -           |      |          |



| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3579 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3612 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3493 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3538 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3728 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1945 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1970 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3667 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1937 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2010 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2033 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3637 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3537 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1916 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3653 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3409 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2037 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3721 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3428 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3401 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1996 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3561 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1920 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1923 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3501 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3560 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3704 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3573 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1931 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3531 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1940 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3629 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3479 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3689 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3685 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3621 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1925 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2046 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3529 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3592 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3414 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3499 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3718 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3540 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3563 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3634 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 211  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3684 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3572 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3666 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3711 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3467 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1964 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3534 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3418 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3697 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3541 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3622 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3604 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3698 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 203  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1975 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3611 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3420 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3520 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3575 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3707 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3451 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3695 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1917 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3582 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | x     | 202  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1915 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3554 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 214  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3548 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CG    | 303  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3588 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3616 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 204  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3682 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1969 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3483 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3609 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 208  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2009 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3493 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3406 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CX    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 209  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1925 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3530 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3457 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3471 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3652 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1930 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3674 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3414 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3601 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 218  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2027 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3641 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3642 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3698 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 211  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3546 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1956 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1931 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 206  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1939 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3553 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3538 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 202  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3522 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3632 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CG    | 302  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1902 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3550 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3487 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3442 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3438 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1973 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3452 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1993 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3422 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1955 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2050 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3494 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1959 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | A     | 2003 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3428 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3638 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3439 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3523 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3503 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3537 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3433 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3615 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 206  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3515 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3630 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 202  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3551 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3636 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3465 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3594 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3720 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3739 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1985 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3522 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1903 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3661 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3717 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3486 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3629 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3479 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3744 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3685 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3449 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1994 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3536 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3676 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3619 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3407 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3592 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3475 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3590 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3519 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | y     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3585 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1928 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | l     | 401  | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | AR    | 3664 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3543 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2016 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2011 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2003 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2010 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3426 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3633 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3430 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3521 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3565 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3567 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1999 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3517 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3497 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3421 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3656 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3693 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1996 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1978 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 206  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2025 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3654 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3554 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1946 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1958 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1974 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1988 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3458 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3515 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3548 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 202  | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3545 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3680 | -    | 0,6,6        | -    | -        | -           |      |          |
| 86  | 7AL  | AR    | 4246 | -    | 28,28,28     | 0.37 | 0        | 35,45,45    | 0.36 | 0        |
| 84  | OHX  | sR    | 1963 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3687 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1908 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3421 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2022 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3468 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1957 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3484 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | A     | 1937 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3713 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2028 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3492 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3641 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3725 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3405 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3664 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3612 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 208  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3446 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3496 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3597 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3530 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2036 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3593 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3738 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3540 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1936 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3410 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3436 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3497 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3553 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3434 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3465 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3638 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3709 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1927 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3595 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 207  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1998 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3448 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3542 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 216  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1979 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3406 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3438 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2009 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | H     | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3551 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3419 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3636 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1919 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | 1     | 3512 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3605 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3635 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 214  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3602 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3673 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3681 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3442 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3653 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3730 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3475 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3560 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2012 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3645 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3593 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3618 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CP    | 501  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3470 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3488 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3401 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3477 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1911 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3498 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1910 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1907 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 215  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2007 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3580 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3494 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3520 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3656 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3703 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2044 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3480 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2013 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1906 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3587 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1989 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2008 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3433 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3669 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3686 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1913 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 1930 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3727 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3578 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3620 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2029 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1934 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1963 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3476 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1903 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3607 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3470 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1943 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3711 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1929 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3407 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3723 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1924 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | d4    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3639 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3468 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1916 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1994 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2049 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1969 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3604 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3403 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1987 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3714 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3695 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3589 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3440 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3574 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3678 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2000 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3443 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3569 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 204  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | x     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3576 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3644 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3660 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1998 | 48   | 0,6,6        | -    | -        | -           |      |          |



| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | A     | 2000 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3665 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3606 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 202  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3508 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3550 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3601 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1979 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1976 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1968 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3640 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3648 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3435 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3408 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3671 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3735 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CV    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | c3    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3544 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3675 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2005 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1967 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2035 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1964 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2039 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3613 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1920 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3651 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1921 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3427 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3605 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3514 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3564 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3597 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3616 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3630 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1947 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2038 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3437 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3745 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1983 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3681 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3594 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | AR    | 3456 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2043 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1948 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3422 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3568 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | z     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3513 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3596 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3541 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3464 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3645 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3603 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3556 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3642 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3705 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3673 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2015 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3581 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3650 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | DD    | 102  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2024 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | DH    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3461 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3679 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2027 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1984 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2001 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2002 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | M     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3525 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2019 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3472 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3571 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3518 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1941 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3426 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1944 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2051 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1918 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3565 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3460 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2036 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 86  | 7AL  | 1     | 4210 | -    | 28,28,28     | 0.38 | 0        | 35,45,45    | 0.68 | 1 (2%)   |
| 84  | OHX  | AR    | 3539 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1978 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3517 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3688 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3450 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3723 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3708 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3474 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 4     | 207  | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3567 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3476 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3528 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1962 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3694 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3706 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3580 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1905 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 2004 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1977 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3459 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3608 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3429 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3492 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3562 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3405 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3436 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3722 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3590 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3709 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3423 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1912 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3503 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1927 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1953 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1914 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3617 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3511 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3736 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | CM    | 201  | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3644 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1950 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1954 | -    | 0,6,6        | -    | -        | -           | -    | -        |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 2013 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1943 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3668 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3732 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1921 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1940 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2012 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2017 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2026 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3729 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3579 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3450 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 204  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | DQ    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1951 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3417 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3663 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3410 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1962 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3513 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3652 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1942 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3701 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 207  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3563 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2034 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1972 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3546 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3413 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3542 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1950 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3557 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1908 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CF    | 401  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | O     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3478 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1909 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1913 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3531 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1904 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | d9    | 101  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3556 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3679 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 1924 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3488 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1986 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | s4    | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 213  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3589 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3631 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1967 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3502 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3624 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3587 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2008 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2039 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3625 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1932 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3514 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3523 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3454 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AP    | 502  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3614 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3716 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 207  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2042 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3586 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3477 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3507 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3655 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2041 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1970 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3528 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3622 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1926 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CE    | 402  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2038 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3439 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3581 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3463 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3715 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1942 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3543 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3415 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3625 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3584 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 2040 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1952 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3577 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1982 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3742 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1923 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2005 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3717 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | r     | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3533 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2006 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3447 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3435 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3582 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2021 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CX    | 202  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1935 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3547 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3432 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2015 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 205  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2021 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3614 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1936 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3453 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3462 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3662 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3500 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3715 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3683 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3474 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3549 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 204  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1995 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3626 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1976 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3444 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2018 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3586 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3489 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | Rb    | 401  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1982 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3627 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | AR    | 3441 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3702 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3432 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3726 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | c8    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3608 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3660 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1999 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3675 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3547 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3676 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1947 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1933 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3524 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1975 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2022 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3496 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CL    | 302  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3545 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3408 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3731 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1909 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1944 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3687 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3478 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3485 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3511 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1986 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2031 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3746 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1914 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 212  | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3509 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3413 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3713 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3502 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3596 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3624 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3699 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3733 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3404 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3462 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3504 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | AT    | 203  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2034 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3619 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1981 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1951 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3621 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2004 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3495 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3591 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3633 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3701 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3418 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3572 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3555 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3585 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3521 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3697 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1961 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3696 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1919 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2024 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1952 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3651 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3719 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3632 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3427 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3646 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1953 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AK    | 103  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3598 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3460 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3707 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3615 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2007 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3529 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3445 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 211  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3481 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3680 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3659 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1938 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3628 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3613 | -    | 0,6,6        | -    | -        | -           |      |          |



| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 2002 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3434 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1980 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3712 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | k     | 401  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3708 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3699 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3728 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3558 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3643 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3534 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3425 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3506 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3700 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3618 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3500 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3490 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3420 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3706 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3674 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3429 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3692 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3566 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | T     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3412 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1933 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1992 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1915 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3415 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3584 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CO    | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2035 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3741 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3527 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3452 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3417 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 205  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 3     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3727 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1929 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3483 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3646 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2030 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | A     | 2014 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2030 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1901 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2025 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1991 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3595 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3445 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3668 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3509 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3424 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3481 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1991 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3558 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3552 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3505 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3690 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3665 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | s8    | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1949 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3527 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2041 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2045 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3487 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CG    | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3466 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3724 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3669 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3495 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3536 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3602 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CL    | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1990 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3516 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3692 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3441 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1960 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3576 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | v     | 302  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1961 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1980 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1984 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3649 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3431 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 1992 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1918 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1901 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1948 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3469 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3710 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3671 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3647 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1965 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3719 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3609 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1954 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1945 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3714 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3598 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 2052 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3599 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1938 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 2017 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1904 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3678 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | CK    | 201  | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 4     | 209  | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3482 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 3     | 205  | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3623 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3471 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3649 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3458 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3505 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3696 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3504 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3712 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1922 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3532 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1971 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1906 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | A     | 1934 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3484 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3472 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | AR    | 3626 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | 1     | 3411 | -    | 0,6,6        | -    | -        | -           | -    | -        |
| 84  | OHX  | sR    | 1988 | -    | 0,6,6        | -    | -        | -           | -    | -        |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | sR    | 2029 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3412 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1983 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3490 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3591 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3403 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2037 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3473 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3661 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3486 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3672 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2016 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3566 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1997 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3425 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2023 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3539 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 4     | 203  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1911 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3657 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3564 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2031 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2006 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3489 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3443 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3650 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3658 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3571 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3467 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AS    | 209  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3544 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3430 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3424 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3623 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 2001 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3718 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3611 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AK    | 102  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3627 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 217  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3684 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3643 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3639 | -    | 0,6,6        | -    | -        | -           |      |          |

| Mol | Type | Chain | Res  | Link | Bond lengths |      |          | Bond angles |      |          |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
|     |      |       |      |      | Counts       | RMSZ | # Z  > 2 | Counts      | RMSZ | # Z  > 2 |
| 84  | OHX  | AR    | 3693 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3552 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3404 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3737 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3577 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3670 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | h     | 401  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1917 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1993 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3724 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1907 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3658 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3743 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3466 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3562 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3722 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2026 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3447 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3535 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3510 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | Q     | 201  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | DL    | 101  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3730 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 1968 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | sR    | 1966 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3731 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3729 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3634 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3677 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | CF    | 402  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | s1    | 301  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3485 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3663 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 208  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AT    | 210  | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | AR    | 3666 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2019 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3469 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3516 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3600 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | A     | 2028 | -    | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3705 | 84   | 0,6,6        | -    | -        | -           |      |          |
| 84  | OHX  | 1     | 3440 | -    | 0,6,6        | -    | -        | -           |      |          |

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

| Mol | Type | Chain | Res  | Link | Chirals | Torsions  | Rings   |
|-----|------|-------|------|------|---------|-----------|---------|
| 86  | 7AL  | AR    | 4246 | -    | -       | 2/8/60/60 | 0/3/3/3 |
| 86  | 7AL  | 1     | 4210 | -    | -       | 2/8/60/60 | 0/3/3/3 |

There are no bond length outliers.

All (1) bond angle outliers are listed below:

| Mol | Chain | Res  | Type | Atoms    | Z    | Observed(°) | Ideal(°) |
|-----|-------|------|------|----------|------|-------------|----------|
| 86  | 1     | 4210 | 7AL  | O4-C8-C7 | 2.33 | 114.89      | 109.92   |

There are no chirality outliers.

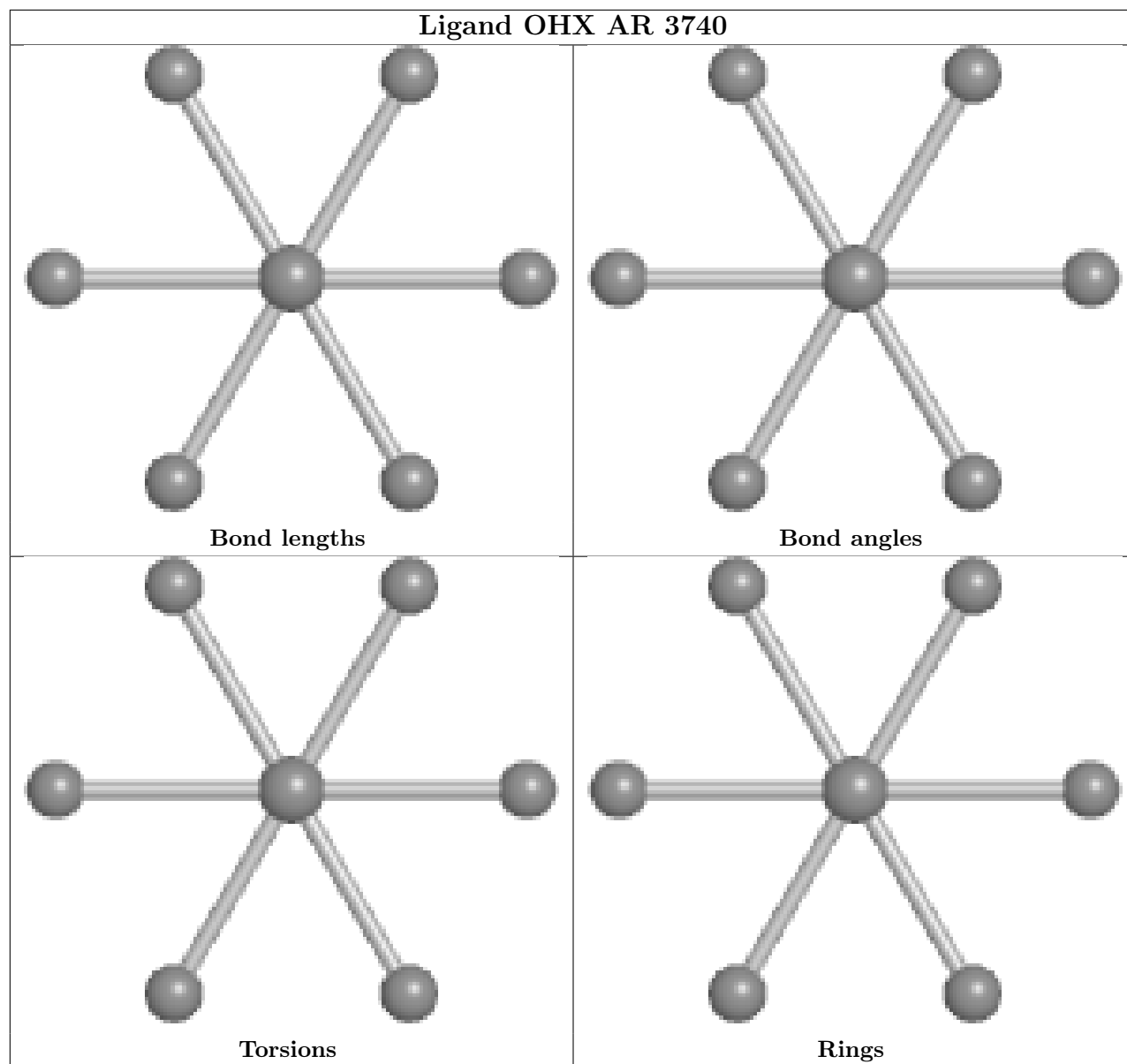
All (4) torsion outliers are listed below:

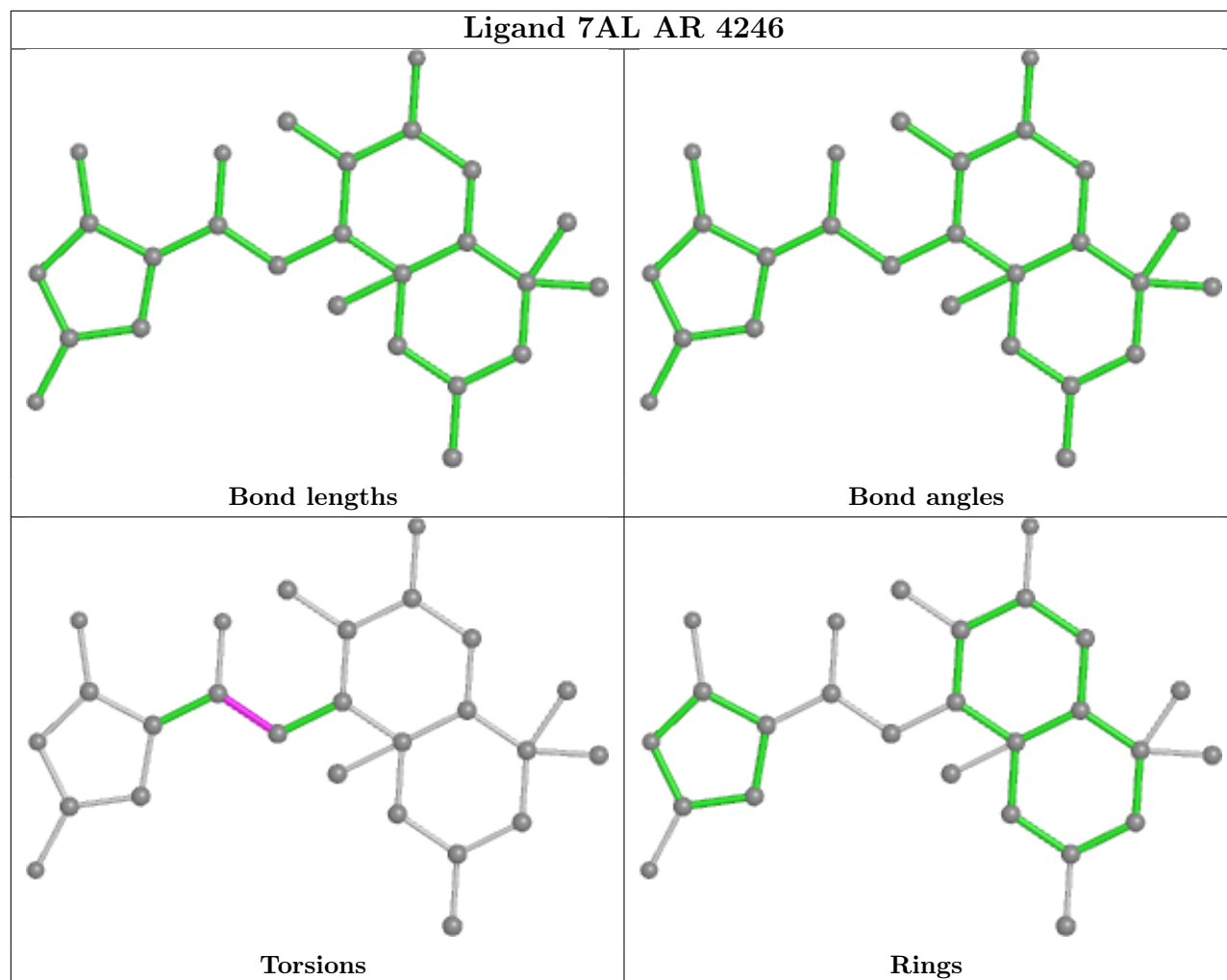
| Mol | Chain | Res  | Type | Atoms           |
|-----|-------|------|------|-----------------|
| 86  | 1     | 4210 | 7AL  | C10-C14-C15-C16 |
| 86  | AR    | 4246 | 7AL  | C10-C14-C15-C16 |
| 86  | 1     | 4210 | 7AL  | C10-C14-C15-O1  |
| 86  | AR    | 4246 | 7AL  | C10-C14-C15-O1  |

There are no ring outliers.

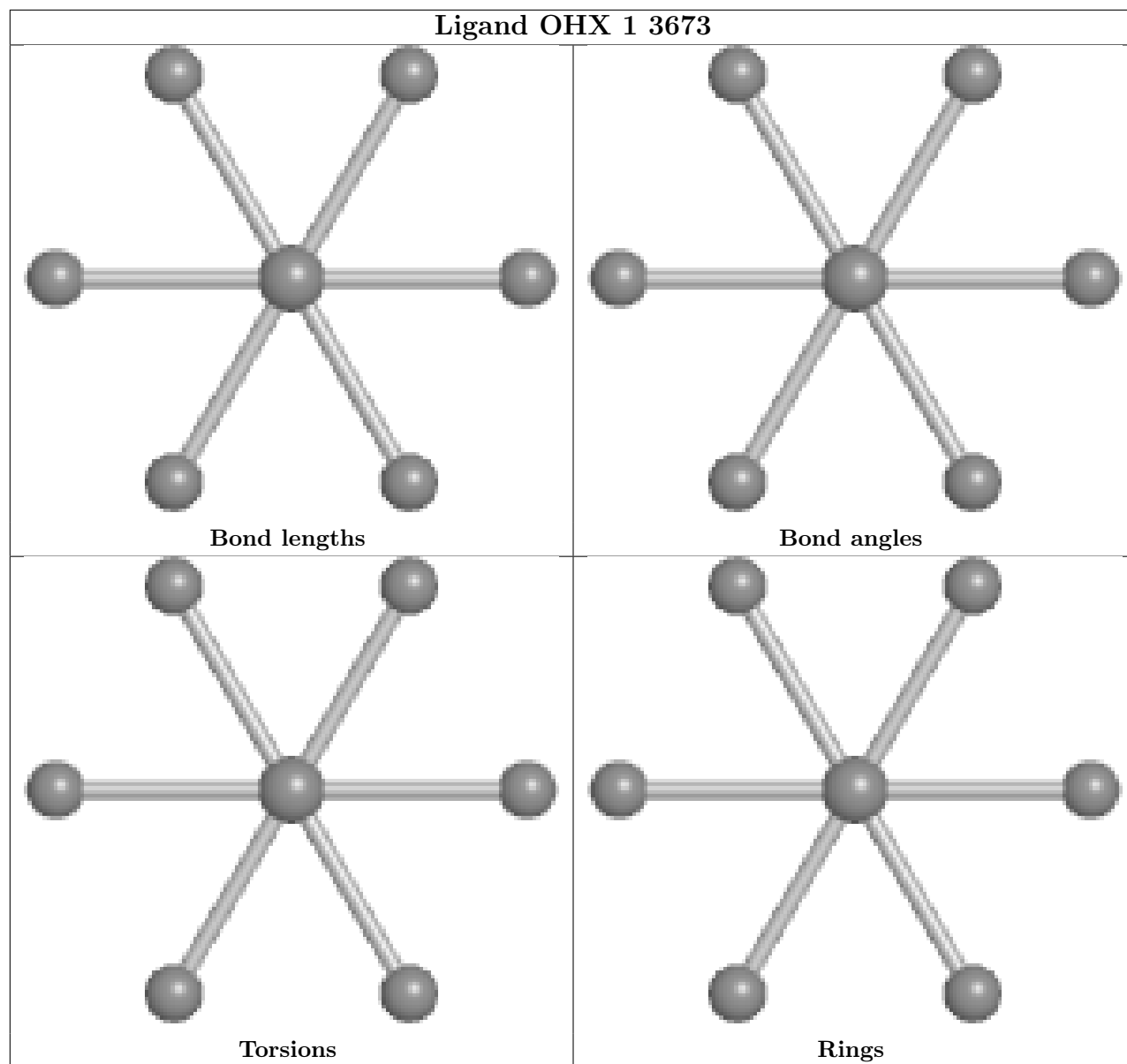
No monomer is involved in short contacts.

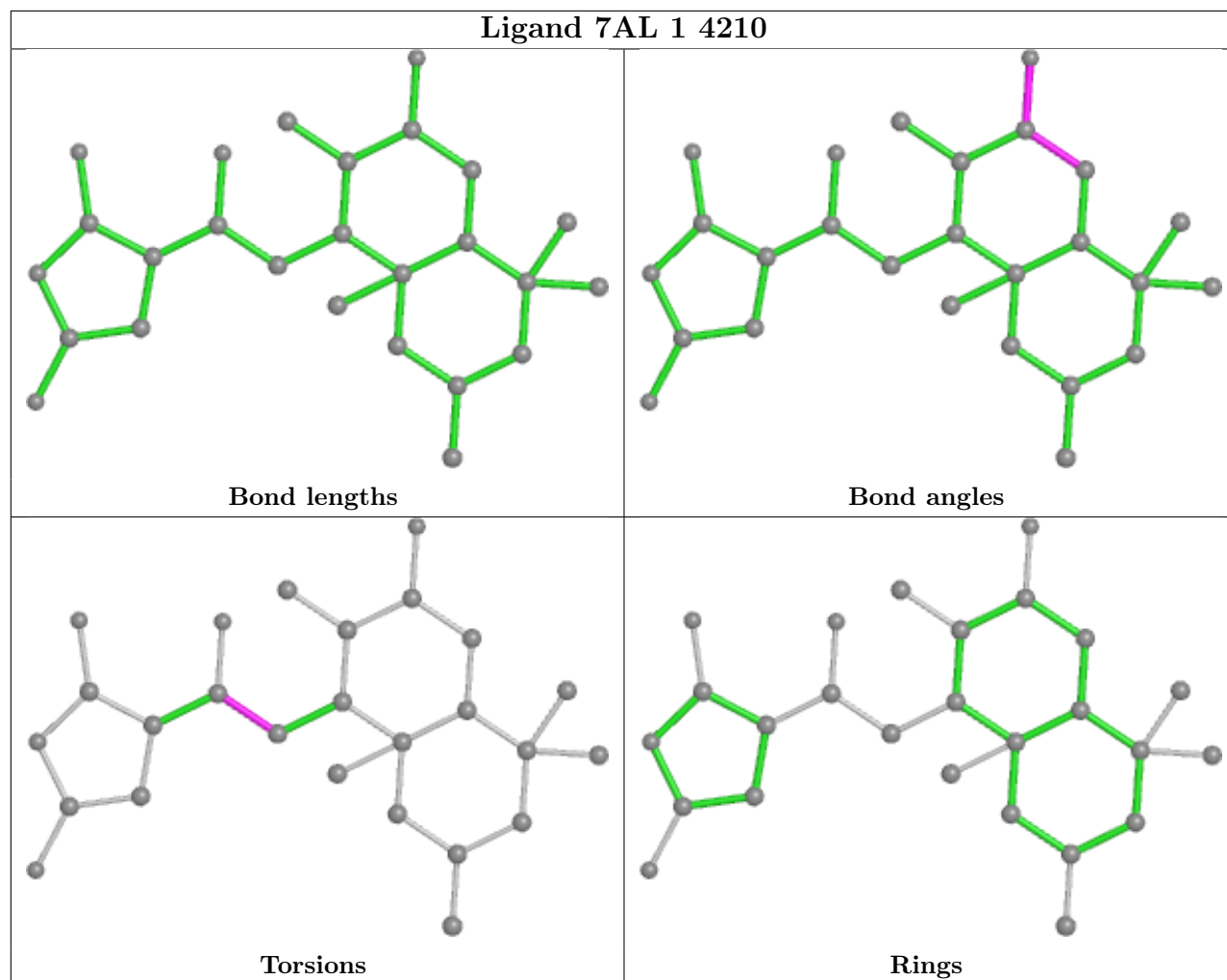
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

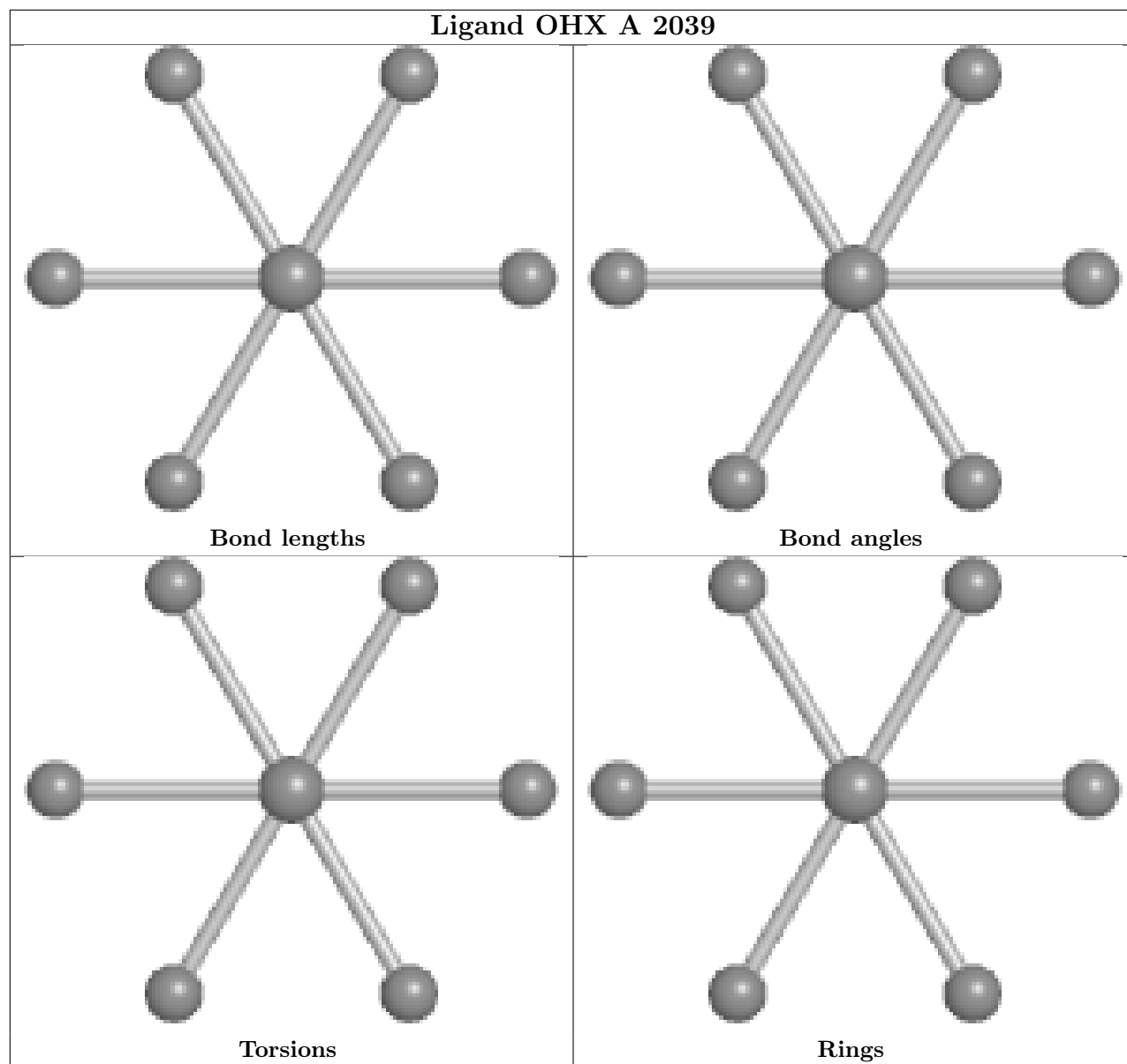


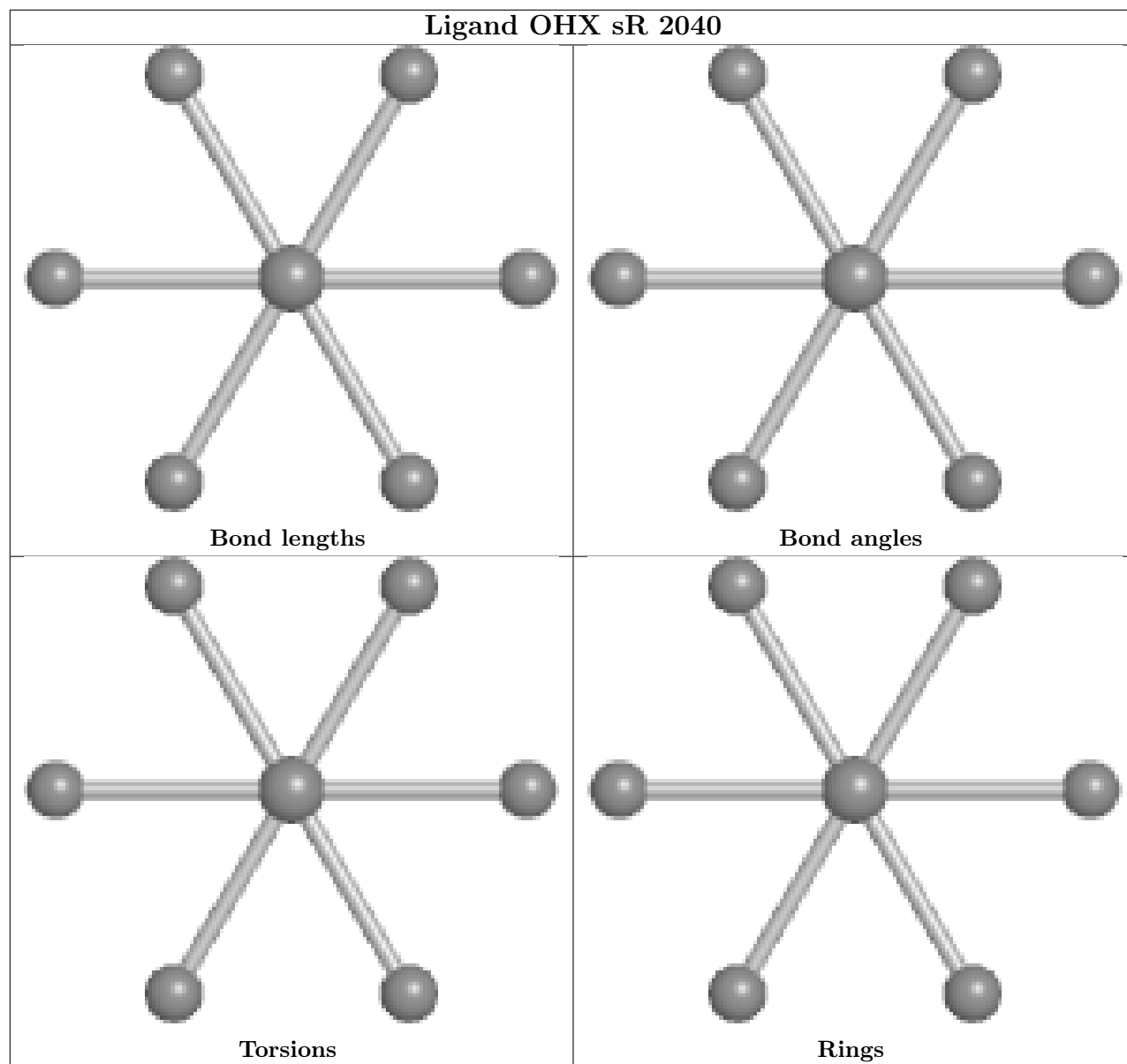


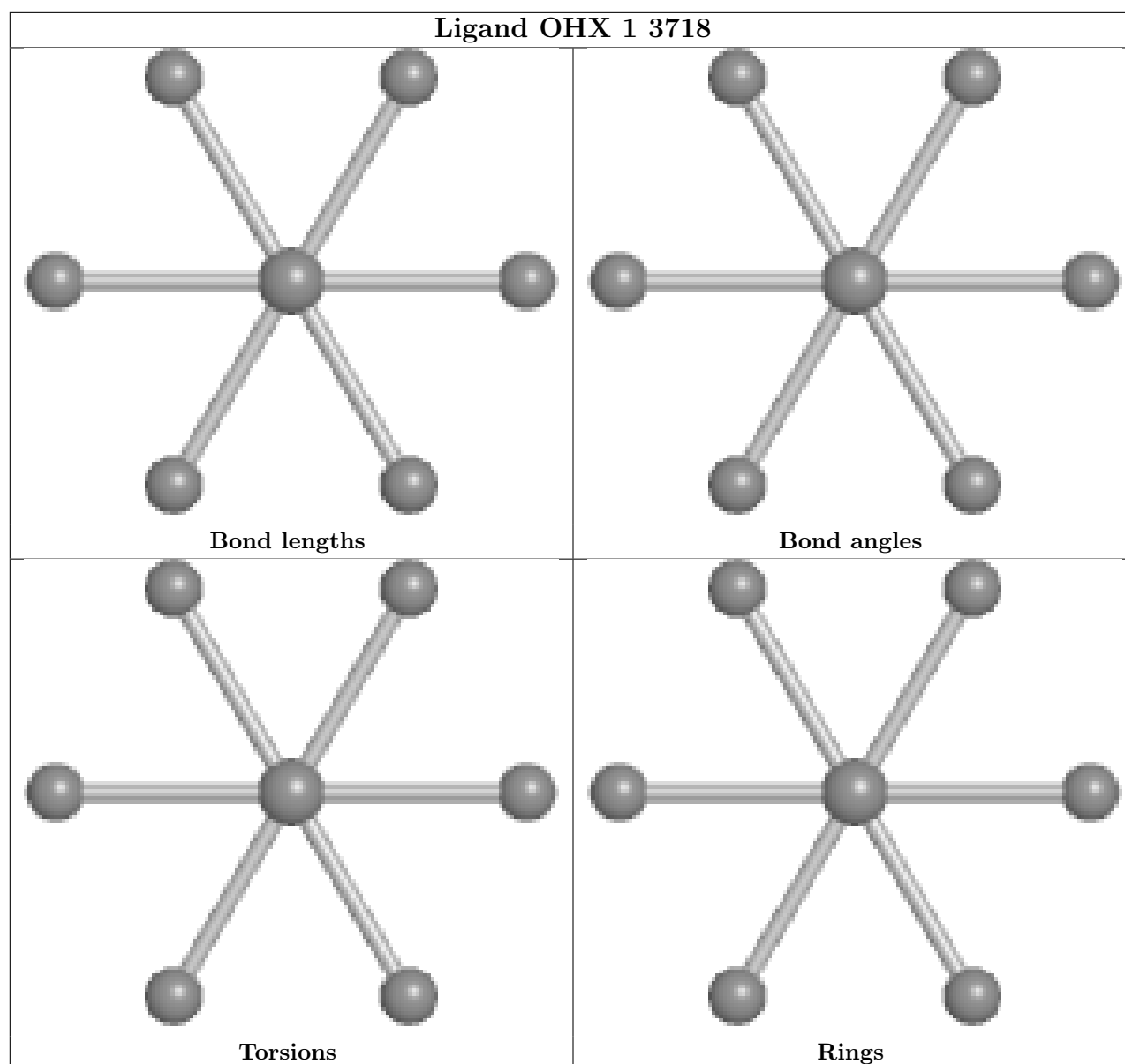












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

The following chains have linkage breaks:

| Mol | Chain | Number of breaks |
|-----|-------|------------------|
| 1   | 1     | 3                |
| 1   | AR    | 3                |
| 47  | sM    | 2                |

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| Mol | Chain | Number of breaks |
|-----|-------|------------------|
| 48  | A     | 1                |

The worst 5 of 9 chain breaks are listed below:

| Model | Chain | Residue-1 | Atom-1 | Residue-2 | Atom-2 | Distance (Å) |
|-------|-------|-----------|--------|-----------|--------|--------------|
| 1     | sM    | 85:SER    | C      | 119:UNK   | N      | 43.91        |
| 1     | sM    | 139:UNK   | C      | 155:UNK   | N      | 37.53        |
| 1     | 1     | 1955:U    | O3'    | 2093:A    | P      | 25.84        |
| 1     | AR    | 1955:U    | O3'    | 2093:A    | P      | 24.08        |
| 1     | 1     | 2445:A    | O3'    | 2501:U    | P      | 15.80        |

## 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   | 1     | 3149/3149 (100%) | -0.02  | 78 (2%) 57 29 | 23, 45, 148, 258      | 0     |
| 1   | AR    | 3149/3149 (100%) | -0.00  | 87 (2%) 53 25 | 24, 48, 147, 276      | 0     |
| 2   | 3     | 121/121 (100%)   | -0.34  | 0 100 100     | 33, 61, 76, 92        | 0     |
| 2   | AS    | 121/121 (100%)   | -0.33  | 0 100 100     | 30, 54, 69, 103       | 0     |
| 3   | 4     | 158/158 (100%)   | -0.10  | 1 (0%) 89 72  | 28, 46, 98, 165       | 0     |
| 3   | AT    | 158/158 (100%)   | -0.06  | 2 (1%) 77 51  | 35, 57, 112, 166      | 0     |
| 4   | CD    | 252/252 (100%)   | -0.27  | 2 (0%) 86 65  | 31, 51, 76, 131       | 0     |
| 4   | j     | 252/252 (100%)   | -0.27  | 0 100 100     | 26, 45, 64, 113       | 0     |
| 5   | CE    | 386/386 (100%)   | -0.35  | 2 (0%) 91 75  | 24, 42, 66, 121       | 0     |
| 5   | k     | 386/386 (100%)   | -0.36  | 1 (0%) 94 84  | 26, 49, 69, 116       | 0     |
| 6   | CF    | 361/361 (100%)   | -0.33  | 0 100 100     | 28, 48, 75, 107       | 0     |
| 6   | l     | 361/361 (100%)   | -0.34  | 0 100 100     | 24, 43, 72, 92        | 0     |
| 7   | CG    | 296/296 (100%)   | -0.14  | 4 (1%) 75 49  | 40, 56, 94, 133       | 0     |
| 7   | m     | 296/296 (100%)   | 0.09   | 6 (2%) 65 36  | 42, 70, 104, 152      | 0     |
| 8   | CH    | 156/175 (89%)    | -0.25  | 3 (1%) 66 37  | 36, 47, 85, 108       | 0     |
| 8   | n     | 156/175 (89%)    | -0.34  | 0 100 100     | 33, 44, 74, 119       | 0     |
| 9   | CI    | 222/222 (100%)   | -0.30  | 3 (1%) 75 49  | 28, 38, 86, 165       | 0     |
| 9   | o     | 222/222 (100%)   | -0.33  | 2 (0%) 84 63  | 28, 38, 75, 155       | 0     |
| 10  | CJ    | 233/233 (100%)   | 0.73   | 22 (9%) 8 3   | 65, 82, 141, 172      | 0     |
| 10  | p     | 233/233 (100%)   | 0.18   | 4 (1%) 70 41  | 50, 68, 138, 161      | 0     |
| 11  | CK    | 191/191 (100%)   | -0.22  | 3 (1%) 72 44  | 36, 47, 78, 142       | 0     |
| 11  | q     | 191/191 (100%)   | -0.31  | 1 (0%) 91 75  | 41, 56, 75, 141       | 0     |
| 12  | CL    | 211/220 (95%)    | 0.02   | 6 (2%) 53 25  | 29, 55, 91, 155       | 0     |
| 12  | r     | 211/220 (95%)    | -0.24  | 0 100 100     | 28, 48, 95, 119       | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2      | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 13  | CM    | 169/169 (100%) | -0.21  | 1 (0%) 89 72 | 42, 62, 82, 103       | 0     |
| 13  | s     | 169/169 (100%) | -0.04  | 1 (0%) 89 72 | 50, 73, 91, 114       | 0     |
| 14  | CN    | 193/193 (100%) | 0.10   | 5 (2%) 56 27 | 31, 61, 121, 150      | 0     |
| 14  | t     | 193/193 (100%) | -0.16  | 2 (1%) 82 59 | 25, 51, 110, 138      | 0     |
| 15  | CO    | 136/136 (100%) | -0.42  | 1 (0%) 87 69 | 35, 43, 72, 91        | 0     |
| 15  | u     | 136/136 (100%) | -0.42  | 0 100 100    | 38, 46, 70, 86        | 0     |
| 16  | CP    | 203/203 (100%) | -0.22  | 0 100 100    | 34, 52, 66, 70        | 0     |
| 16  | v     | 203/203 (100%) | -0.36  | 0 100 100    | 26, 42, 54, 71        | 0     |
| 17  | CQ    | 197/197 (100%) | -0.26  | 3 (1%) 73 46 | 24, 35, 75, 89        | 0     |
| 17  | w     | 197/197 (100%) | -0.37  | 0 100 100    | 27, 38, 65, 71        | 0     |
| 18  | CR    | 183/183 (100%) | 1.09   | 29 (15%) 2 1 | 27, 40, 169, 211      | 0     |
| 18  | x     | 183/183 (100%) | 0.18   | 14 (7%) 13 4 | 30, 39, 137, 171      | 0     |
| 19  | CS    | 185/185 (100%) | -0.35  | 0 100 100    | 31, 45, 60, 78        | 0     |
| 19  | y     | 185/185 (100%) | -0.29  | 0 100 100    | 30, 42, 79, 117       | 0     |
| 20  | CT    | 188/188 (100%) | 0.12   | 11 (5%) 22 7 | 44, 63, 165, 184      | 0     |
| 20  | z     | 188/188 (100%) | 0.19   | 13 (6%) 16 5 | 44, 60, 163, 180      | 0     |
| 21  | 0     | 172/172 (100%) | -0.30  | 2 (1%) 79 54 | 33, 43, 64, 89        | 0     |
| 21  | CU    | 172/172 (100%) | -0.38  | 2 (1%) 79 54 | 29, 40, 62, 77        | 0     |
| 22  | 2     | 159/159 (100%) | -0.20  | 2 (1%) 77 51 | 29, 44, 105, 121      | 0     |
| 22  | CV    | 159/159 (100%) | -0.21  | 0 100 100    | 29, 42, 100, 120      | 0     |
| 23  | 5     | 100/100 (100%) | 0.72   | 11 (11%) 5 2 | 76, 99, 124, 160      | 0     |
| 23  | CW    | 100/100 (100%) | 1.19   | 19 (19%) 1 0 | 74, 95, 120, 141      | 0     |
| 24  | 6     | 136/136 (100%) | -0.15  | 1 (0%) 87 69 | 33, 46, 73, 108       | 0     |
| 24  | CX    | 136/136 (100%) | 0.02   | 3 (2%) 62 33 | 28, 42, 67, 92        | 0     |
| 25  | 7     | 98/98 (100%)   | 1.70   | 32 (32%) 0 0 | 42, 58, 175, 180      | 0     |
| 25  | CY    | 98/98 (100%)   | 1.01   | 17 (17%) 1 0 | 39, 54, 177, 215      | 0     |
| 26  | 8     | 121/121 (100%) | -0.14  | 0 100 100    | 40, 57, 79, 136       | 0     |
| 26  | CZ    | 121/121 (100%) | -0.01  | 2 (1%) 70 41 | 46, 63, 89, 142       | 0     |
| 27  | 9     | 126/126 (100%) | -0.15  | 1 (0%) 86 65 | 33, 50, 69, 92        | 0     |
| 27  | DA    | 126/126 (100%) | -0.02  | 2 (1%) 72 44 | 37, 55, 79, 96        | 0     |
| 28  | AA    | 135/135 (100%) | 0.66   | 6 (4%) 34 13 | 65, 80, 103, 111      | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2      | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 28  | DB    | 135/135 (100%) | 0.65   | 9 (6%) 17 5  | 75, 97, 119, 125      | 0     |
| 29  | AB    | 148/148 (100%) | -0.22  | 0 100 100    | 24, 42, 79, 92        | 0     |
| 29  | DC    | 148/148 (100%) | -0.15  | 0 100 100    | 26, 49, 78, 89        | 0     |
| 30  | AC    | 58/58 (100%)   | -0.20  | 0 100 100    | 27, 47, 111, 141      | 0     |
| 30  | DD    | 58/58 (100%)   | -0.21  | 1 (1%) 70 41 | 30, 53, 92, 108       | 0     |
| 31  | AD    | 97/97 (100%)   | 0.27   | 3 (3%) 49 21 | 62, 75, 101, 127      | 0     |
| 31  | DE    | 97/97 (100%)   | 0.35   | 5 (5%) 27 10 | 69, 84, 117, 131      | 0     |
| 32  | AE    | 109/109 (100%) | -0.06  | 3 (2%) 53 25 | 40, 58, 116, 136      | 0     |
| 32  | DF    | 109/109 (100%) | -0.02  | 5 (4%) 32 12 | 39, 53, 120, 142      | 0     |
| 33  | AF    | 127/127 (100%) | -0.14  | 2 (1%) 72 44 | 24, 37, 56, 121       | 0     |
| 33  | DG    | 127/127 (100%) | -0.05  | 3 (2%) 59 30 | 25, 41, 59, 124       | 0     |
| 34  | AG    | 106/106 (100%) | -0.42  | 0 100 100    | 28, 36, 62, 95        | 0     |
| 34  | DH    | 106/106 (100%) | -0.34  | 0 100 100    | 28, 36, 68, 120       | 0     |
| 35  | AH    | 112/112 (100%) | -0.01  | 4 (3%) 42 17 | 39, 59, 119, 136      | 0     |
| 35  | DI    | 112/112 (100%) | -0.00  | 2 (1%) 68 40 | 44, 67, 126, 145      | 0     |
| 36  | AI    | 119/119 (100%) | -0.06  | 1 (0%) 86 65 | 36, 59, 75, 83        | 0     |
| 36  | DJ    | 119/119 (100%) | -0.06  | 2 (1%) 70 41 | 45, 68, 84, 91        | 0     |
| 37  | AJ    | 99/99 (100%)   | 0.07   | 6 (6%) 21 7  | 46, 60, 108, 143      | 0     |
| 37  | DK    | 99/99 (100%)   | 0.41   | 6 (6%) 21 7  | 59, 72, 112, 151      | 0     |
| 38  | AK    | 87/87 (100%)   | -0.11  | 2 (2%) 60 31 | 29, 36, 59, 114       | 0     |
| 38  | DL    | 87/87 (100%)   | 0.05   | 2 (2%) 60 31 | 34, 43, 74, 156       | 0     |
| 39  | AL    | 77/77 (100%)   | 0.43   | 1 (1%) 77 51 | 64, 84, 120, 132      | 0     |
| 39  | DM    | 77/77 (100%)   | 1.47   | 20 (25%) 0 0 | 67, 91, 127, 132      | 0     |
| 40  | AM    | 50/50 (100%)   | -0.25  | 1 (2%) 65 36 | 33, 47, 58, 65        | 0     |
| 40  | DN    | 50/50 (100%)   | -0.26  | 0 100 100    | 42, 52, 65, 77        | 0     |
| 41  | AN    | 52/52 (100%)   | -0.22  | 1 (1%) 66 37 | 36, 45, 69, 100       | 0     |
| 41  | DO    | 52/52 (100%)   | -0.37  | 0 100 100    | 30, 36, 59, 92        | 0     |
| 42  | AO    | 25/25 (100%)   | -0.14  | 0 100 100    | 50, 55, 64, 71        | 0     |
| 42  | DP    | 25/25 (100%)   | -0.17  | 0 100 100    | 45, 53, 65, 76        | 0     |
| 43  | AP    | 105/105 (100%) | 0.04   | 2 (1%) 66 37 | 28, 49, 81, 150       | 0     |
| 43  | DQ    | 105/105 (100%) | -0.10  | 1 (0%) 82 59 | 33, 50, 81, 142       | 0     |

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| Mol | Chain | Analysed        | <RSRZ> | #RSRZ>2       | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-----------------|--------|---------------|-----------------------|-------|
| 44  | AQ    | 91/91 (100%)    | -0.31  | 0 100 100     | 36, 49, 81, 96        | 0     |
| 44  | DR    | 91/91 (100%)    | -0.31  | 0 100 100     | 36, 54, 76, 84        | 0     |
| 45  | i     | 159/168 (94%)   | 0.90   | 25 (15%) 2 1  | 49, 98, 163, 168      | 0     |
| 46  | p0    | 143/219 (65%)   | 1.32   | 37 (25%) 0 0  | 85, 106, 174, 178     | 0     |
| 47  | sM    | 63/104 (60%)    | 0.89   | 12 (19%) 1 0  | 55, 105, 131, 138     | 0     |
| 48  | A     | 1781/1800 (98%) | 0.16   | 89 (4%) 28 10 | 45, 84, 220, 289      | 0     |
| 48  | sR    | 1783/1800 (99%) | 0.14   | 88 (4%) 29 11 | 39, 76, 187, 269      | 0     |
| 49  | B     | 206/206 (100%)  | 0.73   | 24 (11%) 4 1  | 90, 114, 140, 174     | 0     |
| 49  | s0    | 206/206 (100%)  | 0.47   | 14 (6%) 17 5  | 76, 100, 125, 142     | 0     |
| 50  | C     | 214/216 (99%)   | 1.23   | 44 (20%) 1 0  | 93, 128, 163, 175     | 0     |
| 50  | s1    | 216/216 (100%)  | 0.54   | 12 (5%) 24 8  | 66, 85, 121, 152      | 0     |
| 51  | D     | 217/217 (100%)  | 0.13   | 4 (1%) 68 40  | 71, 90, 113, 136      | 0     |
| 51  | s2    | 217/217 (100%)  | 0.16   | 6 (2%) 53 25  | 59, 79, 101, 128      | 0     |
| 52  | E     | 223/223 (100%)  | 0.48   | 13 (5%) 23 7  | 74, 93, 131, 173      | 0     |
| 52  | s3    | 223/223 (100%)  | 0.42   | 10 (4%) 33 12 | 73, 106, 139, 159     | 0     |
| 53  | F     | 260/260 (100%)  | 0.41   | 8 (3%) 49 21  | 65, 85, 104, 157      | 0     |
| 53  | s4    | 260/260 (100%)  | 0.19   | 6 (2%) 60 31  | 54, 80, 100, 152      | 0     |
| 54  | G     | 206/206 (100%)  | 0.96   | 30 (14%) 2 1  | 89, 114, 139, 171     | 0     |
| 54  | s5    | 206/206 (100%)  | 0.94   | 27 (13%) 3 1  | 78, 106, 139, 163     | 0     |
| 55  | H     | 226/226 (100%)  | 0.50   | 17 (7%) 14 4  | 61, 95, 135, 168      | 0     |
| 55  | s6    | 218/226 (96%)   | 0.29   | 13 (5%) 21 7  | 49, 80, 118, 141      | 0     |
| 56  | I     | 184/186 (98%)   | 0.85   | 24 (13%) 3 1  | 81, 117, 151, 173     | 0     |
| 56  | s7    | 186/186 (100%)  | 0.91   | 25 (13%) 3 1  | 74, 111, 152, 173     | 0     |
| 57  | J     | 188/199 (94%)   | 0.17   | 6 (3%) 47 20  | 47, 65, 105, 130      | 0     |
| 57  | s8    | 188/199 (94%)   | 0.35   | 9 (4%) 30 11  | 43, 71, 119, 137      | 0     |
| 58  | K     | 185/185 (100%)  | 0.79   | 20 (10%) 5 2  | 81, 98, 138, 175      | 0     |
| 58  | s9    | 185/185 (100%)  | 0.49   | 10 (5%) 25 9  | 67, 83, 126, 178      | 0     |
| 59  | L     | 96/105 (91%)    | 0.55   | 1 (1%) 82 59  | 74, 102, 139, 163     | 0     |
| 59  | c0    | 96/105 (91%)    | 1.48   | 24 (25%) 0 0  | 92, 127, 157, 175     | 0     |
| 60  | M     | 155/155 (100%)  | 0.57   | 18 (11%) 4 1  | 52, 65, 151, 176      | 0     |
| 60  | c1    | 146/155 (94%)   | 0.35   | 10 (6%) 17 5  | 49, 68, 116, 134      | 0     |

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| Mol | Chain | Analysed       | <RSRZ> | #RSRZ>2      | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|----------------|--------|--------------|-----------------------|-------|
| 61  | N     | 124/143 (86%)  | 1.78   | 50 (40%) 0 0 | 124, 148, 177, 187    | 0     |
| 61  | c2    | 124/143 (86%)  | 2.68   | 77 (62%) 0 0 | 167, 178, 203, 219    | 0     |
| 62  | O     | 150/150 (100%) | 0.20   | 4 (2%) 54 26 | 58, 84, 107, 127      | 0     |
| 62  | c3    | 150/150 (100%) | -0.07  | 0 100 100    | 56, 77, 102, 126      | 0     |
| 63  | P     | 127/128 (99%)  | 1.28   | 31 (24%) 0 0 | 67, 131, 155, 163     | 0     |
| 63  | c4    | 128/128 (100%) | 0.66   | 12 (9%) 8 3  | 53, 87, 102, 110      | 0     |
| 64  | Q     | 124/135 (91%)  | 0.49   | 6 (4%) 30 11 | 69, 86, 147, 175      | 0     |
| 64  | c5    | 135/135 (100%) | 0.75   | 16 (11%) 4 1 | 77, 100, 139, 149     | 0     |
| 65  | R     | 141/142 (99%)  | 0.80   | 19 (13%) 3 1 | 76, 104, 114, 121     | 0     |
| 65  | c6    | 142/142 (100%) | 0.66   | 13 (9%) 9 3  | 65, 99, 118, 149      | 0     |
| 66  | S     | 120/125 (96%)  | 0.40   | 11 (9%) 9 3  | 83, 111, 155, 165     | 0     |
| 67  | T     | 145/145 (100%) | 0.56   | 15 (10%) 6 2 | 66, 100, 134, 148     | 0     |
| 67  | c8    | 145/145 (100%) | 0.50   | 13 (8%) 9 3  | 78, 95, 133, 156      | 0     |
| 68  | U     | 143/143 (100%) | 0.53   | 10 (6%) 16 5 | 78, 99, 125, 149      | 0     |
| 68  | c9    | 143/143 (100%) | 0.53   | 12 (8%) 11 3 | 71, 93, 120, 146      | 0     |
| 69  | V     | 107/110 (97%)  | 1.02   | 24 (22%) 0 0 | 66, 107, 159, 169     | 0     |
| 69  | d0    | 110/110 (100%) | 1.34   | 28 (25%) 0 0 | 68, 113, 164, 172     | 0     |
| 70  | W     | 87/87 (100%)   | 0.56   | 7 (8%) 12 4  | 89, 98, 123, 140      | 0     |
| 70  | d1    | 87/87 (100%)   | 0.29   | 5 (5%) 23 8  | 70, 83, 115, 136      | 0     |
| 71  | X     | 129/129 (100%) | 0.20   | 1 (0%) 86 65 | 64, 80, 92, 97        | 0     |
| 71  | d2    | 129/129 (100%) | -0.19  | 0 100 100    | 54, 68, 77, 86        | 0     |
| 72  | Y     | 144/144 (100%) | -0.06  | 0 100 100    | 52, 62, 77, 113       | 0     |
| 72  | d3    | 144/144 (100%) | -0.11  | 1 (0%) 87 69 | 43, 52, 71, 108       | 0     |
| 73  | Z     | 134/134 (100%) | 0.58   | 7 (5%) 27 10 | 63, 97, 136, 156      | 0     |
| 73  | d4    | 134/134 (100%) | 0.18   | 5 (3%) 41 17 | 58, 86, 117, 146      | 0     |
| 74  | a     | 70/70 (100%)   | 1.49   | 23 (32%) 0 0 | 110, 129, 149, 159    | 0     |
| 74  | d5    | 69/70 (98%)    | 1.45   | 22 (31%) 0 0 | 90, 122, 141, 152     | 0     |
| 75  | b     | 97/97 (100%)   | 0.86   | 15 (15%) 2 1 | 73, 101, 162, 171     | 0     |
| 75  | d6    | 97/97 (100%)   | 0.15   | 2 (2%) 63 34 | 55, 76, 112, 124      | 0     |
| 76  | c     | 81/81 (100%)   | 0.86   | 10 (12%) 4 1 | 77, 96, 147, 155      | 0     |
| 76  | d7    | 81/81 (100%)   | 0.69   | 12 (14%) 2 1 | 68, 84, 146, 162      | 0     |

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| Mol | Chain | Analysed          | <RSRZ> | #RSRZ>2        | OWAB(Å <sup>2</sup> ) | Q<0.9 |
|-----|-------|-------------------|--------|----------------|-----------------------|-------|
| 77  | d     | 63/63 (100%)      | 1.22   | 11 (17%) 1 0   | 106, 124, 145, 152    | 0     |
| 77  | d8    | 63/63 (100%)      | 1.59   | 20 (31%) 0 0   | 94, 117, 146, 163     | 0     |
| 78  | d9    | 53/53 (100%)      | 0.40   | 2 (3%) 40 16   | 68, 80, 127, 157      | 0     |
| 78  | e     | 53/53 (100%)      | -0.08  | 1 (1%) 66 37   | 68, 75, 95, 120       | 0     |
| 79  | e0    | 62/62 (100%)      | 0.71   | 6 (9%) 7 2     | 55, 83, 146, 149      | 0     |
| 79  | f     | 60/62 (96%)       | 1.21   | 8 (13%) 3 1    | 55, 92, 162, 167      | 0     |
| 80  | g     | 71/71 (100%)      | 1.15   | 15 (21%) 1 0   | 100, 130, 157, 167    | 0     |
| 81  | Rb    | 318/318 (100%)    | 1.31   | 80 (25%) 0 0   | 103, 125, 145, 164    | 0     |
| 81  | h     | 318/318 (100%)    | 0.89   | 43 (13%) 3 1   | 92, 114, 155, 188     | 0     |
| 82  | c7    | 117/121 (96%)     | 0.32   | 6 (5%) 28 10   | 76, 101, 137, 150     | 0     |
| 83  | e1    | 51/51 (100%)      | 1.49   | 15 (29%) 0 0   | 145, 158, 171, 177    | 0     |
| All | All   | 33004/33349 (98%) | 0.19   | 1773 (5%) 25 9 | 23, 66, 144, 289      | 0     |

The worst 5 of 1773 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 18  | CR    | 161 | ALA  | 21.9 |
| 18  | CR    | 160 | ALA  | 18.7 |
| 25  | 7     | 76  | VAL  | 16.1 |
| 25  | 7     | 75  | THR  | 15.5 |
| 18  | CR    | 162 | GLU  | 15.3 |

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

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

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | AR    | 3834 | 1/1   | 0.28 | 0.47 | 61,61,61,61                 | 0     |
| 85  | MG   | 1     | 4165 | 1/1   | 0.32 | 0.36 | 153,153,153,153             | 0     |
| 85  | MG   | AR    | 4138 | 1/1   | 0.39 | 0.48 | 75,75,75,75                 | 0     |
| 85  | MG   | AR    | 4055 | 1/1   | 0.40 | 0.54 | 72,72,72,72                 | 0     |
| 85  | MG   | 1     | 3970 | 1/1   | 0.41 | 0.29 | 82,82,82,82                 | 0     |
| 85  | MG   | sR    | 2066 | 1/1   | 0.41 | 0.43 | 73,73,73,73                 | 0     |
| 85  | MG   | AR    | 4156 | 1/1   | 0.43 | 0.66 | 56,56,56,56                 | 0     |
| 85  | MG   | 4     | 229  | 1/1   | 0.47 | 0.37 | 55,55,55,55                 | 0     |
| 85  | MG   | sR    | 2157 | 1/1   | 0.47 | 0.66 | 71,71,71,71                 | 0     |
| 85  | MG   | 3     | 210  | 1/1   | 0.52 | 0.45 | 46,46,46,46                 | 0     |
| 85  | MG   | AR    | 4006 | 1/1   | 0.53 | 0.20 | 54,54,54,54                 | 0     |
| 85  | MG   | 1     | 3822 | 1/1   | 0.55 | 0.73 | 69,69,69,69                 | 0     |
| 85  | MG   | AR    | 4102 | 1/1   | 0.56 | 0.69 | 53,53,53,53                 | 0     |
| 85  | MG   | 3     | 216  | 1/1   | 0.57 | 0.49 | 78,78,78,78                 | 0     |
| 85  | MG   | AR    | 4126 | 1/1   | 0.57 | 0.79 | 46,46,46,46                 | 0     |
| 85  | MG   | AR    | 4230 | 1/1   | 0.58 | 0.40 | 59,59,59,59                 | 0     |
| 85  | MG   | A     | 2119 | 1/1   | 0.59 | 0.67 | 66,66,66,66                 | 0     |
| 85  | MG   | AR    | 3957 | 1/1   | 0.59 | 0.30 | 57,57,57,57                 | 0     |
| 85  | MG   | sR    | 2142 | 1/1   | 0.59 | 0.28 | 65,65,65,65                 | 0     |
| 85  | MG   | AR    | 4113 | 1/1   | 0.59 | 0.52 | 63,63,63,63                 | 0     |
| 84  | OHX  | AR    | 3742 | 7/7   | 0.60 | 0.35 | 225,225,226,226             | 0     |
| 85  | MG   | AR    | 4004 | 1/1   | 0.60 | 0.36 | 68,68,68,68                 | 0     |
| 85  | MG   | 1     | 4076 | 1/1   | 0.61 | 0.34 | 82,82,82,82                 | 0     |
| 85  | MG   | 1     | 4116 | 1/1   | 0.61 | 0.51 | 52,52,52,52                 | 0     |
| 85  | MG   | l     | 404  | 1/1   | 0.61 | 0.57 | 44,44,44,44                 | 0     |
| 85  | MG   | sR    | 2185 | 1/1   | 0.61 | 0.60 | 68,68,68,68                 | 0     |
| 85  | MG   | AR    | 4236 | 1/1   | 0.62 | 0.53 | 58,58,58,58                 | 0     |
| 85  | MG   | s     | 300  | 1/1   | 0.62 | 0.18 | 63,63,63,63                 | 0     |
| 85  | MG   | 1     | 4115 | 1/1   | 0.62 | 0.31 | 60,60,60,60                 | 0     |
| 85  | MG   | AR    | 4091 | 1/1   | 0.64 | 0.49 | 70,70,70,70                 | 0     |
| 84  | OHX  | CG    | 302  | 7/7   | 0.64 | 0.33 | 208,208,209,209             | 0     |
| 85  | MG   | sR    | 2082 | 1/1   | 0.64 | 0.60 | 63,63,63,63                 | 0     |
| 85  | MG   | A     | 2098 | 1/1   | 0.65 | 0.21 | 96,96,96,96                 | 0     |
| 85  | MG   | x     | 206  | 1/1   | 0.65 | 0.56 | 47,47,47,47                 | 0     |
| 85  | MG   | AR    | 4038 | 1/1   | 0.65 | 0.47 | 57,57,57,57                 | 0     |
| 85  | MG   | AR    | 4186 | 1/1   | 0.65 | 0.45 | 60,60,60,60                 | 0     |
| 85  | MG   | 1     | 4155 | 1/1   | 0.65 | 0.68 | 71,71,71,71                 | 0     |
| 85  | MG   | AR    | 4085 | 1/1   | 0.65 | 0.41 | 73,73,73,73                 | 0     |
| 85  | MG   | A     | 2068 | 1/1   | 0.65 | 0.44 | 73,73,73,73                 | 0     |
| 85  | MG   | AR    | 3817 | 1/1   | 0.66 | 0.18 | 106,106,106,106             | 0     |
| 85  | MG   | sR    | 2151 | 1/1   | 0.66 | 0.40 | 63,63,63,63                 | 0     |
| 85  | MG   | AR    | 4059 | 1/1   | 0.66 | 0.19 | 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 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | A     | 2113 | 1/1   | 0.66 | 0.41 | 78,78,78,78                | 0     |
| 85  | MG   | AR    | 3777 | 1/1   | 0.67 | 0.25 | 78,78,78,78                | 0     |
| 85  | MG   | AR    | 4183 | 1/1   | 0.67 | 0.14 | 102,102,102,102            | 0     |
| 85  | MG   | 1     | 3979 | 1/1   | 0.67 | 0.35 | 59,59,59,59                | 0     |
| 85  | MG   | AR    | 4130 | 1/1   | 0.67 | 0.24 | 64,64,64,64                | 0     |
| 85  | MG   | sR    | 2170 | 1/1   | 0.67 | 0.39 | 59,59,59,59                | 0     |
| 85  | MG   | 1     | 3802 | 1/1   | 0.67 | 0.47 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3921 | 1/1   | 0.68 | 0.39 | 39,39,39,39                | 0     |
| 85  | MG   | AR    | 3908 | 1/1   | 0.68 | 0.39 | 41,41,41,41                | 0     |
| 85  | MG   | AR    | 4145 | 1/1   | 0.68 | 0.27 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 4048 | 1/1   | 0.68 | 0.33 | 68,68,68,68                | 0     |
| 85  | MG   | 1     | 4033 | 1/1   | 0.68 | 0.32 | 73,73,73,73                | 0     |
| 85  | MG   | A     | 2115 | 1/1   | 0.68 | 0.34 | 69,69,69,69                | 0     |
| 84  | OHX  | AR    | 3740 | 7/7   | 0.68 | 0.55 | 212,212,213,213            | 0     |
| 85  | MG   | AR    | 4037 | 1/1   | 0.69 | 0.30 | 70,70,70,70                | 0     |
| 85  | MG   | 1     | 4045 | 1/1   | 0.69 | 0.26 | 58,58,58,58                | 0     |
| 85  | MG   | d3    | 202  | 1/1   | 0.69 | 0.30 | 59,59,59,59                | 0     |
| 84  | OHX  | sR    | 2041 | 7/7   | 0.70 | 0.30 | 238,238,239,240            | 0     |
| 85  | MG   | AR    | 4124 | 1/1   | 0.70 | 0.17 | 73,73,73,73                | 0     |
| 85  | MG   | AR    | 4027 | 1/1   | 0.70 | 0.12 | 105,105,105,105            | 0     |
| 85  | MG   | AR    | 4049 | 1/1   | 0.71 | 0.20 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 4104 | 1/1   | 0.71 | 0.57 | 47,47,47,47                | 0     |
| 85  | MG   | AR    | 3796 | 1/1   | 0.71 | 0.34 | 62,62,62,62                | 0     |
| 85  | MG   | AR    | 4227 | 1/1   | 0.71 | 0.60 | 78,78,78,78                | 0     |
| 85  | MG   | A     | 2104 | 1/1   | 0.71 | 0.59 | 67,67,67,67                | 0     |
| 85  | MG   | sR    | 2121 | 1/1   | 0.71 | 0.32 | 69,69,69,69                | 0     |
| 85  | MG   | AR    | 4169 | 1/1   | 0.72 | 0.99 | 101,101,101,101            | 0     |
| 85  | MG   | 1     | 3994 | 1/1   | 0.72 | 0.59 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 4183 | 1/1   | 0.72 | 0.14 | 67,67,67,67                | 0     |
| 85  | MG   | sR    | 2069 | 1/1   | 0.72 | 0.33 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 4014 | 1/1   | 0.72 | 0.19 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 3972 | 1/1   | 0.72 | 0.64 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3834 | 1/1   | 0.73 | 0.45 | 42,42,42,42                | 0     |
| 85  | MG   | A     | 2110 | 1/1   | 0.73 | 0.25 | 78,78,78,78                | 0     |
| 85  | MG   | AR    | 4110 | 1/1   | 0.73 | 0.30 | 56,56,56,56                | 0     |
| 85  | MG   | DA    | 201  | 1/1   | 0.73 | 0.22 | 52,52,52,52                | 0     |
| 85  | MG   | A     | 2046 | 1/1   | 0.73 | 0.27 | 55,55,55,55                | 0     |
| 85  | MG   | A     | 2150 | 1/1   | 0.73 | 0.39 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 4155 | 1/1   | 0.73 | 0.35 | 46,46,46,46                | 0     |
| 85  | MG   | sR    | 2187 | 1/1   | 0.73 | 0.59 | 70,70,70,70                | 0     |
| 85  | MG   | AR    | 3989 | 1/1   | 0.73 | 0.72 | 58,58,58,58                | 0     |
| 84  | OHX  | 1     | 3673 | 7/7   | 0.74 | 0.47 | 183,183,183,183            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | AR    | 3974 | 1/1   | 0.74 | 0.41 | 71,71,71,71                | 0     |
| 85  | MG   | 1     | 4125 | 1/1   | 0.74 | 0.38 | 49,49,49,49                | 0     |
| 85  | MG   | 1     | 4138 | 1/1   | 0.74 | 0.35 | 44,44,44,44                | 0     |
| 85  | MG   | 1     | 4003 | 1/1   | 0.74 | 0.43 | 62,62,62,62                | 0     |
| 85  | MG   | AR    | 4176 | 1/1   | 0.74 | 0.22 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4032 | 1/1   | 0.74 | 0.58 | 66,66,66,66                | 0     |
| 85  | MG   | 1     | 3988 | 1/1   | 0.74 | 0.44 | 44,44,44,44                | 0     |
| 85  | MG   | sR    | 2074 | 1/1   | 0.75 | 0.37 | 51,51,51,51                | 0     |
| 85  | MG   | A     | 2134 | 1/1   | 0.75 | 0.55 | 53,53,53,53                | 0     |
| 84  | OHX  | AR    | 3746 | 7/7   | 0.75 | 0.20 | 269,269,270,270            | 0     |
| 85  | MG   | 1     | 4100 | 1/1   | 0.75 | 0.28 | 46,46,46,46                | 0     |
| 85  | MG   | AT    | 221  | 1/1   | 0.75 | 0.77 | 57,57,57,57                | 0     |
| 85  | MG   | l     | 402  | 1/1   | 0.76 | 0.20 | 39,39,39,39                | 0     |
| 84  | OHX  | AR    | 3735 | 7/7   | 0.76 | 0.34 | 208,208,208,209            | 0     |
| 85  | MG   | AR    | 4171 | 1/1   | 0.76 | 0.45 | 50,50,50,50                | 0     |
| 85  | MG   | A     | 2082 | 1/1   | 0.76 | 0.26 | 69,69,69,69                | 0     |
| 85  | MG   | A     | 2097 | 1/1   | 0.76 | 0.25 | 75,75,75,75                | 0     |
| 85  | MG   | AR    | 3966 | 1/1   | 0.76 | 0.55 | 55,55,55,55                | 0     |
| 85  | MG   | 1     | 4167 | 1/1   | 0.76 | 0.24 | 57,57,57,57                | 0     |
| 84  | OHX  | sR    | 2052 | 7/7   | 0.76 | 0.22 | 208,209,210,210            | 0     |
| 85  | MG   | 1     | 4187 | 1/1   | 0.76 | 0.33 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3772 | 1/1   | 0.76 | 0.43 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 4152 | 1/1   | 0.76 | 0.35 | 37,37,37,37                | 0     |
| 85  | MG   | 1     | 3790 | 1/1   | 0.76 | 0.79 | 72,72,72,72                | 0     |
| 85  | MG   | A     | 2138 | 1/1   | 0.76 | 0.33 | 74,74,74,74                | 0     |
| 85  | MG   | CP    | 504  | 1/1   | 0.77 | 0.40 | 51,51,51,51                | 0     |
| 85  | MG   | 1     | 3824 | 1/1   | 0.77 | 0.34 | 53,53,53,53                | 0     |
| 85  | MG   | sR    | 2094 | 1/1   | 0.77 | 0.29 | 33,33,33,33                | 0     |
| 85  | MG   | DC    | 205  | 1/1   | 0.77 | 0.40 | 34,34,34,34                | 0     |
| 85  | MG   | sR    | 2132 | 1/1   | 0.77 | 0.21 | 59,59,59,59                | 0     |
| 85  | MG   | AR    | 4157 | 1/1   | 0.77 | 0.44 | 62,62,62,62                | 0     |
| 85  | MG   | AR    | 4161 | 1/1   | 0.77 | 0.27 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 4093 | 1/1   | 0.77 | 0.13 | 68,68,68,68                | 0     |
| 85  | MG   | sR    | 2159 | 1/1   | 0.77 | 0.63 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 4233 | 1/1   | 0.77 | 0.44 | 54,54,54,54                | 0     |
| 85  | MG   | J     | 302  | 1/1   | 0.77 | 0.30 | 55,55,55,55                | 0     |
| 84  | OHX  | 1     | 3718 | 7/7   | 0.77 | 0.42 | 254,254,255,255            | 0     |
| 85  | MG   | 1     | 3875 | 1/1   | 0.77 | 0.28 | 32,32,32,32                | 0     |
| 85  | MG   | AR    | 4187 | 1/1   | 0.78 | 0.29 | 50,50,50,50                | 0     |
| 85  | MG   | l     | 406  | 1/1   | 0.78 | 0.81 | 72,72,72,72                | 0     |
| 85  | MG   | AR    | 4118 | 1/1   | 0.78 | 0.15 | 55,55,55,55                | 0     |
| 85  | MG   | 1     | 3785 | 1/1   | 0.78 | 0.37 | 30,30,30,30                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | w     | 201  | 1/1   | 0.78 | 0.40 | 54,54,54,54                | 0     |
| 85  | MG   | e     | 102  | 1/1   | 0.78 | 0.17 | 81,81,81,81                | 0     |
| 84  | OHX  | A     | 2039 | 7/7   | 0.78 | 0.40 | 234,235,236,236            | 0     |
| 85  | MG   | AT    | 224  | 1/1   | 0.78 | 0.29 | 70,70,70,70                | 0     |
| 85  | MG   | 6     | 202  | 1/1   | 0.78 | 0.30 | 67,67,67,67                | 0     |
| 85  | MG   | sR    | 2076 | 1/1   | 0.78 | 0.37 | 77,77,77,77                | 0     |
| 85  | MG   | 1     | 3985 | 1/1   | 0.78 | 0.46 | 85,85,85,85                | 0     |
| 85  | MG   | AR    | 4150 | 1/1   | 0.78 | 0.31 | 63,63,63,63                | 0     |
| 85  | MG   | 1     | 4184 | 1/1   | 0.78 | 0.26 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 3803 | 1/1   | 0.78 | 0.51 | 43,43,43,43                | 0     |
| 85  | MG   | 1     | 3866 | 1/1   | 0.78 | 0.41 | 44,44,44,44                | 0     |
| 85  | MG   | A     | 2087 | 1/1   | 0.78 | 0.30 | 70,70,70,70                | 0     |
| 85  | MG   | 1     | 4130 | 1/1   | 0.78 | 0.33 | 69,69,69,69                | 0     |
| 85  | MG   | 1     | 4088 | 1/1   | 0.78 | 0.28 | 53,53,53,53                | 0     |
| 84  | OHX  | AR    | 3670 | 7/7   | 0.78 | 0.37 | 245,245,245,245            | 0     |
| 85  | MG   | 1     | 3784 | 1/1   | 0.78 | 0.39 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 403  | 1/1   | 0.78 | 0.45 | 63,63,63,63                | 0     |
| 85  | MG   | 1     | 4162 | 1/1   | 0.78 | 0.49 | 32,32,32,32                | 0     |
| 84  | OHX  | AR    | 3725 | 7/7   | 0.79 | 0.37 | 178,178,178,178            | 0     |
| 85  | MG   | A     | 2084 | 1/1   | 0.79 | 0.28 | 66,66,66,66                | 0     |
| 85  | MG   | 1     | 3878 | 1/1   | 0.79 | 0.49 | 53,53,53,53                | 0     |
| 85  | MG   | 1     | 4001 | 1/1   | 0.79 | 0.58 | 61,61,61,61                | 0     |
| 85  | MG   | 1     | 4094 | 1/1   | 0.79 | 0.32 | 59,59,59,59                | 0     |
| 85  | MG   | AR    | 4100 | 1/1   | 0.79 | 0.32 | 63,63,63,63                | 0     |
| 84  | OHX  | sR    | 2040 | 7/7   | 0.79 | 0.42 | 165,166,166,167            | 0     |
| 85  | MG   | 1     | 4004 | 1/1   | 0.79 | 0.13 | 66,66,66,66                | 0     |
| 85  | MG   | AT    | 225  | 1/1   | 0.79 | 0.71 | 72,72,72,72                | 0     |
| 85  | MG   | AR    | 4029 | 1/1   | 0.79 | 0.16 | 51,51,51,51                | 0     |
| 85  | MG   | A     | 2124 | 1/1   | 0.79 | 0.25 | 67,67,67,67                | 0     |
| 85  | MG   | sR    | 2158 | 1/1   | 0.79 | 0.20 | 62,62,62,62                | 0     |
| 84  | OHX  | 1     | 3698 | 7/7   | 0.79 | 0.29 | 245,245,246,246            | 0     |
| 85  | MG   | 1     | 3787 | 1/1   | 0.79 | 0.49 | 63,63,63,63                | 0     |
| 85  | MG   | 1     | 4123 | 1/1   | 0.79 | 0.28 | 53,53,53,53                | 0     |
| 85  | MG   | A     | 2051 | 1/1   | 0.79 | 0.35 | 69,69,69,69                | 0     |
| 85  | MG   | sR    | 2188 | 1/1   | 0.79 | 0.43 | 62,62,62,62                | 0     |
| 84  | OHX  | AR    | 3693 | 7/7   | 0.79 | 0.30 | 221,222,222,223            | 0     |
| 85  | MG   | sR    | 2087 | 1/1   | 0.80 | 0.33 | 53,53,53,53                | 0     |
| 85  | MG   | 1     | 3913 | 1/1   | 0.80 | 0.44 | 40,40,40,40                | 0     |
| 85  | MG   | 1     | 4194 | 1/1   | 0.80 | 0.41 | 29,29,29,29                | 0     |
| 85  | MG   | AR    | 4234 | 1/1   | 0.80 | 0.40 | 59,59,59,59                | 0     |
| 85  | MG   | 1     | 4005 | 1/1   | 0.80 | 0.30 | 49,49,49,49                | 0     |
| 84  | OHX  | 1     | 3682 | 7/7   | 0.80 | 0.28 | 179,179,180,180            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4108 | 1/1   | 0.80 | 0.51 | 69,69,69,69                 | 0     |
| 85  | MG   | AR    | 4182 | 1/1   | 0.80 | 0.28 | 40,40,40,40                 | 0     |
| 85  | MG   | A     | 2102 | 1/1   | 0.80 | 0.61 | 75,75,75,75                 | 0     |
| 85  | MG   | 4     | 232  | 1/1   | 0.80 | 0.17 | 52,52,52,52                 | 0     |
| 85  | MG   | 1     | 4110 | 1/1   | 0.80 | 0.34 | 76,76,76,76                 | 0     |
| 85  | MG   | 1     | 3871 | 1/1   | 0.80 | 0.33 | 70,70,70,70                 | 0     |
| 85  | MG   | AR    | 3983 | 1/1   | 0.80 | 0.28 | 71,71,71,71                 | 0     |
| 85  | MG   | sR    | 2086 | 1/1   | 0.80 | 0.28 | 81,81,81,81                 | 0     |
| 84  | OHX  | sR    | 2051 | 7/7   | 0.81 | 0.29 | 196,196,197,198             | 0     |
| 85  | MG   | A     | 2129 | 1/1   | 0.81 | 0.61 | 65,65,65,65                 | 0     |
| 85  | MG   | A     | 2132 | 1/1   | 0.81 | 0.23 | 68,68,68,68                 | 0     |
| 85  | MG   | 1     | 3935 | 1/1   | 0.81 | 0.26 | 38,38,38,38                 | 0     |
| 85  | MG   | AR    | 4043 | 1/1   | 0.81 | 0.39 | 45,45,45,45                 | 0     |
| 85  | MG   | AR    | 3899 | 1/1   | 0.81 | 0.43 | 32,32,32,32                 | 0     |
| 85  | MG   | AT    | 227  | 1/1   | 0.81 | 0.79 | 75,75,75,75                 | 0     |
| 85  | MG   | CE    | 403  | 1/1   | 0.81 | 0.39 | 31,31,31,31                 | 0     |
| 85  | MG   | CF    | 403  | 1/1   | 0.81 | 0.38 | 37,37,37,37                 | 0     |
| 84  | OHX  | 4     | 215  | 7/7   | 0.81 | 0.27 | 167,168,168,168             | 0     |
| 85  | MG   | 1     | 4176 | 1/1   | 0.81 | 0.32 | 66,66,66,66                 | 0     |
| 85  | MG   | 1     | 3738 | 1/1   | 0.81 | 0.40 | 36,36,36,36                 | 0     |
| 85  | MG   | AR    | 4162 | 1/1   | 0.81 | 0.40 | 69,69,69,69                 | 0     |
| 85  | MG   | AR    | 4082 | 1/1   | 0.81 | 0.23 | 37,37,37,37                 | 0     |
| 85  | MG   | 1     | 3762 | 1/1   | 0.81 | 0.50 | 45,45,45,45                 | 0     |
| 85  | MG   | A     | 2069 | 1/1   | 0.81 | 0.53 | 65,65,65,65                 | 0     |
| 85  | MG   | 1     | 4185 | 1/1   | 0.81 | 0.35 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 4132 | 1/1   | 0.81 | 0.36 | 54,54,54,54                 | 0     |
| 85  | MG   | sR    | 2141 | 1/1   | 0.81 | 0.15 | 62,62,62,62                 | 0     |
| 85  | MG   | AR    | 3985 | 1/1   | 0.81 | 0.37 | 61,61,61,61                 | 0     |
| 85  | MG   | 1     | 4192 | 1/1   | 0.81 | 0.20 | 32,32,32,32                 | 0     |
| 84  | OHX  | AR    | 3669 | 7/7   | 0.81 | 0.21 | 188,189,189,189             | 0     |
| 85  | MG   | AR    | 4194 | 1/1   | 0.81 | 0.29 | 54,54,54,54                 | 0     |
| 85  | MG   | AR    | 3751 | 1/1   | 0.81 | 0.50 | 33,33,33,33                 | 0     |
| 85  | MG   | sR    | 2161 | 1/1   | 0.81 | 0.35 | 58,58,58,58                 | 0     |
| 85  | MG   | A     | 2106 | 1/1   | 0.81 | 0.47 | 71,71,71,71                 | 0     |
| 85  | MG   | sR    | 2179 | 1/1   | 0.81 | 0.45 | 64,64,64,64                 | 0     |
| 85  | MG   | sR    | 2180 | 1/1   | 0.81 | 0.46 | 68,68,68,68                 | 0     |
| 84  | OHX  | A     | 2015 | 7/7   | 0.81 | 0.46 | 213,214,216,216             | 0     |
| 85  | MG   | 1     | 4047 | 1/1   | 0.81 | 0.65 | 63,63,63,63                 | 0     |
| 85  | MG   | 3     | 219  | 1/1   | 0.81 | 0.16 | 68,68,68,68                 | 0     |
| 85  | MG   | AR    | 4235 | 1/1   | 0.81 | 0.37 | 66,66,66,66                 | 0     |
| 85  | MG   | AR    | 3980 | 1/1   | 0.82 | 0.41 | 66,66,66,66                 | 0     |
| 85  | MG   | AR    | 3982 | 1/1   | 0.82 | 0.30 | 45,45,45,45                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | 1     | 3971 | 1/1   | 0.82 | 0.23 | 41,41,41,41                | 0     |
| 85  | MG   | sR    | 2085 | 1/1   | 0.82 | 0.68 | 64,64,64,64                | 0     |
| 85  | MG   | 1     | 3808 | 1/1   | 0.82 | 0.32 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3984 | 1/1   | 0.82 | 0.36 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 4020 | 1/1   | 0.82 | 0.24 | 62,62,62,62                | 0     |
| 85  | MG   | sR    | 2110 | 1/1   | 0.82 | 0.48 | 61,61,61,61                | 0     |
| 84  | OHX  | A     | 2034 | 7/7   | 0.82 | 0.16 | 261,262,263,263            | 0     |
| 85  | MG   | AR    | 3876 | 1/1   | 0.82 | 0.20 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 3952 | 1/1   | 0.82 | 0.45 | 75,75,75,75                | 0     |
| 85  | MG   | x     | 203  | 1/1   | 0.82 | 0.43 | 65,65,65,65                | 0     |
| 85  | MG   | 4     | 226  | 1/1   | 0.82 | 0.36 | 55,55,55,55                | 0     |
| 85  | MG   | 1     | 3960 | 1/1   | 0.82 | 0.64 | 47,47,47,47                | 0     |
| 85  | MG   | CM    | 202  | 1/1   | 0.82 | 0.17 | 60,60,60,60                | 0     |
| 84  | OHX  | 1     | 3704 | 7/7   | 0.82 | 0.45 | 181,181,181,181            | 0     |
| 85  | MG   | AR    | 4046 | 1/1   | 0.82 | 0.46 | 63,63,63,63                | 0     |
| 85  | MG   | DC    | 204  | 1/1   | 0.82 | 0.62 | 47,47,47,47                | 0     |
| 85  | MG   | AR    | 3774 | 1/1   | 0.82 | 0.34 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 4200 | 1/1   | 0.82 | 0.36 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4202 | 1/1   | 0.82 | 0.42 | 50,50,50,50                | 0     |
| 85  | MG   | A     | 2061 | 1/1   | 0.82 | 0.44 | 68,68,68,68                | 0     |
| 85  | MG   | AR    | 4207 | 1/1   | 0.82 | 0.23 | 54,54,54,54                | 0     |
| 85  | MG   | AR    | 4222 | 1/1   | 0.82 | 0.33 | 73,73,73,73                | 0     |
| 85  | MG   | d6    | 102  | 1/1   | 0.82 | 0.40 | 59,59,59,59                | 0     |
| 85  | MG   | 1     | 3981 | 1/1   | 0.83 | 0.25 | 49,49,49,49                | 0     |
| 85  | MG   | n     | 201  | 1/1   | 0.83 | 0.21 | 48,48,48,48                | 0     |
| 85  | MG   | sR    | 2116 | 1/1   | 0.83 | 0.32 | 64,64,64,64                | 0     |
| 85  | MG   | AR    | 3819 | 1/1   | 0.83 | 0.37 | 56,56,56,56                | 0     |
| 85  | MG   | sR    | 2124 | 1/1   | 0.83 | 0.52 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 4180 | 1/1   | 0.83 | 0.20 | 58,58,58,58                | 0     |
| 85  | MG   | sR    | 2138 | 1/1   | 0.83 | 0.26 | 65,65,65,65                | 0     |
| 85  | MG   | 1     | 4181 | 1/1   | 0.83 | 0.16 | 50,50,50,50                | 0     |
| 85  | MG   | A     | 2053 | 1/1   | 0.83 | 0.50 | 49,49,49,49                | 0     |
| 84  | OHX  | 1     | 3719 | 7/7   | 0.83 | 0.28 | 176,176,177,177            | 0     |
| 85  | MG   | AR    | 4022 | 1/1   | 0.83 | 0.42 | 36,36,36,36                | 0     |
| 85  | MG   | 1     | 4051 | 1/1   | 0.83 | 0.32 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 4238 | 1/1   | 0.83 | 0.39 | 54,54,54,54                | 0     |
| 85  | MG   | 4     | 230  | 1/1   | 0.83 | 0.50 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4160 | 1/1   | 0.83 | 0.22 | 51,51,51,51                | 0     |
| 85  | MG   | A     | 2088 | 1/1   | 0.83 | 0.28 | 55,55,55,55                | 0     |
| 85  | MG   | AR    | 3968 | 1/1   | 0.83 | 0.31 | 47,47,47,47                | 0     |
| 85  | MG   | sR    | 2183 | 1/1   | 0.83 | 0.58 | 68,68,68,68                | 0     |
| 85  | MG   | 1     | 4062 | 1/1   | 0.83 | 0.37 | 47,47,47,47                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | CM    | 201  | 7/7   | 0.83 | 0.31 | 200,200,201,201            | 0     |
| 85  | MG   | AR    | 3778 | 1/1   | 0.83 | 0.39 | 52,52,52,52                | 0     |
| 85  | MG   | sR    | 2191 | 1/1   | 0.83 | 0.16 | 67,67,67,67                | 0     |
| 85  | MG   | AR    | 4140 | 1/1   | 0.83 | 0.26 | 64,64,64,64                | 0     |
| 84  | OHX  | AS    | 209  | 7/7   | 0.83 | 0.25 | 182,183,183,184            | 0     |
| 85  | MG   | 1     | 4061 | 1/1   | 0.84 | 0.44 | 55,55,55,55                | 0     |
| 84  | OHX  | AR    | 3732 | 7/7   | 0.84 | 0.27 | 227,228,228,228            | 0     |
| 85  | MG   | AR    | 4122 | 1/1   | 0.84 | 0.47 | 62,62,62,62                | 0     |
| 85  | MG   | A     | 2135 | 1/1   | 0.84 | 0.56 | 70,70,70,70                | 0     |
| 85  | MG   | 1     | 4066 | 1/1   | 0.84 | 0.27 | 45,45,45,45                | 0     |
| 84  | OHX  | z     | 201  | 7/7   | 0.84 | 0.39 | 229,229,229,230            | 0     |
| 85  | MG   | AR    | 4245 | 1/1   | 0.84 | 0.26 | 56,56,56,56                | 0     |
| 85  | MG   | 1     | 4195 | 1/1   | 0.84 | 0.39 | 25,25,25,25                | 0     |
| 85  | MG   | AR    | 4134 | 1/1   | 0.84 | 0.35 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 3753 | 1/1   | 0.84 | 0.27 | 39,39,39,39                | 0     |
| 84  | OHX  | AR    | 3711 | 7/7   | 0.84 | 0.29 | 180,181,181,181            | 0     |
| 85  | MG   | 1     | 3896 | 1/1   | 0.84 | 0.56 | 35,35,35,35                | 0     |
| 85  | MG   | AR    | 4149 | 1/1   | 0.84 | 0.29 | 53,53,53,53                | 0     |
| 85  | MG   | CG    | 304  | 1/1   | 0.84 | 0.20 | 59,59,59,59                | 0     |
| 85  | MG   | 1     | 4021 | 1/1   | 0.84 | 0.39 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4023 | 1/1   | 0.84 | 0.29 | 73,73,73,73                | 0     |
| 85  | MG   | 1     | 4097 | 1/1   | 0.84 | 0.25 | 55,55,55,55                | 0     |
| 85  | MG   | 1     | 3757 | 1/1   | 0.84 | 0.16 | 63,63,63,63                | 0     |
| 84  | OHX  | A     | 2040 | 7/7   | 0.84 | 0.27 | 215,216,216,216            | 0     |
| 84  | OHX  | A     | 2041 | 7/7   | 0.84 | 0.45 | 182,182,183,183            | 0     |
| 85  | MG   | sR    | 2122 | 1/1   | 0.84 | 0.23 | 71,71,71,71                | 0     |
| 85  | MG   | AR    | 4165 | 1/1   | 0.84 | 0.34 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 4166 | 1/1   | 0.84 | 0.11 | 91,91,91,91                | 0     |
| 85  | MG   | AR    | 3828 | 1/1   | 0.84 | 0.74 | 64,64,64,64                | 0     |
| 85  | MG   | AR    | 3830 | 1/1   | 0.84 | 0.24 | 47,47,47,47                | 0     |
| 85  | MG   | AR    | 4172 | 1/1   | 0.84 | 0.17 | 73,73,73,73                | 0     |
| 85  | MG   | A     | 2070 | 1/1   | 0.84 | 0.41 | 70,70,70,70                | 0     |
| 85  | MG   | k     | 402  | 1/1   | 0.84 | 0.25 | 57,57,57,57                | 0     |
| 85  | MG   | AR    | 3842 | 1/1   | 0.84 | 0.20 | 42,42,42,42                | 0     |
| 85  | MG   | AR    | 4053 | 1/1   | 0.84 | 0.14 | 47,47,47,47                | 0     |
| 85  | MG   | k     | 403  | 1/1   | 0.84 | 0.37 | 37,37,37,37                | 0     |
| 85  | MG   | 1     | 4109 | 1/1   | 0.84 | 0.36 | 40,40,40,40                | 0     |
| 85  | MG   | sR    | 2172 | 1/1   | 0.84 | 0.39 | 101,101,101,101            | 0     |
| 85  | MG   | sR    | 2176 | 1/1   | 0.84 | 0.32 | 64,64,64,64                | 0     |
| 85  | MG   | 1     | 4178 | 1/1   | 0.84 | 0.33 | 39,39,39,39                | 0     |
| 85  | MG   | AR    | 4196 | 1/1   | 0.84 | 0.20 | 72,72,72,72                | 0     |
| 85  | MG   | AR    | 4197 | 1/1   | 0.84 | 0.17 | 82,82,82,82                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3653 | 7/7   | 0.84 | 0.32 | 167,167,168,168            | 0     |
| 85  | MG   | AR    | 4087 | 1/1   | 0.84 | 0.28 | 72,72,72,72                | 0     |
| 84  | OHX  | A     | 1971 | 7/7   | 0.84 | 0.18 | 164,165,166,166            | 0     |
| 85  | MG   | 1     | 4058 | 1/1   | 0.84 | 0.25 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 4122 | 1/1   | 0.84 | 0.24 | 51,51,51,51                | 0     |
| 85  | MG   | d5    | 201  | 1/1   | 0.84 | 0.08 | 74,74,74,74                | 0     |
| 85  | MG   | t     | 203  | 1/1   | 0.84 | 0.66 | 41,41,41,41                | 0     |
| 85  | MG   | A     | 2105 | 1/1   | 0.85 | 0.40 | 58,58,58,58                | 0     |
| 85  | MG   | 3     | 220  | 1/1   | 0.85 | 0.23 | 58,58,58,58                | 0     |
| 85  | MG   | A     | 2109 | 1/1   | 0.85 | 0.53 | 60,60,60,60                | 0     |
| 85  | MG   | AR    | 4052 | 1/1   | 0.85 | 0.46 | 42,42,42,42                | 0     |
| 84  | OHX  | sR    | 2050 | 7/7   | 0.85 | 0.31 | 224,224,225,225            | 0     |
| 85  | MG   | 1     | 3982 | 1/1   | 0.85 | 0.24 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4056 | 1/1   | 0.85 | 0.25 | 55,55,55,55                | 0     |
| 85  | MG   | AR    | 3835 | 1/1   | 0.85 | 0.63 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 4061 | 1/1   | 0.85 | 0.22 | 56,56,56,56                | 0     |
| 85  | MG   | A     | 2131 | 1/1   | 0.85 | 0.20 | 90,90,90,90                | 0     |
| 85  | MG   | AR    | 4079 | 1/1   | 0.85 | 0.10 | 57,57,57,57                | 0     |
| 85  | MG   | A     | 2133 | 1/1   | 0.85 | 0.24 | 68,68,68,68                | 0     |
| 85  | MG   | AR    | 4081 | 1/1   | 0.85 | 0.15 | 107,107,107,107            | 0     |
| 84  | OHX  | 1     | 3697 | 7/7   | 0.85 | 0.40 | 154,155,155,155            | 0     |
| 84  | OHX  | A     | 1946 | 7/7   | 0.85 | 0.16 | 181,182,183,183            | 0     |
| 85  | MG   | j     | 301  | 1/1   | 0.85 | 0.36 | 33,33,33,33                | 0     |
| 85  | MG   | AR    | 4089 | 1/1   | 0.85 | 0.31 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 4065 | 1/1   | 0.85 | 0.20 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 3920 | 1/1   | 0.85 | 0.56 | 27,27,27,27                | 0     |
| 85  | MG   | AR    | 3921 | 1/1   | 0.85 | 0.57 | 31,31,31,31                | 0     |
| 85  | MG   | AR    | 4104 | 1/1   | 0.85 | 0.26 | 49,49,49,49                | 0     |
| 85  | MG   | AR    | 4247 | 1/1   | 0.85 | 0.30 | 31,31,31,31                | 0     |
| 85  | MG   | sR    | 2079 | 1/1   | 0.85 | 0.40 | 46,46,46,46                | 0     |
| 85  | MG   | AS    | 228  | 1/1   | 0.85 | 0.07 | 72,72,72,72                | 0     |
| 85  | MG   | 1     | 4154 | 1/1   | 0.85 | 0.31 | 69,69,69,69                | 0     |
| 85  | MG   | 1     | 3987 | 1/1   | 0.85 | 0.23 | 51,51,51,51                | 0     |
| 85  | MG   | 1     | 4073 | 1/1   | 0.85 | 0.63 | 47,47,47,47                | 0     |
| 85  | MG   | 1     | 4161 | 1/1   | 0.85 | 0.29 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 3880 | 1/1   | 0.85 | 0.59 | 48,48,48,48                | 0     |
| 85  | MG   | CE    | 404  | 1/1   | 0.85 | 0.32 | 31,31,31,31                | 0     |
| 85  | MG   | sR    | 2117 | 1/1   | 0.85 | 0.16 | 88,88,88,88                | 0     |
| 85  | MG   | 1     | 4083 | 1/1   | 0.85 | 0.43 | 56,56,56,56                | 0     |
| 84  | OHX  | s1    | 301  | 7/7   | 0.85 | 0.41 | 188,189,190,190            | 0     |
| 84  | OHX  | 1     | 3709 | 7/7   | 0.85 | 0.33 | 189,190,190,190            | 0     |
| 85  | MG   | 1     | 3753 | 1/1   | 0.85 | 0.39 | 30,30,30,30                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | CR    | 203  | 1/1   | 0.85 | 0.37 | 112,112,112,112            | 0     |
| 85  | MG   | 1     | 3820 | 1/1   | 0.85 | 0.29 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 3996 | 1/1   | 0.85 | 0.20 | 63,63,63,63                | 0     |
| 85  | MG   | 1     | 4098 | 1/1   | 0.85 | 0.44 | 50,50,50,50                | 0     |
| 85  | MG   | DD    | 101  | 1/1   | 0.85 | 0.47 | 41,41,41,41                | 0     |
| 85  | MG   | 1     | 3949 | 1/1   | 0.85 | 0.20 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4012 | 1/1   | 0.85 | 0.37 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4103 | 1/1   | 0.85 | 0.24 | 48,48,48,48                | 0     |
| 84  | OHX  | sR    | 2022 | 7/7   | 0.85 | 0.22 | 215,216,217,218            | 0     |
| 85  | MG   | AR    | 3759 | 1/1   | 0.85 | 0.38 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 3954 | 1/1   | 0.85 | 0.32 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 4163 | 1/1   | 0.85 | 0.18 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 4028 | 1/1   | 0.85 | 0.23 | 48,48,48,48                | 0     |
| 85  | MG   | 1     | 4029 | 1/1   | 0.85 | 0.36 | 46,46,46,46                | 0     |
| 85  | MG   | A     | 2085 | 1/1   | 0.85 | 0.15 | 75,75,75,75                | 0     |
| 85  | MG   | AR    | 4036 | 1/1   | 0.85 | 0.30 | 61,61,61,61                | 0     |
| 84  | OHX  | AS    | 211  | 7/7   | 0.85 | 0.25 | 190,191,192,192            | 0     |
| 84  | OHX  | 4     | 214  | 7/7   | 0.85 | 0.33 | 187,187,187,187            | 0     |
| 85  | MG   | 1     | 3855 | 1/1   | 0.85 | 0.26 | 31,31,31,31                | 0     |
| 85  | MG   | 1     | 4046 | 1/1   | 0.85 | 0.11 | 48,48,48,48                | 0     |
| 85  | MG   | d6    | 101  | 1/1   | 0.85 | 0.62 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 3780 | 1/1   | 0.85 | 0.23 | 43,43,43,43                | 0     |
| 84  | OHX  | A     | 2036 | 7/7   | 0.86 | 0.13 | 277,278,279,279            | 0     |
| 85  | MG   | 1     | 3939 | 1/1   | 0.86 | 0.43 | 55,55,55,55                | 0     |
| 85  | MG   | sR    | 2068 | 1/1   | 0.86 | 0.41 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4036 | 1/1   | 0.86 | 0.59 | 55,55,55,55                | 0     |
| 85  | MG   | sR    | 2070 | 1/1   | 0.86 | 0.41 | 65,65,65,65                | 0     |
| 85  | MG   | 1     | 3859 | 1/1   | 0.86 | 0.33 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 4003 | 1/1   | 0.86 | 0.26 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 3826 | 1/1   | 0.86 | 0.35 | 69,69,69,69                | 0     |
| 85  | MG   | sR    | 2080 | 1/1   | 0.86 | 0.52 | 70,70,70,70                | 0     |
| 84  | OHX  | AR    | 3652 | 7/7   | 0.86 | 0.28 | 140,141,141,141            | 0     |
| 85  | MG   | sR    | 2083 | 1/1   | 0.86 | 0.47 | 69,69,69,69                | 0     |
| 85  | MG   | A     | 2064 | 1/1   | 0.86 | 0.24 | 69,69,69,69                | 0     |
| 85  | MG   | AR    | 4008 | 1/1   | 0.86 | 0.43 | 58,58,58,58                | 0     |
| 85  | MG   | 1     | 3806 | 1/1   | 0.86 | 0.23 | 77,77,77,77                | 0     |
| 84  | OHX  | CO    | 201  | 7/7   | 0.86 | 0.25 | 244,244,245,245            | 0     |
| 85  | MG   | sR    | 2102 | 1/1   | 0.86 | 0.44 | 45,45,45,45                | 0     |
| 85  | MG   | A     | 2081 | 1/1   | 0.86 | 0.42 | 61,61,61,61                | 0     |
| 85  | MG   | 1     | 3966 | 1/1   | 0.86 | 0.20 | 70,70,70,70                | 0     |
| 84  | OHX  | A     | 2024 | 7/7   | 0.86 | 0.51 | 164,165,166,166            | 0     |
| 85  | MG   | sR    | 2118 | 1/1   | 0.86 | 0.28 | 72,72,72,72                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | AR    | 4024 | 1/1   | 0.86 | 0.55 | 48,48,48,48                 | 0     |
| 85  | MG   | A     | 2086 | 1/1   | 0.86 | 0.23 | 50,50,50,50                 | 0     |
| 85  | MG   | sR    | 2123 | 1/1   | 0.86 | 0.31 | 65,65,65,65                 | 0     |
| 85  | MG   | AR    | 3869 | 1/1   | 0.86 | 0.48 | 28,28,28,28                 | 0     |
| 84  | OHX  | A     | 2042 | 7/7   | 0.86 | 0.19 | 211,213,213,214             | 0     |
| 85  | MG   | A     | 2094 | 1/1   | 0.86 | 0.46 | 62,62,62,62                 | 0     |
| 85  | MG   | AR    | 4129 | 1/1   | 0.86 | 0.26 | 91,91,91,91                 | 0     |
| 85  | MG   | 1     | 4163 | 1/1   | 0.86 | 0.22 | 45,45,45,45                 | 0     |
| 85  | MG   | AR    | 4131 | 1/1   | 0.86 | 0.13 | 65,65,65,65                 | 0     |
| 85  | MG   | AR    | 4034 | 1/1   | 0.86 | 0.12 | 52,52,52,52                 | 0     |
| 84  | OHX  | A     | 2029 | 7/7   | 0.86 | 0.18 | 219,220,221,221             | 0     |
| 85  | MG   | AR    | 3909 | 1/1   | 0.86 | 0.30 | 22,22,22,22                 | 0     |
| 85  | MG   | sR    | 2160 | 1/1   | 0.86 | 0.30 | 51,51,51,51                 | 0     |
| 85  | MG   | AR    | 3911 | 1/1   | 0.86 | 0.67 | 35,35,35,35                 | 0     |
| 85  | MG   | AS    | 217  | 1/1   | 0.86 | 0.32 | 50,50,50,50                 | 0     |
| 85  | MG   | AR    | 3916 | 1/1   | 0.86 | 0.46 | 49,49,49,49                 | 0     |
| 85  | MG   | AB    | 204  | 1/1   | 0.86 | 0.24 | 35,35,35,35                 | 0     |
| 85  | MG   | 1     | 3831 | 1/1   | 0.86 | 0.77 | 66,66,66,66                 | 0     |
| 85  | MG   | 1     | 4027 | 1/1   | 0.86 | 0.43 | 41,41,41,41                 | 0     |
| 85  | MG   | AR    | 4051 | 1/1   | 0.86 | 0.39 | 43,43,43,43                 | 0     |
| 85  | MG   | 4     | 231  | 1/1   | 0.86 | 0.28 | 66,66,66,66                 | 0     |
| 85  | MG   | sR    | 2186 | 1/1   | 0.86 | 0.33 | 86,86,86,86                 | 0     |
| 85  | MG   | AR    | 3772 | 1/1   | 0.86 | 0.24 | 36,36,36,36                 | 0     |
| 85  | MG   | 1     | 4117 | 1/1   | 0.86 | 0.34 | 60,60,60,60                 | 0     |
| 84  | OHX  | AR    | 3726 | 7/7   | 0.86 | 0.33 | 214,215,215,216             | 0     |
| 85  | MG   | AR    | 3976 | 1/1   | 0.86 | 0.45 | 39,39,39,39                 | 0     |
| 85  | MG   | AR    | 4168 | 1/1   | 0.86 | 0.30 | 44,44,44,44                 | 0     |
| 85  | MG   | 1     | 4030 | 1/1   | 0.86 | 0.35 | 60,60,60,60                 | 0     |
| 85  | MG   | AR    | 3789 | 1/1   | 0.86 | 0.38 | 25,25,25,25                 | 0     |
| 85  | MG   | AR    | 3783 | 1/1   | 0.87 | 0.34 | 33,33,33,33                 | 0     |
| 85  | MG   | A     | 2137 | 1/1   | 0.87 | 0.33 | 60,60,60,60                 | 0     |
| 84  | OHX  | x     | 201  | 7/7   | 0.87 | 0.46 | 143,144,144,144             | 0     |
| 85  | MG   | A     | 2146 | 1/1   | 0.87 | 0.62 | 50,50,50,50                 | 0     |
| 85  | MG   | 1     | 4050 | 1/1   | 0.87 | 0.20 | 55,55,55,55                 | 0     |
| 85  | MG   | 3     | 218  | 1/1   | 0.87 | 0.24 | 64,64,64,64                 | 0     |
| 85  | MG   | O     | 202  | 1/1   | 0.87 | 0.47 | 55,55,55,55                 | 0     |
| 85  | MG   | AR    | 3812 | 1/1   | 0.87 | 0.53 | 39,39,39,39                 | 0     |
| 85  | MG   | sR    | 2060 | 1/1   | 0.87 | 0.41 | 46,46,46,46                 | 0     |
| 85  | MG   | sR    | 2064 | 1/1   | 0.87 | 0.77 | 60,60,60,60                 | 0     |
| 84  | OHX  | AR    | 3676 | 7/7   | 0.87 | 0.21 | 193,193,193,193             | 0     |
| 85  | MG   | 1     | 4055 | 1/1   | 0.87 | 0.17 | 41,41,41,41                 | 0     |
| 84  | OHX  | AS    | 210  | 7/7   | 0.87 | 0.34 | 153,153,154,154             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3687 | 7/7   | 0.87 | 0.23 | 167,168,168,168            | 0     |
| 85  | MG   | CP    | 502  | 1/1   | 0.87 | 0.34 | 49,49,49,49                | 0     |
| 85  | MG   | 1     | 4149 | 1/1   | 0.87 | 0.41 | 27,27,27,27                | 0     |
| 85  | MG   | 1     | 4151 | 1/1   | 0.87 | 0.24 | 51,51,51,51                | 0     |
| 85  | MG   | CX    | 204  | 1/1   | 0.87 | 0.18 | 57,57,57,57                | 0     |
| 84  | OHX  | sR    | 1960 | 7/7   | 0.87 | 0.21 | 140,140,141,141            | 0     |
| 85  | MG   | AR    | 4042 | 1/1   | 0.87 | 0.36 | 58,58,58,58                | 0     |
| 85  | MG   | 1     | 3884 | 1/1   | 0.87 | 0.25 | 45,45,45,45                | 0     |
| 84  | OHX  | 1     | 3727 | 7/7   | 0.87 | 0.38 | 167,168,168,168            | 0     |
| 84  | OHX  | AR    | 3569 | 7/7   | 0.87 | 0.19 | 143,143,144,144            | 0     |
| 84  | OHX  | AR    | 3718 | 7/7   | 0.87 | 0.44 | 158,158,159,159            | 0     |
| 85  | MG   | AR    | 3902 | 1/1   | 0.87 | 0.49 | 44,44,44,44                | 0     |
| 84  | OHX  | AR    | 3607 | 7/7   | 0.87 | 0.19 | 168,169,169,169            | 0     |
| 84  | OHX  | AR    | 3637 | 7/7   | 0.87 | 0.16 | 213,213,213,214            | 0     |
| 85  | MG   | 1     | 3941 | 1/1   | 0.87 | 0.18 | 44,44,44,44                | 0     |
| 85  | MG   | 1     | 3944 | 1/1   | 0.87 | 0.29 | 46,46,46,46                | 0     |
| 85  | MG   | 1     | 4172 | 1/1   | 0.87 | 0.26 | 44,44,44,44                | 0     |
| 85  | MG   | A     | 2076 | 1/1   | 0.87 | 0.50 | 72,72,72,72                | 0     |
| 85  | MG   | 1     | 4173 | 1/1   | 0.87 | 0.34 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 4067 | 1/1   | 0.87 | 0.29 | 51,51,51,51                | 0     |
| 85  | MG   | 1     | 3948 | 1/1   | 0.87 | 0.18 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 4024 | 1/1   | 0.87 | 0.41 | 43,43,43,43                | 0     |
| 85  | MG   | sR    | 2140 | 1/1   | 0.87 | 0.23 | 69,69,69,69                | 0     |
| 85  | MG   | x     | 204  | 1/1   | 0.87 | 0.37 | 33,33,33,33                | 0     |
| 84  | OHX  | AR    | 3646 | 7/7   | 0.87 | 0.28 | 162,162,163,163            | 0     |
| 85  | MG   | z     | 202  | 1/1   | 0.87 | 0.27 | 63,63,63,63                | 0     |
| 85  | MG   | A     | 2089 | 1/1   | 0.87 | 0.43 | 72,72,72,72                | 0     |
| 85  | MG   | AR    | 4088 | 1/1   | 0.87 | 0.34 | 46,46,46,46                | 0     |
| 84  | OHX  | 1     | 3729 | 7/7   | 0.87 | 0.46 | 178,179,179,179            | 0     |
| 85  | MG   | AR    | 4209 | 1/1   | 0.87 | 0.31 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 4090 | 1/1   | 0.87 | 0.46 | 50,50,50,50                | 0     |
| 85  | MG   | sR    | 2164 | 1/1   | 0.87 | 0.23 | 107,107,107,107            | 0     |
| 85  | MG   | AR    | 4224 | 1/1   | 0.87 | 0.20 | 79,79,79,79                | 0     |
| 84  | OHX  | c3    | 201  | 7/7   | 0.87 | 0.21 | 189,190,191,191            | 0     |
| 84  | OHX  | 1     | 3710 | 7/7   | 0.87 | 0.18 | 243,243,244,244            | 0     |
| 84  | OHX  | 1     | 3726 | 7/7   | 0.87 | 0.45 | 182,183,183,183            | 0     |
| 85  | MG   | 1     | 3967 | 1/1   | 0.87 | 0.44 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 3762 | 1/1   | 0.87 | 0.31 | 37,37,37,37                | 0     |
| 85  | MG   | AR    | 4112 | 1/1   | 0.87 | 0.33 | 54,54,54,54                | 0     |
| 85  | MG   | AR    | 3768 | 1/1   | 0.87 | 0.38 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 4244 | 1/1   | 0.87 | 0.21 | 52,52,52,52                | 0     |
| 85  | MG   | A     | 2127 | 1/1   | 0.87 | 0.25 | 72,72,72,72                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | 1     | 4191 | 1/1   | 0.87 | 0.09 | 52,52,52,52                | 0     |
| 85  | MG   | c8    | 202  | 1/1   | 0.87 | 0.30 | 80,80,80,80                | 0     |
| 85  | MG   | 1     | 4038 | 1/1   | 0.87 | 0.30 | 47,47,47,47                | 0     |
| 85  | MG   | AR    | 4248 | 1/1   | 0.87 | 0.73 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 3754 | 1/1   | 0.87 | 0.48 | 50,50,50,50                | 0     |
| 84  | OHX  | AR    | 3744 | 7/7   | 0.87 | 0.51 | 196,196,197,197            | 0     |
| 85  | MG   | AR    | 4035 | 1/1   | 0.88 | 0.19 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 4181 | 1/1   | 0.88 | 0.47 | 51,51,51,51                | 0     |
| 84  | OHX  | 1     | 3607 | 7/7   | 0.88 | 0.23 | 152,152,153,153            | 0     |
| 85  | MG   | 1     | 4200 | 1/1   | 0.88 | 0.61 | 49,49,49,49                | 0     |
| 85  | MG   | AR    | 3814 | 1/1   | 0.88 | 0.33 | 82,82,82,82                | 0     |
| 85  | MG   | AR    | 4041 | 1/1   | 0.88 | 0.45 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 3815 | 1/1   | 0.88 | 0.35 | 35,35,35,35                | 0     |
| 84  | OHX  | AR    | 3730 | 7/7   | 0.88 | 0.17 | 207,207,208,208            | 0     |
| 85  | MG   | 1     | 4111 | 1/1   | 0.88 | 0.29 | 50,50,50,50                | 0     |
| 84  | OHX  | AR    | 3522 | 7/7   | 0.88 | 0.17 | 164,165,165,165            | 0     |
| 84  | OHX  | AR    | 3674 | 7/7   | 0.88 | 0.23 | 153,153,153,154            | 0     |
| 84  | OHX  | 1     | 3716 | 7/7   | 0.88 | 0.39 | 164,164,165,165            | 0     |
| 85  | MG   | 1     | 3733 | 1/1   | 0.88 | 0.80 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 4210 | 1/1   | 0.88 | 0.32 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 4214 | 1/1   | 0.88 | 0.26 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 4215 | 1/1   | 0.88 | 0.54 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 4219 | 1/1   | 0.88 | 0.21 | 40,40,40,40                | 0     |
| 85  | MG   | 1     | 3829 | 1/1   | 0.88 | 0.42 | 41,41,41,41                | 0     |
| 85  | MG   | AR    | 3840 | 1/1   | 0.88 | 0.29 | 68,68,68,68                | 0     |
| 85  | MG   | 1     | 4124 | 1/1   | 0.88 | 0.33 | 71,71,71,71                | 0     |
| 85  | MG   | A     | 2147 | 1/1   | 0.88 | 0.19 | 103,103,103,103            | 0     |
| 85  | MG   | AR    | 4057 | 1/1   | 0.88 | 0.12 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 3851 | 1/1   | 0.88 | 0.51 | 50,50,50,50                | 0     |
| 84  | OHX  | AR    | 3677 | 7/7   | 0.88 | 0.36 | 146,146,147,147            | 0     |
| 85  | MG   | AR    | 4065 | 1/1   | 0.88 | 0.55 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 4127 | 1/1   | 0.88 | 0.20 | 64,64,64,64                | 0     |
| 85  | MG   | AR    | 4069 | 1/1   | 0.88 | 0.43 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 4075 | 1/1   | 0.88 | 0.23 | 58,58,58,58                | 0     |
| 85  | MG   | 1     | 3963 | 1/1   | 0.88 | 0.29 | 33,33,33,33                | 0     |
| 85  | MG   | 1     | 3746 | 1/1   | 0.88 | 0.31 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 3905 | 1/1   | 0.88 | 0.56 | 49,49,49,49                | 0     |
| 85  | MG   | sR    | 2071 | 1/1   | 0.88 | 0.43 | 38,38,38,38                | 0     |
| 85  | MG   | 1     | 3848 | 1/1   | 0.88 | 0.44 | 43,43,43,43                | 0     |
| 85  | MG   | 1     | 4146 | 1/1   | 0.88 | 0.24 | 76,76,76,76                | 0     |
| 85  | MG   | AT    | 219  | 1/1   | 0.88 | 0.39 | 38,38,38,38                | 0     |
| 85  | MG   | 1     | 3852 | 1/1   | 0.88 | 0.43 | 73,73,73,73                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | AT    | 223  | 1/1   | 0.88 | 0.70 | 58,58,58,58                | 0     |
| 84  | OHX  | AR    | 3743 | 7/7   | 0.88 | 0.16 | 160,161,161,162            | 0     |
| 85  | MG   | 1     | 3977 | 1/1   | 0.88 | 0.21 | 48,48,48,48                | 0     |
| 85  | MG   | 1     | 4054 | 1/1   | 0.88 | 0.44 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 4094 | 1/1   | 0.88 | 0.29 | 56,56,56,56                | 0     |
| 85  | MG   | sR    | 2092 | 1/1   | 0.88 | 0.45 | 77,77,77,77                | 0     |
| 85  | MG   | AR    | 3953 | 1/1   | 0.88 | 0.58 | 48,48,48,48                | 0     |
| 85  | MG   | sR    | 2096 | 1/1   | 0.88 | 0.51 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 3978 | 1/1   | 0.88 | 0.38 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3708 | 7/7   | 0.88 | 0.31 | 195,196,197,197            | 0     |
| 85  | MG   | CJ    | 301  | 1/1   | 0.88 | 0.28 | 75,75,75,75                | 0     |
| 85  | MG   | v     | 304  | 1/1   | 0.88 | 0.47 | 46,46,46,46                | 0     |
| 84  | OHX  | 3     | 208  | 7/7   | 0.88 | 0.18 | 190,190,191,191            | 0     |
| 84  | OHX  | 1     | 3617 | 7/7   | 0.88 | 0.33 | 165,165,166,166            | 0     |
| 85  | MG   | CR    | 202  | 1/1   | 0.88 | 0.35 | 39,39,39,39                | 0     |
| 85  | MG   | 1     | 4064 | 1/1   | 0.88 | 0.20 | 57,57,57,57                | 0     |
| 85  | MG   | CR    | 206  | 1/1   | 0.88 | 0.29 | 46,46,46,46                | 0     |
| 85  | MG   | sR    | 2126 | 1/1   | 0.88 | 0.36 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 3977 | 1/1   | 0.88 | 0.23 | 24,24,24,24                | 0     |
| 85  | MG   | sR    | 2137 | 1/1   | 0.88 | 0.15 | 61,61,61,61                | 0     |
| 84  | OHX  | AR    | 3713 | 7/7   | 0.88 | 0.29 | 164,164,164,164            | 0     |
| 85  | MG   | 1     | 3877 | 1/1   | 0.88 | 0.25 | 56,56,56,56                | 0     |
| 85  | MG   | 1     | 3775 | 1/1   | 0.88 | 0.18 | 72,72,72,72                | 0     |
| 84  | OHX  | 1     | 3720 | 7/7   | 0.88 | 0.45 | 163,163,163,163            | 0     |
| 85  | MG   | AP    | 503  | 1/1   | 0.88 | 0.14 | 68,68,68,68                | 0     |
| 85  | MG   | 1     | 4081 | 1/1   | 0.88 | 0.34 | 52,52,52,52                | 0     |
| 85  | MG   | A     | 2052 | 1/1   | 0.88 | 0.51 | 53,53,53,53                | 0     |
| 84  | OHX  | AT    | 218  | 7/7   | 0.88 | 0.34 | 162,162,163,163            | 0     |
| 85  | MG   | A     | 2056 | 1/1   | 0.88 | 0.38 | 47,47,47,47                | 0     |
| 85  | MG   | A     | 2060 | 1/1   | 0.88 | 0.56 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 3888 | 1/1   | 0.88 | 0.10 | 54,54,54,54                | 0     |
| 84  | OHX  | CF    | 402  | 7/7   | 0.88 | 0.51 | 190,191,192,192            | 0     |
| 85  | MG   | AR    | 3766 | 1/1   | 0.88 | 0.32 | 58,58,58,58                | 0     |
| 85  | MG   | sR    | 2174 | 1/1   | 0.88 | 0.29 | 53,53,53,53                | 0     |
| 85  | MG   | 1     | 4182 | 1/1   | 0.88 | 0.55 | 75,75,75,75                | 0     |
| 85  | MG   | 1     | 3786 | 1/1   | 0.88 | 0.40 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 4018 | 1/1   | 0.88 | 0.53 | 50,50,50,50                | 0     |
| 84  | OHX  | AR    | 3720 | 7/7   | 0.88 | 0.37 | 169,170,170,170            | 0     |
| 85  | MG   | 1     | 4010 | 1/1   | 0.88 | 0.57 | 51,51,51,51                | 0     |
| 85  | MG   | 1     | 4011 | 1/1   | 0.88 | 0.54 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 4026 | 1/1   | 0.88 | 0.24 | 46,46,46,46                | 0     |
| 85  | MG   | 1     | 4015 | 1/1   | 0.88 | 0.21 | 56,56,56,56                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4016 | 1/1   | 0.88 | 0.34 | 51,51,51,51                 | 0     |
| 85  | MG   | s8    | 302  | 1/1   | 0.88 | 0.31 | 54,54,54,54                 | 0     |
| 85  | MG   | AR    | 4167 | 1/1   | 0.88 | 0.30 | 44,44,44,44                 | 0     |
| 85  | MG   | d3    | 201  | 1/1   | 0.88 | 0.30 | 55,55,55,55                 | 0     |
| 84  | OHX  | 1     | 3721 | 7/7   | 0.88 | 0.42 | 172,172,173,173             | 0     |
| 85  | MG   | AR    | 4030 | 1/1   | 0.88 | 0.21 | 34,34,34,34                 | 0     |
| 85  | MG   | AR    | 4031 | 1/1   | 0.88 | 0.24 | 73,73,73,73                 | 0     |
| 85  | MG   | AR    | 3797 | 1/1   | 0.88 | 0.47 | 56,56,56,56                 | 0     |
| 87  | ZN   | c     | 101  | 1/1   | 0.88 | 0.39 | 190,190,190,190             | 0     |
| 87  | ZN   | e1    | 501  | 1/1   | 0.88 | 0.03 | 156,156,156,156             | 0     |
| 85  | MG   | AR    | 4019 | 1/1   | 0.89 | 0.25 | 35,35,35,35                 | 0     |
| 85  | MG   | AR    | 3757 | 1/1   | 0.89 | 0.33 | 29,29,29,29                 | 0     |
| 84  | OHX  | A     | 2038 | 7/7   | 0.89 | 0.52 | 164,164,166,166             | 0     |
| 85  | MG   | A     | 2103 | 1/1   | 0.89 | 0.40 | 89,89,89,89                 | 0     |
| 85  | MG   | AR    | 4173 | 1/1   | 0.89 | 0.26 | 54,54,54,54                 | 0     |
| 84  | OHX  | 1     | 3728 | 7/7   | 0.89 | 0.33 | 211,212,212,212             | 0     |
| 85  | MG   | AR    | 4178 | 1/1   | 0.89 | 0.06 | 94,94,94,94                 | 0     |
| 84  | OHX  | 1     | 3713 | 7/7   | 0.89 | 0.27 | 138,139,139,139             | 0     |
| 84  | OHX  | 1     | 3730 | 7/7   | 0.89 | 0.36 | 159,160,160,160             | 0     |
| 85  | MG   | 1     | 3957 | 1/1   | 0.89 | 0.21 | 56,56,56,56                 | 0     |
| 84  | OHX  | AR    | 3602 | 7/7   | 0.89 | 0.27 | 173,174,174,175             | 0     |
| 85  | MG   | AR    | 3776 | 1/1   | 0.89 | 0.22 | 31,31,31,31                 | 0     |
| 85  | MG   | AR    | 4193 | 1/1   | 0.89 | 0.28 | 57,57,57,57                 | 0     |
| 84  | OHX  | AR    | 3723 | 7/7   | 0.89 | 0.34 | 168,168,168,169             | 0     |
| 84  | OHX  | sR    | 1991 | 7/7   | 0.89 | 0.31 | 174,175,175,176             | 0     |
| 84  | OHX  | sR    | 2003 | 7/7   | 0.89 | 0.21 | 188,188,189,189             | 0     |
| 85  | MG   | AR    | 4198 | 1/1   | 0.89 | 0.55 | 54,54,54,54                 | 0     |
| 84  | OHX  | AR    | 3724 | 7/7   | 0.89 | 0.39 | 217,218,219,219             | 0     |
| 85  | MG   | 1     | 3816 | 1/1   | 0.89 | 0.31 | 47,47,47,47                 | 0     |
| 84  | OHX  | AT    | 213  | 7/7   | 0.89 | 0.29 | 187,187,187,187             | 0     |
| 85  | MG   | 1     | 4075 | 1/1   | 0.89 | 0.26 | 75,75,75,75                 | 0     |
| 84  | OHX  | 1     | 3671 | 7/7   | 0.89 | 0.44 | 152,153,154,154             | 0     |
| 85  | MG   | AR    | 4211 | 1/1   | 0.89 | 0.41 | 69,69,69,69                 | 0     |
| 85  | MG   | 1     | 4186 | 1/1   | 0.89 | 0.32 | 59,59,59,59                 | 0     |
| 84  | OHX  | sR    | 2042 | 7/7   | 0.89 | 0.29 | 179,180,180,181             | 0     |
| 84  | OHX  | sR    | 2046 | 7/7   | 0.89 | 0.40 | 178,178,178,179             | 0     |
| 85  | MG   | AR    | 3818 | 1/1   | 0.89 | 0.33 | 32,32,32,32                 | 0     |
| 85  | MG   | Y     | 201  | 1/1   | 0.89 | 0.17 | 55,55,55,55                 | 0     |
| 85  | MG   | b     | 101  | 1/1   | 0.89 | 0.22 | 75,75,75,75                 | 0     |
| 84  | OHX  | sR    | 2047 | 7/7   | 0.89 | 0.26 | 195,195,196,196             | 0     |
| 85  | MG   | AR    | 4226 | 1/1   | 0.89 | 0.28 | 38,38,38,38                 | 0     |
| 85  | MG   | 1     | 3832 | 1/1   | 0.89 | 0.44 | 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 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | 1     | 3724 | 7/7   | 0.89 | 0.47 | 186,186,187,188            | 0     |
| 85  | MG   | 1     | 4199 | 1/1   | 0.89 | 0.40 | 31,31,31,31                | 0     |
| 84  | OHX  | AR    | 3729 | 7/7   | 0.89 | 0.31 | 177,177,178,178            | 0     |
| 85  | MG   | 1     | 4216 | 1/1   | 0.89 | 0.12 | 53,53,53,53                | 0     |
| 84  | OHX  | 1     | 3699 | 7/7   | 0.89 | 0.32 | 151,151,152,152            | 0     |
| 85  | MG   | AR    | 4237 | 1/1   | 0.89 | 0.71 | 59,59,59,59                | 0     |
| 84  | OHX  | AR    | 3688 | 7/7   | 0.89 | 0.42 | 182,182,182,183            | 0     |
| 85  | MG   | 1     | 4000 | 1/1   | 0.89 | 0.32 | 60,60,60,60                | 0     |
| 84  | OHX  | AR    | 3733 | 7/7   | 0.89 | 0.38 | 153,153,154,154            | 0     |
| 85  | MG   | 1     | 4107 | 1/1   | 0.89 | 0.19 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 3884 | 1/1   | 0.89 | 0.24 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4251 | 1/1   | 0.89 | 0.09 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 3893 | 1/1   | 0.89 | 0.39 | 32,32,32,32                | 0     |
| 85  | MG   | AS    | 218  | 1/1   | 0.89 | 0.25 | 60,60,60,60                | 0     |
| 85  | MG   | 4     | 216  | 1/1   | 0.89 | 0.62 | 55,55,55,55                | 0     |
| 85  | MG   | 4     | 222  | 1/1   | 0.89 | 0.47 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 4083 | 1/1   | 0.89 | 0.16 | 57,57,57,57                | 0     |
| 85  | MG   | AT    | 222  | 1/1   | 0.89 | 0.72 | 48,48,48,48                | 0     |
| 84  | OHX  | 1     | 3648 | 7/7   | 0.89 | 0.20 | 195,195,195,196            | 0     |
| 84  | OHX  | A     | 2007 | 7/7   | 0.89 | 0.19 | 220,222,222,223            | 0     |
| 85  | MG   | 1     | 3741 | 1/1   | 0.89 | 0.34 | 43,43,43,43                | 0     |
| 84  | OHX  | A     | 2011 | 7/7   | 0.89 | 0.22 | 182,183,183,183            | 0     |
| 85  | MG   | 1     | 4114 | 1/1   | 0.89 | 0.75 | 57,57,57,57                | 0     |
| 85  | MG   | 1     | 3749 | 1/1   | 0.89 | 0.54 | 41,41,41,41                | 0     |
| 85  | MG   | 1     | 3750 | 1/1   | 0.89 | 0.21 | 57,57,57,57                | 0     |
| 85  | MG   | AR    | 3927 | 1/1   | 0.89 | 0.48 | 36,36,36,36                | 0     |
| 85  | MG   | AR    | 3944 | 1/1   | 0.89 | 0.55 | 41,41,41,41                | 0     |
| 85  | MG   | AR    | 3951 | 1/1   | 0.89 | 0.12 | 39,39,39,39                | 0     |
| 85  | MG   | sR    | 2133 | 1/1   | 0.89 | 0.30 | 50,50,50,50                | 0     |
| 85  | MG   | sR    | 2136 | 1/1   | 0.89 | 0.33 | 71,71,71,71                | 0     |
| 85  | MG   | CM    | 203  | 1/1   | 0.89 | 0.14 | 60,60,60,60                | 0     |
| 85  | MG   | AR    | 4105 | 1/1   | 0.89 | 0.33 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 4107 | 1/1   | 0.89 | 0.28 | 38,38,38,38                | 0     |
| 84  | OHX  | AR    | 3736 | 7/7   | 0.89 | 0.32 | 154,155,155,156            | 0     |
| 85  | MG   | 1     | 4019 | 1/1   | 0.89 | 0.45 | 53,53,53,53                | 0     |
| 85  | MG   | sR    | 2145 | 1/1   | 0.89 | 0.36 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 3963 | 1/1   | 0.89 | 0.14 | 34,34,34,34                | 0     |
| 85  | MG   | sR    | 2154 | 1/1   | 0.89 | 0.14 | 72,72,72,72                | 0     |
| 85  | MG   | sR    | 2155 | 1/1   | 0.89 | 0.22 | 67,67,67,67                | 0     |
| 85  | MG   | AR    | 3965 | 1/1   | 0.89 | 0.19 | 46,46,46,46                | 0     |
| 84  | OHX  | AR    | 3737 | 7/7   | 0.89 | 0.26 | 189,189,190,190            | 0     |
| 85  | MG   | 1     | 3889 | 1/1   | 0.89 | 0.40 | 52,52,52,52                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4022 | 1/1   | 0.89 | 0.31 | 42,42,42,42                 | 0     |
| 84  | OHX  | AR    | 3739 | 7/7   | 0.89 | 0.45 | 190,191,191,191             | 0     |
| 85  | MG   | 1     | 4128 | 1/1   | 0.89 | 0.30 | 53,53,53,53                 | 0     |
| 85  | MG   | 1     | 4025 | 1/1   | 0.89 | 0.22 | 36,36,36,36                 | 0     |
| 85  | MG   | AR    | 3978 | 1/1   | 0.89 | 0.21 | 55,55,55,55                 | 0     |
| 85  | MG   | AR    | 4137 | 1/1   | 0.89 | 0.33 | 61,61,61,61                 | 0     |
| 85  | MG   | A     | 2054 | 1/1   | 0.89 | 0.31 | 61,61,61,61                 | 0     |
| 85  | MG   | u     | 201  | 1/1   | 0.89 | 0.19 | 62,62,62,62                 | 0     |
| 85  | MG   | AR    | 3981 | 1/1   | 0.89 | 0.45 | 39,39,39,39                 | 0     |
| 85  | MG   | AR    | 4141 | 1/1   | 0.89 | 0.50 | 81,81,81,81                 | 0     |
| 85  | MG   | 1     | 3758 | 1/1   | 0.89 | 0.31 | 41,41,41,41                 | 0     |
| 85  | MG   | AR    | 4148 | 1/1   | 0.89 | 0.42 | 50,50,50,50                 | 0     |
| 84  | OHX  | A     | 2030 | 7/7   | 0.89 | 0.33 | 163,164,165,165             | 0     |
| 85  | MG   | 1     | 4140 | 1/1   | 0.89 | 0.44 | 56,56,56,56                 | 0     |
| 85  | MG   | 1     | 3764 | 1/1   | 0.89 | 0.53 | 47,47,47,47                 | 0     |
| 85  | MG   | 1     | 3938 | 1/1   | 0.89 | 0.45 | 52,52,52,52                 | 0     |
| 85  | MG   | c6    | 201  | 1/1   | 0.89 | 0.23 | 82,82,82,82                 | 0     |
| 84  | OHX  | AR    | 3702 | 7/7   | 0.89 | 0.33 | 156,156,157,157             | 0     |
| 85  | MG   | 1     | 3773 | 1/1   | 0.89 | 0.44 | 28,28,28,28                 | 0     |
| 85  | MG   | 1     | 3942 | 1/1   | 0.89 | 0.27 | 44,44,44,44                 | 0     |
| 85  | MG   | 1     | 4044 | 1/1   | 0.89 | 0.25 | 39,39,39,39                 | 0     |
| 85  | MG   | 1     | 3943 | 1/1   | 0.89 | 0.36 | 40,40,40,40                 | 0     |
| 85  | MG   | AR    | 4013 | 1/1   | 0.89 | 0.60 | 52,52,52,52                 | 0     |
| 84  | OHX  | AR    | 3708 | 7/7   | 0.89 | 0.34 | 181,182,182,182             | 0     |
| 85  | MG   | AR    | 3755 | 1/1   | 0.89 | 0.33 | 49,49,49,49                 | 0     |
| 84  | OHX  | sR    | 2009 | 7/7   | 0.90 | 0.14 | 175,176,176,177             | 0     |
| 84  | OHX  | sR    | 2020 | 7/7   | 0.90 | 0.31 | 174,175,176,176             | 0     |
| 84  | OHX  | AR    | 3715 | 7/7   | 0.90 | 0.26 | 139,139,139,139             | 0     |
| 85  | MG   | A     | 2111 | 1/1   | 0.90 | 0.52 | 86,86,86,86                 | 0     |
| 85  | MG   | 1     | 3895 | 1/1   | 0.90 | 0.58 | 50,50,50,50                 | 0     |
| 85  | MG   | AR    | 4040 | 1/1   | 0.90 | 0.19 | 53,53,53,53                 | 0     |
| 85  | MG   | 3     | 209  | 1/1   | 0.90 | 0.31 | 49,49,49,49                 | 0     |
| 84  | OHX  | sR    | 2034 | 7/7   | 0.90 | 0.30 | 177,178,179,179             | 0     |
| 84  | OHX  | 1     | 3693 | 7/7   | 0.90 | 0.38 | 183,184,184,184             | 0     |
| 85  | MG   | A     | 2128 | 1/1   | 0.90 | 0.35 | 63,63,63,63                 | 0     |
| 85  | MG   | AR    | 4044 | 1/1   | 0.90 | 0.17 | 44,44,44,44                 | 0     |
| 85  | MG   | AR    | 3832 | 1/1   | 0.90 | 0.17 | 53,53,53,53                 | 0     |
| 84  | OHX  | A     | 1997 | 7/7   | 0.90 | 0.27 | 179,180,180,180             | 0     |
| 85  | MG   | 1     | 3929 | 1/1   | 0.90 | 0.67 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 4113 | 1/1   | 0.90 | 0.30 | 43,43,43,43                 | 0     |
| 84  | OHX  | AR    | 3719 | 7/7   | 0.90 | 0.21 | 227,227,228,228             | 0     |
| 85  | MG   | AR    | 3843 | 1/1   | 0.90 | 0.39 | 41,41,41,41                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | sR    | 2044 | 7/7   | 0.90 | 0.27 | 194,194,195,195            | 0     |
| 85  | MG   | A     | 2140 | 1/1   | 0.90 | 0.49 | 57,57,57,57                | 0     |
| 84  | OHX  | 1     | 3696 | 7/7   | 0.90 | 0.39 | 213,214,214,214            | 0     |
| 84  | OHX  | A     | 2012 | 7/7   | 0.90 | 0.26 | 162,162,163,163            | 0     |
| 85  | MG   | AR    | 3878 | 1/1   | 0.90 | 0.41 | 51,51,51,51                | 0     |
| 84  | OHX  | sR    | 2049 | 7/7   | 0.90 | 0.20 | 217,218,219,219            | 0     |
| 85  | MG   | 1     | 3811 | 1/1   | 0.90 | 0.24 | 77,77,77,77                | 0     |
| 84  | OHX  | AR    | 3614 | 7/7   | 0.90 | 0.32 | 151,152,152,152            | 0     |
| 85  | MG   | 1     | 3947 | 1/1   | 0.90 | 0.41 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 4070 | 1/1   | 0.90 | 0.51 | 63,63,63,63                | 0     |
| 85  | MG   | sR    | 2059 | 1/1   | 0.90 | 0.42 | 63,63,63,63                | 0     |
| 85  | MG   | AR    | 4073 | 1/1   | 0.90 | 0.14 | 62,62,62,62                | 0     |
| 85  | MG   | sR    | 2062 | 1/1   | 0.90 | 0.41 | 47,47,47,47                | 0     |
| 85  | MG   | 1     | 4126 | 1/1   | 0.90 | 0.41 | 54,54,54,54                | 0     |
| 84  | OHX  | A     | 2022 | 7/7   | 0.90 | 0.29 | 194,195,195,196            | 0     |
| 85  | MG   | 1     | 3821 | 1/1   | 0.90 | 0.25 | 27,27,27,27                | 0     |
| 85  | MG   | 1     | 4034 | 1/1   | 0.90 | 0.22 | 34,34,34,34                | 0     |
| 84  | OHX  | AR    | 3681 | 7/7   | 0.90 | 0.26 | 165,165,166,166            | 0     |
| 85  | MG   | AR    | 4084 | 1/1   | 0.90 | 0.25 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 4134 | 1/1   | 0.90 | 0.24 | 43,43,43,43                | 0     |
| 85  | MG   | 1     | 4135 | 1/1   | 0.90 | 0.47 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 3924 | 1/1   | 0.90 | 0.36 | 35,35,35,35                | 0     |
| 85  | MG   | AS    | 220  | 1/1   | 0.90 | 0.24 | 70,70,70,70                | 0     |
| 85  | MG   | AS    | 227  | 1/1   | 0.90 | 0.30 | 57,57,57,57                | 0     |
| 84  | OHX  | A     | 2025 | 7/7   | 0.90 | 0.27 | 202,203,204,204            | 0     |
| 85  | MG   | AR    | 3940 | 1/1   | 0.90 | 0.34 | 28,28,28,28                | 0     |
| 85  | MG   | 1     | 3825 | 1/1   | 0.90 | 0.25 | 75,75,75,75                | 0     |
| 85  | MG   | 1     | 3958 | 1/1   | 0.90 | 0.39 | 71,71,71,71                | 0     |
| 85  | MG   | v     | 303  | 1/1   | 0.90 | 0.47 | 45,45,45,45                | 0     |
| 84  | OHX  | 1     | 3631 | 7/7   | 0.90 | 0.23 | 170,170,171,172            | 0     |
| 84  | OHX  | 1     | 3725 | 7/7   | 0.90 | 0.11 | 188,189,189,189            | 0     |
| 85  | MG   | 1     | 3965 | 1/1   | 0.90 | 0.37 | 42,42,42,42                | 0     |
| 85  | MG   | sR    | 2105 | 1/1   | 0.90 | 0.46 | 56,56,56,56                | 0     |
| 84  | OHX  | AR    | 3727 | 7/7   | 0.90 | 0.31 | 174,174,174,175            | 0     |
| 84  | OHX  | 1     | 3629 | 7/7   | 0.90 | 0.19 | 163,163,163,163            | 0     |
| 85  | MG   | AR    | 4111 | 1/1   | 0.90 | 0.09 | 41,41,41,41                | 0     |
| 85  | MG   | 1     | 4159 | 1/1   | 0.90 | 0.34 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 3969 | 1/1   | 0.90 | 0.24 | 66,66,66,66                | 0     |
| 85  | MG   | AR    | 4116 | 1/1   | 0.90 | 0.47 | 65,65,65,65                | 0     |
| 85  | MG   | 1     | 3843 | 1/1   | 0.90 | 0.40 | 34,34,34,34                | 0     |
| 85  | MG   | AR    | 4120 | 1/1   | 0.90 | 0.27 | 45,45,45,45                | 0     |
| 85  | MG   | 1     | 4060 | 1/1   | 0.90 | 0.23 | 47,47,47,47                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | CQ    | 201  | 1/1   | 0.90 | 0.34 | 48,48,48,48                | 0     |
| 84  | OHX  | AR    | 3701 | 7/7   | 0.90 | 0.24 | 168,168,169,169            | 0     |
| 85  | MG   | 1     | 4164 | 1/1   | 0.90 | 0.38 | 34,34,34,34                | 0     |
| 84  | OHX  | AT    | 217  | 7/7   | 0.90 | 0.28 | 153,153,153,153            | 0     |
| 84  | OHX  | 1     | 3678 | 7/7   | 0.90 | 0.23 | 189,189,190,190            | 0     |
| 84  | OHX  | AR    | 3659 | 7/7   | 0.90 | 0.31 | 144,144,145,145            | 0     |
| 85  | MG   | DC    | 201  | 1/1   | 0.90 | 0.47 | 44,44,44,44                | 0     |
| 84  | OHX  | AR    | 3734 | 7/7   | 0.90 | 0.17 | 240,241,242,242            | 0     |
| 85  | MG   | sR    | 2143 | 1/1   | 0.90 | 0.14 | 51,51,51,51                | 0     |
| 85  | MG   | AR    | 3988 | 1/1   | 0.90 | 0.31 | 54,54,54,54                | 0     |
| 85  | MG   | 1     | 4072 | 1/1   | 0.90 | 0.23 | 44,44,44,44                | 0     |
| 85  | MG   | sR    | 2153 | 1/1   | 0.90 | 0.33 | 63,63,63,63                | 0     |
| 85  | MG   | AR    | 3992 | 1/1   | 0.90 | 0.22 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 3993 | 1/1   | 0.90 | 0.20 | 41,41,41,41                | 0     |
| 85  | MG   | AR    | 3994 | 1/1   | 0.90 | 0.57 | 49,49,49,49                | 0     |
| 85  | MG   | 1     | 3867 | 1/1   | 0.90 | 0.60 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 3771 | 1/1   | 0.90 | 0.47 | 49,49,49,49                | 0     |
| 85  | MG   | 1     | 4179 | 1/1   | 0.90 | 0.19 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 4074 | 1/1   | 0.90 | 0.30 | 53,53,53,53                | 0     |
| 84  | OHX  | 1     | 3703 | 7/7   | 0.90 | 0.36 | 209,209,210,210            | 0     |
| 85  | MG   | sR    | 2169 | 1/1   | 0.90 | 0.70 | 55,55,55,55                | 0     |
| 85  | MG   | A     | 2063 | 1/1   | 0.90 | 0.44 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 4011 | 1/1   | 0.90 | 0.41 | 30,30,30,30                | 0     |
| 85  | MG   | AR    | 4160 | 1/1   | 0.90 | 0.34 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3874 | 1/1   | 0.90 | 0.43 | 36,36,36,36                | 0     |
| 84  | OHX  | sR    | 1969 | 7/7   | 0.90 | 0.17 | 155,155,156,156            | 0     |
| 85  | MG   | AR    | 3780 | 1/1   | 0.90 | 0.35 | 76,76,76,76                | 0     |
| 85  | MG   | A     | 2080 | 1/1   | 0.90 | 0.44 | 59,59,59,59                | 0     |
| 85  | MG   | sR    | 2184 | 1/1   | 0.90 | 0.25 | 55,55,55,55                | 0     |
| 84  | OHX  | 1     | 3654 | 7/7   | 0.90 | 0.22 | 159,159,159,159            | 0     |
| 85  | MG   | AR    | 3785 | 1/1   | 0.90 | 0.29 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 3991 | 1/1   | 0.90 | 0.62 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 3794 | 1/1   | 0.90 | 0.40 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 3795 | 1/1   | 0.90 | 0.24 | 39,39,39,39                | 0     |
| 84  | OHX  | sR    | 1998 | 7/7   | 0.90 | 0.21 | 190,191,192,192            | 0     |
| 85  | MG   | 1     | 3879 | 1/1   | 0.90 | 0.46 | 43,43,43,43                | 0     |
| 85  | MG   | 1     | 4096 | 1/1   | 0.90 | 0.34 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 4174 | 1/1   | 0.90 | 0.21 | 60,60,60,60                | 0     |
| 85  | MG   | AR    | 3809 | 1/1   | 0.90 | 0.49 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 4177 | 1/1   | 0.90 | 0.19 | 45,45,45,45                | 0     |
| 84  | OHX  | DL    | 101  | 7/7   | 0.90 | 0.34 | 167,167,167,167            | 0     |
| 85  | MG   | AR    | 3813 | 1/1   | 0.90 | 0.22 | 60,60,60,60                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | d9    | 102  | 1/1   | 0.90 | 0.13 | 94,94,94,94                | 0     |
| 85  | MG   | AR    | 4032 | 1/1   | 0.90 | 0.34 | 40,40,40,40                | 0     |
| 85  | MG   | 1     | 4002 | 1/1   | 0.90 | 0.38 | 38,38,38,38                | 0     |
| 84  | OHX  | sR    | 2036 | 7/7   | 0.91 | 0.34 | 173,173,174,175            | 0     |
| 85  | MG   | 1     | 4057 | 1/1   | 0.91 | 0.31 | 68,68,68,68                | 0     |
| 85  | MG   | AR    | 4152 | 1/1   | 0.91 | 0.36 | 69,69,69,69                | 0     |
| 85  | MG   | AR    | 4154 | 1/1   | 0.91 | 0.34 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3606 | 7/7   | 0.91 | 0.35 | 141,142,142,143            | 0     |
| 85  | MG   | AR    | 4001 | 1/1   | 0.91 | 0.69 | 65,65,65,65                | 0     |
| 84  | OHX  | A     | 1981 | 7/7   | 0.91 | 0.11 | 215,217,217,217            | 0     |
| 85  | MG   | AR    | 4159 | 1/1   | 0.91 | 0.63 | 51,51,51,51                | 0     |
| 84  | OHX  | A     | 1993 | 7/7   | 0.91 | 0.42 | 172,173,174,174            | 0     |
| 85  | MG   | A     | 2095 | 1/1   | 0.91 | 0.37 | 79,79,79,79                | 0     |
| 85  | MG   | 1     | 4166 | 1/1   | 0.91 | 0.23 | 70,70,70,70                | 0     |
| 84  | OHX  | AR    | 3511 | 7/7   | 0.91 | 0.21 | 126,127,127,127            | 0     |
| 85  | MG   | A     | 2101 | 1/1   | 0.91 | 0.64 | 63,63,63,63                | 0     |
| 85  | MG   | AR    | 4009 | 1/1   | 0.91 | 0.57 | 35,35,35,35                | 0     |
| 85  | MG   | AR    | 4010 | 1/1   | 0.91 | 0.38 | 62,62,62,62                | 0     |
| 84  | OHX  | 1     | 3647 | 7/7   | 0.91 | 0.39 | 147,148,148,148            | 0     |
| 84  | OHX  | 1     | 3555 | 7/7   | 0.91 | 0.19 | 153,153,154,154            | 0     |
| 84  | OHX  | AR    | 3692 | 7/7   | 0.91 | 0.49 | 146,146,146,146            | 0     |
| 85  | MG   | 1     | 4067 | 1/1   | 0.91 | 0.21 | 64,64,64,64                | 0     |
| 85  | MG   | AR    | 4017 | 1/1   | 0.91 | 0.35 | 31,31,31,31                | 0     |
| 85  | MG   | AR    | 3781 | 1/1   | 0.91 | 0.26 | 72,72,72,72                | 0     |
| 85  | MG   | A     | 2112 | 1/1   | 0.91 | 0.30 | 91,91,91,91                | 0     |
| 84  | OHX  | 1     | 3564 | 7/7   | 0.91 | 0.21 | 142,142,143,143            | 0     |
| 85  | MG   | A     | 2114 | 1/1   | 0.91 | 0.31 | 55,55,55,55                | 0     |
| 84  | OHX  | AR    | 3604 | 7/7   | 0.91 | 0.19 | 156,157,157,157            | 0     |
| 85  | MG   | A     | 2117 | 1/1   | 0.91 | 0.53 | 69,69,69,69                | 0     |
| 84  | OHX  | A     | 2023 | 7/7   | 0.91 | 0.28 | 178,179,180,180            | 0     |
| 84  | OHX  | AR    | 3606 | 7/7   | 0.91 | 0.30 | 145,146,146,146            | 0     |
| 84  | OHX  | AR    | 3741 | 7/7   | 0.91 | 0.26 | 172,173,173,173            | 0     |
| 85  | MG   | 1     | 4079 | 1/1   | 0.91 | 0.21 | 55,55,55,55                | 0     |
| 84  | OHX  | d9    | 101  | 7/7   | 0.91 | 0.39 | 182,183,183,184            | 0     |
| 85  | MG   | 1     | 4082 | 1/1   | 0.91 | 0.41 | 58,58,58,58                | 0     |
| 84  | OHX  | A     | 2026 | 7/7   | 0.91 | 0.38 | 150,150,151,151            | 0     |
| 84  | OHX  | A     | 2028 | 7/7   | 0.91 | 0.21 | 186,187,187,188            | 0     |
| 85  | MG   | AR    | 4188 | 1/1   | 0.91 | 0.15 | 46,46,46,46                | 0     |
| 85  | MG   | 1     | 4091 | 1/1   | 0.91 | 0.29 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 4033 | 1/1   | 0.91 | 0.38 | 44,44,44,44                | 0     |
| 84  | OHX  | 1     | 3702 | 7/7   | 0.91 | 0.48 | 192,192,193,193            | 0     |
| 85  | MG   | A     | 2139 | 1/1   | 0.91 | 0.20 | 65,65,65,65                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 3992 | 1/1   | 0.91 | 0.60 | 56,56,56,56                 | 0     |
| 85  | MG   | 1     | 4196 | 1/1   | 0.91 | 0.21 | 68,68,68,68                 | 0     |
| 84  | OHX  | 1     | 3656 | 7/7   | 0.91 | 0.32 | 137,137,137,137             | 0     |
| 85  | MG   | 1     | 3997 | 1/1   | 0.91 | 0.15 | 52,52,52,52                 | 0     |
| 85  | MG   | 1     | 4201 | 1/1   | 0.91 | 0.71 | 47,47,47,47                 | 0     |
| 85  | MG   | 1     | 4204 | 1/1   | 0.91 | 0.38 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 4209 | 1/1   | 0.91 | 0.23 | 42,42,42,42                 | 0     |
| 84  | OHX  | AR    | 3621 | 7/7   | 0.91 | 0.31 | 159,159,160,160             | 0     |
| 85  | MG   | AR    | 4213 | 1/1   | 0.91 | 0.18 | 52,52,52,52                 | 0     |
| 85  | MG   | AR    | 3833 | 1/1   | 0.91 | 0.32 | 56,56,56,56                 | 0     |
| 84  | OHX  | AR    | 3745 | 7/7   | 0.91 | 0.23 | 208,208,209,209             | 0     |
| 85  | MG   | 1     | 3751 | 1/1   | 0.91 | 0.32 | 74,74,74,74                 | 0     |
| 85  | MG   | 3     | 213  | 1/1   | 0.91 | 0.50 | 32,32,32,32                 | 0     |
| 84  | OHX  | 1     | 3665 | 7/7   | 0.91 | 0.38 | 150,150,151,151             | 0     |
| 85  | MG   | sR    | 2067 | 1/1   | 0.91 | 0.33 | 56,56,56,56                 | 0     |
| 84  | OHX  | AR    | 3645 | 7/7   | 0.91 | 0.20 | 165,165,166,166             | 0     |
| 85  | MG   | AR    | 3847 | 1/1   | 0.91 | 0.50 | 52,52,52,52                 | 0     |
| 84  | OHX  | 1     | 3618 | 7/7   | 0.91 | 0.23 | 161,161,161,162             | 0     |
| 85  | MG   | AR    | 3865 | 1/1   | 0.91 | 0.27 | 39,39,39,39                 | 0     |
| 85  | MG   | sR    | 2072 | 1/1   | 0.91 | 0.87 | 70,70,70,70                 | 0     |
| 84  | OHX  | AR    | 3650 | 7/7   | 0.91 | 0.24 | 157,158,158,159             | 0     |
| 85  | MG   | AR    | 4058 | 1/1   | 0.91 | 0.25 | 48,48,48,48                 | 0     |
| 85  | MG   | 1     | 3760 | 1/1   | 0.91 | 0.51 | 49,49,49,49                 | 0     |
| 85  | MG   | 4     | 217  | 1/1   | 0.91 | 0.55 | 47,47,47,47                 | 0     |
| 85  | MG   | AR    | 4062 | 1/1   | 0.91 | 0.20 | 64,64,64,64                 | 0     |
| 85  | MG   | AR    | 3882 | 1/1   | 0.91 | 0.45 | 50,50,50,50                 | 0     |
| 85  | MG   | 4     | 220  | 1/1   | 0.91 | 0.52 | 54,54,54,54                 | 0     |
| 85  | MG   | AR    | 4068 | 1/1   | 0.91 | 0.43 | 57,57,57,57                 | 0     |
| 85  | MG   | AR    | 3889 | 1/1   | 0.91 | 0.48 | 36,36,36,36                 | 0     |
| 85  | MG   | sR    | 2091 | 1/1   | 0.91 | 0.36 | 56,56,56,56                 | 0     |
| 84  | OHX  | AR    | 3722 | 7/7   | 0.91 | 0.23 | 188,188,188,189             | 0     |
| 85  | MG   | AR    | 4071 | 1/1   | 0.91 | 0.25 | 46,46,46,46                 | 0     |
| 85  | MG   | AR    | 3897 | 1/1   | 0.91 | 0.57 | 55,55,55,55                 | 0     |
| 84  | OHX  | H     | 301  | 7/7   | 0.91 | 0.35 | 182,183,184,184             | 0     |
| 85  | MG   | AS    | 221  | 1/1   | 0.91 | 0.17 | 50,50,50,50                 | 0     |
| 85  | MG   | AR    | 4076 | 1/1   | 0.91 | 0.20 | 43,43,43,43                 | 0     |
| 85  | MG   | 1     | 4018 | 1/1   | 0.91 | 0.22 | 43,43,43,43                 | 0     |
| 85  | MG   | AT    | 201  | 1/1   | 0.91 | 0.29 | 57,57,57,57                 | 0     |
| 85  | MG   | AR    | 4080 | 1/1   | 0.91 | 0.46 | 43,43,43,43                 | 0     |
| 85  | MG   | 1     | 3907 | 1/1   | 0.91 | 0.47 | 30,30,30,30                 | 0     |
| 84  | OHX  | 1     | 3619 | 7/7   | 0.91 | 0.20 | 179,180,180,181             | 0     |
| 84  | OHX  | 1     | 3622 | 7/7   | 0.91 | 0.21 | 151,151,152,152             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | 1     | 3774 | 1/1   | 0.91 | 0.27 | 72,72,72,72                | 0     |
| 85  | MG   | 1     | 4023 | 1/1   | 0.91 | 0.83 | 58,58,58,58                | 0     |
| 85  | MG   | sR    | 2131 | 1/1   | 0.91 | 0.51 | 53,53,53,53                | 0     |
| 84  | OHX  | 1     | 3731 | 7/7   | 0.91 | 0.20 | 165,166,167,168            | 0     |
| 85  | MG   | CD    | 302  | 1/1   | 0.91 | 0.47 | 46,46,46,46                | 0     |
| 85  | MG   | sR    | 2134 | 1/1   | 0.91 | 0.32 | 58,58,58,58                | 0     |
| 84  | OHX  | CG    | 301  | 7/7   | 0.91 | 0.19 | 174,175,176,176            | 0     |
| 84  | OHX  | 1     | 3623 | 7/7   | 0.91 | 0.23 | 148,148,148,148            | 0     |
| 84  | OHX  | sR    | 2007 | 7/7   | 0.91 | 0.20 | 185,186,187,187            | 0     |
| 84  | OHX  | 1     | 3692 | 7/7   | 0.91 | 0.50 | 183,183,184,184            | 0     |
| 84  | OHX  | sR    | 2019 | 7/7   | 0.91 | 0.19 | 222,223,224,225            | 0     |
| 85  | MG   | AR    | 4095 | 1/1   | 0.91 | 0.39 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4097 | 1/1   | 0.91 | 0.26 | 37,37,37,37                | 0     |
| 85  | MG   | sR    | 2144 | 1/1   | 0.91 | 0.93 | 85,85,85,85                | 0     |
| 85  | MG   | 1     | 3788 | 1/1   | 0.91 | 0.39 | 26,26,26,26                | 0     |
| 85  | MG   | sR    | 2146 | 1/1   | 0.91 | 0.22 | 40,40,40,40                | 0     |
| 85  | MG   | t     | 202  | 1/1   | 0.91 | 0.39 | 86,86,86,86                | 0     |
| 85  | MG   | AR    | 3954 | 1/1   | 0.91 | 0.50 | 48,48,48,48                | 0     |
| 85  | MG   | AR    | 3955 | 1/1   | 0.91 | 0.13 | 36,36,36,36                | 0     |
| 85  | MG   | 1     | 3946 | 1/1   | 0.91 | 0.56 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 4109 | 1/1   | 0.91 | 0.53 | 50,50,50,50                | 0     |
| 85  | MG   | CU    | 201  | 1/1   | 0.91 | 0.36 | 48,48,48,48                | 0     |
| 84  | OHX  | AR    | 3728 | 7/7   | 0.91 | 0.45 | 172,172,173,173            | 0     |
| 85  | MG   | 1     | 4136 | 1/1   | 0.91 | 0.29 | 58,58,58,58                | 0     |
| 85  | MG   | 1     | 3794 | 1/1   | 0.91 | 0.42 | 23,23,23,23                | 0     |
| 85  | MG   | DC    | 203  | 1/1   | 0.91 | 0.32 | 57,57,57,57                | 0     |
| 85  | MG   | sR    | 2165 | 1/1   | 0.91 | 0.65 | 59,59,59,59                | 0     |
| 85  | MG   | 1     | 4039 | 1/1   | 0.91 | 0.39 | 57,57,57,57                | 0     |
| 85  | MG   | AR    | 3969 | 1/1   | 0.91 | 0.71 | 57,57,57,57                | 0     |
| 85  | MG   | AR    | 3971 | 1/1   | 0.91 | 0.28 | 42,42,42,42                | 0     |
| 85  | MG   | DH    | 202  | 1/1   | 0.91 | 0.23 | 51,51,51,51                | 0     |
| 85  | MG   | DR    | 503  | 1/1   | 0.91 | 0.33 | 80,80,80,80                | 0     |
| 85  | MG   | 1     | 4141 | 1/1   | 0.91 | 0.42 | 53,53,53,53                | 0     |
| 85  | MG   | A     | 2047 | 1/1   | 0.91 | 0.69 | 55,55,55,55                | 0     |
| 85  | MG   | A     | 2048 | 1/1   | 0.91 | 0.28 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 3973 | 1/1   | 0.91 | 0.34 | 44,44,44,44                | 0     |
| 85  | MG   | 1     | 4143 | 1/1   | 0.91 | 0.36 | 47,47,47,47                | 0     |
| 85  | MG   | 1     | 4041 | 1/1   | 0.91 | 0.38 | 43,43,43,43                | 0     |
| 84  | OHX  | 1     | 3717 | 7/7   | 0.91 | 0.33 | 188,189,189,189            | 0     |
| 84  | OHX  | sR    | 2023 | 7/7   | 0.91 | 0.33 | 153,154,155,155            | 0     |
| 85  | MG   | A     | 2057 | 1/1   | 0.91 | 0.50 | 58,58,58,58                | 0     |
| 84  | OHX  | sR    | 2030 | 7/7   | 0.91 | 0.28 | 190,190,191,192            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | AR    | 4133 | 1/1   | 0.91 | 0.14 | 97,97,97,97                | 0     |
| 85  | MG   | 1     | 4153 | 1/1   | 0.91 | 0.30 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3956 | 1/1   | 0.91 | 0.44 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 3752 | 1/1   | 0.91 | 0.21 | 38,38,38,38                | 0     |
| 84  | OHX  | sR    | 2031 | 7/7   | 0.91 | 0.25 | 134,134,135,135            | 0     |
| 85  | MG   | AR    | 3754 | 1/1   | 0.91 | 0.29 | 23,23,23,23                | 0     |
| 85  | MG   | A     | 2071 | 1/1   | 0.91 | 0.34 | 53,53,53,53                | 0     |
| 85  | MG   | A     | 2072 | 1/1   | 0.91 | 0.29 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 3813 | 1/1   | 0.91 | 0.53 | 36,36,36,36                | 0     |
| 84  | OHX  | 1     | 3598 | 7/7   | 0.91 | 0.39 | 180,180,180,180            | 0     |
| 85  | MG   | A     | 2122 | 1/1   | 0.92 | 0.17 | 87,87,87,87                | 0     |
| 85  | MG   | AR    | 4232 | 1/1   | 0.92 | 0.18 | 41,41,41,41                | 0     |
| 85  | MG   | A     | 2125 | 1/1   | 0.92 | 0.60 | 52,52,52,52                | 0     |
| 84  | OHX  | A     | 1966 | 7/7   | 0.92 | 0.17 | 146,147,147,148            | 0     |
| 85  | MG   | AR    | 3962 | 1/1   | 0.92 | 0.30 | 46,46,46,46                | 0     |
| 84  | OHX  | AR    | 3707 | 7/7   | 0.92 | 0.44 | 177,177,177,178            | 0     |
| 85  | MG   | A     | 2130 | 1/1   | 0.92 | 0.36 | 58,58,58,58                | 0     |
| 84  | OHX  | A     | 1977 | 7/7   | 0.92 | 0.27 | 175,176,177,177            | 0     |
| 84  | OHX  | 1     | 3560 | 7/7   | 0.92 | 0.16 | 169,169,170,170            | 0     |
| 85  | MG   | AR    | 3767 | 1/1   | 0.92 | 0.20 | 65,65,65,65                | 0     |
| 85  | MG   | AR    | 4240 | 1/1   | 0.92 | 0.79 | 66,66,66,66                | 0     |
| 84  | OHX  | A     | 1985 | 7/7   | 0.92 | 0.22 | 146,147,148,148            | 0     |
| 85  | MG   | AR    | 3769 | 1/1   | 0.92 | 0.16 | 39,39,39,39                | 0     |
| 84  | OHX  | sR    | 2014 | 7/7   | 0.92 | 0.33 | 141,141,142,142            | 0     |
| 84  | OHX  | AR    | 3710 | 7/7   | 0.92 | 0.45 | 180,180,181,181            | 0     |
| 84  | OHX  | 1     | 3657 | 7/7   | 0.92 | 0.20 | 166,167,167,167            | 0     |
| 85  | MG   | A     | 2144 | 1/1   | 0.92 | 0.36 | 61,61,61,61                | 0     |
| 85  | MG   | AS    | 213  | 1/1   | 0.92 | 0.51 | 31,31,31,31                | 0     |
| 84  | OHX  | 1     | 3660 | 7/7   | 0.92 | 0.42 | 177,177,178,178            | 0     |
| 85  | MG   | A     | 2149 | 1/1   | 0.92 | 0.20 | 73,73,73,73                | 0     |
| 85  | MG   | 1     | 3891 | 1/1   | 0.92 | 0.41 | 36,36,36,36                | 0     |
| 85  | MG   | D     | 301  | 1/1   | 0.92 | 0.64 | 72,72,72,72                | 0     |
| 85  | MG   | AS    | 219  | 1/1   | 0.92 | 0.39 | 52,52,52,52                | 0     |
| 85  | MG   | AR    | 4098 | 1/1   | 0.92 | 0.25 | 65,65,65,65                | 0     |
| 84  | OHX  | AR    | 3714 | 7/7   | 0.92 | 0.26 | 169,170,170,170            | 0     |
| 85  | MG   | AR    | 4101 | 1/1   | 0.92 | 0.14 | 52,52,52,52                | 0     |
| 85  | MG   | AR    | 3979 | 1/1   | 0.92 | 0.20 | 56,56,56,56                | 0     |
| 84  | OHX  | sR    | 2027 | 7/7   | 0.92 | 0.24 | 177,177,178,178            | 0     |
| 85  | MG   | 1     | 3783 | 1/1   | 0.92 | 0.29 | 30,30,30,30                | 0     |
| 85  | MG   | 1     | 4014 | 1/1   | 0.92 | 0.48 | 63,63,63,63                | 0     |
| 85  | MG   | 1     | 3912 | 1/1   | 0.92 | 0.30 | 39,39,39,39                | 0     |
| 85  | MG   | AR    | 3984 | 1/1   | 0.92 | 0.27 | 48,48,48,48                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | AR    | 3658 | 7/7   | 0.92 | 0.34 | 146,146,146,146             | 0     |
| 84  | OHX  | 1     | 3663 | 7/7   | 0.92 | 0.22 | 169,169,170,170             | 0     |
| 84  | OHX  | A     | 2017 | 7/7   | 0.92 | 0.26 | 186,187,188,188             | 0     |
| 85  | MG   | 1     | 4215 | 1/1   | 0.92 | 0.48 | 40,40,40,40                 | 0     |
| 84  | OHX  | A     | 2018 | 7/7   | 0.92 | 0.31 | 190,191,191,192             | 0     |
| 84  | OHX  | sR    | 2038 | 7/7   | 0.92 | 0.39 | 167,167,168,169             | 0     |
| 85  | MG   | AR    | 3995 | 1/1   | 0.92 | 0.23 | 42,42,42,42                 | 0     |
| 85  | MG   | AR    | 3804 | 1/1   | 0.92 | 0.51 | 30,30,30,30                 | 0     |
| 85  | MG   | 1     | 3789 | 1/1   | 0.92 | 0.34 | 36,36,36,36                 | 0     |
| 84  | OHX  | sR    | 2039 | 7/7   | 0.92 | 0.41 | 197,198,198,198             | 0     |
| 84  | OHX  | A     | 2021 | 7/7   | 0.92 | 0.41 | 158,159,160,160             | 0     |
| 85  | MG   | 1     | 3795 | 1/1   | 0.92 | 0.35 | 50,50,50,50                 | 0     |
| 85  | MG   | 1     | 3796 | 1/1   | 0.92 | 0.47 | 59,59,59,59                 | 0     |
| 84  | OHX  | AR    | 3533 | 7/7   | 0.92 | 0.22 | 114,114,114,114             | 0     |
| 85  | MG   | CQ    | 202  | 1/1   | 0.92 | 0.45 | 40,40,40,40                 | 0     |
| 84  | OHX  | 1     | 3489 | 7/7   | 0.92 | 0.22 | 107,108,108,108             | 0     |
| 84  | OHX  | 1     | 3668 | 7/7   | 0.92 | 0.26 | 120,121,121,121             | 0     |
| 85  | MG   | AR    | 3820 | 1/1   | 0.92 | 0.26 | 40,40,40,40                 | 0     |
| 85  | MG   | AR    | 3822 | 1/1   | 0.92 | 0.66 | 55,55,55,55                 | 0     |
| 85  | MG   | 1     | 3810 | 1/1   | 0.92 | 0.49 | 45,45,45,45                 | 0     |
| 85  | MG   | 1     | 3950 | 1/1   | 0.92 | 0.40 | 51,51,51,51                 | 0     |
| 84  | OHX  | 1     | 3646 | 7/7   | 0.92 | 0.29 | 168,169,169,169             | 0     |
| 85  | MG   | 1     | 3953 | 1/1   | 0.92 | 0.07 | 63,63,63,63                 | 0     |
| 84  | OHX  | 1     | 3608 | 7/7   | 0.92 | 0.26 | 173,173,173,173             | 0     |
| 84  | OHX  | sR    | 2048 | 7/7   | 0.92 | 0.27 | 188,189,190,190             | 0     |
| 84  | OHX  | AR    | 3680 | 7/7   | 0.92 | 0.38 | 170,170,171,171             | 0     |
| 85  | MG   | AR    | 3836 | 1/1   | 0.92 | 0.26 | 52,52,52,52                 | 0     |
| 85  | MG   | DR    | 502  | 1/1   | 0.92 | 0.18 | 61,61,61,61                 | 0     |
| 85  | MG   | 4     | 233  | 1/1   | 0.92 | 0.34 | 44,44,44,44                 | 0     |
| 84  | OHX  | AT    | 216  | 7/7   | 0.92 | 0.39 | 154,155,155,155             | 0     |
| 85  | MG   | 1     | 3959 | 1/1   | 0.92 | 0.27 | 29,29,29,29                 | 0     |
| 84  | OHX  | 1     | 3557 | 7/7   | 0.92 | 0.20 | 145,145,145,145             | 0     |
| 84  | OHX  | AR    | 3609 | 7/7   | 0.92 | 0.15 | 171,171,172,172             | 0     |
| 85  | MG   | AR    | 3852 | 1/1   | 0.92 | 0.31 | 45,45,45,45                 | 0     |
| 85  | MG   | AR    | 3854 | 1/1   | 0.92 | 0.58 | 39,39,39,39                 | 0     |
| 85  | MG   | AR    | 3862 | 1/1   | 0.92 | 0.19 | 26,26,26,26                 | 0     |
| 85  | MG   | 1     | 4144 | 1/1   | 0.92 | 0.51 | 34,34,34,34                 | 0     |
| 85  | MG   | AR    | 3868 | 1/1   | 0.92 | 0.65 | 28,28,28,28                 | 0     |
| 84  | OHX  | A     | 2035 | 7/7   | 0.92 | 0.36 | 148,149,150,150             | 0     |
| 85  | MG   | 1     | 4053 | 1/1   | 0.92 | 0.26 | 55,55,55,55                 | 0     |
| 85  | MG   | A     | 2062 | 1/1   | 0.92 | 0.58 | 58,58,58,58                 | 0     |
| 85  | MG   | 1     | 4150 | 1/1   | 0.92 | 0.84 | 36,36,36,36                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | o     | 301  | 1/1   | 0.92 | 0.20 | 44,44,44,44                 | 0     |
| 85  | MG   | A     | 2066 | 1/1   | 0.92 | 0.68 | 76,76,76,76                 | 0     |
| 85  | MG   | A     | 2067 | 1/1   | 0.92 | 0.86 | 73,73,73,73                 | 0     |
| 85  | MG   | AR    | 3883 | 1/1   | 0.92 | 0.35 | 47,47,47,47                 | 0     |
| 84  | OHX  | 1     | 3679 | 7/7   | 0.92 | 0.38 | 165,166,166,166             | 0     |
| 85  | MG   | AR    | 3885 | 1/1   | 0.92 | 0.56 | 41,41,41,41                 | 0     |
| 85  | MG   | AR    | 3888 | 1/1   | 0.92 | 0.61 | 37,37,37,37                 | 0     |
| 84  | OHX  | A     | 2037 | 7/7   | 0.92 | 0.34 | 188,189,189,189             | 0     |
| 85  | MG   | 1     | 3968 | 1/1   | 0.92 | 0.18 | 48,48,48,48                 | 0     |
| 85  | MG   | AR    | 4050 | 1/1   | 0.92 | 0.25 | 48,48,48,48                 | 0     |
| 84  | OHX  | 1     | 3681 | 7/7   | 0.92 | 0.24 | 160,161,162,162             | 0     |
| 85  | MG   | 1     | 3737 | 1/1   | 0.92 | 0.27 | 32,32,32,32                 | 0     |
| 84  | OHX  | 1     | 3649 | 7/7   | 0.92 | 0.26 | 154,155,156,156             | 0     |
| 85  | MG   | AR    | 3904 | 1/1   | 0.92 | 0.55 | 29,29,29,29                 | 0     |
| 85  | MG   | 1     | 3972 | 1/1   | 0.92 | 0.19 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 3973 | 1/1   | 0.92 | 0.19 | 55,55,55,55                 | 0     |
| 84  | OHX  | CL    | 302  | 7/7   | 0.92 | 0.16 | 142,142,143,143             | 0     |
| 84  | OHX  | AR    | 3697 | 7/7   | 0.92 | 0.44 | 157,158,158,159             | 0     |
| 85  | MG   | 1     | 3747 | 1/1   | 0.92 | 0.43 | 31,31,31,31                 | 0     |
| 85  | MG   | 1     | 4069 | 1/1   | 0.92 | 0.40 | 95,95,95,95                 | 0     |
| 85  | MG   | AR    | 4206 | 1/1   | 0.92 | 0.35 | 44,44,44,44                 | 0     |
| 85  | MG   | AB    | 202  | 1/1   | 0.92 | 0.26 | 62,62,62,62                 | 0     |
| 85  | MG   | 1     | 3980 | 1/1   | 0.92 | 0.37 | 37,37,37,37                 | 0     |
| 84  | OHX  | AR    | 3699 | 7/7   | 0.92 | 0.28 | 202,202,203,203             | 0     |
| 85  | MG   | AR    | 3930 | 1/1   | 0.92 | 0.36 | 38,38,38,38                 | 0     |
| 85  | MG   | AR    | 3931 | 1/1   | 0.92 | 0.33 | 30,30,30,30                 | 0     |
| 84  | OHX  | 1     | 3652 | 7/7   | 0.92 | 0.42 | 154,155,155,155             | 0     |
| 85  | MG   | s1    | 302  | 1/1   | 0.92 | 0.13 | 63,63,63,63                 | 0     |
| 85  | MG   | AR    | 4072 | 1/1   | 0.92 | 0.17 | 73,73,73,73                 | 0     |
| 85  | MG   | c1    | 201  | 1/1   | 0.92 | 0.47 | 69,69,69,69                 | 0     |
| 85  | MG   | AR    | 4217 | 1/1   | 0.92 | 0.56 | 43,43,43,43                 | 0     |
| 85  | MG   | AR    | 4218 | 1/1   | 0.92 | 0.40 | 60,60,60,60                 | 0     |
| 84  | OHX  | 1     | 3625 | 7/7   | 0.92 | 0.17 | 156,157,158,158             | 0     |
| 85  | MG   | AR    | 4074 | 1/1   | 0.92 | 0.27 | 53,53,53,53                 | 0     |
| 84  | OHX  | A     | 1959 | 7/7   | 0.92 | 0.16 | 165,166,167,167             | 0     |
| 85  | MG   | AR    | 4225 | 1/1   | 0.92 | 0.10 | 82,82,82,82                 | 0     |
| 85  | MG   | 1     | 4077 | 1/1   | 0.92 | 0.21 | 58,58,58,58                 | 0     |
| 85  | MG   | 1     | 3873 | 1/1   | 0.92 | 0.57 | 33,33,33,33                 | 0     |
| 85  | MG   | AR    | 3756 | 1/1   | 0.92 | 0.32 | 48,48,48,48                 | 0     |
| 85  | MG   | A     | 2121 | 1/1   | 0.92 | 0.25 | 73,73,73,73                 | 0     |
| 84  | OHX  | s4    | 301  | 7/7   | 0.93 | 0.18 | 178,179,179,180             | 0     |
| 84  | OHX  | A     | 2031 | 7/7   | 0.93 | 0.24 | 199,200,201,202             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | A     | 2032 | 7/7   | 0.93 | 0.21 | 185,186,186,187            | 0     |
| 85  | MG   | 1     | 3732 | 1/1   | 0.93 | 0.47 | 39,39,39,39                | 0     |
| 84  | OHX  | A     | 2033 | 7/7   | 0.93 | 0.22 | 178,179,179,179            | 0     |
| 85  | MG   | AR    | 4005 | 1/1   | 0.93 | 0.38 | 68,68,68,68                | 0     |
| 84  | OHX  | CE    | 402  | 7/7   | 0.93 | 0.40 | 187,187,188,188            | 0     |
| 85  | MG   | A     | 2100 | 1/1   | 0.93 | 0.60 | 54,54,54,54                | 0     |
| 84  | OHX  | 1     | 3630 | 7/7   | 0.93 | 0.28 | 149,149,150,150            | 0     |
| 84  | OHX  | 1     | 3589 | 7/7   | 0.93 | 0.17 | 151,151,152,152            | 0     |
| 85  | MG   | 1     | 3742 | 1/1   | 0.93 | 0.46 | 39,39,39,39                | 0     |
| 85  | MG   | 1     | 3745 | 1/1   | 0.93 | 0.42 | 32,32,32,32                | 0     |
| 84  | OHX  | 1     | 3712 | 7/7   | 0.93 | 0.38 | 176,177,177,177            | 0     |
| 85  | MG   | AR    | 3792 | 1/1   | 0.93 | 0.29 | 33,33,33,33                | 0     |
| 85  | MG   | 1     | 3894 | 1/1   | 0.93 | 0.33 | 45,45,45,45                | 0     |
| 84  | OHX  | CK    | 201  | 7/7   | 0.93 | 0.21 | 150,151,151,151            | 0     |
| 84  | OHX  | AR    | 3679 | 7/7   | 0.93 | 0.19 | 147,148,148,148            | 0     |
| 85  | MG   | 1     | 4040 | 1/1   | 0.93 | 0.75 | 61,61,61,61                | 0     |
| 85  | MG   | AR    | 4021 | 1/1   | 0.93 | 0.46 | 53,53,53,53                | 0     |
| 85  | MG   | AR    | 3802 | 1/1   | 0.93 | 0.22 | 51,51,51,51                | 0     |
| 84  | OHX  | 1     | 3694 | 7/7   | 0.93 | 0.23 | 160,161,161,161            | 0     |
| 85  | MG   | 1     | 4043 | 1/1   | 0.93 | 0.31 | 39,39,39,39                | 0     |
| 85  | MG   | AR    | 3808 | 1/1   | 0.93 | 0.30 | 33,33,33,33                | 0     |
| 84  | OHX  | 1     | 3715 | 7/7   | 0.93 | 0.24 | 173,173,174,174            | 0     |
| 84  | OHX  | CS    | 201  | 1/7   | 0.93 | 0.09 | 173,173,173,173            | 0     |
| 84  | OHX  | AR    | 3683 | 7/7   | 0.93 | 0.35 | 136,136,136,137            | 0     |
| 85  | MG   | 1     | 3923 | 1/1   | 0.93 | 0.36 | 42,42,42,42                | 0     |
| 85  | MG   | A     | 2126 | 1/1   | 0.93 | 0.34 | 77,77,77,77                | 0     |
| 85  | MG   | 1     | 4049 | 1/1   | 0.93 | 0.20 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 3816 | 1/1   | 0.93 | 0.28 | 37,37,37,37                | 0     |
| 85  | MG   | 1     | 3756 | 1/1   | 0.93 | 0.27 | 32,32,32,32                | 0     |
| 84  | OHX  | sR    | 1932 | 7/7   | 0.93 | 0.21 | 125,125,126,126            | 0     |
| 85  | MG   | AR    | 4212 | 1/1   | 0.93 | 0.24 | 36,36,36,36                | 0     |
| 84  | OHX  | sR    | 1950 | 7/7   | 0.93 | 0.17 | 145,145,146,147            | 0     |
| 84  | OHX  | AR    | 3684 | 7/7   | 0.93 | 0.39 | 171,171,172,172            | 0     |
| 85  | MG   | 1     | 4188 | 1/1   | 0.93 | 0.20 | 54,54,54,54                | 0     |
| 85  | MG   | AR    | 4216 | 1/1   | 0.93 | 0.17 | 29,29,29,29                | 0     |
| 84  | OHX  | A     | 1958 | 7/7   | 0.93 | 0.17 | 191,191,193,193            | 0     |
| 85  | MG   | AR    | 3827 | 1/1   | 0.93 | 0.52 | 56,56,56,56                | 0     |
| 84  | OHX  | 3     | 205  | 7/7   | 0.93 | 0.15 | 133,134,135,135            | 0     |
| 85  | MG   | 1     | 4193 | 1/1   | 0.93 | 0.58 | 45,45,45,45                | 0     |
| 85  | MG   | A     | 2142 | 1/1   | 0.93 | 0.15 | 70,70,70,70                | 0     |
| 85  | MG   | AR    | 4223 | 1/1   | 0.93 | 0.58 | 57,57,57,57                | 0     |
| 85  | MG   | 1     | 3765 | 1/1   | 0.93 | 0.22 | 33,33,33,33                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4059 | 1/1   | 0.93 | 0.23 | 40,40,40,40                 | 0     |
| 85  | MG   | A     | 2148 | 1/1   | 0.93 | 0.33 | 86,86,86,86                 | 0     |
| 84  | OHX  | A     | 1964 | 7/7   | 0.93 | 0.28 | 139,139,140,140             | 0     |
| 85  | MG   | 1     | 4198 | 1/1   | 0.93 | 0.57 | 32,32,32,32                 | 0     |
| 84  | OHX  | sR    | 2002 | 7/7   | 0.93 | 0.37 | 139,140,141,141             | 0     |
| 84  | OHX  | AR    | 3731 | 7/7   | 0.93 | 0.34 | 162,163,163,164             | 0     |
| 84  | OHX  | 1     | 3695 | 7/7   | 0.93 | 0.48 | 190,190,190,190             | 0     |
| 85  | MG   | 1     | 3776 | 1/1   | 0.93 | 0.44 | 34,34,34,34                 | 0     |
| 85  | MG   | AR    | 3845 | 1/1   | 0.93 | 0.29 | 31,31,31,31                 | 0     |
| 85  | MG   | 1     | 4208 | 1/1   | 0.93 | 0.24 | 26,26,26,26                 | 0     |
| 85  | MG   | 1     | 3777 | 1/1   | 0.93 | 0.08 | 38,38,38,38                 | 0     |
| 85  | MG   | 1     | 4212 | 1/1   | 0.93 | 0.19 | 25,25,25,25                 | 0     |
| 85  | MG   | 1     | 3951 | 1/1   | 0.93 | 0.27 | 52,52,52,52                 | 0     |
| 85  | MG   | sR    | 2063 | 1/1   | 0.93 | 0.39 | 81,81,81,81                 | 0     |
| 85  | MG   | AR    | 3857 | 1/1   | 0.93 | 0.67 | 36,36,36,36                 | 0     |
| 85  | MG   | 1     | 3778 | 1/1   | 0.93 | 0.32 | 43,43,43,43                 | 0     |
| 84  | OHX  | sR    | 2008 | 7/7   | 0.93 | 0.17 | 175,175,176,177             | 0     |
| 85  | MG   | 1     | 3781 | 1/1   | 0.93 | 0.26 | 43,43,43,43                 | 0     |
| 85  | MG   | 1     | 3955 | 1/1   | 0.93 | 0.26 | 44,44,44,44                 | 0     |
| 85  | MG   | AR    | 3875 | 1/1   | 0.93 | 0.54 | 29,29,29,29                 | 0     |
| 84  | OHX  | A     | 1974 | 7/7   | 0.93 | 0.13 | 168,169,170,170             | 0     |
| 84  | OHX  | sR    | 2012 | 7/7   | 0.93 | 0.25 | 167,168,168,169             | 0     |
| 84  | OHX  | AR    | 3628 | 7/7   | 0.93 | 0.23 | 163,164,164,164             | 0     |
| 84  | OHX  | sR    | 2016 | 7/7   | 0.93 | 0.30 | 158,158,159,159             | 0     |
| 84  | OHX  | 4     | 213  | 7/7   | 0.93 | 0.26 | 142,142,143,143             | 0     |
| 85  | MG   | AS    | 225  | 1/1   | 0.93 | 0.17 | 54,54,54,54                 | 0     |
| 84  | OHX  | AR    | 3640 | 7/7   | 0.93 | 0.28 | 136,136,136,136             | 0     |
| 85  | MG   | AR    | 3887 | 1/1   | 0.93 | 0.44 | 44,44,44,44                 | 0     |
| 84  | OHX  | 1     | 3674 | 7/7   | 0.93 | 0.44 | 151,151,151,151             | 0     |
| 84  | OHX  | AR    | 3700 | 7/7   | 0.93 | 0.38 | 183,183,184,184             | 0     |
| 85  | MG   | AR    | 3891 | 1/1   | 0.93 | 0.54 | 27,27,27,27                 | 0     |
| 85  | MG   | sR    | 2090 | 1/1   | 0.93 | 0.61 | 44,44,44,44                 | 0     |
| 84  | OHX  | sR    | 2024 | 7/7   | 0.93 | 0.28 | 188,189,190,191             | 0     |
| 85  | MG   | 4     | 228  | 1/1   | 0.93 | 0.18 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 2025 | 7/7   | 0.93 | 0.29 | 173,173,174,175             | 0     |
| 85  | MG   | AR    | 3901 | 1/1   | 0.93 | 0.59 | 37,37,37,37                 | 0     |
| 85  | MG   | sR    | 2100 | 1/1   | 0.93 | 0.49 | 35,35,35,35                 | 0     |
| 85  | MG   | sR    | 2101 | 1/1   | 0.93 | 0.55 | 55,55,55,55                 | 0     |
| 85  | MG   | AT    | 226  | 1/1   | 0.93 | 0.17 | 67,67,67,67                 | 0     |
| 85  | MG   | sR    | 2103 | 1/1   | 0.93 | 0.42 | 57,57,57,57                 | 0     |
| 85  | MG   | sR    | 2104 | 1/1   | 0.93 | 0.22 | 68,68,68,68                 | 0     |
| 84  | OHX  | A     | 2001 | 7/7   | 0.93 | 0.20 | 169,170,171,171             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | sR    | 2107 | 1/1   | 0.93 | 0.56 | 40,40,40,40                 | 0     |
| 85  | MG   | AT    | 229  | 1/1   | 0.93 | 0.49 | 65,65,65,65                 | 0     |
| 85  | MG   | sR    | 2114 | 1/1   | 0.93 | 0.31 | 77,77,77,77                 | 0     |
| 85  | MG   | CD    | 301  | 1/1   | 0.93 | 0.77 | 52,52,52,52                 | 0     |
| 85  | MG   | AR    | 3903 | 1/1   | 0.93 | 0.82 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 3798 | 1/1   | 0.93 | 0.14 | 44,44,44,44                 | 0     |
| 85  | MG   | 1     | 3799 | 1/1   | 0.93 | 0.15 | 37,37,37,37                 | 0     |
| 84  | OHX  | sR    | 2029 | 7/7   | 0.93 | 0.34 | 157,157,157,158             | 0     |
| 85  | MG   | 1     | 3803 | 1/1   | 0.93 | 0.51 | 46,46,46,46                 | 0     |
| 85  | MG   | 1     | 4101 | 1/1   | 0.93 | 0.31 | 27,27,27,27                 | 0     |
| 84  | OHX  | A     | 2002 | 7/7   | 0.93 | 0.19 | 177,179,179,179             | 0     |
| 85  | MG   | sR    | 2129 | 1/1   | 0.93 | 0.32 | 36,36,36,36                 | 0     |
| 84  | OHX  | A     | 2005 | 7/7   | 0.93 | 0.33 | 157,157,158,158             | 0     |
| 84  | OHX  | sR    | 2032 | 7/7   | 0.93 | 0.28 | 149,150,150,151             | 0     |
| 85  | MG   | AR    | 4099 | 1/1   | 0.93 | 0.27 | 41,41,41,41                 | 0     |
| 84  | OHX  | sR    | 2033 | 7/7   | 0.93 | 0.45 | 154,155,155,156             | 0     |
| 84  | OHX  | 1     | 3675 | 7/7   | 0.93 | 0.37 | 169,169,170,170             | 0     |
| 85  | MG   | CQ    | 203  | 1/1   | 0.93 | 0.23 | 55,55,55,55                 | 0     |
| 84  | OHX  | sR    | 2035 | 7/7   | 0.93 | 0.19 | 179,179,181,181             | 0     |
| 84  | OHX  | A     | 2009 | 7/7   | 0.93 | 0.35 | 156,157,157,158             | 0     |
| 85  | MG   | CR    | 204  | 1/1   | 0.93 | 0.31 | 59,59,59,59                 | 0     |
| 85  | MG   | AR    | 3939 | 1/1   | 0.93 | 0.42 | 30,30,30,30                 | 0     |
| 85  | MG   | 1     | 4112 | 1/1   | 0.93 | 0.17 | 52,52,52,52                 | 0     |
| 85  | MG   | AR    | 4108 | 1/1   | 0.93 | 0.42 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 2037 | 7/7   | 0.93 | 0.35 | 174,174,175,175             | 0     |
| 85  | MG   | AR    | 3949 | 1/1   | 0.93 | 0.12 | 31,31,31,31                 | 0     |
| 85  | MG   | sR    | 2148 | 1/1   | 0.93 | 0.20 | 58,58,58,58                 | 0     |
| 85  | MG   | DC    | 202  | 1/1   | 0.93 | 0.38 | 27,27,27,27                 | 0     |
| 84  | OHX  | 1     | 3676 | 7/7   | 0.93 | 0.23 | 134,134,135,135             | 0     |
| 84  | OHX  | 1     | 3638 | 7/7   | 0.93 | 0.16 | 167,167,168,168             | 0     |
| 84  | OHX  | 1     | 3628 | 7/7   | 0.93 | 0.19 | 163,164,164,164             | 0     |
| 85  | MG   | 1     | 3827 | 1/1   | 0.93 | 0.46 | 49,49,49,49                 | 0     |
| 85  | MG   | 1     | 3993 | 1/1   | 0.93 | 0.96 | 52,52,52,52                 | 0     |
| 85  | MG   | DO    | 202  | 1/1   | 0.93 | 0.15 | 45,45,45,45                 | 0     |
| 85  | MG   | AR    | 4119 | 1/1   | 0.93 | 0.18 | 47,47,47,47                 | 0     |
| 84  | OHX  | AR    | 3709 | 7/7   | 0.93 | 0.36 | 174,174,174,174             | 0     |
| 85  | MG   | sR    | 2163 | 1/1   | 0.93 | 0.33 | 62,62,62,62                 | 0     |
| 85  | MG   | 1     | 3830 | 1/1   | 0.93 | 0.38 | 32,32,32,32                 | 0     |
| 84  | OHX  | AR    | 3655 | 7/7   | 0.93 | 0.31 | 177,177,177,177             | 0     |
| 85  | MG   | sR    | 2167 | 1/1   | 0.93 | 0.43 | 47,47,47,47                 | 0     |
| 84  | OHX  | sR    | 2043 | 7/7   | 0.93 | 0.26 | 197,198,198,199             | 0     |
| 85  | MG   | AR    | 4128 | 1/1   | 0.93 | 0.39 | 46,46,46,46                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 6     | 201  | 1/1   | 0.93 | 0.44 | 27,27,27,27                 | 0     |
| 85  | MG   | sR    | 2173 | 1/1   | 0.93 | 0.21 | 77,77,77,77                 | 0     |
| 84  | OHX  | 1     | 3666 | 7/7   | 0.93 | 0.22 | 134,134,134,135             | 0     |
| 85  | MG   | AR    | 3970 | 1/1   | 0.93 | 0.15 | 97,97,97,97                 | 0     |
| 84  | OHX  | AR    | 3712 | 7/7   | 0.93 | 0.20 | 171,171,172,172             | 0     |
| 85  | MG   | 1     | 3844 | 1/1   | 0.93 | 0.67 | 35,35,35,35                 | 0     |
| 85  | MG   | AR    | 4136 | 1/1   | 0.93 | 0.26 | 64,64,64,64                 | 0     |
| 85  | MG   | 1     | 4131 | 1/1   | 0.93 | 0.22 | 52,52,52,52                 | 0     |
| 85  | MG   | AR    | 3748 | 1/1   | 0.93 | 0.29 | 28,28,28,28                 | 0     |
| 85  | MG   | AR    | 3749 | 1/1   | 0.93 | 0.40 | 49,49,49,49                 | 0     |
| 85  | MG   | 1     | 3846 | 1/1   | 0.93 | 0.45 | 33,33,33,33                 | 0     |
| 85  | MG   | A     | 2065 | 1/1   | 0.93 | 0.62 | 49,49,49,49                 | 0     |
| 85  | MG   | 1     | 4006 | 1/1   | 0.93 | 0.77 | 70,70,70,70                 | 0     |
| 85  | MG   | 1     | 4007 | 1/1   | 0.93 | 0.33 | 59,59,59,59                 | 0     |
| 85  | MG   | 1     | 4008 | 1/1   | 0.93 | 0.29 | 22,22,22,22                 | 0     |
| 84  | OHX  | AR    | 3532 | 7/7   | 0.93 | 0.19 | 129,129,130,130             | 0     |
| 84  | OHX  | AR    | 3662 | 7/7   | 0.93 | 0.27 | 164,164,165,165             | 0     |
| 85  | MG   | c7    | 201  | 1/1   | 0.93 | 0.52 | 71,71,71,71                 | 0     |
| 85  | MG   | 1     | 4013 | 1/1   | 0.93 | 0.26 | 37,37,37,37                 | 0     |
| 84  | OHX  | AR    | 3664 | 7/7   | 0.93 | 0.29 | 143,144,144,144             | 0     |
| 84  | OHX  | AR    | 3717 | 7/7   | 0.93 | 0.29 | 201,201,202,202             | 0     |
| 85  | MG   | AR    | 3765 | 1/1   | 0.93 | 0.40 | 31,31,31,31                 | 0     |
| 85  | MG   | 1     | 3864 | 1/1   | 0.93 | 0.31 | 32,32,32,32                 | 0     |
| 85  | MG   | AR    | 3991 | 1/1   | 0.93 | 0.20 | 38,38,38,38                 | 0     |
| 84  | OHX  | AR    | 3666 | 7/7   | 0.93 | 0.31 | 146,146,147,147             | 0     |
| 84  | OHX  | 1     | 3568 | 7/7   | 0.93 | 0.15 | 152,153,153,154             | 0     |
| 84  | OHX  | 1     | 3690 | 7/7   | 0.93 | 0.35 | 173,173,174,174             | 0     |
| 85  | MG   | 1     | 4203 | 1/1   | 0.94 | 0.60 | 45,45,45,45                 | 0     |
| 84  | OHX  | AR    | 3620 | 7/7   | 0.94 | 0.24 | 133,133,133,134             | 0     |
| 85  | MG   | 1     | 3876 | 1/1   | 0.94 | 0.48 | 61,61,61,61                 | 0     |
| 84  | OHX  | 1     | 3667 | 7/7   | 0.94 | 0.25 | 142,142,142,143             | 0     |
| 84  | OHX  | AR    | 3623 | 7/7   | 0.94 | 0.28 | 147,148,148,148             | 0     |
| 84  | OHX  | AR    | 3626 | 7/7   | 0.94 | 0.28 | 172,173,173,174             | 0     |
| 85  | MG   | AR    | 3890 | 1/1   | 0.94 | 0.47 | 25,25,25,25                 | 0     |
| 84  | OHX  | sR    | 2045 | 7/7   | 0.94 | 0.38 | 163,164,164,165             | 0     |
| 84  | OHX  | AR    | 3716 | 7/7   | 0.94 | 0.21 | 162,162,163,163             | 0     |
| 85  | MG   | AR    | 3894 | 1/1   | 0.94 | 0.35 | 61,61,61,61                 | 0     |
| 85  | MG   | 1     | 3885 | 1/1   | 0.94 | 0.52 | 36,36,36,36                 | 0     |
| 85  | MG   | A     | 2074 | 1/1   | 0.94 | 0.52 | 44,44,44,44                 | 0     |
| 85  | MG   | A     | 2075 | 1/1   | 0.94 | 0.45 | 61,61,61,61                 | 0     |
| 84  | OHX  | AR    | 3627 | 7/7   | 0.94 | 0.34 | 164,164,165,165             | 0     |
| 85  | MG   | A     | 2077 | 1/1   | 0.94 | 0.39 | 53,53,53,53                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 3     | 214  | 1/1   | 0.94 | 0.48 | 30,30,30,30                 | 0     |
| 85  | MG   | 3     | 215  | 1/1   | 0.94 | 0.37 | 53,53,53,53                 | 0     |
| 84  | OHX  | 1     | 3645 | 7/7   | 0.94 | 0.29 | 162,162,163,163             | 0     |
| 84  | OHX  | A     | 2010 | 7/7   | 0.94 | 0.19 | 171,173,173,174             | 0     |
| 84  | OHX  | AR    | 3633 | 7/7   | 0.94 | 0.26 | 151,151,151,151             | 0     |
| 85  | MG   | AR    | 3907 | 1/1   | 0.94 | 0.59 | 30,30,30,30                 | 0     |
| 84  | OHX  | 1     | 3670 | 7/7   | 0.94 | 0.31 | 151,152,152,152             | 0     |
| 85  | MG   | AR    | 4127 | 1/1   | 0.94 | 0.28 | 43,43,43,43                 | 0     |
| 84  | OHX  | A     | 2013 | 7/7   | 0.94 | 0.27 | 154,155,155,155             | 0     |
| 85  | MG   | A     | 2090 | 1/1   | 0.94 | 0.39 | 55,55,55,55                 | 0     |
| 85  | MG   | 1     | 3904 | 1/1   | 0.94 | 0.52 | 32,32,32,32                 | 0     |
| 84  | OHX  | AR    | 3639 | 7/7   | 0.94 | 0.17 | 153,154,154,154             | 0     |
| 85  | MG   | 4     | 221  | 1/1   | 0.94 | 0.42 | 36,36,36,36                 | 0     |
| 85  | MG   | 1     | 3911 | 1/1   | 0.94 | 0.38 | 44,44,44,44                 | 0     |
| 85  | MG   | 4     | 225  | 1/1   | 0.94 | 0.23 | 59,59,59,59                 | 0     |
| 85  | MG   | AR    | 3926 | 1/1   | 0.94 | 0.36 | 47,47,47,47                 | 0     |
| 84  | OHX  | 1     | 3545 | 7/7   | 0.94 | 0.15 | 142,143,143,143             | 0     |
| 85  | MG   | 4     | 227  | 1/1   | 0.94 | 0.45 | 39,39,39,39                 | 0     |
| 84  | OHX  | s8    | 301  | 7/7   | 0.94 | 0.32 | 194,195,195,196             | 0     |
| 85  | MG   | AR    | 3932 | 1/1   | 0.94 | 0.45 | 34,34,34,34                 | 0     |
| 85  | MG   | AR    | 4143 | 1/1   | 0.94 | 0.21 | 55,55,55,55                 | 0     |
| 84  | OHX  | AR    | 3641 | 7/7   | 0.94 | 0.20 | 164,164,165,165             | 0     |
| 85  | MG   | 1     | 4070 | 1/1   | 0.94 | 0.28 | 47,47,47,47                 | 0     |
| 85  | MG   | AR    | 3941 | 1/1   | 0.94 | 0.59 | 47,47,47,47                 | 0     |
| 85  | MG   | AR    | 3943 | 1/1   | 0.94 | 0.47 | 30,30,30,30                 | 0     |
| 85  | MG   | 1     | 4071 | 1/1   | 0.94 | 0.25 | 37,37,37,37                 | 0     |
| 85  | MG   | AR    | 3947 | 1/1   | 0.94 | 0.55 | 34,34,34,34                 | 0     |
| 84  | OHX  | A     | 2019 | 7/7   | 0.94 | 0.21 | 210,210,212,212             | 0     |
| 85  | MG   | AR    | 3950 | 1/1   | 0.94 | 0.11 | 39,39,39,39                 | 0     |
| 85  | MG   | A     | 2118 | 1/1   | 0.94 | 0.13 | 67,67,67,67                 | 0     |
| 85  | MG   | 1     | 3924 | 1/1   | 0.94 | 0.42 | 49,49,49,49                 | 0     |
| 85  | MG   | A     | 2120 | 1/1   | 0.94 | 0.38 | 49,49,49,49                 | 0     |
| 85  | MG   | 4     | 234  | 1/1   | 0.94 | 0.66 | 52,52,52,52                 | 0     |
| 85  | MG   | 1     | 3928 | 1/1   | 0.94 | 0.55 | 23,23,23,23                 | 0     |
| 84  | OHX  | A     | 2020 | 7/7   | 0.94 | 0.15 | 156,157,157,157             | 0     |
| 84  | OHX  | AR    | 3642 | 7/7   | 0.94 | 0.51 | 153,154,154,154             | 0     |
| 85  | MG   | AR    | 3958 | 1/1   | 0.94 | 0.40 | 24,24,24,24                 | 0     |
| 85  | MG   | AR    | 3960 | 1/1   | 0.94 | 0.37 | 34,34,34,34                 | 0     |
| 85  | MG   | 1     | 3734 | 1/1   | 0.94 | 0.40 | 37,37,37,37                 | 0     |
| 84  | OHX  | AR    | 3643 | 7/7   | 0.94 | 0.33 | 158,159,159,159             | 0     |
| 85  | MG   | 1     | 4080 | 1/1   | 0.94 | 0.19 | 30,30,30,30                 | 0     |
| 84  | OHX  | 1     | 3672 | 7/7   | 0.94 | 0.31 | 154,155,155,156             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | 1     | 3706 | 7/7   | 0.94 | 0.25 | 194,194,195,195             | 0     |
| 84  | OHX  | AR    | 3647 | 7/7   | 0.94 | 0.34 | 156,156,157,157             | 0     |
| 85  | MG   | 1     | 4084 | 1/1   | 0.94 | 0.29 | 52,52,52,52                 | 0     |
| 85  | MG   | 1     | 4087 | 1/1   | 0.94 | 0.25 | 40,40,40,40                 | 0     |
| 84  | OHX  | 1     | 3707 | 7/7   | 0.94 | 0.41 | 174,175,175,175             | 0     |
| 84  | OHX  | 1     | 3593 | 7/7   | 0.94 | 0.31 | 147,147,148,148             | 0     |
| 84  | OHX  | 1     | 3463 | 7/7   | 0.94 | 0.21 | 104,104,105,105             | 0     |
| 84  | OHX  | 1     | 3604 | 7/7   | 0.94 | 0.24 | 145,146,146,146             | 0     |
| 84  | OHX  | AR    | 3657 | 7/7   | 0.94 | 0.21 | 165,165,166,166             | 0     |
| 84  | OHX  | 1     | 3486 | 7/7   | 0.94 | 0.17 | 120,121,121,121             | 0     |
| 84  | OHX  | x     | 202  | 7/7   | 0.94 | 0.33 | 176,176,176,176             | 0     |
| 84  | OHX  | 1     | 3626 | 7/7   | 0.94 | 0.25 | 182,182,183,183             | 0     |
| 84  | OHX  | AR    | 3663 | 7/7   | 0.94 | 0.28 | 161,161,162,162             | 0     |
| 84  | OHX  | AK    | 102  | 7/7   | 0.94 | 0.14 | 114,114,114,114             | 0     |
| 84  | OHX  | AR    | 3665 | 7/7   | 0.94 | 0.29 | 161,162,162,162             | 0     |
| 85  | MG   | 1     | 4105 | 1/1   | 0.94 | 0.28 | 41,41,41,41                 | 0     |
| 85  | MG   | AB    | 203  | 1/1   | 0.94 | 0.56 | 44,44,44,44                 | 0     |
| 85  | MG   | AR    | 3986 | 1/1   | 0.94 | 0.07 | 63,63,63,63                 | 0     |
| 84  | OHX  | AR    | 3499 | 7/7   | 0.94 | 0.17 | 127,128,128,128             | 0     |
| 85  | MG   | AH    | 201  | 1/1   | 0.94 | 0.17 | 47,47,47,47                 | 0     |
| 85  | MG   | AK    | 104  | 1/1   | 0.94 | 0.83 | 59,59,59,59                 | 0     |
| 85  | MG   | sR    | 2054 | 1/1   | 0.94 | 0.39 | 57,57,57,57                 | 0     |
| 85  | MG   | sR    | 2055 | 1/1   | 0.94 | 0.75 | 54,54,54,54                 | 0     |
| 85  | MG   | sR    | 2056 | 1/1   | 0.94 | 0.26 | 67,67,67,67                 | 0     |
| 84  | OHX  | AR    | 3508 | 7/7   | 0.94 | 0.15 | 117,118,119,119             | 0     |
| 85  | MG   | 1     | 3763 | 1/1   | 0.94 | 0.43 | 46,46,46,46                 | 0     |
| 84  | OHX  | 1     | 3655 | 7/7   | 0.94 | 0.17 | 165,165,166,166             | 0     |
| 84  | OHX  | 1     | 3446 | 7/7   | 0.94 | 0.25 | 99,99,100,100               | 0     |
| 85  | MG   | 1     | 3766 | 1/1   | 0.94 | 0.49 | 44,44,44,44                 | 0     |
| 85  | MG   | AR    | 4000 | 1/1   | 0.94 | 0.11 | 64,64,64,64                 | 0     |
| 84  | OHX  | AR    | 3675 | 7/7   | 0.94 | 0.12 | 200,201,201,201             | 0     |
| 84  | OHX  | AR    | 3526 | 7/7   | 0.94 | 0.28 | 124,125,125,126             | 0     |
| 84  | OHX  | O     | 201  | 7/7   | 0.94 | 0.15 | 198,199,199,199             | 0     |
| 84  | OHX  | sR    | 1919 | 7/7   | 0.94 | 0.18 | 107,107,108,108             | 0     |
| 84  | OHX  | 1     | 3502 | 7/7   | 0.94 | 0.18 | 123,123,124,124             | 0     |
| 85  | MG   | AR    | 3758 | 1/1   | 0.94 | 0.46 | 42,42,42,42                 | 0     |
| 84  | OHX  | sR    | 1940 | 7/7   | 0.94 | 0.13 | 162,163,164,164             | 0     |
| 84  | OHX  | 1     | 3659 | 7/7   | 0.94 | 0.28 | 169,169,169,169             | 0     |
| 85  | MG   | sR    | 2078 | 1/1   | 0.94 | 0.54 | 48,48,48,48                 | 0     |
| 85  | MG   | 1     | 3779 | 1/1   | 0.94 | 0.38 | 39,39,39,39                 | 0     |
| 84  | OHX  | AR    | 3541 | 7/7   | 0.94 | 0.17 | 148,148,149,149             | 0     |
| 85  | MG   | sR    | 2081 | 1/1   | 0.94 | 0.34 | 59,59,59,59                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 3976 | 1/1   | 0.94 | 0.43 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 1961 | 7/7   | 0.94 | 0.16 | 135,136,136,137             | 0     |
| 85  | MG   | AR    | 4015 | 1/1   | 0.94 | 0.59 | 49,49,49,49                 | 0     |
| 84  | OHX  | sR    | 1966 | 7/7   | 0.94 | 0.16 | 146,146,147,147             | 0     |
| 84  | OHX  | AT    | 214  | 7/7   | 0.94 | 0.24 | 153,153,153,153             | 0     |
| 85  | MG   | sR    | 2088 | 1/1   | 0.94 | 0.45 | 74,74,74,74                 | 0     |
| 84  | OHX  | sR    | 1971 | 7/7   | 0.94 | 0.19 | 151,151,152,152             | 0     |
| 85  | MG   | AR    | 4020 | 1/1   | 0.94 | 0.37 | 43,43,43,43                 | 0     |
| 84  | OHX  | sR    | 1976 | 7/7   | 0.94 | 0.15 | 170,171,172,172             | 0     |
| 84  | OHX  | sR    | 1978 | 7/7   | 0.94 | 0.21 | 126,126,127,127             | 0     |
| 85  | MG   | 1     | 3983 | 1/1   | 0.94 | 0.26 | 47,47,47,47                 | 0     |
| 85  | MG   | sR    | 2097 | 1/1   | 0.94 | 0.49 | 48,48,48,48                 | 0     |
| 84  | OHX  | sR    | 1979 | 7/7   | 0.94 | 0.26 | 160,160,161,161             | 0     |
| 84  | OHX  | sR    | 1981 | 7/7   | 0.94 | 0.33 | 127,128,129,129             | 0     |
| 84  | OHX  | AT    | 215  | 7/7   | 0.94 | 0.21 | 157,157,157,158             | 0     |
| 84  | OHX  | sR    | 1996 | 7/7   | 0.94 | 0.17 | 184,184,185,186             | 0     |
| 85  | MG   | AR    | 3784 | 1/1   | 0.94 | 0.43 | 41,41,41,41                 | 0     |
| 84  | OHX  | AR    | 3548 | 7/7   | 0.94 | 0.22 | 142,142,142,143             | 0     |
| 84  | OHX  | sR    | 2000 | 7/7   | 0.94 | 0.22 | 162,163,163,164             | 0     |
| 85  | MG   | AR    | 3791 | 1/1   | 0.94 | 0.33 | 21,21,21,21                 | 0     |
| 84  | OHX  | sR    | 2001 | 7/7   | 0.94 | 0.14 | 160,160,161,161             | 0     |
| 85  | MG   | sR    | 2115 | 1/1   | 0.94 | 0.28 | 59,59,59,59                 | 0     |
| 85  | MG   | 1     | 4148 | 1/1   | 0.94 | 0.19 | 53,53,53,53                 | 0     |
| 84  | OHX  | AR    | 3682 | 7/7   | 0.94 | 0.26 | 153,154,154,154             | 0     |
| 85  | MG   | 1     | 3801 | 1/1   | 0.94 | 0.37 | 49,49,49,49                 | 0     |
| 85  | MG   | sR    | 2120 | 1/1   | 0.94 | 0.40 | 70,70,70,70                 | 0     |
| 85  | MG   | AS    | 223  | 1/1   | 0.94 | 0.30 | 75,75,75,75                 | 0     |
| 85  | MG   | 1     | 3999 | 1/1   | 0.94 | 0.43 | 47,47,47,47                 | 0     |
| 84  | OHX  | AR    | 3560 | 7/7   | 0.94 | 0.23 | 122,122,122,122             | 0     |
| 84  | OHX  | sR    | 2005 | 7/7   | 0.94 | 0.28 | 176,176,177,178             | 0     |
| 85  | MG   | sR    | 2125 | 1/1   | 0.94 | 0.21 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 2006 | 7/7   | 0.94 | 0.25 | 148,149,150,150             | 0     |
| 84  | OHX  | 1     | 3611 | 7/7   | 0.94 | 0.25 | 141,141,141,141             | 0     |
| 85  | MG   | sR    | 2130 | 1/1   | 0.94 | 0.12 | 83,83,83,83                 | 0     |
| 85  | MG   | 1     | 3809 | 1/1   | 0.94 | 0.48 | 49,49,49,49                 | 0     |
| 85  | MG   | AR    | 3811 | 1/1   | 0.94 | 0.41 | 53,53,53,53                 | 0     |
| 84  | OHX  | AR    | 3685 | 7/7   | 0.94 | 0.25 | 182,182,183,183             | 0     |
| 84  | OHX  | AR    | 3570 | 7/7   | 0.94 | 0.15 | 169,170,170,171             | 0     |
| 85  | MG   | sR    | 2135 | 1/1   | 0.94 | 0.12 | 82,82,82,82                 | 0     |
| 84  | OHX  | AR    | 3590 | 7/7   | 0.94 | 0.12 | 153,154,155,155             | 0     |
| 85  | MG   | 1     | 3814 | 1/1   | 0.94 | 0.22 | 21,21,21,21                 | 0     |
| 84  | OHX  | AR    | 3690 | 7/7   | 0.94 | 0.40 | 145,146,146,146             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | sR    | 2139 | 1/1   | 0.94 | 0.19 | 54,54,54,54                 | 0     |
| 85  | MG   | AT    | 228  | 1/1   | 0.94 | 0.35 | 43,43,43,43                 | 0     |
| 84  | OHX  | AR    | 3691 | 7/7   | 0.94 | 0.26 | 149,149,150,150             | 0     |
| 85  | MG   | AT    | 230  | 1/1   | 0.94 | 0.79 | 49,49,49,49                 | 0     |
| 84  | OHX  | sR    | 2017 | 7/7   | 0.94 | 0.28 | 150,150,151,151             | 0     |
| 85  | MG   | AR    | 4054 | 1/1   | 0.94 | 0.34 | 35,35,35,35                 | 0     |
| 84  | OHX  | AR    | 3595 | 7/7   | 0.94 | 0.38 | 135,135,136,136             | 0     |
| 85  | MG   | 1     | 4168 | 1/1   | 0.94 | 0.27 | 34,34,34,34                 | 0     |
| 85  | MG   | AR    | 3821 | 1/1   | 0.94 | 0.38 | 51,51,51,51                 | 0     |
| 85  | MG   | 1     | 3823 | 1/1   | 0.94 | 0.46 | 29,29,29,29                 | 0     |
| 85  | MG   | AR    | 3824 | 1/1   | 0.94 | 0.23 | 24,24,24,24                 | 0     |
| 85  | MG   | AR    | 4060 | 1/1   | 0.94 | 0.36 | 47,47,47,47                 | 0     |
| 84  | OHX  | AR    | 3601 | 7/7   | 0.94 | 0.18 | 150,150,151,151             | 0     |
| 85  | MG   | sR    | 2156 | 1/1   | 0.94 | 0.27 | 62,62,62,62                 | 0     |
| 85  | MG   | 1     | 4017 | 1/1   | 0.94 | 0.34 | 41,41,41,41                 | 0     |
| 85  | MG   | AR    | 4063 | 1/1   | 0.94 | 0.41 | 49,49,49,49                 | 0     |
| 85  | MG   | CP    | 505  | 1/1   | 0.94 | 0.85 | 106,106,106,106             | 0     |
| 85  | MG   | 1     | 4177 | 1/1   | 0.94 | 0.48 | 80,80,80,80                 | 0     |
| 84  | OHX  | sR    | 2021 | 7/7   | 0.94 | 0.13 | 162,162,163,164             | 0     |
| 84  | OHX  | AR    | 3695 | 7/7   | 0.94 | 0.24 | 160,161,161,162             | 0     |
| 84  | OHX  | 1     | 3662 | 7/7   | 0.94 | 0.27 | 187,188,188,189             | 0     |
| 84  | OHX  | A     | 1915 | 7/7   | 0.94 | 0.17 | 133,134,135,135             | 0     |
| 84  | OHX  | A     | 1918 | 7/7   | 0.94 | 0.18 | 108,109,109,109             | 0     |
| 85  | MG   | sR    | 2168 | 1/1   | 0.94 | 0.34 | 47,47,47,47                 | 0     |
| 85  | MG   | CR    | 205  | 1/1   | 0.94 | 0.37 | 44,44,44,44                 | 0     |
| 84  | OHX  | sR    | 2026 | 7/7   | 0.94 | 0.47 | 143,144,144,144             | 0     |
| 84  | OHX  | 1     | 3616 | 7/7   | 0.94 | 0.36 | 146,147,147,148             | 0     |
| 85  | MG   | CX    | 203  | 1/1   | 0.94 | 0.43 | 30,30,30,30                 | 0     |
| 84  | OHX  | sR    | 2028 | 7/7   | 0.94 | 0.35 | 184,184,185,185             | 0     |
| 85  | MG   | CX    | 205  | 1/1   | 0.94 | 0.19 | 48,48,48,48                 | 0     |
| 84  | OHX  | A     | 1953 | 7/7   | 0.94 | 0.27 | 164,165,166,166             | 0     |
| 85  | MG   | AR    | 3844 | 1/1   | 0.94 | 0.39 | 28,28,28,28                 | 0     |
| 85  | MG   | AR    | 4077 | 1/1   | 0.94 | 0.28 | 43,43,43,43                 | 0     |
| 84  | OHX  | AR    | 3605 | 7/7   | 0.94 | 0.24 | 145,146,146,146             | 0     |
| 84  | OHX  | 1     | 3722 | 7/7   | 0.94 | 0.26 | 176,176,177,177             | 0     |
| 85  | MG   | 1     | 4190 | 1/1   | 0.94 | 0.33 | 18,18,18,18                 | 0     |
| 84  | OHX  | 1     | 3664 | 7/7   | 0.94 | 0.28 | 188,189,190,190             | 0     |
| 85  | MG   | AR    | 3853 | 1/1   | 0.94 | 0.27 | 43,43,43,43                 | 0     |
| 85  | MG   | sR    | 2190 | 1/1   | 0.94 | 0.38 | 57,57,57,57                 | 0     |
| 85  | MG   | 1     | 3853 | 1/1   | 0.94 | 0.61 | 34,34,34,34                 | 0     |
| 84  | OHX  | AR    | 3705 | 7/7   | 0.94 | 0.43 | 142,142,142,143             | 0     |
| 85  | MG   | AR    | 4086 | 1/1   | 0.94 | 0.36 | 41,41,41,41                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | AR    | 3859 | 1/1   | 0.94 | 0.40 | 39,39,39,39                | 0     |
| 84  | OHX  | 1     | 3635 | 7/7   | 0.94 | 0.26 | 142,143,143,143            | 0     |
| 84  | OHX  | AR    | 3611 | 7/7   | 0.94 | 0.27 | 136,136,137,137            | 0     |
| 84  | OHX  | AR    | 3613 | 7/7   | 0.94 | 0.33 | 154,155,155,155            | 0     |
| 85  | MG   | 1     | 4197 | 1/1   | 0.94 | 0.42 | 68,68,68,68                | 0     |
| 84  | OHX  | A     | 1980 | 7/7   | 0.94 | 0.22 | 166,166,167,167            | 0     |
| 85  | MG   | d4    | 202  | 1/1   | 0.94 | 0.32 | 60,60,60,60                | 0     |
| 84  | OHX  | 1     | 3511 | 7/7   | 0.94 | 0.21 | 118,118,119,119            | 0     |
| 85  | MG   | AR    | 4096 | 1/1   | 0.94 | 0.34 | 28,28,28,28                | 0     |
| 84  | OHX  | AR    | 3618 | 7/7   | 0.94 | 0.28 | 128,129,129,129            | 0     |
| 85  | MG   | A     | 2059 | 1/1   | 0.94 | 0.55 | 60,60,60,60                | 0     |
| 85  | MG   | AR    | 3879 | 1/1   | 0.94 | 0.39 | 30,30,30,30                | 0     |
| 87  | ZN   | d7    | 101  | 1/1   | 0.94 | 0.45 | 180,180,180,180            | 0     |
| 84  | OHX  | A     | 1991 | 7/7   | 0.94 | 0.15 | 183,184,185,185            | 0     |
| 85  | MG   | 1     | 4171 | 1/1   | 0.95 | 0.37 | 44,44,44,44                | 0     |
| 84  | OHX  | AR    | 3644 | 7/7   | 0.95 | 0.32 | 156,157,157,157            | 0     |
| 85  | MG   | 1     | 3989 | 1/1   | 0.95 | 0.22 | 45,45,45,45                | 0     |
| 85  | MG   | AR    | 3849 | 1/1   | 0.95 | 0.40 | 40,40,40,40                | 0     |
| 85  | MG   | A     | 2055 | 1/1   | 0.95 | 0.40 | 61,61,61,61                | 0     |
| 84  | OHX  | 1     | 3554 | 7/7   | 0.95 | 0.14 | 145,146,146,146            | 0     |
| 84  | OHX  | 1     | 3599 | 7/7   | 0.95 | 0.35 | 146,146,146,147            | 0     |
| 84  | OHX  | AR    | 3738 | 7/7   | 0.95 | 0.26 | 129,130,130,130            | 0     |
| 84  | OHX  | Q     | 201  | 7/7   | 0.95 | 0.19 | 187,187,188,188            | 0     |
| 85  | MG   | AR    | 3855 | 1/1   | 0.95 | 0.35 | 56,56,56,56                | 0     |
| 85  | MG   | 1     | 3996 | 1/1   | 0.95 | 0.30 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4092 | 1/1   | 0.95 | 0.31 | 41,41,41,41                | 0     |
| 84  | OHX  | 1     | 3661 | 7/7   | 0.95 | 0.21 | 145,145,146,146            | 0     |
| 85  | MG   | 1     | 3998 | 1/1   | 0.95 | 0.18 | 54,54,54,54                | 0     |
| 84  | OHX  | 1     | 3700 | 7/7   | 0.95 | 0.24 | 149,149,150,150            | 0     |
| 84  | OHX  | AR    | 3458 | 7/7   | 0.95 | 0.18 | 109,110,110,110            | 0     |
| 84  | OHX  | AR    | 3477 | 7/7   | 0.95 | 0.17 | 120,120,121,121            | 0     |
| 85  | MG   | AR    | 3871 | 1/1   | 0.95 | 0.78 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 3873 | 1/1   | 0.95 | 0.41 | 47,47,47,47                | 0     |
| 84  | OHX  | sR    | 1954 | 7/7   | 0.95 | 0.09 | 176,177,178,179            | 0     |
| 84  | OHX  | 1     | 3701 | 7/7   | 0.95 | 0.33 | 147,148,148,148            | 0     |
| 84  | OHX  | AR    | 3656 | 7/7   | 0.95 | 0.37 | 152,152,153,153            | 0     |
| 84  | OHX  | AR    | 3503 | 7/7   | 0.95 | 0.14 | 118,119,119,120            | 0     |
| 85  | MG   | 1     | 3793 | 1/1   | 0.95 | 0.47 | 25,25,25,25                | 0     |
| 84  | OHX  | 1     | 3600 | 7/7   | 0.95 | 0.27 | 154,154,155,155            | 0     |
| 84  | OHX  | AS    | 207  | 7/7   | 0.95 | 0.10 | 152,153,154,154            | 0     |
| 84  | OHX  | sR    | 1973 | 7/7   | 0.95 | 0.17 | 145,145,146,147            | 0     |
| 85  | MG   | AR    | 3886 | 1/1   | 0.95 | 0.45 | 28,28,28,28                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 85  | MG   | A     | 2083 | 1/1   | 0.95 | 0.34 | 53,53,53,53                | 0     |
| 84  | OHX  | 1     | 3482 | 7/7   | 0.95 | 0.17 | 99,99,100,100              | 0     |
| 84  | OHX  | sR    | 1977 | 7/7   | 0.95 | 0.12 | 159,160,161,161            | 0     |
| 85  | MG   | AR    | 4115 | 1/1   | 0.95 | 0.14 | 53,53,53,53                | 0     |
| 84  | OHX  | AR    | 3661 | 7/7   | 0.95 | 0.43 | 164,165,165,166            | 0     |
| 84  | OHX  | AR    | 3518 | 7/7   | 0.95 | 0.11 | 163,164,165,165            | 0     |
| 84  | OHX  | AT    | 206  | 7/7   | 0.95 | 0.15 | 128,128,128,128            | 0     |
| 84  | OHX  | sR    | 1982 | 7/7   | 0.95 | 0.31 | 140,140,140,140            | 0     |
| 85  | MG   | A     | 2093 | 1/1   | 0.95 | 0.33 | 54,54,54,54                | 0     |
| 84  | OHX  | sR    | 1985 | 7/7   | 0.95 | 0.17 | 137,137,138,138            | 0     |
| 85  | MG   | AR    | 4123 | 1/1   | 0.95 | 0.15 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 3896 | 1/1   | 0.95 | 0.71 | 46,46,46,46                | 0     |
| 85  | MG   | AR    | 4125 | 1/1   | 0.95 | 0.85 | 32,32,32,32                | 0     |
| 84  | OHX  | sR    | 1987 | 7/7   | 0.95 | 0.27 | 144,145,146,146            | 0     |
| 84  | OHX  | sR    | 1988 | 7/7   | 0.95 | 0.22 | 173,173,174,174            | 0     |
| 85  | MG   | 1     | 4207 | 1/1   | 0.95 | 0.42 | 35,35,35,35                | 0     |
| 84  | OHX  | AT    | 211  | 7/7   | 0.95 | 0.15 | 163,163,164,164            | 0     |
| 85  | MG   | 1     | 3812 | 1/1   | 0.95 | 0.50 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4211 | 1/1   | 0.95 | 0.29 | 22,22,22,22                | 0     |
| 85  | MG   | AR    | 4132 | 1/1   | 0.95 | 0.24 | 37,37,37,37                | 0     |
| 84  | OHX  | sR    | 1995 | 7/7   | 0.95 | 0.19 | 159,160,161,161            | 0     |
| 84  | OHX  | AT    | 212  | 7/7   | 0.95 | 0.26 | 152,152,152,152            | 0     |
| 85  | MG   | 1     | 3815 | 1/1   | 0.95 | 0.49 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3455 | 7/7   | 0.95 | 0.16 | 110,111,111,111            | 0     |
| 85  | MG   | 1     | 4028 | 1/1   | 0.95 | 0.42 | 61,61,61,61                | 0     |
| 84  | OHX  | sR    | 1999 | 7/7   | 0.95 | 0.25 | 161,161,162,162            | 0     |
| 85  | MG   | AR    | 3918 | 1/1   | 0.95 | 0.42 | 24,24,24,24                | 0     |
| 85  | MG   | A     | 2116 | 1/1   | 0.95 | 0.45 | 76,76,76,76                | 0     |
| 85  | MG   | AR    | 4142 | 1/1   | 0.95 | 0.09 | 69,69,69,69                | 0     |
| 84  | OHX  | 1     | 3515 | 7/7   | 0.95 | 0.18 | 124,124,124,125            | 0     |
| 84  | OHX  | 1     | 3562 | 7/7   | 0.95 | 0.18 | 141,141,141,142            | 0     |
| 84  | OHX  | 1     | 3633 | 7/7   | 0.95 | 0.23 | 178,179,179,180            | 0     |
| 85  | MG   | 3     | 217  | 1/1   | 0.95 | 0.21 | 47,47,47,47                | 0     |
| 84  | OHX  | AR    | 3667 | 7/7   | 0.95 | 0.41 | 143,143,143,143            | 0     |
| 84  | OHX  | AR    | 3668 | 7/7   | 0.95 | 0.21 | 136,136,136,136            | 0     |
| 85  | MG   | AR    | 4153 | 1/1   | 0.95 | 0.34 | 36,36,36,36                | 0     |
| 84  | OHX  | AR    | 3536 | 7/7   | 0.95 | 0.13 | 139,139,139,139            | 0     |
| 84  | OHX  | CF    | 401  | 7/7   | 0.95 | 0.30 | 165,166,166,167            | 0     |
| 85  | MG   | AR    | 3938 | 1/1   | 0.95 | 0.54 | 52,52,52,52                | 0     |
| 84  | OHX  | 1     | 3609 | 7/7   | 0.95 | 0.17 | 134,135,135,135            | 0     |
| 85  | MG   | AR    | 4158 | 1/1   | 0.95 | 0.23 | 52,52,52,52                | 0     |
| 85  | MG   | 4     | 218  | 1/1   | 0.95 | 0.61 | 48,48,48,48                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3672 | 7/7   | 0.95 | 0.16 | 159,160,160,160            | 0     |
| 85  | MG   | AR    | 3942 | 1/1   | 0.95 | 0.66 | 34,34,34,34                | 0     |
| 84  | OHX  | sR    | 2011 | 7/7   | 0.95 | 0.26 | 172,172,173,173            | 0     |
| 84  | OHX  | AR    | 3542 | 7/7   | 0.95 | 0.14 | 145,146,147,147            | 0     |
| 85  | MG   | A     | 2136 | 1/1   | 0.95 | 0.12 | 96,96,96,96                | 0     |
| 85  | MG   | AR    | 4164 | 1/1   | 0.95 | 0.11 | 152,152,152,152            | 0     |
| 85  | MG   | AR    | 3945 | 1/1   | 0.95 | 0.40 | 43,43,43,43                | 0     |
| 85  | MG   | 4     | 223  | 1/1   | 0.95 | 0.58 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 3835 | 1/1   | 0.95 | 0.42 | 25,25,25,25                | 0     |
| 85  | MG   | 1     | 3839 | 1/1   | 0.95 | 0.58 | 28,28,28,28                | 0     |
| 85  | MG   | A     | 2143 | 1/1   | 0.95 | 0.11 | 115,115,115,115            | 0     |
| 85  | MG   | 1     | 3840 | 1/1   | 0.95 | 0.61 | 22,22,22,22                | 0     |
| 84  | OHX  | sR    | 2013 | 7/7   | 0.95 | 0.15 | 170,170,171,171            | 0     |
| 84  | OHX  | CG    | 303  | 7/7   | 0.95 | 0.35 | 158,159,159,160            | 0     |
| 84  | OHX  | sR    | 2015 | 7/7   | 0.95 | 0.31 | 158,159,159,160            | 0     |
| 85  | MG   | 1     | 4052 | 1/1   | 0.95 | 0.17 | 51,51,51,51                | 0     |
| 84  | OHX  | AR    | 3543 | 7/7   | 0.95 | 0.16 | 137,138,138,139            | 0     |
| 85  | MG   | A     | 2151 | 1/1   | 0.95 | 0.14 | 67,67,67,67                | 0     |
| 84  | OHX  | 1     | 3669 | 7/7   | 0.95 | 0.24 | 150,150,151,151            | 0     |
| 85  | MG   | AR    | 3961 | 1/1   | 0.95 | 0.27 | 28,28,28,28                | 0     |
| 84  | OHX  | sR    | 2018 | 7/7   | 0.95 | 0.27 | 157,158,158,159            | 0     |
| 84  | OHX  | AR    | 3549 | 7/7   | 0.95 | 0.16 | 137,138,138,138            | 0     |
| 85  | MG   | 1     | 3857 | 1/1   | 0.95 | 0.48 | 33,33,33,33                | 0     |
| 85  | MG   | AR    | 4185 | 1/1   | 0.95 | 0.49 | 53,53,53,53                | 0     |
| 85  | MG   | sR    | 2053 | 1/1   | 0.95 | 0.65 | 49,49,49,49                | 0     |
| 84  | OHX  | AR    | 3553 | 7/7   | 0.95 | 0.15 | 136,136,137,137            | 0     |
| 85  | MG   | 1     | 3861 | 1/1   | 0.95 | 0.30 | 44,44,44,44                | 0     |
| 84  | OHX  | AR    | 3558 | 7/7   | 0.95 | 0.25 | 121,121,121,122            | 0     |
| 85  | MG   | AR    | 4189 | 1/1   | 0.95 | 0.34 | 46,46,46,46                | 0     |
| 84  | OHX  | CX    | 202  | 7/7   | 0.95 | 0.20 | 131,132,132,132            | 0     |
| 85  | MG   | 1     | 405  | 1/1   | 0.95 | 0.34 | 40,40,40,40                | 0     |
| 84  | OHX  | AR    | 3559 | 7/7   | 0.95 | 0.17 | 115,116,116,116            | 0     |
| 85  | MG   | 1     | 3869 | 1/1   | 0.95 | 0.51 | 41,41,41,41                | 0     |
| 84  | OHX  | 1     | 3711 | 7/7   | 0.95 | 0.42 | 157,157,158,158            | 0     |
| 85  | MG   | AR    | 4199 | 1/1   | 0.95 | 0.27 | 54,54,54,54                | 0     |
| 84  | OHX  | AR    | 3564 | 7/7   | 0.95 | 0.14 | 149,149,149,150            | 0     |
| 85  | MG   | AR    | 4201 | 1/1   | 0.95 | 0.66 | 40,40,40,40                | 0     |
| 84  | OHX  | 1     | 3636 | 7/7   | 0.95 | 0.27 | 194,194,195,195            | 0     |
| 85  | MG   | AR    | 4205 | 1/1   | 0.95 | 0.14 | 36,36,36,36                | 0     |
| 84  | OHX  | A     | 1947 | 7/7   | 0.95 | 0.17 | 124,125,125,125            | 0     |
| 84  | OHX  | 1     | 3637 | 7/7   | 0.95 | 0.26 | 143,144,144,144            | 0     |
| 84  | OHX  | AR    | 3686 | 7/7   | 0.95 | 0.32 | 173,174,175,175            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | sR    | 2077 | 1/1   | 0.95 | 0.52 | 41,41,41,41                 | 0     |
| 84  | OHX  | AR    | 3573 | 7/7   | 0.95 | 0.12 | 145,145,145,145             | 0     |
| 84  | OHX  | A     | 1963 | 7/7   | 0.95 | 0.22 | 165,166,167,167             | 0     |
| 84  | OHX  | AR    | 3577 | 7/7   | 0.95 | 0.16 | 156,156,157,157             | 0     |
| 85  | MG   | 1     | 3882 | 1/1   | 0.95 | 0.42 | 22,22,22,22                 | 0     |
| 84  | OHX  | AR    | 3689 | 7/7   | 0.95 | 0.34 | 152,153,153,153             | 0     |
| 85  | MG   | 1     | 4078 | 1/1   | 0.95 | 0.26 | 38,38,38,38                 | 0     |
| 85  | MG   | AR    | 3987 | 1/1   | 0.95 | 0.30 | 45,45,45,45                 | 0     |
| 84  | OHX  | A     | 1968 | 7/7   | 0.95 | 0.28 | 146,147,147,148             | 0     |
| 85  | MG   | 1     | 3886 | 1/1   | 0.95 | 0.63 | 31,31,31,31                 | 0     |
| 85  | MG   | 1     | 3887 | 1/1   | 0.95 | 0.45 | 31,31,31,31                 | 0     |
| 85  | MG   | sR    | 2089 | 1/1   | 0.95 | 0.51 | 44,44,44,44                 | 0     |
| 85  | MG   | AR    | 4220 | 1/1   | 0.95 | 0.35 | 47,47,47,47                 | 0     |
| 84  | OHX  | AR    | 3580 | 7/7   | 0.95 | 0.19 | 132,132,133,133             | 0     |
| 84  | OHX  | 1     | 3714 | 7/7   | 0.95 | 0.40 | 163,164,164,165             | 0     |
| 84  | OHX  | 1     | 3519 | 7/7   | 0.95 | 0.17 | 110,110,111,111             | 0     |
| 85  | MG   | sR    | 2095 | 1/1   | 0.95 | 0.46 | 36,36,36,36                 | 0     |
| 85  | MG   | 1     | 4085 | 1/1   | 0.95 | 0.17 | 39,39,39,39                 | 0     |
| 84  | OHX  | A     | 1978 | 7/7   | 0.95 | 0.17 | 167,168,169,169             | 0     |
| 85  | MG   | sR    | 2099 | 1/1   | 0.95 | 0.38 | 42,42,42,42                 | 0     |
| 85  | MG   | AR    | 3999 | 1/1   | 0.95 | 0.23 | 42,42,42,42                 | 0     |
| 85  | MG   | AR    | 4228 | 1/1   | 0.95 | 0.35 | 62,62,62,62                 | 0     |
| 85  | MG   | AR    | 4229 | 1/1   | 0.95 | 0.64 | 92,92,92,92                 | 0     |
| 84  | OHX  | AR    | 3597 | 7/7   | 0.95 | 0.34 | 126,127,127,127             | 0     |
| 84  | OHX  | AR    | 3694 | 7/7   | 0.95 | 0.38 | 147,148,148,149             | 0     |
| 85  | MG   | AR    | 3750 | 1/1   | 0.95 | 0.12 | 39,39,39,39                 | 0     |
| 84  | OHX  | AR    | 3598 | 7/7   | 0.95 | 0.23 | 137,138,138,138             | 0     |
| 84  | OHX  | AR    | 3696 | 7/7   | 0.95 | 0.30 | 145,146,147,147             | 0     |
| 85  | MG   | sR    | 2112 | 1/1   | 0.95 | 0.23 | 62,62,62,62                 | 0     |
| 85  | MG   | sR    | 2113 | 1/1   | 0.95 | 0.39 | 52,52,52,52                 | 0     |
| 85  | MG   | 1     | 4095 | 1/1   | 0.95 | 0.14 | 57,57,57,57                 | 0     |
| 85  | MG   | AR    | 4007 | 1/1   | 0.95 | 0.45 | 52,52,52,52                 | 0     |
| 84  | OHX  | AR    | 3600 | 7/7   | 0.95 | 0.25 | 157,158,158,159             | 0     |
| 84  | OHX  | A     | 1995 | 7/7   | 0.95 | 0.11 | 177,178,179,179             | 0     |
| 84  | OHX  | 1     | 3640 | 7/7   | 0.95 | 0.25 | 145,145,146,146             | 0     |
| 85  | MG   | 1     | 3919 | 1/1   | 0.95 | 0.66 | 23,23,23,23                 | 0     |
| 84  | OHX  | A     | 1998 | 7/7   | 0.95 | 0.23 | 178,179,180,181             | 0     |
| 84  | OHX  | A     | 1999 | 7/7   | 0.95 | 0.21 | 169,170,170,171             | 0     |
| 84  | OHX  | A     | 2000 | 7/7   | 0.95 | 0.20 | 167,168,168,168             | 0     |
| 84  | OHX  | 1     | 3643 | 7/7   | 0.95 | 0.25 | 157,158,158,158             | 0     |
| 85  | MG   | AS    | 214  | 1/1   | 0.95 | 0.35 | 57,57,57,57                 | 0     |
| 85  | MG   | AS    | 216  | 1/1   | 0.95 | 0.55 | 26,26,26,26                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | sR    | 2127 | 1/1   | 0.95 | 0.28 | 65,65,65,65                 | 0     |
| 85  | MG   | sR    | 2128 | 1/1   | 0.95 | 0.31 | 38,38,38,38                 | 0     |
| 85  | MG   | 1     | 4106 | 1/1   | 0.95 | 0.15 | 37,37,37,37                 | 0     |
| 84  | OHX  | 1     | 3612 | 7/7   | 0.95 | 0.17 | 149,150,151,151             | 0     |
| 85  | MG   | 1     | 3934 | 1/1   | 0.95 | 0.14 | 34,34,34,34                 | 0     |
| 84  | OHX  | A     | 2003 | 7/7   | 0.95 | 0.26 | 153,154,155,155             | 0     |
| 84  | OHX  | A     | 2004 | 7/7   | 0.95 | 0.22 | 167,168,169,169             | 0     |
| 85  | MG   | AS    | 222  | 1/1   | 0.95 | 0.32 | 34,34,34,34                 | 0     |
| 84  | OHX  | 1     | 3613 | 7/7   | 0.95 | 0.35 | 140,141,141,141             | 0     |
| 85  | MG   | AS    | 224  | 1/1   | 0.95 | 0.15 | 88,88,88,88                 | 0     |
| 84  | OHX  | A     | 2006 | 7/7   | 0.95 | 0.18 | 162,163,164,164             | 0     |
| 84  | OHX  | AR    | 3704 | 7/7   | 0.95 | 0.24 | 136,136,136,137             | 0     |
| 84  | OHX  | 1     | 3677 | 7/7   | 0.95 | 0.16 | 196,197,197,198             | 0     |
| 84  | OHX  | c5    | 201  | 7/7   | 0.95 | 0.26 | 179,180,181,181             | 0     |
| 85  | MG   | 1     | 3945 | 1/1   | 0.95 | 0.36 | 34,34,34,34                 | 0     |
| 84  | OHX  | AR    | 3706 | 7/7   | 0.95 | 0.29 | 146,146,146,147             | 0     |
| 84  | OHX  | 1     | 3615 | 7/7   | 0.95 | 0.22 | 151,151,152,153             | 0     |
| 84  | OHX  | 1     | 3537 | 7/7   | 0.95 | 0.23 | 127,128,128,128             | 0     |
| 84  | OHX  | AR    | 3610 | 7/7   | 0.95 | 0.13 | 155,155,156,156             | 0     |
| 85  | MG   | 1     | 3736 | 1/1   | 0.95 | 0.34 | 53,53,53,53                 | 0     |
| 84  | OHX  | A     | 2014 | 7/7   | 0.95 | 0.37 | 154,155,155,155             | 0     |
| 85  | MG   | sR    | 2149 | 1/1   | 0.95 | 0.51 | 59,59,59,59                 | 0     |
| 84  | OHX  | 1     | 3680 | 7/7   | 0.95 | 0.29 | 180,180,181,181             | 0     |
| 84  | OHX  | AR    | 3612 | 7/7   | 0.95 | 0.24 | 139,140,140,140             | 0     |
| 84  | OHX  | 1     | 3582 | 7/7   | 0.95 | 0.29 | 125,125,126,126             | 0     |
| 85  | MG   | 1     | 3743 | 1/1   | 0.95 | 0.59 | 42,42,42,42                 | 0     |
| 84  | OHX  | 1     | 3651 | 7/7   | 0.95 | 0.21 | 149,149,150,150             | 0     |
| 85  | MG   | AR    | 3799 | 1/1   | 0.95 | 0.36 | 46,46,46,46                 | 0     |
| 85  | MG   | AR    | 3800 | 1/1   | 0.95 | 0.63 | 48,48,48,48                 | 0     |
| 85  | MG   | 1     | 4133 | 1/1   | 0.95 | 0.43 | 74,74,74,74                 | 0     |
| 84  | OHX  | AR    | 3616 | 7/7   | 0.95 | 0.32 | 156,157,158,158             | 0     |
| 84  | OHX  | 1     | 3685 | 7/7   | 0.95 | 0.26 | 172,172,173,173             | 0     |
| 84  | OHX  | 1     | 3686 | 7/7   | 0.95 | 0.24 | 154,154,155,155             | 0     |
| 84  | OHX  | 1     | 3689 | 7/7   | 0.95 | 0.31 | 131,132,132,132             | 0     |
| 85  | MG   | 1     | 3961 | 1/1   | 0.95 | 0.37 | 67,67,67,67                 | 0     |
| 85  | MG   | CN    | 201  | 1/1   | 0.95 | 0.17 | 72,72,72,72                 | 0     |
| 84  | OHX  | 1     | 3470 | 7/7   | 0.95 | 0.19 | 108,109,109,109             | 0     |
| 85  | MG   | CP    | 503  | 1/1   | 0.95 | 0.30 | 42,42,42,42                 | 0     |
| 85  | MG   | 1     | 4142 | 1/1   | 0.95 | 0.19 | 47,47,47,47                 | 0     |
| 84  | OHX  | AR    | 3624 | 7/7   | 0.95 | 0.18 | 139,139,140,140             | 0     |
| 84  | OHX  | AR    | 3625 | 7/7   | 0.95 | 0.26 | 147,148,148,149             | 0     |
| 85  | MG   | 1     | 3755 | 1/1   | 0.95 | 0.29 | 40,40,40,40                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4147 | 1/1   | 0.95 | 0.14 | 62,62,62,62                 | 0     |
| 84  | OHX  | A     | 2027 | 7/7   | 0.95 | 0.20 | 197,198,199,199             | 0     |
| 84  | OHX  | 1     | 3691 | 7/7   | 0.95 | 0.28 | 152,152,153,153             | 0     |
| 85  | MG   | sR    | 2181 | 1/1   | 0.95 | 0.13 | 108,108,108,108             | 0     |
| 84  | OHX  | 3     | 203  | 7/7   | 0.95 | 0.16 | 113,114,114,114             | 0     |
| 85  | MG   | 1     | 3759 | 1/1   | 0.95 | 0.33 | 55,55,55,55                 | 0     |
| 84  | OHX  | 1     | 3547 | 7/7   | 0.95 | 0.15 | 147,147,148,148             | 0     |
| 85  | MG   | AR    | 3823 | 1/1   | 0.95 | 0.12 | 80,80,80,80                 | 0     |
| 84  | OHX  | AR    | 3629 | 7/7   | 0.95 | 0.24 | 157,157,158,158             | 0     |
| 84  | OHX  | 3     | 207  | 7/7   | 0.95 | 0.16 | 158,158,159,159             | 0     |
| 85  | MG   | sR    | 2189 | 1/1   | 0.95 | 0.25 | 58,58,58,58                 | 0     |
| 84  | OHX  | AR    | 3634 | 7/7   | 0.95 | 0.27 | 173,173,174,174             | 0     |
| 84  | OHX  | AR    | 3635 | 7/7   | 0.95 | 0.15 | 158,159,159,159             | 0     |
| 84  | OHX  | 1     | 3620 | 7/7   | 0.95 | 0.17 | 148,148,149,149             | 0     |
| 85  | MG   | AR    | 3831 | 1/1   | 0.95 | 0.64 | 34,34,34,34                 | 0     |
| 85  | MG   | 1     | 3768 | 1/1   | 0.95 | 0.30 | 28,28,28,28                 | 0     |
| 85  | MG   | 1     | 3770 | 1/1   | 0.95 | 0.62 | 42,42,42,42                 | 0     |
| 84  | OHX  | 4     | 211  | 7/7   | 0.95 | 0.16 | 160,160,160,160             | 0     |
| 84  | OHX  | 1     | 3621 | 7/7   | 0.95 | 0.11 | 200,201,201,201             | 0     |
| 84  | OHX  | 1     | 3597 | 7/7   | 0.95 | 0.11 | 158,158,158,159             | 0     |
| 85  | MG   | DH    | 203  | 1/1   | 0.95 | 0.38 | 39,39,39,39                 | 0     |
| 85  | MG   | AR    | 3837 | 1/1   | 0.95 | 0.64 | 25,25,25,25                 | 0     |
| 85  | MG   | AR    | 3838 | 1/1   | 0.95 | 0.28 | 27,27,27,27                 | 0     |
| 85  | MG   | AR    | 4078 | 1/1   | 0.95 | 0.54 | 34,34,34,34                 | 0     |
| 85  | MG   | A     | 2043 | 1/1   | 0.95 | 0.37 | 55,55,55,55                 | 0     |
| 85  | MG   | A     | 2045 | 1/1   | 0.95 | 0.56 | 45,45,45,45                 | 0     |
| 84  | OHX  | 1     | 3658 | 7/7   | 0.95 | 0.12 | 173,174,174,175             | 0     |
| 87  | ZN   | g     | 501  | 1/1   | 0.95 | 0.05 | 121,121,121,121             | 0     |
| 85  | MG   | 1     | 3986 | 1/1   | 0.95 | 0.29 | 66,66,66,66                 | 0     |
| 84  | OHX  | 1     | 401  | 7/7   | 0.95 | 0.30 | 163,163,164,164             | 0     |
| 84  | OHX  | 1     | 3528 | 7/7   | 0.96 | 0.15 | 138,139,139,139             | 0     |
| 84  | OHX  | AR    | 3576 | 7/7   | 0.96 | 0.21 | 138,139,139,140             | 0     |
| 84  | OHX  | Rb    | 401  | 7/7   | 0.96 | 0.16 | 195,195,197,197             | 0     |
| 84  | OHX  | 1     | 3574 | 7/7   | 0.96 | 0.12 | 152,152,153,153             | 0     |
| 84  | OHX  | 1     | 3576 | 7/7   | 0.96 | 0.24 | 130,130,130,131             | 0     |
| 85  | MG   | AR    | 4144 | 1/1   | 0.96 | 0.45 | 30,30,30,30                 | 0     |
| 84  | OHX  | AR    | 3581 | 7/7   | 0.96 | 0.25 | 131,132,132,132             | 0     |
| 84  | OHX  | AS    | 208  | 7/7   | 0.96 | 0.24 | 135,135,136,136             | 0     |
| 84  | OHX  | AR    | 3582 | 7/7   | 0.96 | 0.33 | 145,145,146,146             | 0     |
| 84  | OHX  | c8    | 201  | 7/7   | 0.96 | 0.14 | 166,166,167,167             | 0     |
| 85  | MG   | AR    | 4151 | 1/1   | 0.96 | 0.36 | 49,49,49,49                 | 0     |
| 84  | OHX  | d4    | 201  | 7/7   | 0.96 | 0.22 | 171,172,172,172             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | A     | 2096 | 1/1   | 0.96 | 0.17 | 91,91,91,91                 | 0     |
| 84  | OHX  | AR    | 3583 | 7/7   | 0.96 | 0.11 | 170,170,171,171             | 0     |
| 84  | OHX  | AR    | 3671 | 7/7   | 0.96 | 0.26 | 161,161,161,161             | 0     |
| 85  | MG   | 1     | 3899 | 1/1   | 0.96 | 0.32 | 22,22,22,22                 | 0     |
| 85  | MG   | 1     | 3902 | 1/1   | 0.96 | 0.69 | 37,37,37,37                 | 0     |
| 84  | OHX  | AT    | 205  | 7/7   | 0.96 | 0.12 | 136,137,137,137             | 0     |
| 85  | MG   | 1     | 3905 | 1/1   | 0.96 | 0.41 | 36,36,36,36                 | 0     |
| 84  | OHX  | AR    | 3585 | 7/7   | 0.96 | 0.24 | 156,156,156,156             | 0     |
| 85  | MG   | AR    | 3956 | 1/1   | 0.96 | 0.32 | 41,41,41,41                 | 0     |
| 85  | MG   | 1     | 3908 | 1/1   | 0.96 | 0.29 | 21,21,21,21                 | 0     |
| 85  | MG   | 1     | 3909 | 1/1   | 0.96 | 0.46 | 27,27,27,27                 | 0     |
| 85  | MG   | AR    | 3959 | 1/1   | 0.96 | 0.36 | 30,30,30,30                 | 0     |
| 85  | MG   | 1     | 3735 | 1/1   | 0.96 | 0.47 | 50,50,50,50                 | 0     |
| 84  | OHX  | AT    | 207  | 7/7   | 0.96 | 0.21 | 135,135,135,135             | 0     |
| 84  | OHX  | AT    | 209  | 7/7   | 0.96 | 0.20 | 133,133,134,134             | 0     |
| 85  | MG   | 1     | 3915 | 1/1   | 0.96 | 0.31 | 39,39,39,39                 | 0     |
| 85  | MG   | AR    | 3964 | 1/1   | 0.96 | 0.25 | 38,38,38,38                 | 0     |
| 84  | OHX  | AT    | 210  | 7/7   | 0.96 | 0.19 | 136,136,137,137             | 0     |
| 85  | MG   | AR    | 4170 | 1/1   | 0.96 | 0.27 | 55,55,55,55                 | 0     |
| 85  | MG   | x     | 207  | 1/1   | 0.96 | 0.33 | 42,42,42,42                 | 0     |
| 84  | OHX  | AR    | 3673 | 7/7   | 0.96 | 0.25 | 179,180,181,181             | 0     |
| 84  | OHX  | AR    | 3587 | 7/7   | 0.96 | 0.20 | 120,121,121,121             | 0     |
| 84  | OHX  | 1     | 3580 | 7/7   | 0.96 | 0.18 | 117,117,118,118             | 0     |
| 85  | MG   | AB    | 201  | 1/1   | 0.96 | 0.36 | 26,26,26,26                 | 0     |
| 84  | OHX  | AR    | 3592 | 7/7   | 0.96 | 0.20 | 147,148,148,149             | 0     |
| 84  | OHX  | AR    | 3594 | 7/7   | 0.96 | 0.22 | 137,138,138,138             | 0     |
| 85  | MG   | 1     | 3932 | 1/1   | 0.96 | 0.43 | 22,22,22,22                 | 0     |
| 85  | MG   | 1     | 3933 | 1/1   | 0.96 | 0.26 | 32,32,32,32                 | 0     |
| 84  | OHX  | AR    | 3678 | 7/7   | 0.96 | 0.34 | 123,124,124,124             | 0     |
| 84  | OHX  | e     | 101  | 7/7   | 0.96 | 0.33 | 167,168,169,169             | 0     |
| 85  | MG   | 1     | 3936 | 1/1   | 0.96 | 0.12 | 40,40,40,40                 | 0     |
| 85  | MG   | 1     | 3937 | 1/1   | 0.96 | 0.15 | 50,50,50,50                 | 0     |
| 84  | OHX  | h     | 401  | 7/7   | 0.96 | 0.12 | 193,195,196,196             | 0     |
| 84  | OHX  | 1     | 3481 | 7/7   | 0.96 | 0.13 | 120,120,121,121             | 0     |
| 85  | MG   | AR    | 4190 | 1/1   | 0.96 | 0.24 | 48,48,48,48                 | 0     |
| 85  | MG   | AR    | 4191 | 1/1   | 0.96 | 0.19 | 26,26,26,26                 | 0     |
| 85  | MG   | AR    | 4192 | 1/1   | 0.96 | 0.49 | 47,47,47,47                 | 0     |
| 85  | MG   | 1     | 3940 | 1/1   | 0.96 | 0.41 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 1921 | 7/7   | 0.96 | 0.15 | 124,125,126,127             | 0     |
| 84  | OHX  | sR    | 1929 | 7/7   | 0.96 | 0.15 | 154,154,155,156             | 0     |
| 84  | OHX  | 1     | 3583 | 7/7   | 0.96 | 0.19 | 139,140,140,140             | 0     |
| 84  | OHX  | sR    | 1933 | 7/7   | 0.96 | 0.17 | 106,106,107,107             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | 1     | 3538 | 7/7   | 0.96 | 0.20 | 114,114,114,115            | 0     |
| 84  | OHX  | sR    | 1943 | 7/7   | 0.96 | 0.12 | 131,132,132,132            | 0     |
| 84  | OHX  | 1     | 3591 | 7/7   | 0.96 | 0.15 | 169,170,171,171            | 0     |
| 85  | MG   | AR    | 3761 | 1/1   | 0.96 | 0.15 | 56,56,56,56                | 0     |
| 85  | MG   | AR    | 4203 | 1/1   | 0.96 | 0.22 | 40,40,40,40                | 0     |
| 84  | OHX  | sR    | 1952 | 7/7   | 0.96 | 0.10 | 159,159,160,160            | 0     |
| 85  | MG   | AR    | 3764 | 1/1   | 0.96 | 0.54 | 15,15,15,15                | 0     |
| 84  | OHX  | 1     | 3592 | 7/7   | 0.96 | 0.21 | 118,119,119,119            | 0     |
| 84  | OHX  | sR    | 1955 | 7/7   | 0.96 | 0.11 | 168,169,170,171            | 0     |
| 85  | MG   | AR    | 3998 | 1/1   | 0.96 | 0.16 | 48,48,48,48                | 0     |
| 84  | OHX  | sR    | 1956 | 7/7   | 0.96 | 0.10 | 175,176,177,178            | 0     |
| 85  | MG   | 1     | 4120 | 1/1   | 0.96 | 0.35 | 42,42,42,42                | 0     |
| 84  | OHX  | 1     | 3539 | 7/7   | 0.96 | 0.13 | 130,131,131,132            | 0     |
| 84  | OHX  | AR    | 3603 | 7/7   | 0.96 | 0.16 | 142,143,143,143            | 0     |
| 84  | OHX  | 1     | 3627 | 7/7   | 0.96 | 0.18 | 134,135,135,135            | 0     |
| 84  | OHX  | sR    | 1967 | 7/7   | 0.96 | 0.15 | 142,143,144,144            | 0     |
| 85  | MG   | 1     | 3771 | 1/1   | 0.96 | 0.65 | 41,41,41,41                | 0     |
| 84  | OHX  | 1     | 3595 | 7/7   | 0.96 | 0.14 | 183,183,184,185            | 0     |
| 85  | MG   | sR    | 2057 | 1/1   | 0.96 | 0.50 | 56,56,56,56                | 0     |
| 85  | MG   | sR    | 2058 | 1/1   | 0.96 | 0.36 | 51,51,51,51                | 0     |
| 84  | OHX  | CL    | 301  | 7/7   | 0.96 | 0.16 | 151,151,151,152            | 0     |
| 85  | MG   | AR    | 3779 | 1/1   | 0.96 | 0.27 | 49,49,49,49                | 0     |
| 84  | OHX  | y     | 201  | 7/7   | 0.96 | 0.18 | 151,152,153,154            | 0     |
| 84  | OHX  | sR    | 1975 | 7/7   | 0.96 | 0.39 | 135,135,136,136            | 0     |
| 85  | MG   | AR    | 3782 | 1/1   | 0.96 | 0.26 | 28,28,28,28                | 0     |
| 84  | OHX  | 1     | 3705 | 7/7   | 0.96 | 0.25 | 123,124,124,125            | 0     |
| 85  | MG   | 1     | 3962 | 1/1   | 0.96 | 0.22 | 93,93,93,93                | 0     |
| 84  | OHX  | AR    | 3608 | 7/7   | 0.96 | 0.17 | 128,128,128,128            | 0     |
| 85  | MG   | AR    | 3786 | 1/1   | 0.96 | 0.35 | 40,40,40,40                | 0     |
| 85  | MG   | 1     | 3964 | 1/1   | 0.96 | 0.38 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 3790 | 1/1   | 0.96 | 0.41 | 40,40,40,40                | 0     |
| 84  | OHX  | 1     | 3596 | 7/7   | 0.96 | 0.14 | 146,147,147,147            | 0     |
| 84  | OHX  | AP    | 502  | 7/7   | 0.96 | 0.20 | 102,102,103,104            | 0     |
| 85  | MG   | 1     | 4139 | 1/1   | 0.96 | 0.48 | 35,35,35,35                | 0     |
| 84  | OHX  | 1     | 3540 | 7/7   | 0.96 | 0.21 | 130,131,131,131            | 0     |
| 84  | OHX  | AR    | 3459 | 7/7   | 0.96 | 0.17 | 100,101,101,102            | 0     |
| 84  | OHX  | sR    | 1984 | 7/7   | 0.96 | 0.12 | 158,159,159,160            | 0     |
| 84  | OHX  | AR    | 3476 | 7/7   | 0.96 | 0.21 | 84,84,85,85                | 0     |
| 85  | MG   | AR    | 4239 | 1/1   | 0.96 | 0.29 | 38,38,38,38                | 0     |
| 84  | OHX  | sR    | 1986 | 7/7   | 0.96 | 0.16 | 172,173,174,174            | 0     |
| 85  | MG   | AR    | 4242 | 1/1   | 0.96 | 0.51 | 36,36,36,36                | 0     |
| 85  | MG   | AR    | 3801 | 1/1   | 0.96 | 0.68 | 41,41,41,41                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | A     | 1921 | 7/7   | 0.96 | 0.14 | 124,125,126,126            | 0     |
| 84  | OHX  | A     | 1932 | 7/7   | 0.96 | 0.14 | 143,144,144,145            | 0     |
| 84  | OHX  | sR    | 1989 | 7/7   | 0.96 | 0.15 | 151,151,152,152            | 0     |
| 84  | OHX  | sR    | 1990 | 7/7   | 0.96 | 0.11 | 159,159,160,161            | 0     |
| 84  | OHX  | A     | 1936 | 7/7   | 0.96 | 0.14 | 127,128,128,128            | 0     |
| 85  | MG   | AR    | 3810 | 1/1   | 0.96 | 0.54 | 25,25,25,25                | 0     |
| 85  | MG   | 1     | 3791 | 1/1   | 0.96 | 0.55 | 37,37,37,37                | 0     |
| 85  | MG   | sR    | 2093 | 1/1   | 0.96 | 0.28 | 50,50,50,50                | 0     |
| 84  | OHX  | sR    | 1992 | 7/7   | 0.96 | 0.29 | 144,144,145,145            | 0     |
| 84  | OHX  | sR    | 1994 | 7/7   | 0.96 | 0.17 | 157,158,159,159            | 0     |
| 84  | OHX  | 1     | 3541 | 7/7   | 0.96 | 0.15 | 141,141,142,142            | 0     |
| 84  | OHX  | AR    | 3478 | 7/7   | 0.96 | 0.19 | 99,99,100,100              | 0     |
| 85  | MG   | 1     | 3797 | 1/1   | 0.96 | 0.59 | 54,54,54,54                | 0     |
| 84  | OHX  | A     | 1948 | 7/7   | 0.96 | 0.12 | 140,141,141,142            | 0     |
| 84  | OHX  | AR    | 3698 | 7/7   | 0.96 | 0.31 | 147,148,148,148            | 0     |
| 85  | MG   | 1     | 3800 | 1/1   | 0.96 | 0.50 | 62,62,62,62                | 0     |
| 85  | MG   | AR    | 4047 | 1/1   | 0.96 | 0.23 | 45,45,45,45                | 0     |
| 84  | OHX  | AR    | 3617 | 7/7   | 0.96 | 0.15 | 146,146,147,147            | 0     |
| 84  | OHX  | 1     | 3504 | 7/7   | 0.96 | 0.10 | 137,137,138,138            | 0     |
| 85  | MG   | 1     | 3990 | 1/1   | 0.96 | 0.31 | 31,31,31,31                | 0     |
| 85  | MG   | sR    | 2108 | 1/1   | 0.96 | 0.34 | 55,55,55,55                | 0     |
| 84  | OHX  | A     | 1960 | 7/7   | 0.96 | 0.13 | 167,168,168,169            | 0     |
| 85  | MG   | AT    | 220  | 1/1   | 0.96 | 0.58 | 52,52,52,52                | 0     |
| 85  | MG   | 1     | 3805 | 1/1   | 0.96 | 0.53 | 21,21,21,21                | 0     |
| 85  | MG   | AR    | 3825 | 1/1   | 0.96 | 0.39 | 27,27,27,27                | 0     |
| 84  | OHX  | AR    | 3619 | 7/7   | 0.96 | 0.24 | 138,139,139,139            | 0     |
| 85  | MG   | 1     | 4170 | 1/1   | 0.96 | 0.13 | 50,50,50,50                | 0     |
| 85  | MG   | 1     | 3807 | 1/1   | 0.96 | 0.25 | 33,33,33,33                | 0     |
| 85  | MG   | AR    | 3829 | 1/1   | 0.96 | 0.42 | 38,38,38,38                | 0     |
| 85  | MG   | sR    | 2119 | 1/1   | 0.96 | 0.46 | 67,67,67,67                | 0     |
| 84  | OHX  | 1     | 3634 | 7/7   | 0.96 | 0.27 | 128,128,129,129            | 0     |
| 84  | OHX  | A     | 1965 | 7/7   | 0.96 | 0.12 | 148,149,150,150            | 0     |
| 85  | MG   | 1     | 4174 | 1/1   | 0.96 | 0.27 | 60,60,60,60                | 0     |
| 85  | MG   | 1     | 4175 | 1/1   | 0.96 | 0.38 | 54,54,54,54                | 0     |
| 84  | OHX  | 1     | 3488 | 7/7   | 0.96 | 0.15 | 111,112,112,112            | 0     |
| 84  | OHX  | AR    | 3622 | 7/7   | 0.96 | 0.30 | 127,127,127,128            | 0     |
| 84  | OHX  | 1     | 3602 | 7/7   | 0.96 | 0.10 | 168,168,169,169            | 0     |
| 84  | OHX  | sR    | 2010 | 7/7   | 0.96 | 0.17 | 138,139,140,140            | 0     |
| 84  | OHX  | A     | 1973 | 7/7   | 0.96 | 0.20 | 167,168,169,170            | 0     |
| 84  | OHX  | 1     | 3603 | 7/7   | 0.96 | 0.25 | 136,136,137,137            | 0     |
| 85  | MG   | AR    | 3841 | 1/1   | 0.96 | 0.32 | 53,53,53,53                | 0     |
| 84  | OHX  | A     | 1975 | 7/7   | 0.96 | 0.10 | 169,171,172,172            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3519 | 7/7   | 0.96 | 0.17 | 108,108,109,109            | 0     |
| 84  | OHX  | 1     | 3549 | 7/7   | 0.96 | 0.12 | 147,147,147,148            | 0     |
| 84  | OHX  | 1     | 3605 | 7/7   | 0.96 | 0.13 | 141,142,142,142            | 0     |
| 84  | OHX  | AR    | 3531 | 7/7   | 0.96 | 0.14 | 121,121,122,122            | 0     |
| 84  | OHX  | 1     | 3641 | 7/7   | 0.96 | 0.14 | 154,155,156,156            | 0     |
| 84  | OHX  | AR    | 3630 | 7/7   | 0.96 | 0.20 | 173,173,174,174            | 0     |
| 85  | MG   | 1     | 4012 | 1/1   | 0.96 | 0.25 | 49,49,49,49                | 0     |
| 84  | OHX  | AR    | 3632 | 7/7   | 0.96 | 0.23 | 151,151,151,151            | 0     |
| 85  | MG   | 1     | 3828 | 1/1   | 0.96 | 0.29 | 29,29,29,29                | 0     |
| 84  | OHX  | 1     | 3552 | 7/7   | 0.96 | 0.21 | 130,131,132,132            | 0     |
| 84  | OHX  | A     | 1996 | 7/7   | 0.96 | 0.25 | 162,162,163,163            | 0     |
| 85  | MG   | AR    | 3858 | 1/1   | 0.96 | 0.49 | 29,29,29,29                | 0     |
| 84  | OHX  | AR    | 3535 | 7/7   | 0.96 | 0.20 | 107,107,108,108            | 0     |
| 84  | OHX  | 1     | 3553 | 7/7   | 0.96 | 0.09 | 170,170,171,171            | 0     |
| 85  | MG   | AR    | 3863 | 1/1   | 0.96 | 0.23 | 49,49,49,49                | 0     |
| 85  | MG   | sR    | 2147 | 1/1   | 0.96 | 0.21 | 67,67,67,67                | 0     |
| 84  | OHX  | AR    | 3537 | 7/7   | 0.96 | 0.12 | 142,142,143,143            | 0     |
| 84  | OHX  | AR    | 3638 | 7/7   | 0.96 | 0.25 | 130,130,130,130            | 0     |
| 85  | MG   | 1     | 3836 | 1/1   | 0.96 | 0.30 | 36,36,36,36                | 0     |
| 85  | MG   | 1     | 3838 | 1/1   | 0.96 | 0.82 | 49,49,49,49                | 0     |
| 84  | OHX  | AR    | 3538 | 7/7   | 0.96 | 0.15 | 124,124,124,124            | 0     |
| 84  | OHX  | AR    | 3721 | 7/7   | 0.96 | 0.27 | 125,126,126,126            | 0     |
| 85  | MG   | AR    | 4093 | 1/1   | 0.96 | 0.30 | 33,33,33,33                | 0     |
| 85  | MG   | 1     | 3841 | 1/1   | 0.96 | 0.33 | 40,40,40,40                | 0     |
| 85  | MG   | 1     | 4205 | 1/1   | 0.96 | 0.42 | 58,58,58,58                | 0     |
| 85  | MG   | 1     | 4026 | 1/1   | 0.96 | 0.67 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3512 | 7/7   | 0.96 | 0.16 | 107,107,108,108            | 0     |
| 84  | OHX  | 1     | 3432 | 7/7   | 0.96 | 0.23 | 84,85,85,85                | 0     |
| 85  | MG   | sR    | 2162 | 1/1   | 0.96 | 0.40 | 50,50,50,50                | 0     |
| 84  | OHX  | 1     | 3499 | 7/7   | 0.96 | 0.15 | 106,107,107,107            | 0     |
| 85  | MG   | DP    | 101  | 1/1   | 0.96 | 0.34 | 52,52,52,52                | 0     |
| 84  | OHX  | AR    | 3547 | 7/7   | 0.96 | 0.11 | 157,157,158,158            | 0     |
| 85  | MG   | 1     | 4214 | 1/1   | 0.96 | 0.42 | 36,36,36,36                | 0     |
| 85  | MG   | sM    | 201  | 1/1   | 0.96 | 0.25 | 44,44,44,44                | 0     |
| 85  | MG   | 1     | 3850 | 1/1   | 0.96 | 0.62 | 40,40,40,40                | 0     |
| 85  | MG   | A     | 2044 | 1/1   | 0.96 | 0.64 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 4103 | 1/1   | 0.96 | 0.28 | 38,38,38,38                | 0     |
| 84  | OHX  | 1     | 3683 | 7/7   | 0.96 | 0.27 | 135,136,136,137            | 0     |
| 85  | MG   | 1     | 4217 | 1/1   | 0.96 | 0.14 | 36,36,36,36                | 0     |
| 84  | OHX  | 1     | 3723 | 7/7   | 0.96 | 0.23 | 157,158,158,159            | 0     |
| 85  | MG   | A     | 2049 | 1/1   | 0.96 | 0.57 | 48,48,48,48                | 0     |
| 84  | OHX  | AR    | 3550 | 7/7   | 0.96 | 0.19 | 117,117,118,118            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 3     | 211  | 1/1   | 0.96 | 0.48 | 33,33,33,33                 | 0     |
| 84  | OHX  | 1     | 3521 | 7/7   | 0.96 | 0.17 | 134,134,135,135             | 0     |
| 84  | OHX  | AR    | 3648 | 7/7   | 0.96 | 0.30 | 152,152,153,153             | 0     |
| 84  | OHX  | AR    | 3649 | 7/7   | 0.96 | 0.23 | 145,146,146,147             | 0     |
| 85  | MG   | 1     | 3862 | 1/1   | 0.96 | 0.39 | 21,21,21,21                 | 0     |
| 85  | MG   | AR    | 4114 | 1/1   | 0.96 | 0.51 | 37,37,37,37                 | 0     |
| 85  | MG   | 1     | 3863 | 1/1   | 0.96 | 0.49 | 42,42,42,42                 | 0     |
| 84  | OHX  | AR    | 3554 | 7/7   | 0.96 | 0.16 | 125,125,125,126             | 0     |
| 85  | MG   | 1     | 3865 | 1/1   | 0.96 | 0.67 | 29,29,29,29                 | 0     |
| 84  | OHX  | 1     | 3650 | 7/7   | 0.96 | 0.18 | 148,149,149,149             | 0     |
| 84  | OHX  | A     | 2016 | 7/7   | 0.96 | 0.18 | 161,162,162,163             | 0     |
| 85  | MG   | AR    | 3906 | 1/1   | 0.96 | 0.78 | 47,47,47,47                 | 0     |
| 85  | MG   | 1     | 3868 | 1/1   | 0.96 | 0.60 | 33,33,33,33                 | 0     |
| 84  | OHX  | 1     | 3687 | 7/7   | 0.96 | 0.32 | 149,150,150,150             | 0     |
| 84  | OHX  | 1     | 3523 | 7/7   | 0.96 | 0.12 | 131,131,132,132             | 0     |
| 85  | MG   | AR    | 3910 | 1/1   | 0.96 | 0.49 | 38,38,38,38                 | 0     |
| 85  | MG   | 1     | 3872 | 1/1   | 0.96 | 0.34 | 31,31,31,31                 | 0     |
| 85  | MG   | AR    | 3914 | 1/1   | 0.96 | 0.57 | 31,31,31,31                 | 0     |
| 84  | OHX  | AR    | 3561 | 7/7   | 0.96 | 0.18 | 122,123,123,123             | 0     |
| 84  | OHX  | AR    | 3563 | 7/7   | 0.96 | 0.12 | 143,144,144,144             | 0     |
| 85  | MG   | A     | 2073 | 1/1   | 0.96 | 0.72 | 75,75,75,75                 | 0     |
| 84  | OHX  | 1     | 3614 | 7/7   | 0.96 | 0.19 | 133,133,134,134             | 0     |
| 85  | MG   | 1     | 4056 | 1/1   | 0.96 | 0.42 | 50,50,50,50                 | 0     |
| 86  | 7AL  | 1     | 4210 | 26/26 | 0.96 | 0.23 | 31,31,32,32                 | 0     |
| 86  | 7AL  | AR    | 4246 | 26/26 | 0.96 | 0.20 | 33,33,33,33                 | 0     |
| 84  | OHX  | AR    | 3568 | 7/7   | 0.96 | 0.16 | 147,147,148,148             | 0     |
| 84  | OHX  | 1     | 3653 | 7/7   | 0.96 | 0.28 | 133,133,133,134             | 0     |
| 84  | OHX  | 1     | 3526 | 7/7   | 0.96 | 0.25 | 118,119,119,119             | 0     |
| 84  | OHX  | AR    | 3571 | 7/7   | 0.96 | 0.21 | 129,130,130,130             | 0     |
| 85  | MG   | 1     | 3845 | 1/1   | 0.97 | 0.54 | 22,22,22,22                 | 0     |
| 84  | OHX  | AR    | 3517 | 7/7   | 0.97 | 0.17 | 116,116,117,117             | 0     |
| 85  | MG   | AR    | 4039 | 1/1   | 0.97 | 0.34 | 47,47,47,47                 | 0     |
| 84  | OHX  | 1     | 3639 | 7/7   | 0.97 | 0.25 | 140,141,141,141             | 0     |
| 84  | OHX  | 1     | 3584 | 7/7   | 0.97 | 0.18 | 149,149,150,150             | 0     |
| 84  | OHX  | 1     | 3585 | 7/7   | 0.97 | 0.19 | 128,128,129,129             | 0     |
| 84  | OHX  | AR    | 3523 | 7/7   | 0.97 | 0.13 | 127,128,128,129             | 0     |
| 85  | MG   | AR    | 3775 | 1/1   | 0.97 | 0.19 | 38,38,38,38                 | 0     |
| 84  | OHX  | AR    | 3651 | 7/7   | 0.97 | 0.36 | 150,151,151,151             | 0     |
| 85  | MG   | 1     | 3856 | 1/1   | 0.97 | 0.40 | 23,23,23,23                 | 0     |
| 84  | OHX  | AR    | 3524 | 7/7   | 0.97 | 0.18 | 117,117,117,117             | 0     |
| 85  | MG   | 1     | 3858 | 1/1   | 0.97 | 0.65 | 37,37,37,37                 | 0     |
| 84  | OHX  | 1     | 3642 | 7/7   | 0.97 | 0.22 | 128,129,130,130             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 3860 | 1/1   | 0.97 | 0.49 | 31,31,31,31                 | 0     |
| 84  | OHX  | sR    | 1993 | 7/7   | 0.97 | 0.19 | 141,142,142,143             | 0     |
| 84  | OHX  | AR    | 3654 | 7/7   | 0.97 | 0.37 | 148,148,149,149             | 0     |
| 84  | OHX  | AR    | 3528 | 7/7   | 0.97 | 0.11 | 115,115,115,116             | 0     |
| 84  | OHX  | AR    | 3529 | 7/7   | 0.97 | 0.22 | 127,128,128,128             | 0     |
| 84  | OHX  | 1     | 3586 | 7/7   | 0.97 | 0.16 | 132,132,132,132             | 0     |
| 85  | MG   | AR    | 3788 | 1/1   | 0.97 | 0.57 | 39,39,39,39                 | 0     |
| 85  | MG   | 1     | 4090 | 1/1   | 0.97 | 0.09 | 43,43,43,43                 | 0     |
| 84  | OHX  | 1     | 3587 | 7/7   | 0.97 | 0.13 | 142,142,143,143             | 0     |
| 85  | MG   | 1     | 4092 | 1/1   | 0.97 | 0.40 | 46,46,46,46                 | 0     |
| 84  | OHX  | 1     | 3588 | 7/7   | 0.97 | 0.20 | 152,152,153,153             | 0     |
| 84  | OHX  | AR    | 3660 | 7/7   | 0.97 | 0.17 | 131,132,133,133             | 0     |
| 84  | OHX  | 1     | 3485 | 7/7   | 0.97 | 0.11 | 121,121,122,122             | 0     |
| 85  | MG   | A     | 2058 | 1/1   | 0.97 | 0.54 | 49,49,49,49                 | 0     |
| 85  | MG   | 1     | 3870 | 1/1   | 0.97 | 0.56 | 27,27,27,27                 | 0     |
| 84  | OHX  | A     | 1909 | 7/7   | 0.97 | 0.17 | 116,116,118,118             | 0     |
| 85  | MG   | AR    | 3798 | 1/1   | 0.97 | 0.32 | 30,30,30,30                 | 0     |
| 84  | OHX  | A     | 1910 | 7/7   | 0.97 | 0.20 | 102,103,104,104             | 0     |
| 84  | OHX  | A     | 1911 | 7/7   | 0.97 | 0.18 | 110,111,112,112             | 0     |
| 84  | OHX  | 1     | 3590 | 7/7   | 0.97 | 0.17 | 125,126,126,126             | 0     |
| 85  | MG   | 1     | 4102 | 1/1   | 0.97 | 0.26 | 66,66,66,66                 | 0     |
| 84  | OHX  | 1     | 3449 | 7/7   | 0.97 | 0.19 | 91,91,92,92                 | 0     |
| 84  | OHX  | 1     | 3464 | 7/7   | 0.97 | 0.15 | 108,108,109,109             | 0     |
| 85  | MG   | AR    | 3805 | 1/1   | 0.97 | 0.60 | 38,38,38,38                 | 0     |
| 85  | MG   | AR    | 3806 | 1/1   | 0.97 | 0.33 | 76,76,76,76                 | 0     |
| 85  | MG   | AR    | 3807 | 1/1   | 0.97 | 0.50 | 32,32,32,32                 | 0     |
| 84  | OHX  | A     | 1927 | 7/7   | 0.97 | 0.12 | 130,130,131,131             | 0     |
| 84  | OHX  | A     | 1928 | 7/7   | 0.97 | 0.12 | 128,129,130,130             | 0     |
| 84  | OHX  | A     | 1931 | 7/7   | 0.97 | 0.11 | 133,134,135,135             | 0     |
| 84  | OHX  | AR    | 3539 | 7/7   | 0.97 | 0.20 | 120,120,120,120             | 0     |
| 84  | OHX  | A     | 1933 | 7/7   | 0.97 | 0.16 | 119,120,120,120             | 0     |
| 85  | MG   | 1     | 3883 | 1/1   | 0.97 | 0.59 | 30,30,30,30                 | 0     |
| 84  | OHX  | A     | 1935 | 7/7   | 0.97 | 0.18 | 149,150,150,150             | 0     |
| 85  | MG   | A     | 2079 | 1/1   | 0.97 | 0.58 | 53,53,53,53                 | 0     |
| 84  | OHX  | AR    | 3540 | 7/7   | 0.97 | 0.15 | 104,104,105,105             | 0     |
| 84  | OHX  | A     | 1937 | 7/7   | 0.97 | 0.13 | 134,135,136,136             | 0     |
| 84  | OHX  | A     | 1939 | 7/7   | 0.97 | 0.10 | 143,144,145,145             | 0     |
| 84  | OHX  | A     | 1940 | 7/7   | 0.97 | 0.19 | 126,127,127,128             | 0     |
| 84  | OHX  | A     | 1943 | 7/7   | 0.97 | 0.15 | 119,120,120,121             | 0     |
| 84  | OHX  | A     | 1944 | 7/7   | 0.97 | 0.13 | 135,136,136,137             | 0     |
| 84  | OHX  | A     | 1945 | 7/7   | 0.97 | 0.12 | 160,161,162,162             | 0     |
| 84  | OHX  | 1     | 3532 | 7/7   | 0.97 | 0.19 | 113,114,114,114             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | 1     | 3594 | 7/7   | 0.97 | 0.27 | 138,138,139,139            | 0     |
| 85  | MG   | 1     | 3897 | 1/1   | 0.97 | 0.47 | 39,39,39,39                | 0     |
| 84  | OHX  | 1     | 3533 | 7/7   | 0.97 | 0.11 | 160,161,162,162            | 0     |
| 85  | MG   | A     | 2092 | 1/1   | 0.97 | 0.19 | 80,80,80,80                | 0     |
| 85  | MG   | 1     | 3901 | 1/1   | 0.97 | 0.46 | 18,18,18,18                | 0     |
| 84  | OHX  | A     | 1951 | 7/7   | 0.97 | 0.17 | 152,152,153,154            | 0     |
| 84  | OHX  | A     | 1952 | 7/7   | 0.97 | 0.21 | 139,140,140,141            | 0     |
| 85  | MG   | 1     | 4129 | 1/1   | 0.97 | 0.46 | 26,26,26,26                | 0     |
| 84  | OHX  | AR    | 3544 | 7/7   | 0.97 | 0.12 | 140,140,141,142            | 0     |
| 84  | OHX  | A     | 1955 | 7/7   | 0.97 | 0.11 | 132,133,134,135            | 0     |
| 85  | MG   | A     | 2099 | 1/1   | 0.97 | 0.32 | 50,50,50,50                | 0     |
| 84  | OHX  | A     | 1956 | 7/7   | 0.97 | 0.12 | 145,146,147,147            | 0     |
| 84  | OHX  | AR    | 3546 | 7/7   | 0.97 | 0.15 | 138,139,139,139            | 0     |
| 84  | OHX  | 1     | 3534 | 7/7   | 0.97 | 0.12 | 161,161,162,162            | 0     |
| 84  | OHX  | 1     | 3535 | 7/7   | 0.97 | 0.21 | 126,126,126,126            | 0     |
| 85  | MG   | AR    | 4106 | 1/1   | 0.97 | 0.22 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3468 | 7/7   | 0.97 | 0.16 | 109,110,110,111            | 0     |
| 84  | OHX  | 1     | 3490 | 7/7   | 0.97 | 0.16 | 101,102,102,102            | 0     |
| 85  | MG   | A     | 2108 | 1/1   | 0.97 | 0.30 | 79,79,79,79                | 0     |
| 85  | MG   | 1     | 3916 | 1/1   | 0.97 | 0.41 | 43,43,43,43                | 0     |
| 85  | MG   | 1     | 3917 | 1/1   | 0.97 | 0.51 | 46,46,46,46                | 0     |
| 85  | MG   | 1     | 3918 | 1/1   | 0.97 | 0.50 | 33,33,33,33                | 0     |
| 84  | OHX  | AR    | 3551 | 7/7   | 0.97 | 0.19 | 136,136,137,137            | 0     |
| 84  | OHX  | AR    | 3552 | 7/7   | 0.97 | 0.20 | 109,109,109,110            | 0     |
| 84  | OHX  | A     | 1967 | 7/7   | 0.97 | 0.13 | 136,137,137,138            | 0     |
| 85  | MG   | 1     | 4145 | 1/1   | 0.97 | 0.08 | 44,44,44,44                | 0     |
| 85  | MG   | AR    | 3846 | 1/1   | 0.97 | 0.46 | 40,40,40,40                | 0     |
| 85  | MG   | AR    | 4117 | 1/1   | 0.97 | 0.07 | 41,41,41,41                | 0     |
| 84  | OHX  | 1     | 3493 | 7/7   | 0.97 | 0.12 | 107,107,108,108            | 0     |
| 85  | MG   | AR    | 3848 | 1/1   | 0.97 | 0.29 | 29,29,29,29                | 0     |
| 85  | MG   | 1     | 3925 | 1/1   | 0.97 | 0.54 | 27,27,27,27                | 0     |
| 85  | MG   | AR    | 4121 | 1/1   | 0.97 | 0.18 | 50,50,50,50                | 0     |
| 85  | MG   | AR    | 3850 | 1/1   | 0.97 | 0.36 | 21,21,21,21                | 0     |
| 85  | MG   | 1     | 3927 | 1/1   | 0.97 | 0.61 | 20,20,20,20                | 0     |
| 84  | OHX  | A     | 1969 | 7/7   | 0.97 | 0.21 | 158,158,159,159            | 0     |
| 84  | OHX  | A     | 1970 | 7/7   | 0.97 | 0.19 | 136,136,137,137            | 0     |
| 84  | OHX  | 1     | 3495 | 7/7   | 0.97 | 0.13 | 119,119,119,120            | 0     |
| 84  | OHX  | AR    | 3557 | 7/7   | 0.97 | 0.29 | 129,130,130,130            | 0     |
| 85  | MG   | AR    | 3856 | 1/1   | 0.97 | 0.47 | 34,34,34,34                | 0     |
| 84  | OHX  | 1     | 3496 | 7/7   | 0.97 | 0.14 | 115,116,116,116            | 0     |
| 84  | OHX  | 1     | 3542 | 7/7   | 0.97 | 0.18 | 123,124,125,125            | 0     |
| 84  | OHX  | A     | 1976 | 7/7   | 0.97 | 0.24 | 135,135,136,136            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | AR    | 3860 | 1/1   | 0.97 | 0.43 | 26,26,26,26                 | 0     |
| 84  | OHX  | 1     | 3543 | 7/7   | 0.97 | 0.15 | 113,114,114,114             | 0     |
| 84  | OHX  | 1     | 3544 | 7/7   | 0.97 | 0.23 | 120,121,121,121             | 0     |
| 85  | MG   | AR    | 4135 | 1/1   | 0.97 | 0.23 | 35,35,35,35                 | 0     |
| 84  | OHX  | A     | 1979 | 7/7   | 0.97 | 0.17 | 154,155,156,157             | 0     |
| 85  | MG   | AR    | 3866 | 1/1   | 0.97 | 0.45 | 30,30,30,30                 | 0     |
| 84  | OHX  | AR    | 3562 | 7/7   | 0.97 | 0.16 | 120,121,121,121             | 0     |
| 85  | MG   | AR    | 4139 | 1/1   | 0.97 | 0.13 | 51,51,51,51                 | 0     |
| 84  | OHX  | 1     | 3498 | 7/7   | 0.97 | 0.12 | 127,128,129,129             | 0     |
| 84  | OHX  | A     | 1982 | 7/7   | 0.97 | 0.28 | 135,136,136,137             | 0     |
| 85  | MG   | AR    | 3872 | 1/1   | 0.97 | 0.42 | 29,29,29,29                 | 0     |
| 85  | MG   | A     | 2145 | 1/1   | 0.97 | 0.27 | 89,89,89,89                 | 0     |
| 84  | OHX  | A     | 1983 | 7/7   | 0.97 | 0.17 | 161,162,163,163             | 0     |
| 85  | MG   | AR    | 3874 | 1/1   | 0.97 | 0.43 | 34,34,34,34                 | 0     |
| 84  | OHX  | 1     | 3546 | 7/7   | 0.97 | 0.13 | 145,145,146,146             | 0     |
| 84  | OHX  | A     | 1986 | 7/7   | 0.97 | 0.28 | 169,171,172,173             | 0     |
| 85  | MG   | AR    | 3877 | 1/1   | 0.97 | 0.75 | 36,36,36,36                 | 0     |
| 84  | OHX  | A     | 1988 | 7/7   | 0.97 | 0.18 | 132,133,133,134             | 0     |
| 84  | OHX  | 1     | 3451 | 7/7   | 0.97 | 0.17 | 101,101,102,102             | 0     |
| 85  | MG   | AR    | 3880 | 1/1   | 0.97 | 0.44 | 27,27,27,27                 | 0     |
| 85  | MG   | AR    | 3881 | 1/1   | 0.97 | 0.67 | 28,28,28,28                 | 0     |
| 84  | OHX  | 1     | 3610 | 7/7   | 0.97 | 0.20 | 136,137,137,137             | 0     |
| 84  | OHX  | A     | 1994 | 7/7   | 0.97 | 0.17 | 158,159,160,160             | 0     |
| 84  | OHX  | 1     | 3472 | 7/7   | 0.97 | 0.18 | 97,98,98,98                 | 0     |
| 84  | OHX  | 1     | 3550 | 7/7   | 0.97 | 0.17 | 134,134,135,135             | 0     |
| 84  | OHX  | AR    | 3572 | 7/7   | 0.97 | 0.17 | 130,130,131,131             | 0     |
| 84  | OHX  | 1     | 3503 | 7/7   | 0.97 | 0.17 | 109,110,110,110             | 0     |
| 84  | OHX  | AR    | 3574 | 7/7   | 0.97 | 0.20 | 114,115,115,116             | 0     |
| 84  | OHX  | AR    | 3575 | 7/7   | 0.97 | 0.17 | 161,161,161,161             | 0     |
| 84  | OHX  | 1     | 3473 | 7/7   | 0.97 | 0.18 | 99,99,99,100                | 0     |
| 84  | OHX  | 1     | 3507 | 7/7   | 0.97 | 0.26 | 118,118,118,119             | 0     |
| 85  | MG   | AR    | 3892 | 1/1   | 0.97 | 0.41 | 36,36,36,36                 | 0     |
| 85  | MG   | sR    | 2061 | 1/1   | 0.97 | 0.32 | 84,84,84,84                 | 0     |
| 84  | OHX  | AR    | 3578 | 7/7   | 0.97 | 0.20 | 132,133,133,134             | 0     |
| 85  | MG   | 1     | 3739 | 1/1   | 0.97 | 0.45 | 31,31,31,31                 | 0     |
| 85  | MG   | 1     | 3740 | 1/1   | 0.97 | 0.49 | 27,27,27,27                 | 0     |
| 85  | MG   | sR    | 2065 | 1/1   | 0.97 | 0.55 | 42,42,42,42                 | 0     |
| 84  | OHX  | AR    | 3579 | 7/7   | 0.97 | 0.16 | 134,134,135,135             | 0     |
| 85  | MG   | AR    | 3898 | 1/1   | 0.97 | 0.29 | 45,45,45,45                 | 0     |
| 84  | OHX  | 1     | 3508 | 7/7   | 0.97 | 0.13 | 116,116,117,117             | 0     |
| 84  | OHX  | 3     | 202  | 7/7   | 0.97 | 0.12 | 122,122,123,123             | 0     |
| 84  | OHX  | 1     | 3509 | 7/7   | 0.97 | 0.12 | 124,124,125,125             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3703 | 7/7   | 0.97 | 0.22 | 106,106,107,107            | 0     |
| 84  | OHX  | 1     | 3510 | 7/7   | 0.97 | 0.15 | 118,118,119,119            | 0     |
| 85  | MG   | sR    | 2073 | 1/1   | 0.97 | 0.61 | 58,58,58,58                | 0     |
| 85  | MG   | AR    | 4175 | 1/1   | 0.97 | 0.28 | 47,47,47,47                | 0     |
| 85  | MG   | 1     | 3748 | 1/1   | 0.97 | 0.34 | 39,39,39,39                | 0     |
| 84  | OHX  | 3     | 206  | 7/7   | 0.97 | 0.11 | 137,138,138,139            | 0     |
| 84  | OHX  | AR    | 3586 | 7/7   | 0.97 | 0.14 | 128,129,129,129            | 0     |
| 84  | OHX  | 1     | 3474 | 7/7   | 0.97 | 0.17 | 118,119,119,119            | 0     |
| 84  | OHX  | AR    | 3588 | 7/7   | 0.97 | 0.28 | 124,124,125,125            | 0     |
| 84  | OHX  | AR    | 3589 | 7/7   | 0.97 | 0.15 | 121,122,122,122            | 0     |
| 84  | OHX  | 1     | 3563 | 7/7   | 0.97 | 0.12 | 135,135,135,136            | 0     |
| 85  | MG   | AR    | 3913 | 1/1   | 0.97 | 0.71 | 36,36,36,36                | 0     |
| 85  | MG   | 1     | 3974 | 1/1   | 0.97 | 0.09 | 59,59,59,59                | 0     |
| 85  | MG   | AR    | 3915 | 1/1   | 0.97 | 0.38 | 28,28,28,28                | 0     |
| 85  | MG   | 1     | 3975 | 1/1   | 0.97 | 0.45 | 43,43,43,43                | 0     |
| 84  | OHX  | AR    | 3591 | 7/7   | 0.97 | 0.20 | 141,141,142,142            | 0     |
| 84  | OHX  | 4     | 206  | 7/7   | 0.97 | 0.13 | 129,129,129,129            | 0     |
| 85  | MG   | 1     | 4202 | 1/1   | 0.97 | 0.49 | 36,36,36,36                | 0     |
| 85  | MG   | AR    | 3922 | 1/1   | 0.97 | 0.59 | 41,41,41,41                | 0     |
| 85  | MG   | AR    | 3923 | 1/1   | 0.97 | 0.50 | 32,32,32,32                | 0     |
| 84  | OHX  | AR    | 3593 | 7/7   | 0.97 | 0.14 | 137,137,138,138            | 0     |
| 84  | OHX  | 4     | 207  | 7/7   | 0.97 | 0.17 | 130,131,131,132            | 0     |
| 84  | OHX  | 4     | 209  | 7/7   | 0.97 | 0.17 | 129,130,130,130            | 0     |
| 85  | MG   | 1     | 4206 | 1/1   | 0.97 | 0.60 | 25,25,25,25                | 0     |
| 85  | MG   | 1     | 3761 | 1/1   | 0.97 | 0.58 | 44,44,44,44                | 0     |
| 85  | MG   | sR    | 2098 | 1/1   | 0.97 | 0.49 | 62,62,62,62                | 0     |
| 84  | OHX  | 4     | 210  | 7/7   | 0.97 | 0.20 | 123,123,123,123            | 0     |
| 84  | OHX  | 1     | 3476 | 7/7   | 0.97 | 0.15 | 107,107,108,108            | 0     |
| 84  | OHX  | 4     | 212  | 7/7   | 0.97 | 0.21 | 144,144,145,145            | 0     |
| 84  | OHX  | 1     | 3565 | 7/7   | 0.97 | 0.24 | 155,155,155,156            | 0     |
| 85  | MG   | 1     | 4213 | 1/1   | 0.97 | 0.08 | 72,72,72,72                | 0     |
| 84  | OHX  | 1     | 3566 | 7/7   | 0.97 | 0.17 | 143,143,143,143            | 0     |
| 85  | MG   | 1     | 3767 | 1/1   | 0.97 | 0.28 | 39,39,39,39                | 0     |
| 85  | MG   | sR    | 2106 | 1/1   | 0.97 | 0.29 | 41,41,41,41                | 0     |
| 84  | OHX  | 1     | 3624 | 7/7   | 0.97 | 0.18 | 103,103,103,103            | 0     |
| 85  | MG   | 1     | 3769 | 1/1   | 0.97 | 0.31 | 50,50,50,50                | 0     |
| 85  | MG   | sR    | 2109 | 1/1   | 0.97 | 0.53 | 48,48,48,48                | 0     |
| 84  | OHX  | k     | 401  | 7/7   | 0.97 | 0.18 | 123,123,124,124            | 0     |
| 85  | MG   | sR    | 2111 | 1/1   | 0.97 | 0.52 | 43,43,43,43                | 0     |
| 85  | MG   | AR    | 3948 | 1/1   | 0.97 | 0.50 | 37,37,37,37                | 0     |
| 84  | OHX  | 1     | 3567 | 7/7   | 0.97 | 0.26 | 116,117,117,118            | 0     |
| 84  | OHX  | r     | 301  | 7/7   | 0.97 | 0.17 | 105,105,105,106            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | v     | 302  | 7/7   | 0.97 | 0.15 | 121,122,122,122            | 0     |
| 84  | OHX  | 1     | 3441 | 7/7   | 0.97 | 0.17 | 88,88,89,89                | 0     |
| 84  | OHX  | 1     | 3684 | 7/7   | 0.97 | 0.10 | 145,145,145,146            | 0     |
| 84  | OHX  | 1     | 3570 | 7/7   | 0.97 | 0.21 | 125,126,126,126            | 0     |
| 84  | OHX  | 1     | 3572 | 7/7   | 0.97 | 0.21 | 104,105,105,105            | 0     |
| 84  | OHX  | AG    | 201  | 7/7   | 0.97 | 0.21 | 127,127,128,128            | 0     |
| 84  | OHX  | 1     | 3573 | 7/7   | 0.97 | 0.19 | 144,144,145,145            | 0     |
| 84  | OHX  | 1     | 3688 | 7/7   | 0.97 | 0.23 | 122,122,123,123            | 0     |
| 84  | OHX  | AR    | 3429 | 7/7   | 0.97 | 0.21 | 81,81,81,81                | 0     |
| 84  | OHX  | AR    | 3443 | 7/7   | 0.97 | 0.14 | 105,105,106,106            | 0     |
| 84  | OHX  | AR    | 3444 | 7/7   | 0.97 | 0.16 | 91,91,92,92                | 0     |
| 85  | MG   | 4     | 219  | 1/1   | 0.97 | 0.37 | 43,43,43,43                | 0     |
| 84  | OHX  | AR    | 3445 | 7/7   | 0.97 | 0.16 | 106,106,107,107            | 0     |
| 84  | OHX  | AR    | 3447 | 7/7   | 0.97 | 0.16 | 87,87,88,88                | 0     |
| 84  | OHX  | J     | 301  | 7/7   | 0.97 | 0.27 | 177,178,179,179            | 0     |
| 85  | MG   | AR    | 3967 | 1/1   | 0.97 | 0.34 | 38,38,38,38                | 0     |
| 84  | OHX  | M     | 201  | 7/7   | 0.97 | 0.30 | 145,146,147,147            | 0     |
| 85  | MG   | 4     | 224  | 1/1   | 0.97 | 0.24 | 44,44,44,44                | 0     |
| 85  | MG   | 1     | 4009 | 1/1   | 0.97 | 0.18 | 64,64,64,64                | 0     |
| 84  | OHX  | AR    | 3453 | 7/7   | 0.97 | 0.18 | 86,87,87,87                | 0     |
| 84  | OHX  | 1     | 3518 | 7/7   | 0.97 | 0.16 | 109,110,110,111            | 0     |
| 84  | OHX  | 1     | 3575 | 7/7   | 0.97 | 0.19 | 134,135,135,135            | 0     |
| 84  | OHX  | AR    | 3463 | 7/7   | 0.97 | 0.18 | 85,86,86,86                | 0     |
| 85  | MG   | AR    | 3975 | 1/1   | 0.97 | 0.33 | 31,31,31,31                | 0     |
| 84  | OHX  | sR    | 1905 | 7/7   | 0.97 | 0.25 | 96,97,97,97                | 0     |
| 84  | OHX  | sR    | 1911 | 7/7   | 0.97 | 0.21 | 98,98,98,99                | 0     |
| 84  | OHX  | AR    | 3466 | 7/7   | 0.97 | 0.16 | 97,98,98,98                | 0     |
| 84  | OHX  | AR    | 3469 | 7/7   | 0.97 | 0.14 | 101,102,102,103            | 0     |
| 85  | MG   | AR    | 4249 | 1/1   | 0.97 | 0.18 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 4250 | 1/1   | 0.97 | 0.43 | 28,28,28,28                | 0     |
| 84  | OHX  | 1     | 3632 | 7/7   | 0.97 | 0.17 | 172,173,173,174            | 0     |
| 85  | MG   | AS    | 212  | 1/1   | 0.97 | 0.40 | 40,40,40,40                | 0     |
| 84  | OHX  | 1     | 3458 | 7/7   | 0.97 | 0.19 | 83,83,83,83                | 0     |
| 84  | OHX  | 1     | 3578 | 7/7   | 0.97 | 0.19 | 129,130,130,131            | 0     |
| 84  | OHX  | sR    | 1938 | 7/7   | 0.97 | 0.12 | 121,121,122,122            | 0     |
| 84  | OHX  | sR    | 1939 | 7/7   | 0.97 | 0.11 | 130,131,131,132            | 0     |
| 84  | OHX  | AS    | 203  | 7/7   | 0.97 | 0.18 | 114,115,115,115            | 0     |
| 85  | MG   | 1     | 3804 | 1/1   | 0.97 | 0.26 | 21,21,21,21                | 0     |
| 84  | OHX  | sR    | 1941 | 7/7   | 0.97 | 0.17 | 110,111,111,112            | 0     |
| 84  | OHX  | AS    | 204  | 7/7   | 0.97 | 0.13 | 109,110,110,110            | 0     |
| 84  | OHX  | sR    | 1946 | 7/7   | 0.97 | 0.10 | 135,136,137,137            | 0     |
| 85  | MG   | AR    | 3990 | 1/1   | 0.97 | 0.73 | 48,48,48,48                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | sR    | 1947 | 7/7   | 0.97 | 0.12 | 124,124,125,125             | 0     |
| 85  | MG   | r     | 302  | 1/1   | 0.97 | 0.26 | 35,35,35,35                 | 0     |
| 85  | MG   | AS    | 226  | 1/1   | 0.97 | 0.35 | 50,50,50,50                 | 0     |
| 84  | OHX  | AS    | 206  | 7/7   | 0.97 | 0.12 | 114,114,115,115             | 0     |
| 85  | MG   | t     | 201  | 1/1   | 0.97 | 0.14 | 44,44,44,44                 | 0     |
| 84  | OHX  | AR    | 3480 | 7/7   | 0.97 | 0.17 | 103,104,104,104             | 0     |
| 84  | OHX  | AR    | 3631 | 7/7   | 0.97 | 0.26 | 164,164,164,164             | 0     |
| 85  | MG   | AR    | 3997 | 1/1   | 0.97 | 0.34 | 37,37,37,37                 | 0     |
| 84  | OHX  | AR    | 3482 | 7/7   | 0.97 | 0.18 | 102,102,102,102             | 0     |
| 84  | OHX  | AR    | 3484 | 7/7   | 0.97 | 0.16 | 105,105,106,106             | 0     |
| 85  | MG   | 1     | 4035 | 1/1   | 0.97 | 0.08 | 91,91,91,91                 | 0     |
| 84  | OHX  | sR    | 1957 | 7/7   | 0.97 | 0.13 | 125,126,126,127             | 0     |
| 85  | MG   | AR    | 4002 | 1/1   | 0.97 | 0.35 | 27,27,27,27                 | 0     |
| 85  | MG   | 1     | 4037 | 1/1   | 0.97 | 0.28 | 55,55,55,55                 | 0     |
| 85  | MG   | sR    | 2175 | 1/1   | 0.97 | 0.25 | 36,36,36,36                 | 0     |
| 84  | OHX  | sR    | 1959 | 7/7   | 0.97 | 0.14 | 141,142,143,143             | 0     |
| 85  | MG   | sR    | 2178 | 1/1   | 0.97 | 0.17 | 78,78,78,78                 | 0     |
| 84  | OHX  | AR    | 3488 | 7/7   | 0.97 | 0.20 | 100,100,101,101             | 0     |
| 85  | MG   | 1     | 3817 | 1/1   | 0.97 | 0.28 | 39,39,39,39                 | 0     |
| 85  | MG   | 1     | 3818 | 1/1   | 0.97 | 0.49 | 44,44,44,44                 | 0     |
| 85  | MG   | 1     | 3819 | 1/1   | 0.97 | 0.28 | 35,35,35,35                 | 0     |
| 84  | OHX  | AT    | 202  | 7/7   | 0.97 | 0.14 | 134,134,134,134             | 0     |
| 84  | OHX  | sR    | 1963 | 7/7   | 0.97 | 0.12 | 126,126,127,127             | 0     |
| 84  | OHX  | sR    | 1964 | 7/7   | 0.97 | 0.12 | 137,137,138,138             | 0     |
| 84  | OHX  | sR    | 1965 | 7/7   | 0.97 | 0.21 | 124,125,125,125             | 0     |
| 85  | MG   | 1     | 4048 | 1/1   | 0.97 | 0.58 | 37,37,37,37                 | 0     |
| 84  | OHX  | AT    | 204  | 7/7   | 0.97 | 0.13 | 116,116,116,116             | 0     |
| 84  | OHX  | AR    | 3490 | 7/7   | 0.97 | 0.16 | 95,95,96,96                 | 0     |
| 85  | MG   | AR    | 4016 | 1/1   | 0.97 | 0.29 | 28,28,28,28                 | 0     |
| 85  | MG   | 1     | 3826 | 1/1   | 0.97 | 0.22 | 38,38,38,38                 | 0     |
| 84  | OHX  | AR    | 3636 | 7/7   | 0.97 | 0.14 | 127,127,128,128             | 0     |
| 84  | OHX  | AR    | 3492 | 7/7   | 0.97 | 0.12 | 127,128,128,129             | 0     |
| 84  | OHX  | sR    | 1972 | 7/7   | 0.97 | 0.33 | 168,169,170,170             | 0     |
| 84  | OHX  | AT    | 208  | 7/7   | 0.97 | 0.14 | 138,138,139,139             | 0     |
| 84  | OHX  | sR    | 1974 | 7/7   | 0.97 | 0.14 | 129,129,130,130             | 0     |
| 84  | OHX  | AR    | 3498 | 7/7   | 0.97 | 0.13 | 146,147,147,147             | 0     |
| 85  | MG   | 1     | 3833 | 1/1   | 0.97 | 0.44 | 23,23,23,23                 | 0     |
| 84  | OHX  | 1     | 3579 | 7/7   | 0.97 | 0.19 | 115,115,116,116             | 0     |
| 84  | OHX  | AR    | 3500 | 7/7   | 0.97 | 0.24 | 108,109,109,109             | 0     |
| 84  | OHX  | 1     | 3520 | 7/7   | 0.97 | 0.18 | 113,113,114,114             | 0     |
| 85  | MG   | 1     | 3837 | 1/1   | 0.97 | 0.33 | 33,33,33,33                 | 0     |
| 84  | OHX  | 1     | 3484 | 7/7   | 0.97 | 0.12 | 113,113,114,114             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | sR    | 1980 | 7/7   | 0.97 | 0.31 | 161,162,163,163            | 0     |
| 84  | OHX  | 1     | 3522 | 7/7   | 0.97 | 0.13 | 128,129,130,130            | 0     |
| 85  | MG   | AR    | 3763 | 1/1   | 0.97 | 0.17 | 25,25,25,25                | 0     |
| 84  | OHX  | AR    | 3512 | 7/7   | 0.97 | 0.11 | 133,134,134,134            | 0     |
| 84  | OHX  | sR    | 1983 | 7/7   | 0.97 | 0.20 | 155,155,156,156            | 0     |
| 84  | OHX  | AR    | 3516 | 7/7   | 0.97 | 0.28 | 114,115,115,115            | 0     |
| 85  | MG   | 1     | 3881 | 1/1   | 0.98 | 0.31 | 29,29,29,29                | 0     |
| 84  | OHX  | AR    | 3449 | 7/7   | 0.98 | 0.17 | 82,82,82,82                | 0     |
| 85  | MG   | r     | 303  | 1/1   | 0.98 | 0.12 | 43,43,43,43                | 0     |
| 84  | OHX  | AR    | 3450 | 7/7   | 0.98 | 0.17 | 92,93,93,93                | 0     |
| 84  | OHX  | AR    | 3451 | 7/7   | 0.98 | 0.13 | 103,103,104,104            | 0     |
| 85  | MG   | A     | 2091 | 1/1   | 0.98 | 0.69 | 56,56,56,56                | 0     |
| 85  | MG   | AR    | 3933 | 1/1   | 0.98 | 0.57 | 42,42,42,42                | 0     |
| 85  | MG   | AR    | 3934 | 1/1   | 0.98 | 0.49 | 38,38,38,38                | 0     |
| 85  | MG   | AR    | 4147 | 1/1   | 0.98 | 0.08 | 55,55,55,55                | 0     |
| 85  | MG   | AR    | 3935 | 1/1   | 0.98 | 0.60 | 35,35,35,35                | 0     |
| 85  | MG   | AR    | 3936 | 1/1   | 0.98 | 0.71 | 22,22,22,22                | 0     |
| 85  | MG   | AR    | 3937 | 1/1   | 0.98 | 0.38 | 25,25,25,25                | 0     |
| 85  | MG   | 1     | 4068 | 1/1   | 0.98 | 0.62 | 33,33,33,33                | 0     |
| 84  | OHX  | AR    | 3452 | 7/7   | 0.98 | 0.13 | 107,107,108,108            | 0     |
| 84  | OHX  | 1     | 3556 | 7/7   | 0.98 | 0.17 | 127,127,127,128            | 0     |
| 84  | OHX  | AR    | 3454 | 7/7   | 0.98 | 0.15 | 109,110,110,110            | 0     |
| 84  | OHX  | AR    | 3455 | 7/7   | 0.98 | 0.13 | 110,111,111,111            | 0     |
| 84  | OHX  | AR    | 3565 | 7/7   | 0.98 | 0.19 | 128,128,128,128            | 0     |
| 85  | MG   | 1     | 3890 | 1/1   | 0.98 | 0.43 | 27,27,27,27                | 0     |
| 84  | OHX  | AR    | 3566 | 7/7   | 0.98 | 0.09 | 156,156,157,157            | 0     |
| 85  | MG   | AR    | 3946 | 1/1   | 0.98 | 0.48 | 21,21,21,21                | 0     |
| 85  | MG   | A     | 2107 | 1/1   | 0.98 | 0.10 | 147,147,147,147            | 0     |
| 85  | MG   | 1     | 3892 | 1/1   | 0.98 | 0.68 | 34,34,34,34                | 0     |
| 85  | MG   | 1     | 3893 | 1/1   | 0.98 | 0.55 | 28,28,28,28                | 0     |
| 84  | OHX  | AR    | 3567 | 7/7   | 0.98 | 0.20 | 111,112,112,112            | 0     |
| 84  | OHX  | CE    | 401  | 7/7   | 0.98 | 0.12 | 110,110,111,111            | 0     |
| 84  | OHX  | AR    | 3457 | 7/7   | 0.98 | 0.16 | 100,101,101,101            | 0     |
| 85  | MG   | AR    | 3952 | 1/1   | 0.98 | 0.13 | 59,59,59,59                | 0     |
| 84  | OHX  | 1     | 3497 | 7/7   | 0.98 | 0.14 | 104,105,105,105            | 0     |
| 85  | MG   | 1     | 3898 | 1/1   | 0.98 | 0.39 | 29,29,29,29                | 0     |
| 84  | OHX  | 1     | 3558 | 7/7   | 0.98 | 0.19 | 127,127,128,128            | 0     |
| 85  | MG   | 1     | 3900 | 1/1   | 0.98 | 0.50 | 25,25,25,25                | 0     |
| 84  | OHX  | AR    | 3461 | 7/7   | 0.98 | 0.15 | 95,95,95,96                | 0     |
| 85  | MG   | 1     | 4086 | 1/1   | 0.98 | 0.08 | 40,40,40,40                | 0     |
| 84  | OHX  | AR    | 3462 | 7/7   | 0.98 | 0.21 | 83,83,83,84                | 0     |
| 85  | MG   | AR    | 3747 | 1/1   | 0.98 | 0.19 | 46,46,46,46                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 3903 | 1/1   | 0.98 | 0.38 | 29,29,29,29                 | 0     |
| 85  | MG   | A     | 2123 | 1/1   | 0.98 | 0.46 | 50,50,50,50                 | 0     |
| 85  | MG   | 1     | 4089 | 1/1   | 0.98 | 0.45 | 23,23,23,23                 | 0     |
| 84  | OHX  | 1     | 3559 | 7/7   | 0.98 | 0.13 | 156,156,157,157             | 0     |
| 84  | OHX  | 1     | 3525 | 7/7   | 0.98 | 0.16 | 112,112,113,113             | 0     |
| 85  | MG   | 1     | 3906 | 1/1   | 0.98 | 0.65 | 23,23,23,23                 | 0     |
| 84  | OHX  | AR    | 3467 | 7/7   | 0.98 | 0.15 | 84,84,84,84                 | 0     |
| 84  | OHX  | 1     | 3601 | 7/7   | 0.98 | 0.28 | 118,118,119,119             | 0     |
| 84  | OHX  | AR    | 3470 | 7/7   | 0.98 | 0.15 | 95,96,96,96                 | 0     |
| 84  | OHX  | AR    | 3472 | 7/7   | 0.98 | 0.13 | 102,103,103,103             | 0     |
| 84  | OHX  | CP    | 501  | 7/7   | 0.98 | 0.18 | 137,137,138,138             | 0     |
| 84  | OHX  | AR    | 3474 | 7/7   | 0.98 | 0.14 | 97,97,97,97                 | 0     |
| 85  | MG   | 1     | 3914 | 1/1   | 0.98 | 0.56 | 31,31,31,31                 | 0     |
| 85  | MG   | AR    | 3760 | 1/1   | 0.98 | 0.57 | 33,33,33,33                 | 0     |
| 84  | OHX  | AR    | 3475 | 7/7   | 0.98 | 0.15 | 90,91,91,91                 | 0     |
| 84  | OHX  | DH    | 201  | 7/7   | 0.98 | 0.15 | 119,119,120,120             | 0     |
| 84  | OHX  | 1     | 3561 | 7/7   | 0.98 | 0.15 | 116,116,116,116             | 0     |
| 84  | OHX  | DQ    | 201  | 7/7   | 0.98 | 0.14 | 107,107,107,108             | 0     |
| 84  | OHX  | A     | 1903 | 7/7   | 0.98 | 0.26 | 107,108,108,108             | 0     |
| 85  | MG   | AR    | 4195 | 1/1   | 0.98 | 0.12 | 81,81,81,81                 | 0     |
| 85  | MG   | 1     | 3920 | 1/1   | 0.98 | 0.38 | 25,25,25,25                 | 0     |
| 84  | OHX  | T     | 201  | 7/7   | 0.98 | 0.15 | 115,116,117,117             | 0     |
| 85  | MG   | 1     | 3922 | 1/1   | 0.98 | 0.46 | 34,34,34,34                 | 0     |
| 84  | OHX  | A     | 1906 | 7/7   | 0.98 | 0.17 | 102,103,104,104             | 0     |
| 84  | OHX  | 1     | 3644 | 7/7   | 0.98 | 0.22 | 144,145,145,145             | 0     |
| 84  | OHX  | 1     | 3475 | 7/7   | 0.98 | 0.14 | 105,105,106,106             | 0     |
| 84  | OHX  | sR    | 1907 | 7/7   | 0.98 | 0.24 | 98,99,99,100                | 0     |
| 84  | OHX  | sR    | 1909 | 7/7   | 0.98 | 0.18 | 102,103,103,104             | 0     |
| 84  | OHX  | AR    | 3584 | 7/7   | 0.98 | 0.14 | 109,109,110,110             | 0     |
| 85  | MG   | 1     | 3931 | 1/1   | 0.98 | 0.14 | 29,29,29,29                 | 0     |
| 84  | OHX  | sR    | 1913 | 7/7   | 0.98 | 0.17 | 97,98,98,98                 | 0     |
| 85  | MG   | 1     | 3752 | 1/1   | 0.98 | 0.50 | 36,36,36,36                 | 0     |
| 85  | MG   | 1     | 4119 | 1/1   | 0.98 | 0.10 | 69,69,69,69                 | 0     |
| 84  | OHX  | sR    | 1916 | 7/7   | 0.98 | 0.15 | 93,93,94,94                 | 0     |
| 84  | OHX  | sR    | 1918 | 7/7   | 0.98 | 0.14 | 93,94,94,94                 | 0     |
| 84  | OHX  | A     | 1912 | 7/7   | 0.98 | 0.13 | 105,105,106,106             | 0     |
| 84  | OHX  | sR    | 1920 | 7/7   | 0.98 | 0.14 | 114,115,116,116             | 0     |
| 84  | OHX  | A     | 1913 | 7/7   | 0.98 | 0.15 | 114,114,115,115             | 0     |
| 84  | OHX  | sR    | 1924 | 7/7   | 0.98 | 0.12 | 111,111,112,112             | 0     |
| 85  | MG   | AR    | 3787 | 1/1   | 0.98 | 0.55 | 31,31,31,31                 | 0     |
| 84  | OHX  | sR    | 1926 | 7/7   | 0.98 | 0.12 | 114,115,115,116             | 0     |
| 84  | OHX  | sR    | 1928 | 7/7   | 0.98 | 0.12 | 126,127,127,127             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | AR    | 3479 | 7/7   | 0.98 | 0.13 | 110,111,111,112             | 0     |
| 84  | OHX  | sR    | 1930 | 7/7   | 0.98 | 0.16 | 98,99,99,100                | 0     |
| 84  | OHX  | sR    | 1931 | 7/7   | 0.98 | 0.12 | 115,115,116,116             | 0     |
| 85  | MG   | AR    | 3793 | 1/1   | 0.98 | 0.48 | 53,53,53,53                 | 0     |
| 84  | OHX  | 1     | 3527 | 7/7   | 0.98 | 0.21 | 124,124,124,124             | 0     |
| 84  | OHX  | AR    | 3481 | 7/7   | 0.98 | 0.21 | 96,97,97,97                 | 0     |
| 84  | OHX  | sR    | 1934 | 7/7   | 0.98 | 0.12 | 123,123,124,124             | 0     |
| 84  | OHX  | sR    | 1936 | 7/7   | 0.98 | 0.16 | 101,101,101,102             | 0     |
| 84  | OHX  | sR    | 1937 | 7/7   | 0.98 | 0.13 | 110,110,111,111             | 0     |
| 85  | MG   | 1     | 4137 | 1/1   | 0.98 | 0.13 | 62,62,62,62                 | 0     |
| 84  | OHX  | A     | 1922 | 7/7   | 0.98 | 0.13 | 110,111,111,111             | 0     |
| 84  | OHX  | A     | 1923 | 7/7   | 0.98 | 0.14 | 115,116,116,116             | 0     |
| 84  | OHX  | A     | 1926 | 7/7   | 0.98 | 0.12 | 122,123,123,123             | 0     |
| 84  | OHX  | 1     | 3447 | 7/7   | 0.98 | 0.12 | 93,93,93,94                 | 0     |
| 84  | OHX  | sR    | 1942 | 7/7   | 0.98 | 0.13 | 130,131,131,132             | 0     |
| 85  | MG   | sR    | 2075 | 1/1   | 0.98 | 0.16 | 63,63,63,63                 | 0     |
| 84  | OHX  | AR    | 3483 | 7/7   | 0.98 | 0.14 | 102,102,102,102             | 0     |
| 84  | OHX  | sR    | 1944 | 7/7   | 0.98 | 0.09 | 145,146,147,147             | 0     |
| 84  | OHX  | A     | 1929 | 7/7   | 0.98 | 0.16 | 113,113,114,114             | 0     |
| 84  | OHX  | A     | 1930 | 7/7   | 0.98 | 0.14 | 120,121,121,121             | 0     |
| 84  | OHX  | sR    | 1948 | 7/7   | 0.98 | 0.13 | 118,119,119,120             | 0     |
| 85  | MG   | AR    | 4243 | 1/1   | 0.98 | 0.26 | 27,27,27,27                 | 0     |
| 84  | OHX  | sR    | 1949 | 7/7   | 0.98 | 0.12 | 144,145,146,146             | 0     |
| 84  | OHX  | 3     | 201  | 7/7   | 0.98 | 0.15 | 95,95,96,96                 | 0     |
| 85  | MG   | sR    | 2084 | 1/1   | 0.98 | 0.31 | 52,52,52,52                 | 0     |
| 84  | OHX  | sR    | 1951 | 7/7   | 0.98 | 0.13 | 137,138,139,139             | 0     |
| 85  | MG   | 1     | 3782 | 1/1   | 0.98 | 0.47 | 35,35,35,35                 | 0     |
| 85  | MG   | AR    | 4025 | 1/1   | 0.98 | 0.19 | 36,36,36,36                 | 0     |
| 84  | OHX  | AR    | 3485 | 7/7   | 0.98 | 0.14 | 98,98,98,98                 | 0     |
| 84  | OHX  | sR    | 1953 | 7/7   | 0.98 | 0.12 | 132,133,134,134             | 0     |
| 84  | OHX  | AR    | 3487 | 7/7   | 0.98 | 0.25 | 110,110,110,110             | 0     |
| 84  | OHX  | A     | 1934 | 7/7   | 0.98 | 0.13 | 138,139,140,140             | 0     |
| 85  | MG   | 1     | 4157 | 1/1   | 0.98 | 0.10 | 57,57,57,57                 | 0     |
| 85  | MG   | AS    | 215  | 1/1   | 0.98 | 0.57 | 77,77,77,77                 | 0     |
| 84  | OHX  | 1     | 3529 | 7/7   | 0.98 | 0.12 | 131,132,132,132             | 0     |
| 84  | OHX  | 1     | 3530 | 7/7   | 0.98 | 0.19 | 114,115,115,115             | 0     |
| 84  | OHX  | sR    | 1958 | 7/7   | 0.98 | 0.14 | 119,119,120,120             | 0     |
| 84  | OHX  | AR    | 3491 | 7/7   | 0.98 | 0.16 | 103,103,104,104             | 0     |
| 84  | OHX  | A     | 1938 | 7/7   | 0.98 | 0.15 | 121,122,122,123             | 0     |
| 85  | MG   | 1     | 3792 | 1/1   | 0.98 | 0.50 | 20,20,20,20                 | 0     |
| 84  | OHX  | AR    | 3596 | 7/7   | 0.98 | 0.14 | 109,110,110,110             | 0     |
| 84  | OHX  | sR    | 1962 | 7/7   | 0.98 | 0.20 | 148,148,149,149             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | 3     | 204  | 7/7   | 0.98 | 0.13 | 119,119,120,120            | 0     |
| 84  | OHX  | A     | 1941 | 7/7   | 0.98 | 0.15 | 146,146,147,147            | 0     |
| 84  | OHX  | A     | 1942 | 7/7   | 0.98 | 0.17 | 127,128,128,129            | 0     |
| 84  | OHX  | AR    | 3495 | 7/7   | 0.98 | 0.13 | 99,100,100,100             | 0     |
| 84  | OHX  | AR    | 3599 | 7/7   | 0.98 | 0.19 | 130,130,131,131            | 0     |
| 84  | OHX  | sR    | 1968 | 7/7   | 0.98 | 0.22 | 132,133,134,134            | 0     |
| 85  | MG   | AR    | 4045 | 1/1   | 0.98 | 0.23 | 74,74,74,74                | 0     |
| 84  | OHX  | AR    | 3496 | 7/7   | 0.98 | 0.14 | 106,107,107,107            | 0     |
| 84  | OHX  | sR    | 1970 | 7/7   | 0.98 | 0.15 | 135,135,136,136            | 0     |
| 84  | OHX  | AR    | 3497 | 7/7   | 0.98 | 0.20 | 104,104,105,105            | 0     |
| 84  | OHX  | 1     | 3531 | 7/7   | 0.98 | 0.11 | 124,125,126,126            | 0     |
| 84  | OHX  | 1     | 3501 | 7/7   | 0.98 | 0.14 | 106,107,107,108            | 0     |
| 84  | OHX  | A     | 1949 | 7/7   | 0.98 | 0.09 | 144,146,146,146            | 0     |
| 85  | MG   | AR    | 3839 | 1/1   | 0.98 | 0.54 | 45,45,45,45                | 0     |
| 84  | OHX  | 1     | 3569 | 7/7   | 0.98 | 0.28 | 122,122,123,123            | 0     |
| 84  | OHX  | AR    | 3501 | 7/7   | 0.98 | 0.09 | 133,134,134,135            | 0     |
| 84  | OHX  | 1     | 3477 | 7/7   | 0.98 | 0.14 | 103,103,104,104            | 0     |
| 84  | OHX  | AR    | 3504 | 7/7   | 0.98 | 0.19 | 106,106,106,107            | 0     |
| 84  | OHX  | AR    | 3505 | 7/7   | 0.98 | 0.14 | 121,121,121,122            | 0     |
| 84  | OHX  | A     | 1957 | 7/7   | 0.98 | 0.21 | 139,140,140,141            | 0     |
| 84  | OHX  | AR    | 3506 | 7/7   | 0.98 | 0.26 | 117,118,118,118            | 0     |
| 85  | MG   | 1     | 3995 | 1/1   | 0.98 | 0.12 | 29,29,29,29                | 0     |
| 84  | OHX  | AR    | 3507 | 7/7   | 0.98 | 0.18 | 90,90,91,91                | 0     |
| 84  | OHX  | 4     | 201  | 7/7   | 0.98 | 0.28 | 79,80,80,80                | 0     |
| 84  | OHX  | A     | 1961 | 7/7   | 0.98 | 0.11 | 154,155,156,157            | 0     |
| 84  | OHX  | A     | 1962 | 7/7   | 0.98 | 0.15 | 133,134,135,135            | 0     |
| 85  | MG   | AR    | 4066 | 1/1   | 0.98 | 0.20 | 71,71,71,71                | 0     |
| 84  | OHX  | AR    | 3509 | 7/7   | 0.98 | 0.16 | 97,97,97,97                | 0     |
| 84  | OHX  | AR    | 3510 | 7/7   | 0.98 | 0.14 | 117,118,118,118            | 0     |
| 84  | OHX  | 4     | 204  | 7/7   | 0.98 | 0.14 | 103,103,103,104            | 0     |
| 84  | OHX  | 4     | 205  | 7/7   | 0.98 | 0.13 | 111,111,111,111            | 0     |
| 84  | OHX  | AR    | 3514 | 7/7   | 0.98 | 0.11 | 110,110,110,111            | 0     |
| 84  | OHX  | AR    | 3515 | 7/7   | 0.98 | 0.12 | 116,116,116,117            | 0     |
| 84  | OHX  | 1     | 3571 | 7/7   | 0.98 | 0.09 | 155,155,155,155            | 0     |
| 84  | OHX  | 1     | 3480 | 7/7   | 0.98 | 0.15 | 95,96,96,96                | 0     |
| 85  | MG   | CR    | 201  | 1/1   | 0.98 | 0.60 | 35,35,35,35                | 0     |
| 84  | OHX  | 4     | 208  | 7/7   | 0.98 | 0.23 | 126,126,126,126            | 0     |
| 85  | MG   | AR    | 3861 | 1/1   | 0.98 | 0.53 | 30,30,30,30                | 0     |
| 84  | OHX  | A     | 1972 | 7/7   | 0.98 | 0.12 | 163,164,165,165            | 0     |
| 84  | OHX  | 1     | 3459 | 7/7   | 0.98 | 0.16 | 93,94,94,94                | 0     |
| 85  | MG   | AR    | 3864 | 1/1   | 0.98 | 0.61 | 27,27,27,27                | 0     |
| 84  | OHX  | sR    | 1997 | 7/7   | 0.98 | 0.19 | 151,152,153,153            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3520 | 7/7   | 0.98 | 0.15 | 112,112,113,113            | 0     |
| 84  | OHX  | AR    | 3521 | 7/7   | 0.98 | 0.14 | 112,112,113,113            | 0     |
| 84  | OHX  | 1     | 3536 | 7/7   | 0.98 | 0.16 | 100,100,101,101            | 0     |
| 85  | MG   | AR    | 3870 | 1/1   | 0.98 | 0.35 | 35,35,35,35                | 0     |
| 84  | OHX  | 1     | 3505 | 7/7   | 0.98 | 0.14 | 108,108,109,109            | 0     |
| 84  | OHX  | 1     | 3506 | 7/7   | 0.98 | 0.14 | 120,120,121,121            | 0     |
| 84  | OHX  | AR    | 3525 | 7/7   | 0.98 | 0.20 | 119,120,120,120            | 0     |
| 84  | OHX  | sR    | 2004 | 7/7   | 0.98 | 0.14 | 124,125,126,126            | 0     |
| 84  | OHX  | 1     | 3577 | 7/7   | 0.98 | 0.14 | 146,147,147,148            | 0     |
| 85  | MG   | DC    | 206  | 1/1   | 0.98 | 0.15 | 38,38,38,38                | 0     |
| 84  | OHX  | AR    | 3527 | 7/7   | 0.98 | 0.11 | 120,121,121,122            | 0     |
| 84  | OHX  | 1     | 3461 | 7/7   | 0.98 | 0.16 | 103,103,104,104            | 0     |
| 84  | OHX  | 1     | 3483 | 7/7   | 0.98 | 0.20 | 117,118,118,119            | 0     |
| 84  | OHX  | A     | 1984 | 7/7   | 0.98 | 0.13 | 130,131,131,132            | 0     |
| 84  | OHX  | 1     | 3462 | 7/7   | 0.98 | 0.13 | 92,92,93,93                | 0     |
| 84  | OHX  | 1     | 3581 | 7/7   | 0.98 | 0.30 | 120,120,121,121            | 0     |
| 84  | OHX  | A     | 1987 | 7/7   | 0.98 | 0.16 | 146,146,147,147            | 0     |
| 85  | MG   | 3     | 212  | 1/1   | 0.98 | 0.42 | 47,47,47,47                | 0     |
| 84  | OHX  | 1     | 3448 | 7/7   | 0.98 | 0.14 | 89,89,90,90                | 0     |
| 85  | MG   | 1     | 3847 | 1/1   | 0.98 | 0.55 | 38,38,38,38                | 0     |
| 85  | MG   | sR    | 2166 | 1/1   | 0.98 | 0.09 | 59,59,59,59                | 0     |
| 84  | OHX  | A     | 1989 | 7/7   | 0.98 | 0.27 | 183,183,184,184            | 0     |
| 85  | MG   | 1     | 3849 | 1/1   | 0.98 | 0.40 | 27,27,27,27                | 0     |
| 85  | MG   | 1     | 4031 | 1/1   | 0.98 | 0.19 | 33,33,33,33                | 0     |
| 84  | OHX  | A     | 1990 | 7/7   | 0.98 | 0.21 | 150,151,152,152            | 0     |
| 85  | MG   | sR    | 2171 | 1/1   | 0.98 | 0.15 | 101,101,101,101            | 0     |
| 84  | OHX  | AR    | 3534 | 7/7   | 0.98 | 0.13 | 104,104,105,105            | 0     |
| 85  | MG   | A     | 2050 | 1/1   | 0.98 | 0.45 | 66,66,66,66                | 0     |
| 84  | OHX  | A     | 1992 | 7/7   | 0.98 | 0.19 | 142,143,143,144            | 0     |
| 85  | MG   | 1     | 3854 | 1/1   | 0.98 | 0.60 | 29,29,29,29                | 0     |
| 84  | OHX  | 1     | 3436 | 7/7   | 0.98 | 0.18 | 87,88,88,88                | 0     |
| 84  | OHX  | 1     | 3487 | 7/7   | 0.98 | 0.14 | 90,91,91,92                | 0     |
| 85  | MG   | AR    | 3895 | 1/1   | 0.98 | 0.31 | 25,25,25,25                | 0     |
| 84  | OHX  | 1     | 3513 | 7/7   | 0.98 | 0.19 | 104,105,105,105            | 0     |
| 84  | OHX  | 1     | 3514 | 7/7   | 0.98 | 0.12 | 116,117,117,117            | 0     |
| 85  | MG   | sR    | 2182 | 1/1   | 0.98 | 0.20 | 60,60,60,60                | 0     |
| 84  | OHX  | 1     | 3467 | 7/7   | 0.98 | 0.15 | 102,102,103,103            | 0     |
| 84  | OHX  | 1     | 3548 | 7/7   | 0.98 | 0.09 | 124,125,126,126            | 0     |
| 85  | MG   | AR    | 3900 | 1/1   | 0.98 | 0.42 | 35,35,35,35                | 0     |
| 85  | MG   | 1     | 4042 | 1/1   | 0.98 | 0.08 | 57,57,57,57                | 0     |
| 84  | OHX  | 1     | 3516 | 7/7   | 0.98 | 0.12 | 102,102,102,102            | 0     |
| 84  | OHX  | AK    | 103  | 7/7   | 0.98 | 0.14 | 100,100,101,101            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | 1     | 3426 | 7/7   | 0.98 | 0.19 | 79,79,80,80                 | 0     |
| 84  | OHX  | AS    | 202  | 7/7   | 0.98 | 0.17 | 91,92,93,93                 | 0     |
| 84  | OHX  | AR    | 3413 | 7/7   | 0.98 | 0.25 | 77,78,78,78                 | 0     |
| 84  | OHX  | AR    | 3545 | 7/7   | 0.98 | 0.21 | 104,105,105,105             | 0     |
| 84  | OHX  | AS    | 205  | 7/7   | 0.98 | 0.11 | 112,113,113,113             | 0     |
| 84  | OHX  | 1     | 3551 | 7/7   | 0.98 | 0.15 | 122,123,123,123             | 0     |
| 84  | OHX  | AR    | 3432 | 7/7   | 0.98 | 0.17 | 79,80,80,80                 | 0     |
| 84  | OHX  | A     | 2008 | 7/7   | 0.98 | 0.16 | 132,133,133,133             | 0     |
| 84  | OHX  | AR    | 3434 | 7/7   | 0.98 | 0.20 | 85,85,85,85                 | 0     |
| 84  | OHX  | AR    | 3435 | 7/7   | 0.98 | 0.17 | 90,90,91,91                 | 0     |
| 84  | OHX  | AR    | 3440 | 7/7   | 0.98 | 0.17 | 79,79,79,79                 | 0     |
| 84  | OHX  | 1     | 3452 | 7/7   | 0.98 | 0.16 | 99,99,99,100                | 0     |
| 85  | MG   | AR    | 3917 | 1/1   | 0.98 | 0.62 | 34,34,34,34                 | 0     |
| 84  | OHX  | 1     | 3453 | 7/7   | 0.98 | 0.13 | 101,102,102,102             | 0     |
| 85  | MG   | A     | 2078 | 1/1   | 0.98 | 0.53 | 43,43,43,43                 | 0     |
| 85  | MG   | AR    | 3919 | 1/1   | 0.98 | 0.47 | 34,34,34,34                 | 0     |
| 84  | OHX  | 1     | 3417 | 7/7   | 0.98 | 0.23 | 85,85,86,86                 | 0     |
| 84  | OHX  | AR    | 3446 | 7/7   | 0.98 | 0.16 | 88,88,88,88                 | 0     |
| 87  | ZN   | AQ    | 501  | 1/1   | 0.98 | 0.11 | 60,60,60,60                 | 0     |
| 87  | ZN   | DQ    | 202  | 1/1   | 0.98 | 0.04 | 82,82,82,82                 | 0     |
| 84  | OHX  | AR    | 3555 | 7/7   | 0.98 | 0.14 | 116,116,117,117             | 0     |
| 84  | OHX  | AR    | 3556 | 7/7   | 0.98 | 0.11 | 142,142,143,143             | 0     |
| 84  | OHX  | 1     | 3456 | 7/7   | 0.98 | 0.14 | 96,97,97,97                 | 0     |
| 85  | MG   | AR    | 3925 | 1/1   | 0.98 | 0.53 | 32,32,32,32                 | 0     |
| 85  | MG   | A     | 2141 | 1/1   | 0.99 | 0.28 | 78,78,78,78                 | 0     |
| 85  | MG   | 1     | 4118 | 1/1   | 0.99 | 0.16 | 100,100,100,100             | 0     |
| 84  | OHX  | 1     | 3445 | 7/7   | 0.99 | 0.17 | 85,85,85,85                 | 0     |
| 84  | OHX  | AR    | 3430 | 7/7   | 0.99 | 0.15 | 84,84,85,85                 | 0     |
| 85  | MG   | 1     | 4121 | 1/1   | 0.99 | 0.18 | 66,66,66,66                 | 0     |
| 84  | OHX  | AR    | 3431 | 7/7   | 0.99 | 0.17 | 81,81,82,82                 | 0     |
| 84  | OHX  | 1     | 3406 | 7/7   | 0.99 | 0.26 | 79,79,79,79                 | 0     |
| 84  | OHX  | AR    | 3433 | 7/7   | 0.99 | 0.19 | 80,80,80,80                 | 0     |
| 84  | OHX  | 1     | 3407 | 7/7   | 0.99 | 0.23 | 78,78,78,78                 | 0     |
| 84  | OHX  | 1     | 3408 | 7/7   | 0.99 | 0.27 | 83,83,83,83                 | 0     |
| 84  | OHX  | AR    | 3436 | 7/7   | 0.99 | 0.15 | 80,81,81,81                 | 0     |
| 84  | OHX  | AR    | 3437 | 7/7   | 0.99 | 0.14 | 83,83,83,84                 | 0     |
| 84  | OHX  | AR    | 3438 | 7/7   | 0.99 | 0.14 | 84,84,85,85                 | 0     |
| 84  | OHX  | AR    | 3439 | 7/7   | 0.99 | 0.17 | 79,79,79,79                 | 0     |
| 84  | OHX  | 1     | 3500 | 7/7   | 0.99 | 0.13 | 81,82,82,82                 | 0     |
| 84  | OHX  | AR    | 3441 | 7/7   | 0.99 | 0.16 | 87,87,87,88                 | 0     |
| 84  | OHX  | AR    | 3442 | 7/7   | 0.99 | 0.12 | 95,96,96,97                 | 0     |
| 84  | OHX  | 1     | 3409 | 7/7   | 0.99 | 0.25 | 85,86,86,86                 | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 84  | OHX  | 1     | 3450 | 7/7   | 0.99 | 0.14 | 97,98,99,99                 | 0     |
| 84  | OHX  | 1     | 3410 | 7/7   | 0.99 | 0.24 | 82,83,83,83                 | 0     |
| 84  | OHX  | 1     | 3412 | 7/7   | 0.99 | 0.24 | 83,83,84,84                 | 0     |
| 84  | OHX  | 1     | 3413 | 7/7   | 0.99 | 0.24 | 82,83,83,83                 | 0     |
| 85  | MG   | AR    | 3928 | 1/1   | 0.99 | 0.67 | 42,42,42,42                 | 0     |
| 85  | MG   | AR    | 3929 | 1/1   | 0.99 | 0.49 | 31,31,31,31                 | 0     |
| 84  | OHX  | AR    | 3448 | 7/7   | 0.99 | 0.16 | 86,86,86,87                 | 0     |
| 84  | OHX  | 1     | 3454 | 7/7   | 0.99 | 0.13 | 90,91,91,91                 | 0     |
| 84  | OHX  | 1     | 3414 | 7/7   | 0.99 | 0.20 | 80,81,81,81                 | 0     |
| 84  | OHX  | 1     | 3415 | 7/7   | 0.99 | 0.24 | 90,90,91,91                 | 0     |
| 84  | OHX  | 1     | 3457 | 7/7   | 0.99 | 0.14 | 94,95,95,95                 | 0     |
| 84  | OHX  | 1     | 3416 | 7/7   | 0.99 | 0.18 | 80,80,80,80                 | 0     |
| 85  | MG   | AR    | 3770 | 1/1   | 0.99 | 0.29 | 55,55,55,55                 | 0     |
| 84  | OHX  | 1     | 3401 | 7/7   | 0.99 | 0.30 | 84,84,84,85                 | 0     |
| 84  | OHX  | 1     | 3460 | 7/7   | 0.99 | 0.13 | 82,82,83,83                 | 0     |
| 85  | MG   | AR    | 3773 | 1/1   | 0.99 | 0.59 | 43,43,43,43                 | 0     |
| 84  | OHX  | AR    | 3456 | 7/7   | 0.99 | 0.15 | 83,83,83,83                 | 0     |
| 84  | OHX  | 1     | 3418 | 7/7   | 0.99 | 0.21 | 84,84,84,84                 | 0     |
| 84  | OHX  | CV    | 201  | 7/7   | 0.99 | 0.26 | 85,85,85,85                 | 0     |
| 84  | OHX  | CX    | 201  | 7/7   | 0.99 | 0.15 | 93,94,94,94                 | 0     |
| 84  | OHX  | 1     | 3419 | 7/7   | 0.99 | 0.20 | 79,79,79,79                 | 0     |
| 85  | MG   | 1     | 3842 | 1/1   | 0.99 | 0.44 | 27,27,27,27                 | 0     |
| 84  | OHX  | DD    | 102  | 7/7   | 0.99 | 0.23 | 82,82,83,83                 | 0     |
| 84  | OHX  | 1     | 3420 | 7/7   | 0.99 | 0.21 | 86,86,86,87                 | 0     |
| 84  | OHX  | AR    | 3460 | 7/7   | 0.99 | 0.12 | 90,91,91,91                 | 0     |
| 85  | MG   | 1     | 4156 | 1/1   | 0.99 | 0.12 | 83,83,83,83                 | 0     |
| 84  | OHX  | 1     | 3422 | 7/7   | 0.99 | 0.20 | 85,86,86,86                 | 0     |
| 84  | OHX  | A     | 1901 | 7/7   | 0.99 | 0.21 | 92,93,93,93                 | 0     |
| 84  | OHX  | A     | 1902 | 7/7   | 0.99 | 0.18 | 88,89,89,89                 | 0     |
| 84  | OHX  | 1     | 3517 | 7/7   | 0.99 | 0.11 | 117,117,118,118             | 0     |
| 84  | OHX  | A     | 1904 | 7/7   | 0.99 | 0.17 | 97,97,97,97                 | 0     |
| 85  | MG   | 1     | 3851 | 1/1   | 0.99 | 0.17 | 38,38,38,38                 | 0     |
| 84  | OHX  | A     | 1905 | 7/7   | 0.99 | 0.18 | 93,94,94,94                 | 0     |
| 84  | OHX  | 1     | 3465 | 7/7   | 0.99 | 0.14 | 93,93,94,94                 | 0     |
| 84  | OHX  | A     | 1907 | 7/7   | 0.99 | 0.15 | 99,100,100,101              | 0     |
| 84  | OHX  | A     | 1908 | 7/7   | 0.99 | 0.17 | 103,104,105,105             | 0     |
| 84  | OHX  | AR    | 3464 | 7/7   | 0.99 | 0.11 | 98,98,98,99                 | 0     |
| 85  | MG   | 1     | 4169 | 1/1   | 0.99 | 0.16 | 39,39,39,39                 | 0     |
| 84  | OHX  | AR    | 3465 | 7/7   | 0.99 | 0.11 | 102,103,103,103             | 0     |
| 84  | OHX  | 1     | 3466 | 7/7   | 0.99 | 0.13 | 94,95,95,95                 | 0     |
| 84  | OHX  | 1     | 3423 | 7/7   | 0.99 | 0.18 | 88,88,88,88                 | 0     |
| 84  | OHX  | AR    | 3468 | 7/7   | 0.99 | 0.11 | 101,101,102,102             | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | A     | 1914 | 7/7   | 0.99 | 0.15 | 101,102,103,103            | 0     |
| 84  | OHX  | 1     | 3424 | 7/7   | 0.99 | 0.16 | 84,84,84,84                | 0     |
| 84  | OHX  | A     | 1916 | 7/7   | 0.99 | 0.13 | 106,107,108,108            | 0     |
| 84  | OHX  | A     | 1917 | 7/7   | 0.99 | 0.12 | 105,106,106,107            | 0     |
| 84  | OHX  | 1     | 3469 | 7/7   | 0.99 | 0.23 | 85,85,85,86                | 0     |
| 84  | OHX  | A     | 1919 | 7/7   | 0.99 | 0.13 | 100,100,101,101            | 0     |
| 84  | OHX  | A     | 1920 | 7/7   | 0.99 | 0.12 | 102,102,103,103            | 0     |
| 84  | OHX  | sR    | 1901 | 7/7   | 0.99 | 0.27 | 87,87,87,87                | 0     |
| 84  | OHX  | sR    | 1902 | 7/7   | 0.99 | 0.24 | 98,99,99,99                | 0     |
| 84  | OHX  | sR    | 1903 | 7/7   | 0.99 | 0.21 | 86,86,86,87                | 0     |
| 84  | OHX  | sR    | 1904 | 7/7   | 0.99 | 0.19 | 90,90,90,91                | 0     |
| 84  | OHX  | AR    | 3471 | 7/7   | 0.99 | 0.14 | 90,91,91,92                | 0     |
| 84  | OHX  | sR    | 1906 | 7/7   | 0.99 | 0.20 | 90,90,90,90                | 0     |
| 84  | OHX  | 1     | 3425 | 7/7   | 0.99 | 0.21 | 87,88,88,88                | 0     |
| 85  | MG   | AR    | 4146 | 1/1   | 0.99 | 0.07 | 42,42,42,42                | 0     |
| 84  | OHX  | sR    | 1908 | 7/7   | 0.99 | 0.18 | 87,88,88,88                | 0     |
| 85  | MG   | 1     | 4189 | 1/1   | 0.99 | 0.14 | 46,46,46,46                | 0     |
| 84  | OHX  | AR    | 3473 | 7/7   | 0.99 | 0.13 | 103,103,104,104            | 0     |
| 84  | OHX  | sR    | 1910 | 7/7   | 0.99 | 0.20 | 87,88,88,88                | 0     |
| 84  | OHX  | A     | 1924 | 7/7   | 0.99 | 0.08 | 121,121,122,123            | 0     |
| 84  | OHX  | sR    | 1912 | 7/7   | 0.99 | 0.16 | 89,89,90,90                | 0     |
| 84  | OHX  | A     | 1925 | 7/7   | 0.99 | 0.11 | 135,135,136,136            | 0     |
| 84  | OHX  | sR    | 1914 | 7/7   | 0.99 | 0.15 | 104,104,105,106            | 0     |
| 84  | OHX  | sR    | 1915 | 7/7   | 0.99 | 0.16 | 92,93,93,94                | 0     |
| 84  | OHX  | 1     | 3524 | 7/7   | 0.99 | 0.14 | 107,107,108,108            | 0     |
| 84  | OHX  | sR    | 1917 | 7/7   | 0.99 | 0.13 | 98,99,100,100              | 0     |
| 84  | OHX  | 4     | 202  | 7/7   | 0.99 | 0.24 | 83,83,83,83                | 0     |
| 84  | OHX  | 4     | 203  | 7/7   | 0.99 | 0.14 | 83,83,84,84                | 0     |
| 84  | OHX  | 1     | 3471 | 7/7   | 0.99 | 0.12 | 98,99,99,99                | 0     |
| 84  | OHX  | 1     | 3402 | 7/7   | 0.99 | 0.30 | 84,84,84,84                | 0     |
| 84  | OHX  | sR    | 1922 | 7/7   | 0.99 | 0.16 | 103,103,104,104            | 0     |
| 84  | OHX  | sR    | 1923 | 7/7   | 0.99 | 0.14 | 92,93,93,94                | 0     |
| 84  | OHX  | 1     | 3427 | 7/7   | 0.99 | 0.20 | 88,88,89,89                | 0     |
| 84  | OHX  | sR    | 1925 | 7/7   | 0.99 | 0.16 | 101,101,102,102            | 0     |
| 84  | OHX  | 1     | 3428 | 7/7   | 0.99 | 0.18 | 83,83,83,83                | 0     |
| 85  | MG   | 1     | 3744 | 1/1   | 0.99 | 0.76 | 52,52,52,52                | 0     |
| 84  | OHX  | sR    | 1927 | 7/7   | 0.99 | 0.15 | 100,100,101,101            | 0     |
| 84  | OHX  | 1     | 3429 | 7/7   | 0.99 | 0.20 | 93,93,94,94                | 0     |
| 84  | OHX  | 1     | 3430 | 7/7   | 0.99 | 0.13 | 86,86,86,86                | 0     |
| 84  | OHX  | 1     | 3431 | 7/7   | 0.99 | 0.15 | 81,81,82,82                | 0     |
| 84  | OHX  | 1     | 3478 | 7/7   | 0.99 | 0.15 | 93,93,93,94                | 0     |
| 84  | OHX  | 1     | 3479 | 7/7   | 0.99 | 0.11 | 108,108,109,109            | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3486 | 7/7   | 0.99 | 0.16 | 87,87,88,88                | 0     |
| 84  | OHX  | 1     | 3403 | 7/7   | 0.99 | 0.30 | 83,83,83,83                | 0     |
| 84  | OHX  | sR    | 1935 | 7/7   | 0.99 | 0.13 | 109,109,110,110            | 0     |
| 84  | OHX  | 1     | 3433 | 7/7   | 0.99 | 0.18 | 86,86,87,87                | 0     |
| 84  | OHX  | AR    | 3489 | 7/7   | 0.99 | 0.15 | 95,95,95,96                | 0     |
| 85  | MG   | AR    | 4179 | 1/1   | 0.99 | 0.14 | 70,70,70,70                | 0     |
| 85  | MG   | AR    | 4180 | 1/1   | 0.99 | 0.15 | 66,66,66,66                | 0     |
| 84  | OHX  | 1     | 3434 | 7/7   | 0.99 | 0.18 | 86,87,87,87                | 0     |
| 84  | OHX  | 1     | 3435 | 7/7   | 0.99 | 0.20 | 92,92,93,93                | 0     |
| 84  | OHX  | 1     | 3404 | 7/7   | 0.99 | 0.29 | 89,89,89,89                | 0     |
| 85  | MG   | AR    | 4184 | 1/1   | 0.99 | 0.14 | 43,43,43,43                | 0     |
| 84  | OHX  | AR    | 3493 | 7/7   | 0.99 | 0.19 | 83,83,83,83                | 0     |
| 85  | MG   | sR    | 2150 | 1/1   | 0.99 | 0.09 | 76,76,76,76                | 0     |
| 85  | MG   | 1     | 4063 | 1/1   | 0.99 | 0.52 | 35,35,35,35                | 0     |
| 85  | MG   | sR    | 2152 | 1/1   | 0.99 | 0.08 | 110,110,110,110            | 0     |
| 85  | MG   | 1     | 3910 | 1/1   | 0.99 | 0.44 | 31,31,31,31                | 0     |
| 84  | OHX  | AR    | 3494 | 7/7   | 0.99 | 0.10 | 106,107,107,107            | 0     |
| 84  | OHX  | 1     | 3437 | 7/7   | 0.99 | 0.20 | 85,85,85,85                | 0     |
| 84  | OHX  | v     | 301  | 7/7   | 0.99 | 0.15 | 92,92,92,93                | 0     |
| 84  | OHX  | sR    | 1945 | 7/7   | 0.99 | 0.12 | 118,119,119,120            | 0     |
| 84  | OHX  | 1     | 3438 | 7/7   | 0.99 | 0.18 | 85,86,86,86                | 0     |
| 84  | OHX  | A     | 1950 | 7/7   | 0.99 | 0.14 | 116,117,117,118            | 0     |
| 84  | OHX  | 1     | 3439 | 7/7   | 0.99 | 0.18 | 86,86,86,86                | 0     |
| 84  | OHX  | 1     | 3440 | 7/7   | 0.99 | 0.17 | 82,83,83,83                | 0     |
| 84  | OHX  | 1     | 3405 | 7/7   | 0.99 | 0.28 | 91,91,91,91                | 0     |
| 84  | OHX  | A     | 1954 | 7/7   | 0.99 | 0.15 | 129,130,130,130            | 0     |
| 84  | OHX  | 1     | 3442 | 7/7   | 0.99 | 0.15 | 88,89,89,89                | 0     |
| 84  | OHX  | AR    | 3502 | 7/7   | 0.99 | 0.12 | 112,112,113,113            | 0     |
| 84  | OHX  | AC    | 101  | 7/7   | 0.99 | 0.24 | 84,84,84,85                | 0     |
| 84  | OHX  | 1     | 3491 | 7/7   | 0.99 | 0.14 | 97,97,98,98                | 0     |
| 84  | OHX  | 1     | 3492 | 7/7   | 0.99 | 0.11 | 106,106,107,107            | 0     |
| 85  | MG   | AR    | 3867 | 1/1   | 0.99 | 0.34 | 37,37,37,37                | 0     |
| 85  | MG   | 1     | 3926 | 1/1   | 0.99 | 0.63 | 23,23,23,23                | 0     |
| 84  | OHX  | AR    | 3615 | 7/7   | 0.99 | 0.18 | 107,107,107,107            | 0     |
| 84  | OHX  | 1     | 3443 | 7/7   | 0.99 | 0.15 | 89,90,90,91                | 0     |
| 84  | OHX  | 1     | 3494 | 7/7   | 0.99 | 0.14 | 89,90,90,90                | 0     |
| 85  | MG   | 1     | 3930 | 1/1   | 0.99 | 0.52 | 26,26,26,26                | 0     |
| 84  | OHX  | AR    | 3401 | 7/7   | 0.99 | 0.34 | 88,88,88,88                | 0     |
| 84  | OHX  | AR    | 3402 | 7/7   | 0.99 | 0.31 | 82,82,82,82                | 0     |
| 85  | MG   | sR    | 2177 | 1/1   | 0.99 | 0.15 | 84,84,84,84                | 0     |
| 84  | OHX  | AR    | 3403 | 7/7   | 0.99 | 0.29 | 80,80,80,80                | 0     |
| 84  | OHX  | AR    | 3404 | 7/7   | 0.99 | 0.29 | 81,81,82,82                | 0     |

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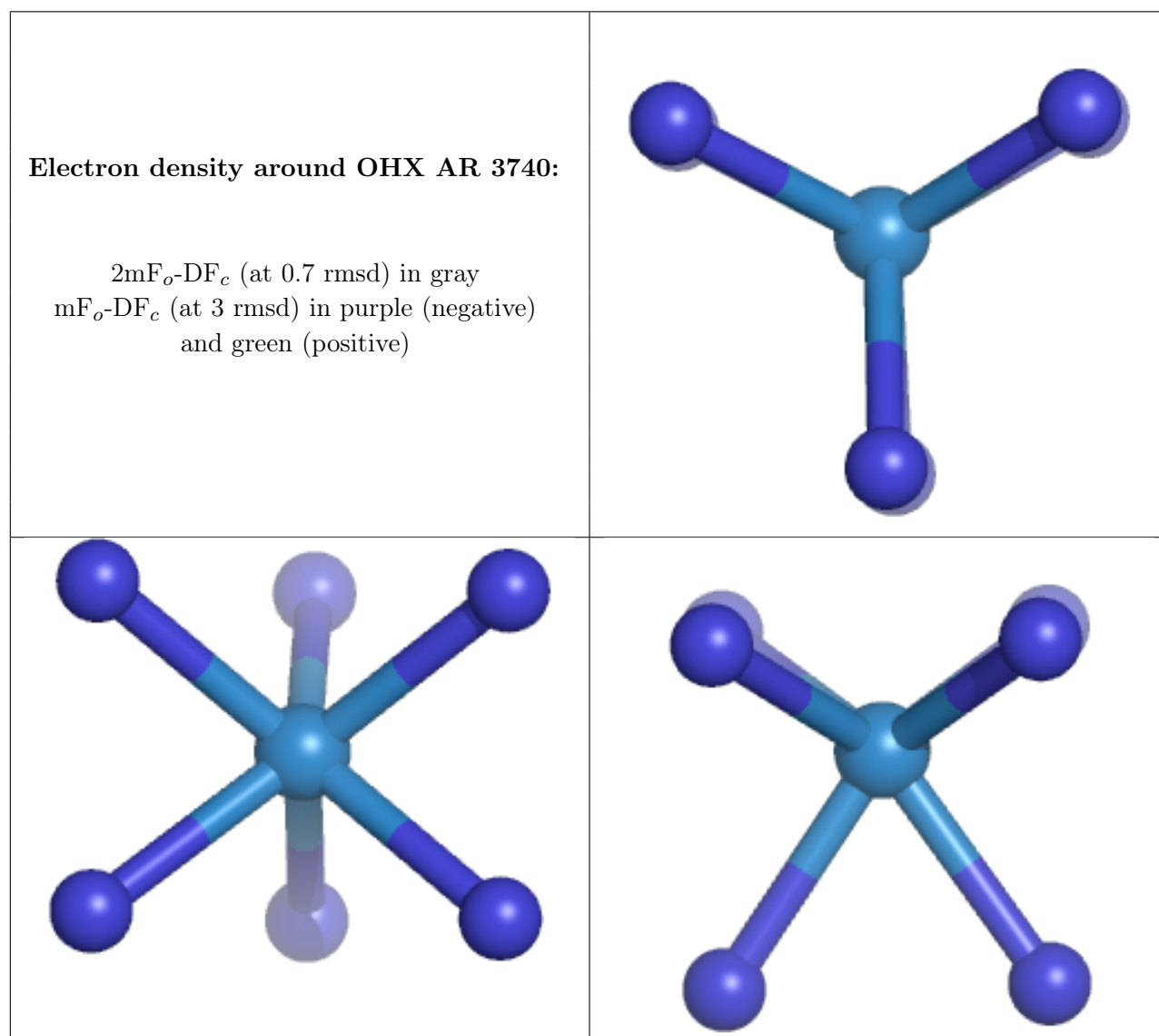
| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors(Å <sup>2</sup> ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 84  | OHX  | AR    | 3405 | 7/7   | 0.99 | 0.27 | 86,86,87,87                | 0     |
| 84  | OHX  | AR    | 3513 | 7/7   | 0.99 | 0.15 | 81,81,81,82                | 0     |
| 84  | OHX  | AR    | 3406 | 7/7   | 0.99 | 0.26 | 82,82,82,82                | 0     |
| 84  | OHX  | AR    | 3407 | 7/7   | 0.99 | 0.25 | 80,80,80,80                | 0     |
| 84  | OHX  | AR    | 3408 | 7/7   | 0.99 | 0.24 | 77,77,77,77                | 0     |
| 84  | OHX  | AR    | 3409 | 7/7   | 0.99 | 0.24 | 82,82,83,83                | 0     |
| 85  | MG   | AR    | 4221 | 1/1   | 0.99 | 0.15 | 40,40,40,40                | 0     |
| 84  | OHX  | AR    | 3410 | 7/7   | 0.99 | 0.24 | 78,79,79,79                | 0     |
| 84  | OHX  | AR    | 3411 | 7/7   | 0.99 | 0.26 | 87,87,88,88                | 0     |
| 84  | OHX  | AR    | 3412 | 7/7   | 0.99 | 0.26 | 80,80,80,80                | 0     |
| 84  | OHX  | 1     | 3444 | 7/7   | 0.99 | 0.18 | 90,90,91,91                | 0     |
| 84  | OHX  | AR    | 3414 | 7/7   | 0.99 | 0.24 | 80,80,80,80                | 0     |
| 84  | OHX  | AR    | 3415 | 7/7   | 0.99 | 0.21 | 78,78,79,79                | 0     |
| 84  | OHX  | AR    | 3416 | 7/7   | 0.99 | 0.21 | 82,82,82,82                | 0     |
| 84  | OHX  | AR    | 3417 | 7/7   | 0.99 | 0.22 | 79,80,80,80                | 0     |
| 84  | OHX  | AR    | 3418 | 7/7   | 0.99 | 0.17 | 84,84,84,84                | 0     |
| 85  | MG   | AR    | 4231 | 1/1   | 0.99 | 0.14 | 80,80,80,80                | 0     |
| 84  | OHX  | AS    | 201  | 7/7   | 0.99 | 0.17 | 88,88,88,89                | 0     |
| 84  | OHX  | AR    | 3419 | 7/7   | 0.99 | 0.20 | 81,82,82,82                | 0     |
| 84  | OHX  | AR    | 3420 | 7/7   | 0.99 | 0.23 | 84,84,84,84                | 0     |
| 84  | OHX  | AR    | 3421 | 7/7   | 0.99 | 0.20 | 89,89,89,89                | 0     |
| 84  | OHX  | AR    | 3530 | 7/7   | 0.99 | 0.07 | 128,129,129,130            | 0     |
| 85  | MG   | x     | 205  | 1/1   | 0.99 | 0.63 | 31,31,31,31                | 0     |
| 85  | MG   | AR    | 4064 | 1/1   | 0.99 | 0.12 | 84,84,84,84                | 0     |
| 84  | OHX  | AR    | 3422 | 7/7   | 0.99 | 0.22 | 83,84,84,84                | 0     |
| 84  | OHX  | AR    | 3423 | 7/7   | 0.99 | 0.20 | 82,82,82,82                | 0     |
| 85  | MG   | AR    | 4241 | 1/1   | 0.99 | 0.67 | 41,41,41,41                | 0     |
| 87  | ZN   | AK    | 101  | 1/1   | 0.99 | 0.16 | 39,39,39,39                | 0     |
| 87  | ZN   | AP    | 501  | 1/1   | 0.99 | 0.03 | 75,75,75,75                | 0     |
| 84  | OHX  | AR    | 3424 | 7/7   | 0.99 | 0.23 | 82,82,82,82                | 0     |
| 87  | ZN   | DL    | 102  | 1/1   | 0.99 | 0.18 | 44,44,44,44                | 0     |
| 84  | OHX  | AR    | 3425 | 7/7   | 0.99 | 0.21 | 81,81,81,82                | 0     |
| 87  | ZN   | DR    | 501  | 1/1   | 0.99 | 0.11 | 62,62,62,62                | 0     |
| 87  | ZN   | b     | 102  | 1/1   | 0.99 | 0.10 | 84,84,84,84                | 0     |
| 84  | OHX  | AR    | 3426 | 7/7   | 0.99 | 0.20 | 82,82,83,83                | 0     |
| 87  | ZN   | e     | 103  | 1/1   | 0.99 | 0.09 | 82,82,82,82                | 0     |
| 84  | OHX  | AR    | 3427 | 7/7   | 0.99 | 0.17 | 77,77,77,77                | 0     |
| 84  | OHX  | AR    | 3428 | 7/7   | 0.99 | 0.20 | 81,81,81,81                | 0     |
| 84  | OHX  | AT    | 203  | 7/7   | 0.99 | 0.13 | 104,104,104,104            | 0     |
| 87  | ZN   | DO    | 201  | 1/1   | 1.00 | 0.16 | 29,29,29,29                | 0     |
| 85  | MG   | AR    | 4204 | 1/1   | 1.00 | 0.17 | 63,63,63,63                | 0     |
| 84  | OHX  | 1     | 3411 | 7/7   | 1.00 | 0.22 | 81,82,82,82                | 0     |

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| Mol | Type | Chain | Res  | Atoms | RSCC | RSR  | B-factors( $\text{\AA}^2$ ) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 85  | MG   | 1     | 4158 | 1/1   | 1.00 | 0.15 | 57,57,57,57                 | 0     |
| 84  | OHX  | 1     | 3421 | 7/7   | 1.00 | 0.21 | 84,84,85,85                 | 0     |
| 87  | ZN   | AN    | 500  | 1/1   | 1.00 | 0.15 | 43,43,43,43                 | 0     |
| 85  | MG   | AR    | 4208 | 1/1   | 1.00 | 0.17 | 73,73,73,73                 | 0     |
| 87  | ZN   | d6    | 103  | 1/1   | 1.00 | 0.12 | 68,68,68,68                 | 0     |
| 85  | MG   | AR    | 3912 | 1/1   | 1.00 | 0.58 | 29,29,29,29                 | 0     |
| 87  | ZN   | d9    | 103  | 1/1   | 1.00 | 0.12 | 81,81,81,81                 | 0     |
| 85  | MG   | 1     | 4099 | 1/1   | 1.00 | 0.17 | 68,68,68,68                 | 0     |

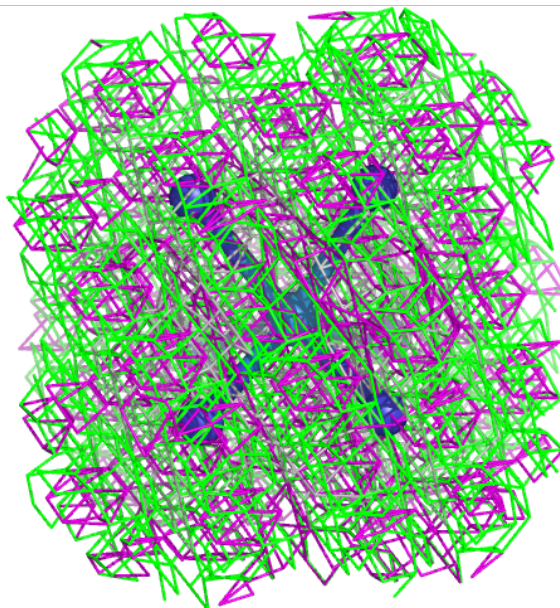
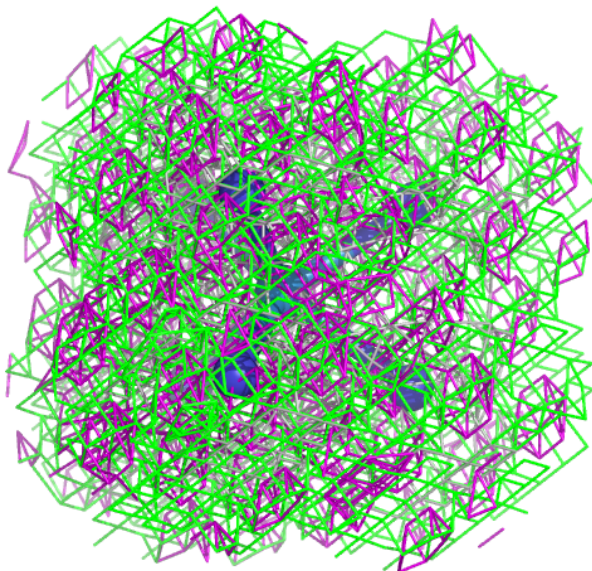
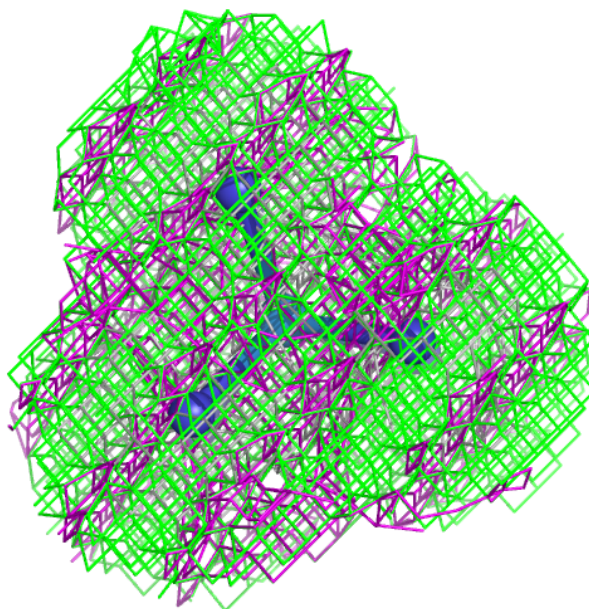
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





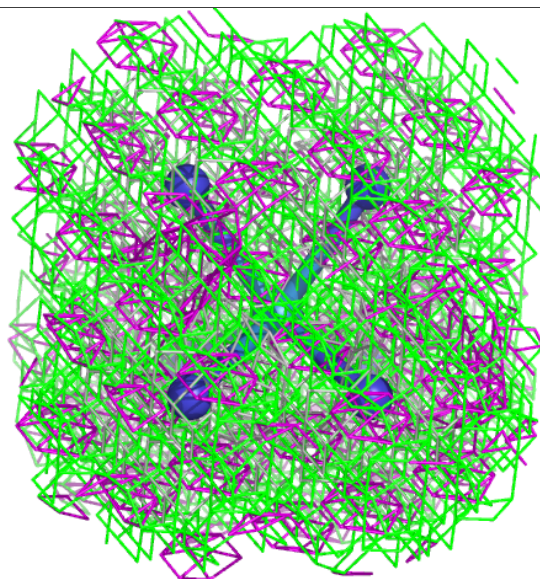
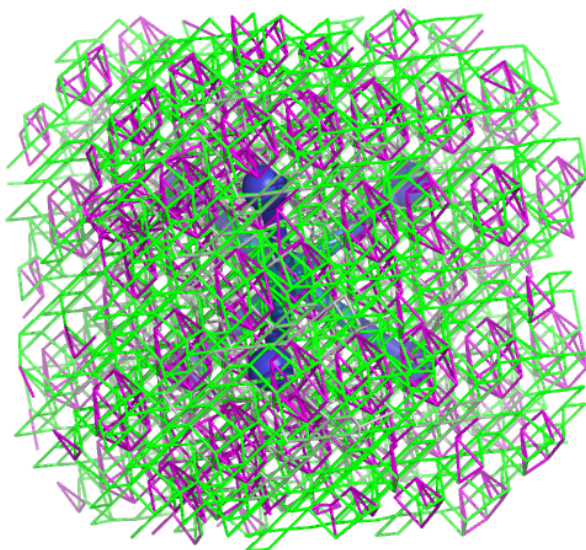
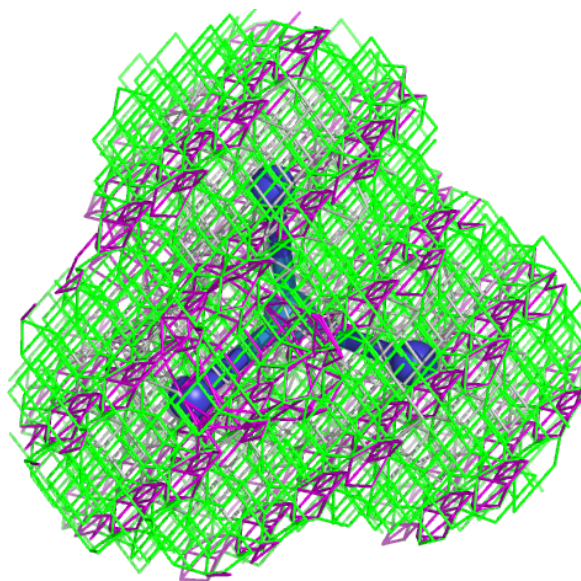
**Electron density around OHX 1 3673:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around OHX 1 3718:**

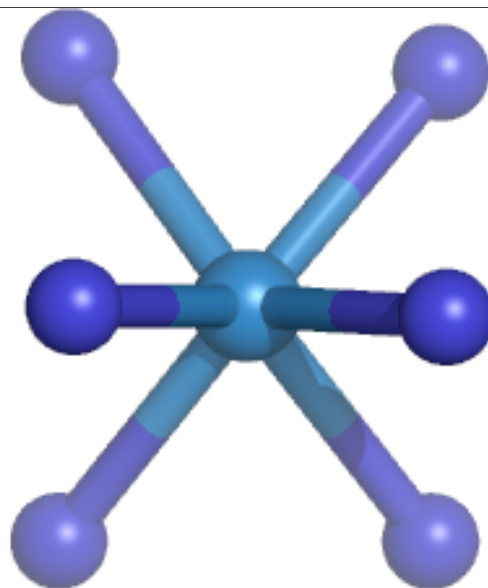
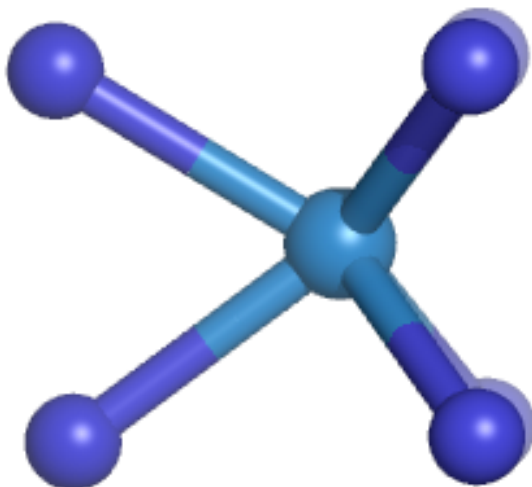
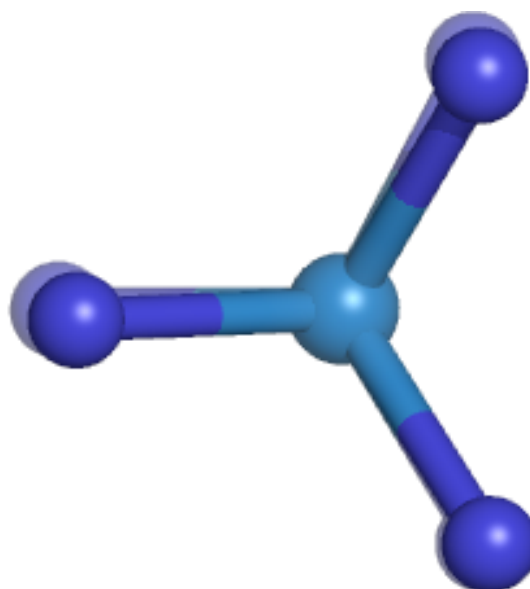
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





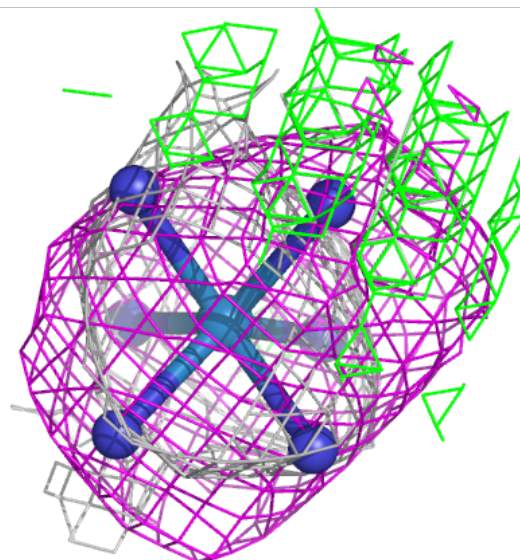
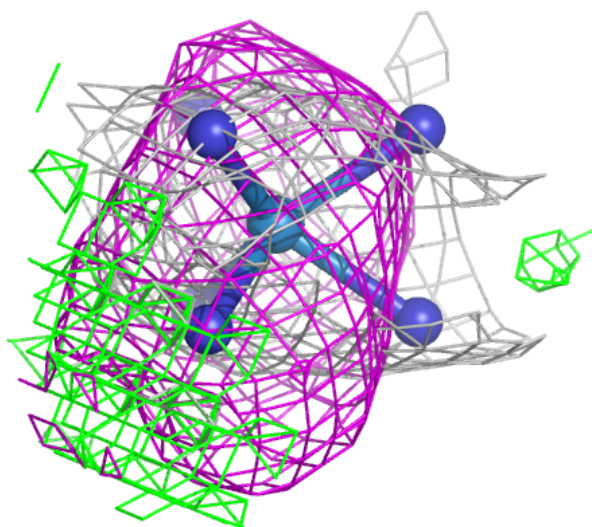
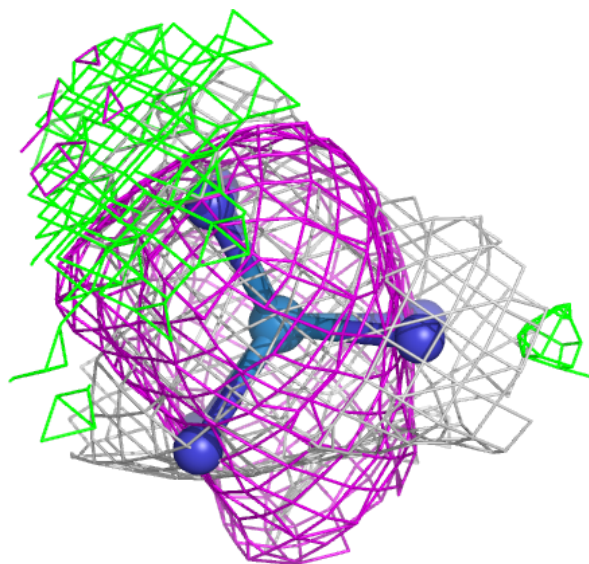
**Electron density around OHX A 2039:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



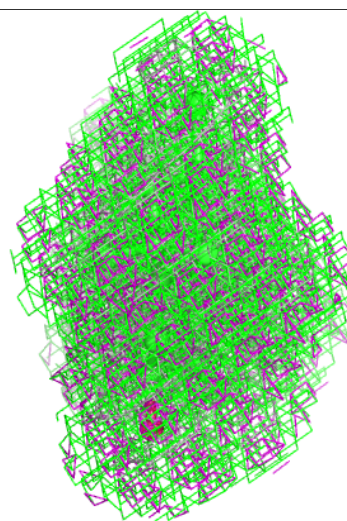
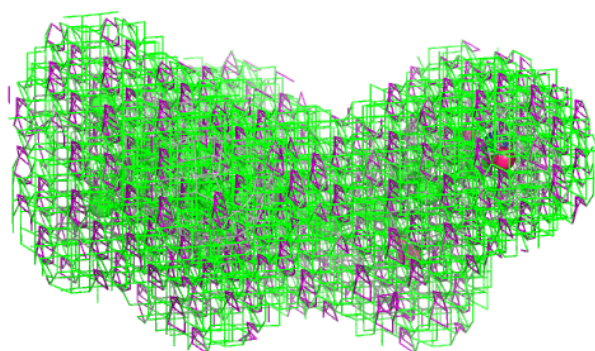
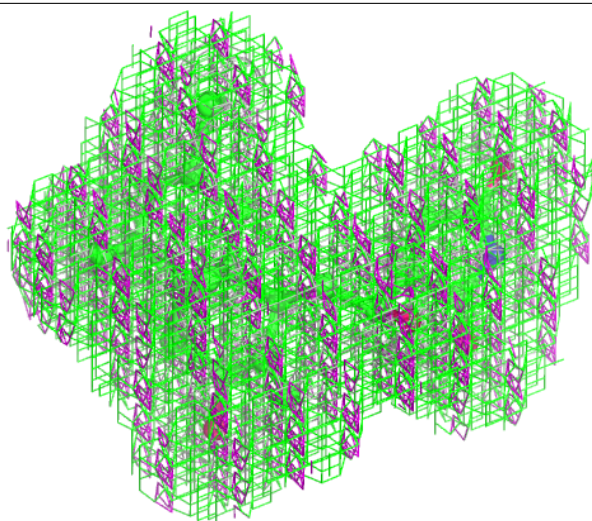
**Electron density around OHX sR 2040:**

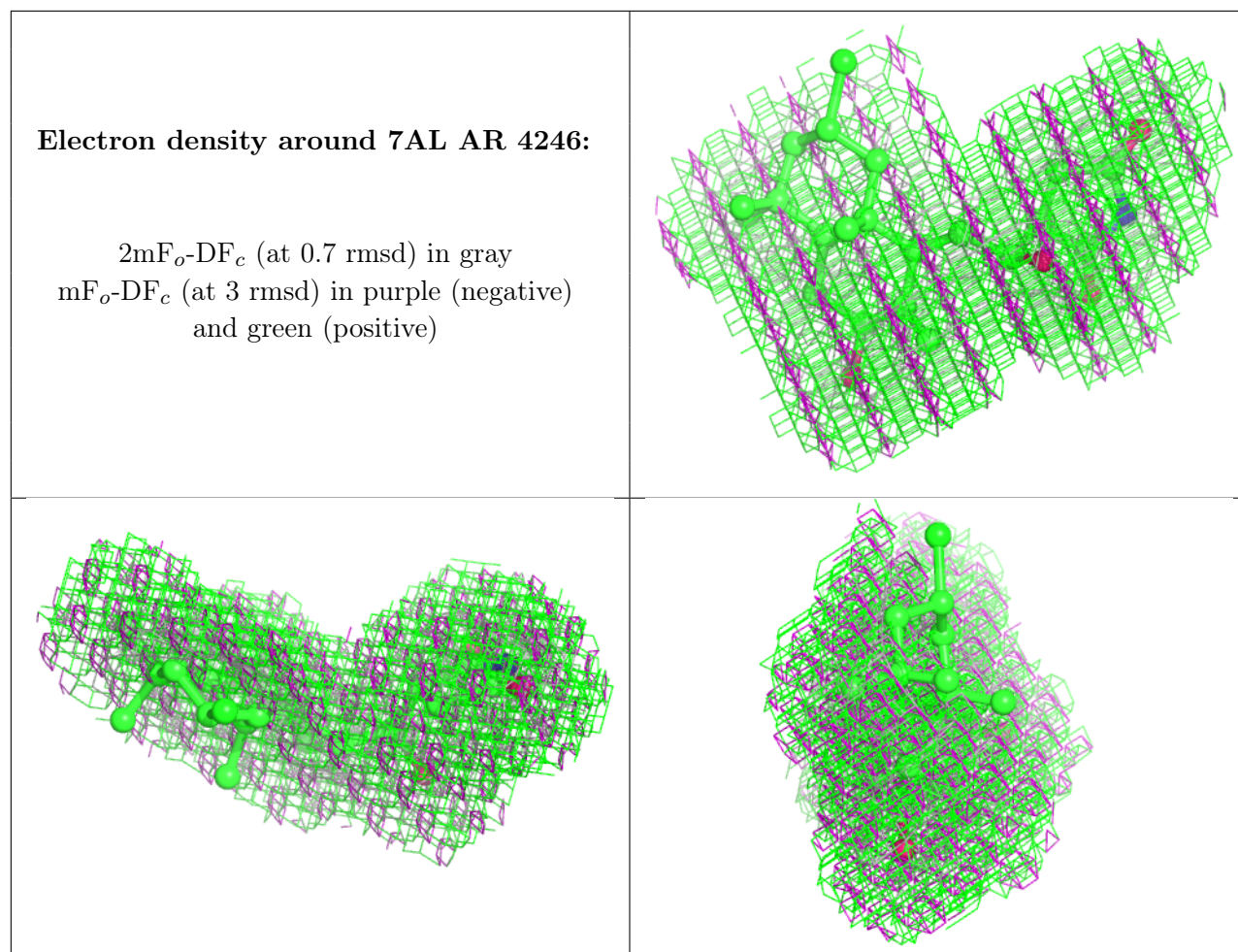
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around 7AL 1 4210:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





## 6.5 Other polymers [i](#)

There are no such residues in this entry.