# Viewing lca5_mb_107-211H-multi.table

When finished, you should [ close this window ] .                    *Hint: Use File | Save As... to save a copy of this page.*

| All-Atom Contacts | Clashscore, all atoms: | 74.93 | | $0^{th}$ percentile* (N=1784, all resolutions) |
|---|---|---|---|---|
| | Clashscore is the number of serious steric overlaps (> 0.4 Å) per 1000 atoms. | | | |
| Protein Geometry | Poor rotamers | 5 | 5.05% | Goal: <1% |
| | Ramachandran outliers | 0 | 0.00% | Goal: <0.05% |
| | Ramachandran favored | 96 | 93.20% | Goal: >98% |
| | MolProbity score^ | 3.32 | | $13^{th}$ percentile* (N=27675, 0Å - 99Å) |
| | Cβ deviations >0.25Å | 0 | 0.00% | Goal: 0 |
| | Bad backbone bonds: | 0 / 892 | 0.00% | Goal: 0% |
| | Bad backbone angles: | 11 / 1185 | 0.93% | Goal: <0.1% |

In the two column results, the left column gives the raw count, right column gives the percentage.

\* $100^{th}$ percentile is the best among structures of comparable resolution; $0^{th}$ percentile is the worst. For clashscore the comparative set of structures was selected in 2004, for MolProbity score in 2006.

^ MolProbity score combines the clashscore, rotamer, and Ramachandran evaluations into a single score, normalized to be on the same scale as X-ray resolution.

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|---|---|---|---|---|---|---|---|---|
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |
| 107 | | ALA | 8.61 | 0.761Å N with 110 LEU HD23 | - | - | 0.056Å | - | - |
| 108 | | ARG | 84.31 | 0.472Å HE with 108 ARG N | Favored (95.03%) General / -64.6,-40.1 | 0% chi angles: 285.2,65.9,279.7,270.3 | 0.088Å | - | - |
| 109 | | LEU | 62.92 | 0.677Å O with 112 ILE HG22 | Favored (97.89%) General / -61.9,-41.4 | 4.6% (*mp*) chi angles: 295.9,63.9 | 0.092Å | - | - |
| 110 | | LEU | 67.55 | 0.761Å HD23 with 107 ALA N | Favored (88.92%) General / -63.2,-37.9 | 1.9% (*mm?*) chi angles: 292.9,293.3 | 0.074Å | - | - |

| 111 | LYS | 112.83 | 0.693Å<br>HZ1 with 115<br>LEU HD21 | Favored<br>(89.74%)<br>General /<br>-61.4,-46.5 | 0.1%<br>chi angles:<br>182.5,69.8,261.1,290.3 | 0.088Å | - | - |
|---|---|---|---|---|---|---|---|---|
| 112 | ILE | 129.27 | 0.721Å<br>O with 112 ILE<br>HD13 | Favored<br>(86.41%)<br>Isoleucine or<br>valine / -67.8,-42.7 | 0%<br>chi angles: 195.2,294.3 | 0.041Å | - | - |
| 113 | ASN | 65.21 | 0.504Å<br>N with 112 ILE<br>HG23 | Favored<br>(89.41%)<br>General /<br>-59.7,-40.9 | 57.8% (*t-20*)<br>chi angles: 190.6,348.9 | 0.084Å | - | OUTLIER(S)<br>worst is CA-<br>CB-CG: 4.029<br>σ |
| 114 | GLU | 78.07 | 0.662Å<br>HG2 with 111<br>LYS O | Favored<br>(77.39%)<br>General /<br>-66.5,-46.0 | 17% (*pt-20*)<br>chi angles:<br>63.4,180,302.2 | 0.086Å | - | - |
| 115 | LEU | 40.07 | 0.693Å<br>HD21 with<br>111 LYS HZ1 | Favored<br>(97.49%)<br>General /<br>-62.9,-40.5 | 79.8% (*mt*)<br>chi angles: 293.5,180.2 | 0.087Å | - | - |
| 116 | GLN | 83.98 | 0.728Å<br>O with 119<br>VAL HG22 | Favored<br>(74.61%)<br>General /<br>-67.2,-46.2 | 8.3% (*tt0*)<br>chi angles:<br>180.1,179.9,179.6 | 0.094Å | - | - |
| 117 | ASN | 74.22 | - | Favored<br>(98.2%)<br>General /<br>-63.1,-40.6 | 0.8%<br>chi angles: 189.2,107.4 | 0.091Å | - | - |
| 118 | GLU | 71.35 | 0.794Å<br>O with 121<br>GLU HG2 | Favored<br>(92.64%)<br>General /<br>-65.3,-42.9 | 12.7% (*pt-20*)<br>chi angles:<br>63.3,179.9,57.6 | 0.08Å | - | - |
| 119 | VAL | 88.98 | 0.728Å<br>HG22 with<br>116 GLN O | Favored<br>(80.62%)<br>Isoleucine or<br>valine / -61.8,-38.5 | 34.1% (*m*)<br>chi angles: 299.1 | 0.066Å | - | - |
| 120 | SER | 67.3 | 0.508Å<br>N with 119<br>VAL HG23 | Favored<br>(86.78%)<br>General /<br>-60.3,-39.4 | 48.1% (*t*)<br>chi angles: 179.7 | 0.083Å | - | - |
| 121 | GLU | 99.61 | 0.794Å<br>HG2 with 118<br>GLU O | Favored<br>(72.48%)<br>General /<br>-64.8,-31.3 | 17.2% (*pt-20*)<br>chi angles:<br>67.8,179.8,305.9 | 0.091Å | - | - |
| 122 | LEU | 154.81 | 0.401Å<br>C with 124<br>VAL H | Favored<br>(72.28%)<br>General /<br>-58.6,-35.3 | 4% (*mm?*)<br>chi angles: 282.3,294.5 | 0.113Å | - | - |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| 123 | | GLN | 136.61 | 0.534Å HG2 with 123 GLN O | Allowed (0.08%) General / -69.6,15.2 | 66.1% (*tt0*) chi angles: 186.3,179.9,3 | 0.074Å | - | - |
| 124 | | VAL | 41.13 | 0.737Å HG13 with 121 GLU O | Favored (62.25%) Isoleucine or valine / -69.6,-34.6 | 19.1% (*m*) chi angles: 292.2 | 0.08Å | - | - |
| 125 | | LYS | 98.27 | 0.475Å N with 124 VAL HG23 | Favored (71.06%) General / -59.5,-33.2 | 85.4% (*tttt*) chi angles: 178.1,172.7,174,180.8 | 0.146Å | - | - |
| 126 | | LEU | 86.24 | 0.605Å O with 126 LEU HD23 | Favored (92.63%) General / -59.3,-44.1 | 3.3% (*tt*) chi angles: 190.5,180.1 | 0.054Å | - | - |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |
| 127 | | ALA | 29.02 | 0.523Å O with 131 LYS HG2 | Favored (98.92%) General / -61.0,-43.4 | - | 0.086Å | - | - |
| 128 | | GLU | 67.32 | - | Favored (81.98%) General / -67.6,-42.8 | 8.1% (*tm-20*) chi angles: 180.3,267,352.1 | 0.057Å | - | - |
| 129 | | LEU | 128.04 | 0.646Å O with 129 LEU HD13 | Favored (96.49%) General / -64.1,-40.5 | 2.8% (*tm?*) chi angles: 189.7,292.7 | 0.051Å | - | - |
| 130 | | LEU | 71.15 | - | Favored (84.97%) General / -61.6,-37.7 | 62% (*tp*) chi angles: 179.8,63.8 | 0.096Å | - | - |
| 131 | | LYS | 157.45 | 0.523Å HG2 with 127 ALA O | Favored (97.98%) General / -61.2,-42.1 | 13.9% (*mmmm*) chi angles: 294.8,299.3,287.7,293.1 | 0.094Å | - | - |
| 132 | | GLU | 43.43 | - | Favored (91.08%) General / -62.2,-39.0 | 49% (*tt0*) chi angles: 180.3,179.7,315.8 | 0.097Å | - | - |
| 133 | | ASN | 200.7 | - | Favored (14.45%) General / | 60.1% (*t-20*) chi angles: 188.6,343.3 | 0.092Å | - | OUTLIER(S) worst is CA-CB-CG: 4.331 |

| | | | | -71.5,118.6 | | | σ |
|---|---|---|---|---|---|---|---|
| 134 | LYS | 268.55 | - | Favored (28.45%) General / -77.2,161.1 | 32.3% (*mmmt*) chi angles: 293.6,299.4,288.4,180.1 | 0.089Å | - | - |
| 135 | SER | 130.23 | 0.422Å HB2 with 137 LYS HG2 | Favored (41.02%) General / -74.5,148.4 | 99.6% (*p*) chi angles: 64.5 | 0.087Å | - | - |
| 136 | LEU | 154.71 | 0.738Å HD13 with 140 GLN HG3 | Favored (75.06%) General / -68.6,-34.0 | 3.1% (*tm?*) chi angles: 182.6,290 | 0.073Å | - | - |
| 137 | LYS | 74.5 | 0.504Å HG3 with 138 ARG N | Favored (77.15%) General / -58.0,-38.9 | 57.6% (*pttt*) chi angles: 62.7,167.3,180,179.9 | 0.079Å | - | - |
| 138 | ARG | 65.55 | 0.504Å N with 137 LYS HG3 | Favored (95.05%) General / -65.0,-41.9 | 77.9% (*ttt-85*) chi angles: 180.2,180,180,271.3 | 0.084Å | - | - |
| 139 | LEU | 50.03 | 0.756Å HD12 with 142 ARG HE | Favored (89.64%) General / -59.6,-41.2 | 24.8% (*tp*) chi angles: 179.6,74.4 | 0.161Å | - | - |
| 140 | GLN | 36.61 | 0.738Å HG3 with 136 LEU HD13 | Favored (79.77%) General / -60.2,-37.3 | 89.1% (*mt-30*) chi angles: 294.8,179.9,356.3 | 0.096Å | - | - |
| 141 | TYR | 88.06 | 0.802Å O with 144 GLU HG2 | Favored (94.06%) General / -59.8,-44.3 | 87.5% (*t80*) chi angles: 179.9,81.1 | 0.085Å | - | - |
| 142 | ARG | 131.81 | 0.756Å HE with 139 LEU HD12 | Favored (72.57%) General / -70.4,-41.8 | 55.3% (*ptt85*) chi angles: 63.9,176.5,184.5,86.2 | 0.102Å | - | - |
| 143 | GLN | 85.83 | - | Favored (75.53%) General / -60.2,-35.5 | 8.3% (*tt0*) chi angles: 180.1,180.1,179.2 | 0.085Å | - | - |
| 144 | GLU | 62.87 | 0.802Å HG2 with 141 TYR O | Favored (95.68%) General / -64.4,-40.4 | 24.3% (*pt-20*) chi angles: 70.1,180,0.6 | 0.097Å | - | - |
| 145 | LYS | 83.06 | 0.808Å HA with 148 | Favored (78.13%) General / | 74.9% (*mmtt*) chi angles: | 0.092Å | - | - |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| | | ASN ND2 | | | -67.6,-44.5 | 294.3,298.8,180.1,180 | | | |
| 146 | | ALA | 38.46 | 0.442Å O with 150 PHE HD1 | Favored (84.68%) General / -60.9,-38.1 | - | 0.089Å | - | - |
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |
| 147 | | LEU | 97.11 | 0.611Å O with 147 LEU HD23 | Favored (80.68%) General / -66.8,-44.7 | 3.5% (*tt*) chi angles: 190.3,179.5 | 0.058Å | - | - |
| 148 | | ASN | 103.11 | 0.808Å ND2 with 145 LYS HA | Favored (70.37%) General / -64.1,-29.2 | 23.3% (*p30*) chi angles: 64.1,51.4 | 0.1Å | - | - |
| 149 | | LYS | 141.9 | 0.49Å HG2 with 145 LYS O | Favored (90.17%) General / -63.4,-45.6 | 33.1% (*mmtp*) chi angles: 294.3,298.8,180,73.4 | 0.103Å | - | - |
| 150 | | PHE | 141.53 | 0.442Å HD1 with 146 ALA O | Favored (80.44%) General / -62.9,-35.5 | 68.7% (*m-85*) chi angles: 285.4,87.1 | 0.098Å | - | OUTLIER(S) worst is CA-CB-CG: 5.517 σ |
| 151 | | GLU | 36.65 | 0.661Å O with 154 GLU HG3 | Favored (96.61%) General / -60.8,-41.9 | 97.6% (*mt-10*) chi angles: 293.7,180,359.8 | 0.083Å | - | - |
| 152 | | ASP | 99.63 | - | Favored (81.59%) General / -68.4,-39.8 | 2.9% (*p30*) chi angles: 62.4,70.5 | 0.094Å | - | - |
| 153 | | ALA | 31.93 | 0.731Å O with 156 GLU HG2 | Favored (96.71%) General / -63.5,-40.3 | - | 0.086Å | - | - |
| 154 | | GLU | 103.22 | 0.773Å O with 157 ILE HG22 | Favored (82.25%) General / -67.2,-36.7 | 1.8% (*pp20?*) chi angles: 75.4,87.5,2 | 0.072Å | - | - |
| 155 | | ASN | 37.84 | - | Favored (87.52%) General / -65.8,-43.8 | 80.8% (*m-20*) chi angles: 291.2,310.6 | 0.092Å | - | OUTLIER(S) worst is CA-CB-CG: 4.209 σ |
| | | | | 0.731Å | Favored | 24.6% (*pt-20*) | | | |

| # | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| 156 | GLU | 62.92 | HG2 with 153 ALA O | (93.69%) General / -60.2,-41.7 | chi angles: 62.8,179.8,359.6 | 0.087Å | - | - |
| 157 | ILE | 89.77 | 0.773Å HG22 with 154 GLU O | Favored (88.36%) Isoleucine or valine / -61.6,-40.9 | 18.2% (*tt*) chi angles: 194.2,169.6 | 0.054Å | - | - |
| 158 | SER | 70.92 | 0.663Å O with 161 ILE HG22 | Favored (78.97%) General / -66.3,-45.9 | 47.9% (*t*) chi angles: 179.8 | 0.083Å | - | - |
| 159 | GLN | 111.92 | 0.696Å HG3 with 156 GLU O | Favored (92.71%) General / -61.5,-39.9 | 2.5% (*pp0?*) chi angles: 64.6,84.7,6.8 | 0.063Å | - | - |
| 160 | LEU | 91.79 | 0.758Å HD21 with 168 ILE HG21 | Favored (82.62%) General / -64.1,-46.8 | 3.3% (*tt*) chi angles: 189.2,180 | 0.066Å | - | - |
| 161 | ILE | 84.48 | 1.089Å HG13 with 171 LEU HD13 | Favored (95.11%) Isoleucine or valine / -64.5,-45.7 | 20.7% (*tt*) chi angles: 191.3,167.8 | 0.064Å | - | - |
| 162 | PHE | 68.67 | 0.692Å O with 172 LYS HB3 | Favored (83.42%) General / -66.2,-44.6 | 67.7% (*m-85*) chi angles: 286.5,82.8 | 0.082Å | - | OUTLIER(S) worst is CA-CB-CG: 6.071 σ |
| 163 | ARG | 217.95 | 0.645Å O with 170 ALA HA | Allowed (1.33%) General / -114.4,-168.2 | 99.8% (*mtt180*) chi angles: 293.2,180,179.9,177.4 | 0.096Å | - | - |
| 164 | HIS | 269.07 | 0.963Å HB2 with 174 ARG HD3 | Favored (27.17%) General / -82.2,150.7 | 66.4% (*t60*) chi angles: 180,87.9 | 0.099Å | - | OUTLIER(S) worst is CD2-NE2-CE1: 4.465 σ |
| 165 | ASN | 201.03 | 0.743Å CG with 160 LEU HG | Favored (45.63%) General / -127.8,154.2 | 6% (*m-80*) chi angles: 289.2,253.3 | 0.103Å | - | OUTLIER(S) worst is CA-CB-CG: 5.234 σ |
| 166 | ASN | 78.75 | - | Favored (76.95%) General / -65.2,-47.4 | 62.6% (*t-20*) chi angles: 188,345.7 | 0.093Å | - | OUTLIER(S) worst is CA-CB-CG: 4.348 σ |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 167 | GLU | 90.5 | 0.539Å<br>HG3 with 168<br>ILE N | Favored<br>(76.56%)<br>General /<br>-65.6,-47.2 | 24.6% (*pt-20*)<br>chi angles:<br>62.3,180,359.5 | 0.095Å | - | - |
| 168 | ILE | 137.62 | 0.813Å<br>HD13 with<br>169 THR N | Favored<br>(48.5%)<br>Isoleucine or<br>valine /<br>-128.3,140.7 | 0.1%<br>chi angles: 197.8,293.3 | 0.053Å | - | - |
| 169 | THR | 221.78 | 0.849Å<br>HA with 164<br>HIS CE1 | Favored<br>(2.13%)<br>General /<br>-60.0,167.8 | 69.1% (*p*)<br>chi angles: 62 | 0.073Å | - | - |
| 170 | ALA | 203.33 | 0.895Å<br>CB with 174<br>ARG HB3 | Favored<br>(41.84%)<br>General /<br>-59.4,129.4 | - | 0.116Å | - | - |
| 171 | LEU | 152.86 | 1.089Å<br>HD13 with<br>161 ILE HG13 | Favored<br>(80.05%)<br>General /<br>-68.4,-41.7 | 3.4% (*tt*)<br>chi angles: 189.3,179.7 | 0.081Å | - | - |
| 172 | LYS | 143.83 | 0.692Å<br>HB3 with 162<br>PHE O | Allowed<br>(0.05%)<br>General /<br>-88.8,-121.0 | 78.1% (*tttt*)<br>chi angles:<br>194.5,166.1,179.9,180 | 0.068Å | - | - |
| 173 | GLU | 100.92 | 0.472Å<br>N with 172<br>LYS HG2 | Favored<br>(84.64%)<br>General /<br>-57.9,-42.3 | 88.7% (*tt0*)<br>chi angles:<br>182.7,180.1,4.1 | 0.077Å | - | - |
| 174 | ARG | 98.94 | 0.963Å<br>HD3 with 164<br>HIS HB2 | Favored<br>(97.23%)<br>General /<br>-62.7,-44.0 | 70.1% (*ttt180*)<br>chi angles:<br>180.3,180.1,180,165.4 | 0.101Å | - | - |
| 175 | LEU | 119.45 | 0.687Å<br>HB2 with 170<br>ALA O | Favored<br>(97.47%)<br>General /<br>-63.7,-43.1 | 61.7% (*tp*)<br>chi angles: 180,63.8 | 0.11Å | - | - |
| 176 | ARG | 166.19 | - | Favored<br>(97.36%)<br>General /<br>-64.1,-41.3 | 21.3% (*tpp85*)<br>chi angles:<br>180,66,69.9,86.5 | 0.088Å | - | - |
| 177 | LYS | 82.5 | - | Favored<br>(90.36%)<br>General /<br>-61.8,-46.2 | 6.6% (*ttpm?*)<br>chi angles:<br>181.4,166.5,73.1,292.7 | 0.082Å | - | - |
| 178 | SER | 42 | 0.426Å<br>O with 182 | Favored<br>(96.37%)<br>General / | 95.1% (*p*)<br>chi angles: 64.9 | 0.092Å | - | - |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| | | GLU HG3 | | -64.3,-42.6 | | | | | |
| 179 | | GLN | 83.92 | - | Favored (96.1%) General / -60.2,-43.0 | 66% (*tt0*) chi angles: 180,180.3,359.4 | 0.082Å | - | OUTLIER(S) worst is CB-CG-CD: 4.469 σ |
| 180 | | GLU | 32.13 | - | Favored (80.05%) General / -65.7,-46.1 | 89% (*tt0*) chi angles: 182,180,1.6 | 0.087Å | - | - |
| 181 | | LYS | 127.36 | - | Favored (97.66%) General / -64.0,-41.1 | 24.1% (*tptm*) chi angles: 185.2,67,180,292.9 | 0.082Å | - | - |
| 182 | | GLU | 41.77 | 0.426Å HG3 with 178 SER O | Favored (85.03%) General / -59.7,-47.6 | 98.9% (*mt-10*) chi angles: 293,179.9,357.5 | 0.078Å | - | - |
| 183 | | ARG | 192.05 | 0.504Å HG3 with 183 ARG O | Allowed (1.33%) General / -98.4,59.6 | 8% (*ptm-85*) chi angles: 58.8,185.8,296.8,268.7 | 0.08Å | - | - |
| 184 | | ALA | 66.36 | - | Favored (71.75%) General / -63.0,-50.2 | - | 0.091Å | - | - |
| 185 | | THR | 254.91 | - | Favored (10.29%) General / -155.0,131.2 | 71.5% (*p*) chi angles: 63.9 | 0.102Å | - | - |
| 186 | | GLU | 107.08 | 0.656Å O with 189 VAL HG12 | Favored (45.04%) General / -79.0,-32.1 | 26.3% (*mp0*) chi angles: 293.7,74.9,37.6 | 0.099Å | - | - |
| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |
| 187 | | LYS | 53.31 | - | Favored (81.6%) General / -58.8,-39.6 | 81.3% (*tttt*) chi angles: 185.1,165.7,175.5,172.1 | 0.053Å | - | - |
| 188 | | ARG | 84.12 | - | Favored (81.68%) General / -58.3,-48.1 | 40.1% (*mmt180*) chi angles: 296.8,284.9,177.3,189 | 0.079Å | - | - |
| | | | | 0.656Å | Favored | | | | |

| 189 | VAL | 82.48 | HG12 with 186 GLU O | (97.83%) Isoleucine or valine / -63.8,-43.1 | 7.1% (*p*) chi angles: 58.2 | 0.056Å | - | - |
|---|---|---|---|---|---|---|---|---|
| 190 | LYS | 116.9 | 0.563Å N with 189 VAL HG13 | Favored (97.2%) General / -61.0,-44.5 | 11.3% (*ttmm*) chi angles: 177.3,170.8,262.1,289.5 | 0.106Å | - | - |
| 191 | ASP | 39.9 | - | Favored (87.7%) General / -60.9,-47.1 | 89.2% (*m-20*) chi angles: 294.7,342.9 | 0.138Å | - | - |
| 192 | THR | 101.39 | - | Favored (90.6%) General / -64.4,-44.7 | 69.9% (*p*) chi angles: 64.2 | 0.076Å | - | - |
| 193 | GLU | 87.8 | 0.626Å HG3 with 194 SER N | Favored (90.1%) General / -60.8,-46.5 | 20.7% (*pt-20*) chi angles: 63.5,168.2,21.1 | 0.098Å | - | - |
| 194 | SER | 82.06 | 0.626Å N with 193 GLU HG3 | Favored (96.21%) General / -64.0,-43.3 | 60.7% (*p*) chi angles: 72.5 | 0.117Å | - | - |
| 195 | GLU | 83.24 | - | Favored (70.95%) General / -59.9,-51.1 | 2.5% (*tp10*) chi angles: 179.8,92.3,272.6 | 0.156Å | - | - |
| 196 | LEU | 125.63 | 0.547Å C with 196 LEU HD13 | Favored (27.83%) General / -66.7,-54.0 | 3.3% (*tm?*) chi angles: 182.1,286.5 | 0.033Å | - | - |
| 197 | PHE | 78.73 | - | Favored (64.82%) General / -70.1,-46.5 | 2.4% (*t80*) chi angles: 214.4,86.5 | 0.018Å | - | OUTLIER(S) worst is CA-CB-CG: 4.876 σ |
| 198 | ARG | 84.22 | - | Favored (94.91%) General / -65.0,-42.0 | 75.5% (*ttt-85*) chi angles: 187.7,182.8,179.1,270.8 | 0.075Å | - | - |
| 199 | THR | 110.02 | 0.494Å HG22 with 196 LEU O | Favored (80.83%) General / -63.8,-35.5 | 14.6% (*t*) chi angles: 189.3 | 0.038Å | - | - |
| 200 | LYS | 191.33 | 0.615Å HE3 with 206 LEU HD12 | Allowed (1.96%) General / -57.4,-62.2 | 2.6% (*tppp?*) chi angles: 189.7,76.3,57.1,46.7 | 0.119Å | - | - |

| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|---|-----|-----|--------|--------------|--------------|---------|--------------|--------------|-------------|
| 201 | | PHE | 147.37 | - | Favored (56.75%) General / -70.9,-47.9 | 52.7% (*p90*) chi angles: 59.7,269.5 | 0.192Å | - | - |
| 202 | | SER | 100.99 | - | Favored (7.58%) General / -63.7,166.0 | 96.7% (*p*) chi angles: 63.9 | 0.115Å | - | - |
| 203 | | LEU | 214.3 | 0.624Å H with 203 LEU HD12 | Allowed (0.69%) General / -70.2,91.1 | 2.7% (*mp*) chi angles: 303.3,69.5 | 0.228Å | - | OUTLIER(S) worst is C-N-CA: 4.055 σ |
| 204 | | GLN | 243.53 | 0.485Å OE1 with 205 LYS HG3 | Allowed (0.15%) General / -136.0,-134.3 | 1.5% (*tm0?*) chi angles: 211.9,285.3,293.5 | 0.094Å | - | - |
| 205 | | LYS | 124.16 | 0.485Å HG3 with 204 GLN OE1 | Favored (7.84%) General / -62.3,-58.4 | 83.5% (*mttt*) chi angles: 281.3,179.6,170.3,190.4 | 0.171Å | - | - |
| 206 | | LEU | 120.52 | 0.647Å HA with 209 ILE HG22 | Favored (61.68%) General / -72.1,-45.2 | 35.1% (*mt*) chi angles: 295.1,189.2 | 0.124Å | - | - |
| # | Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | | Avg: 103.07 | Clashscore: 74.93 | Outliers: 0 of 103 | Poor rotamers: 5 of 99 | Outliers: 0 of 105 | Outliers: 0 of 105 | Outliers: 11 of 105 |
| 207 | | LYS | 78.73 | - | Favored (92.42%) General / -63.9,-38.8 | 50% (*tptt*) chi angles: 192.4,63.2,183.8,177.5 | 0.11Å | - | - |
| 208 | | GLU | 85.9 | - | Favored (77.88%) General / -61.5,-49.2 | 33.2% (*tt0*) chi angles: 169.8,189.3,321 | 0.16Å | - | - |
| 209 | | ILE | 81.24 | 0.647Å HG22 with 206 LEU HA | Favored (93.54%) Isoleucine or valine / -65.5,-42.7 | 20.8% (*tt*) chi angles: 189.8,166.9 | 0.071Å | - | - |
| 210 | | SER | 27.45 | 0.563Å N with 209 ILE HG23 | Favored (5.45%) General / -57.3,-59.2 | 42.9% (*t*) chi angles: 181 | 0.082Å | - | - |
| 211 | | GLU | 52.65 | - | - | 50.9% (*mp0*) chi angles: 286,75,13.3 | 0.094Å | - | - |