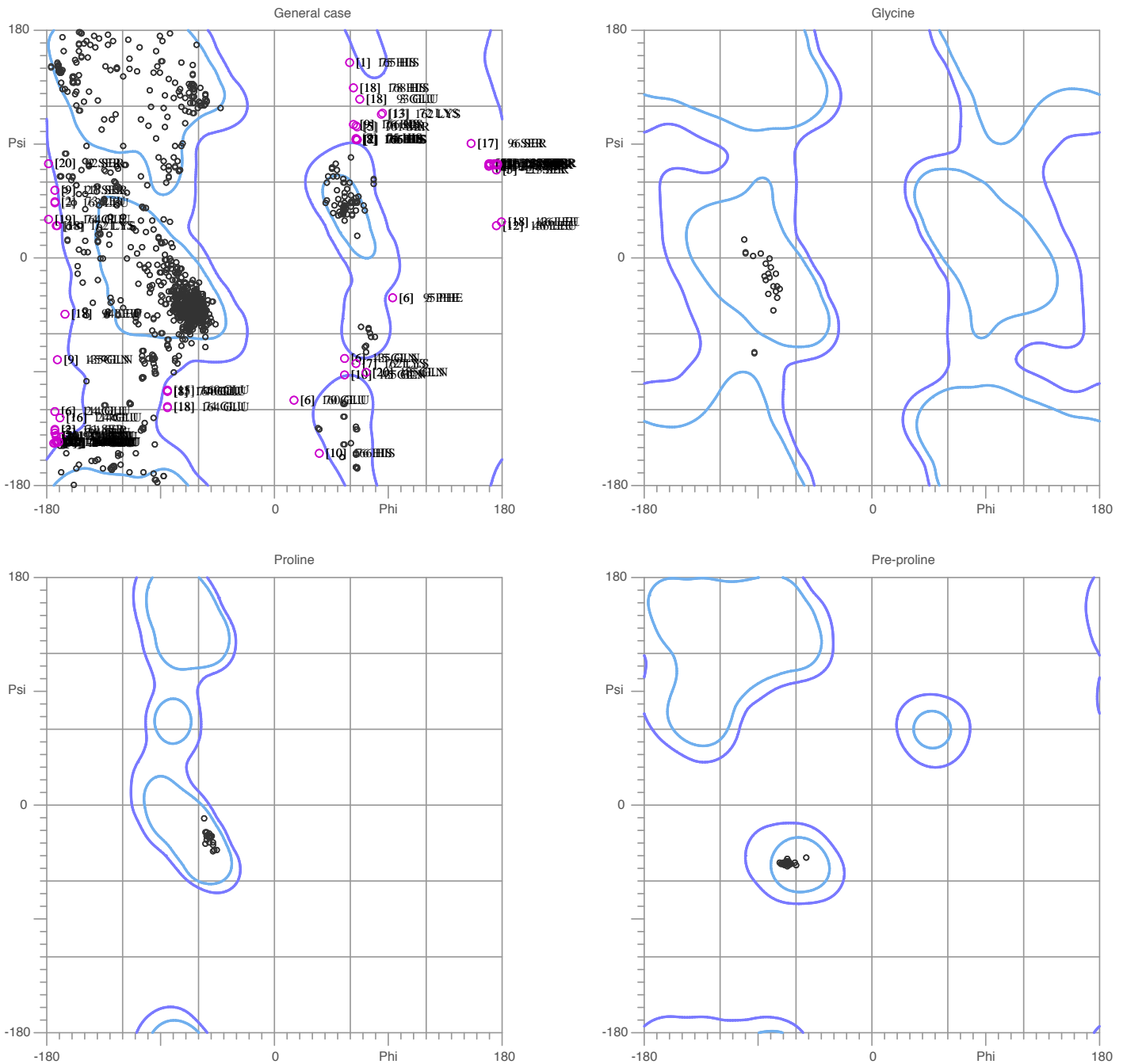


# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, all models



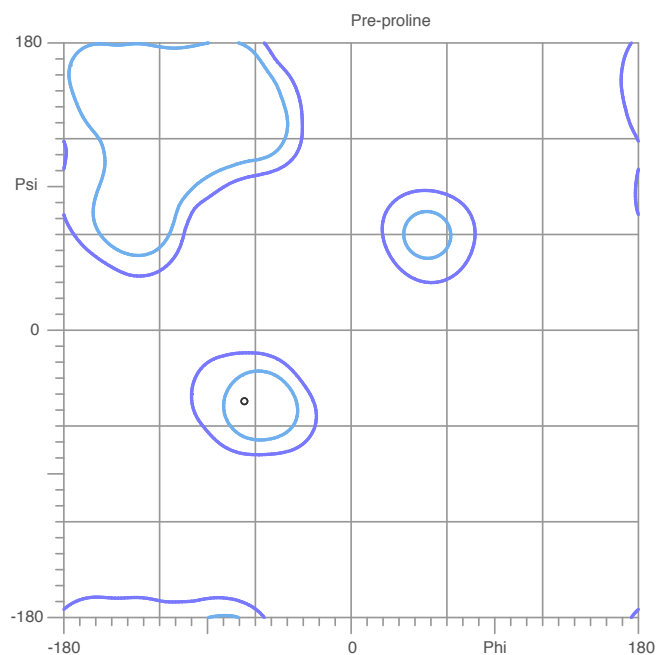
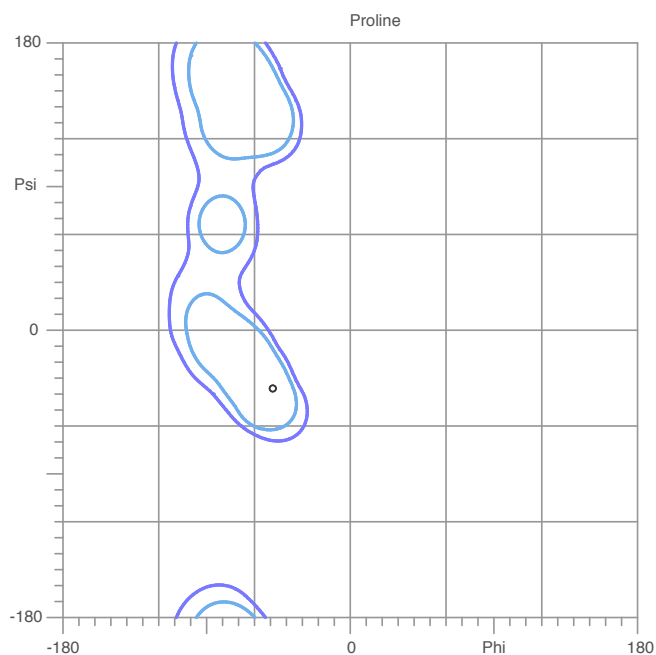
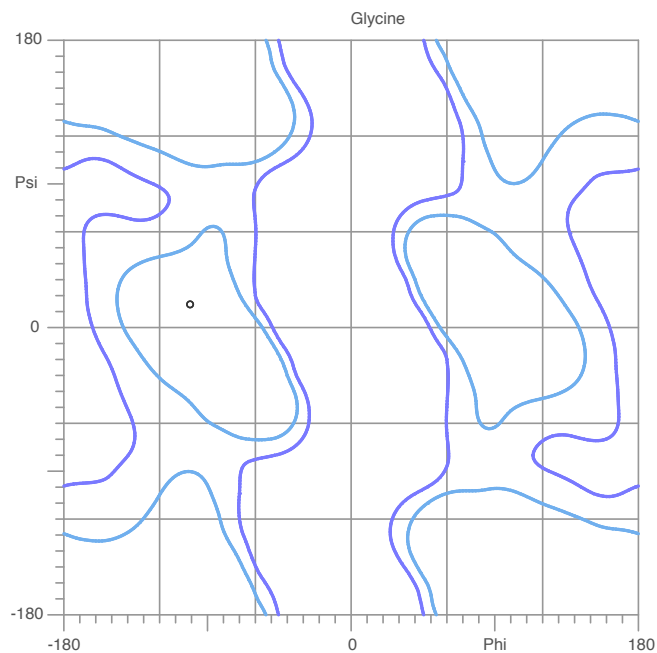
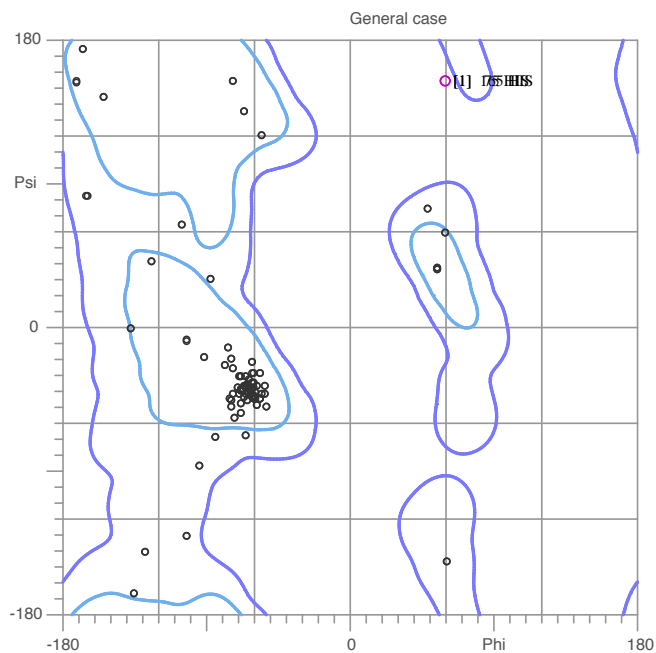
46 762 (100%) of all residues were in allowed (99.9%) regions.  
No 0 (0%) of all residues were in disallowed (0.0%) regions.

Here are the outliers (psi, phi):

[11] 1765HIS	[11] 1765HIS
[18] 1788HIS	[18] 1788HIS
[18] 98GLIU	[18] 98GLIU
[13] 1782LYS	[13] 1782LYS
[20] 92SER	[20] 92SER
[19] 1784GLU	[19] 1784GLU
[18] 98HIS	[18] 98HIS
[9] 1455GLIN	[9] 1455GLIN
[6] 1764GLIU	[6] 1764GLIU
[16] 1764GLIU	[16] 1764GLIU
[18] 1764GLIU	[18] 1764GLIU
[6] 1760GLIU	[6] 1760GLIU
[10] 676HIS	[10] 676HIS
[17] 96SER	[17] 96SER
[17] 1765SER	[17] 1765SER
[18] 1806GLIU	[18] 1806GLIU
[6] 95HHE	[6] 95HHE
[9] 1455GLIN	[9] 1455GLIN
[17] 1762LYS	[17] 1762LYS
[10] 1405GLIN	[10] 1405GLIN

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 1



83.3% (130/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

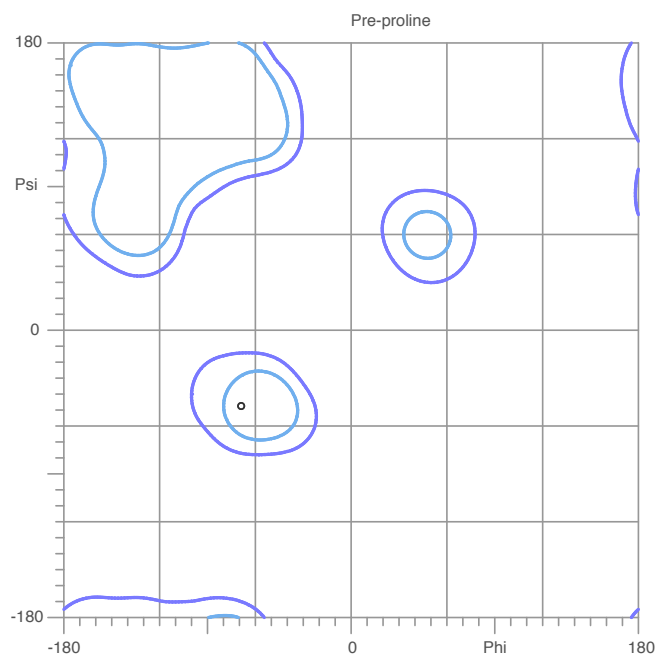
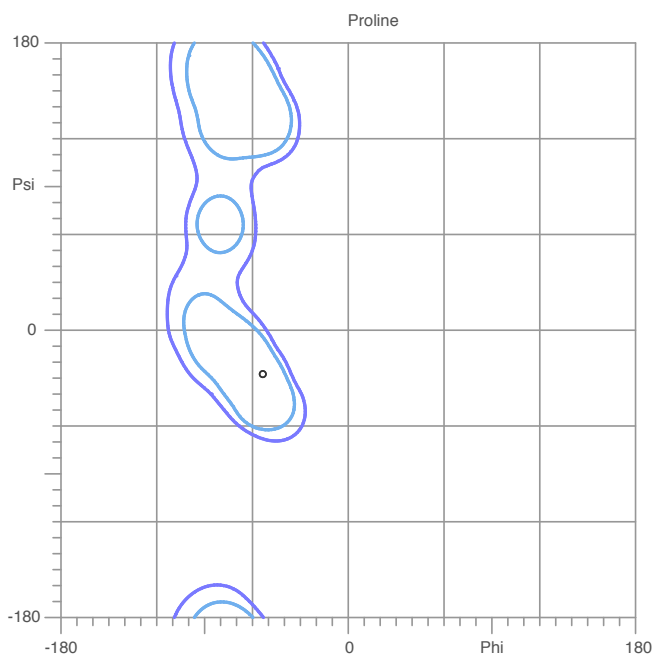
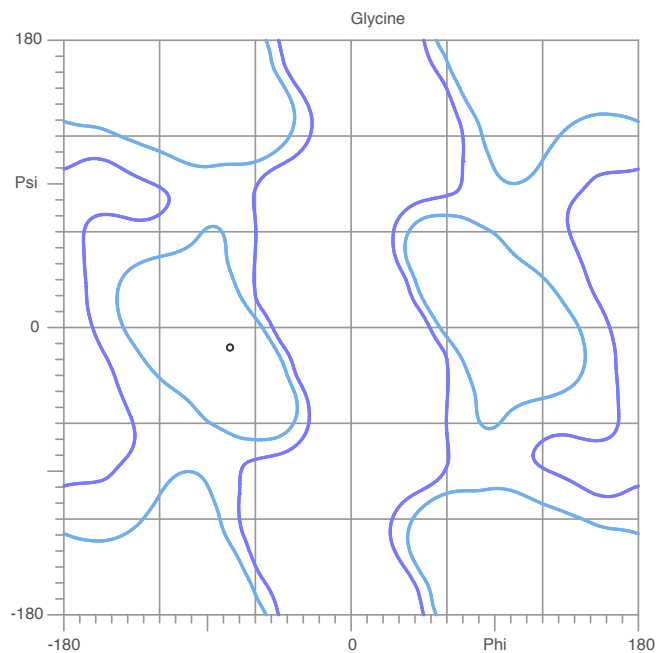
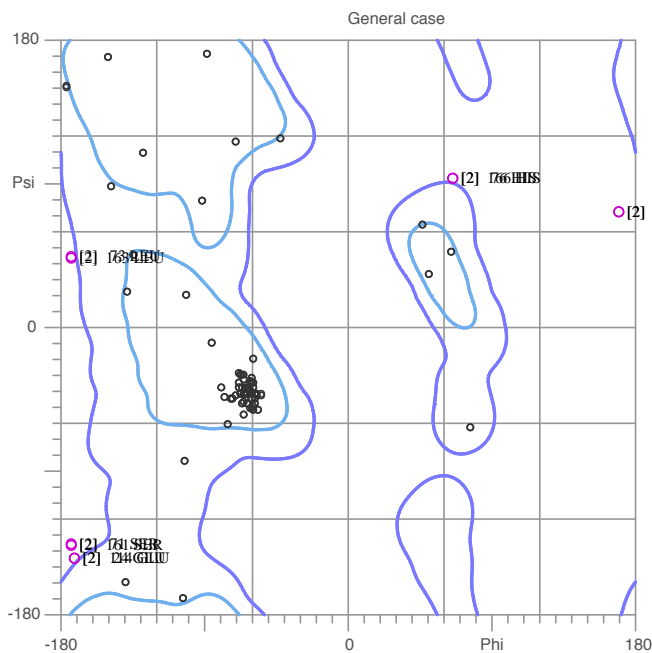
There were 2 outliers (phi, psi):

[1] 75 HIS (59.0, 155.0)

[1] 165 HIS (59.1, 155.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 2



84.6% (132/156) of all residues were in favored (98%) regions.  
93.6% (146/156) of all residues were in allowed (>99.8%) regions.

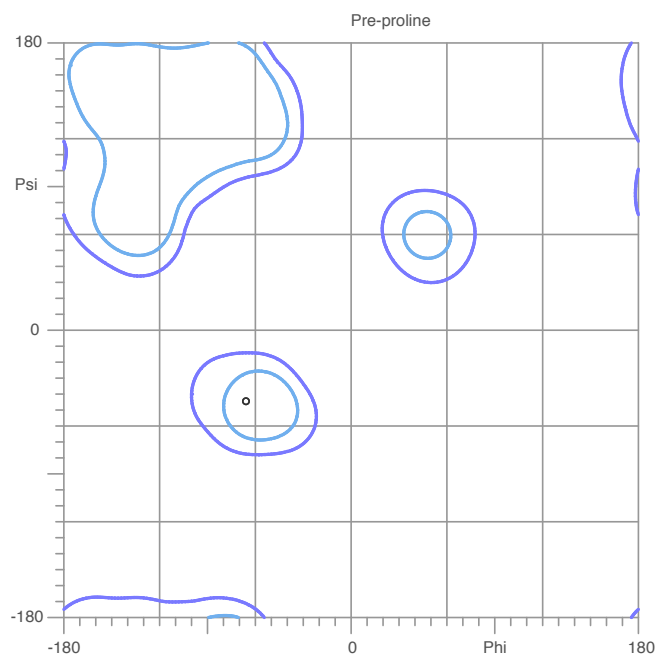
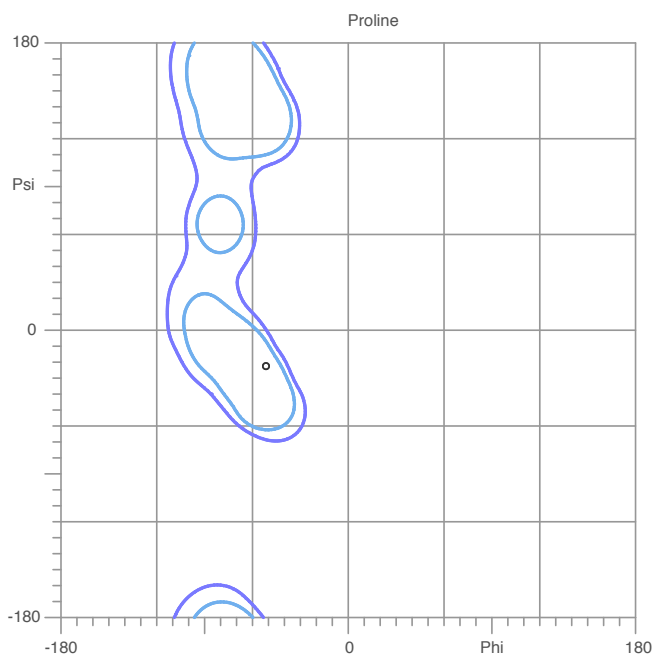
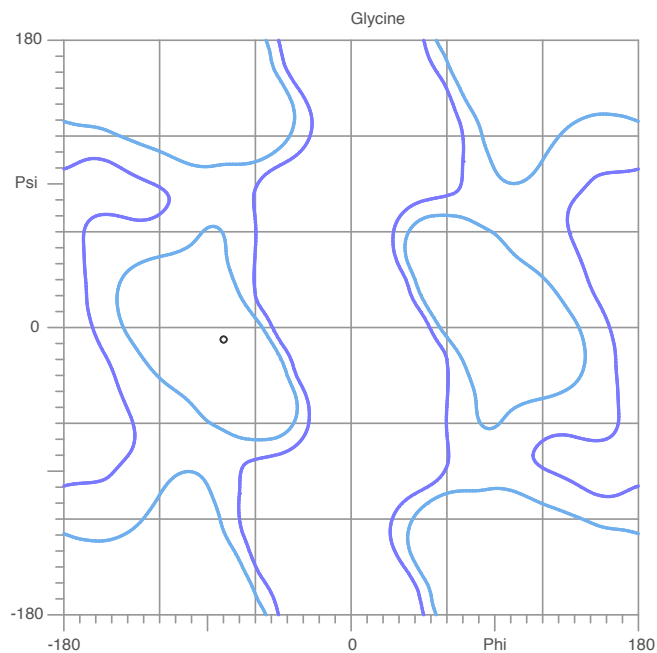
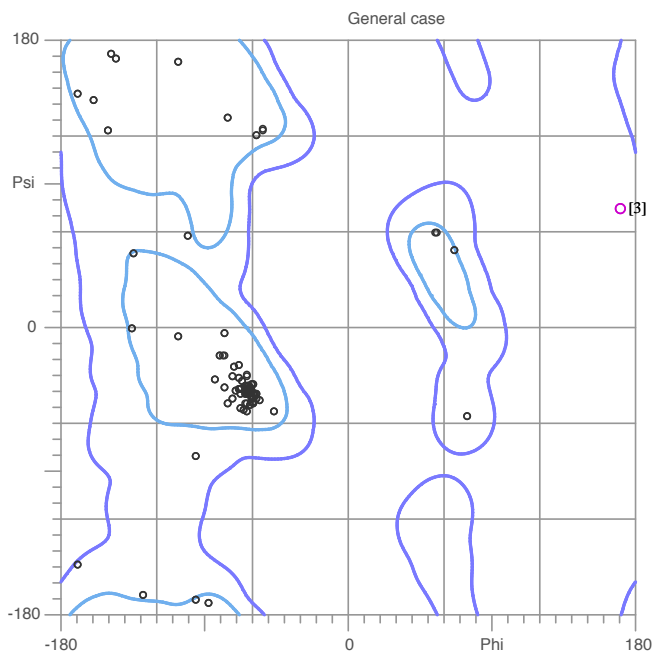
There were 10 outliers (phi, psi):

- [2] 23 SER (169.6, 73.6)
- [2] 24 GLU (-172.5, -144.7)
- [2] 71 SER (-174.6, -136.0)

- [2] 73 LEU (-175.0, 45.0)
- [2] 76 HIS (65.0, 95.0)
- [2] 113 SER (169.6, 73.6)
- [2] 114 GLU (-172.4, -144.7)
- [2] 161 SER (-174.6, -136.0)
- [2] 163 LEU (-175.0, 45.0)
- [2] 166 HIS (65.0, 95.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 3



91.0% (142/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

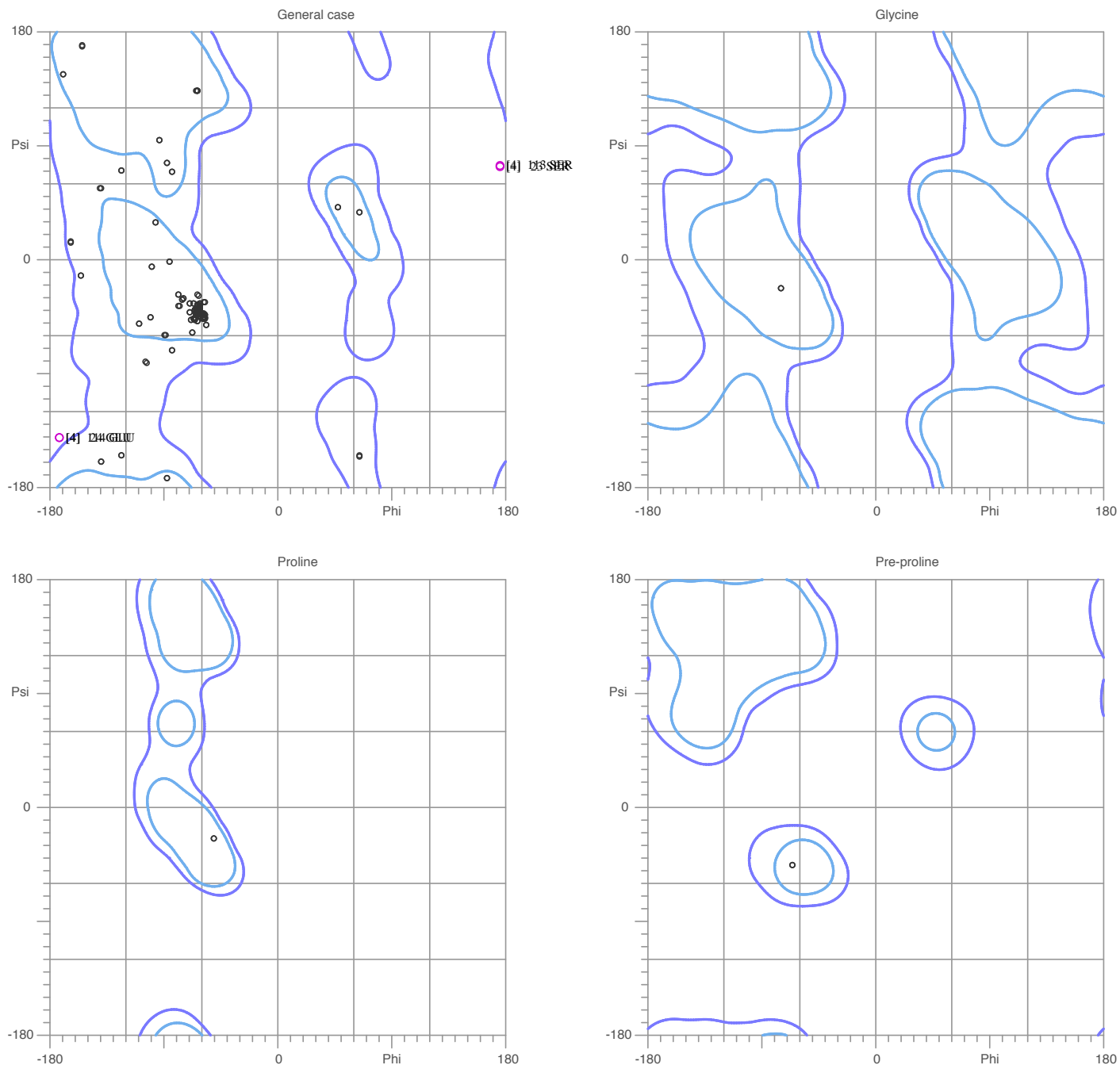
There were 2 outliers (phi, psi):

[3] 23 SER (170.5, 75.2)

[3] 113 SER (170.5, 75.2)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 4



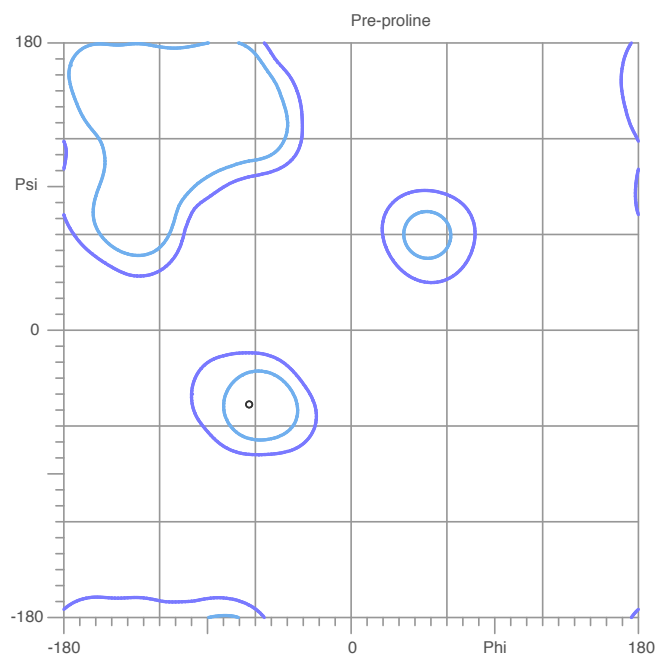
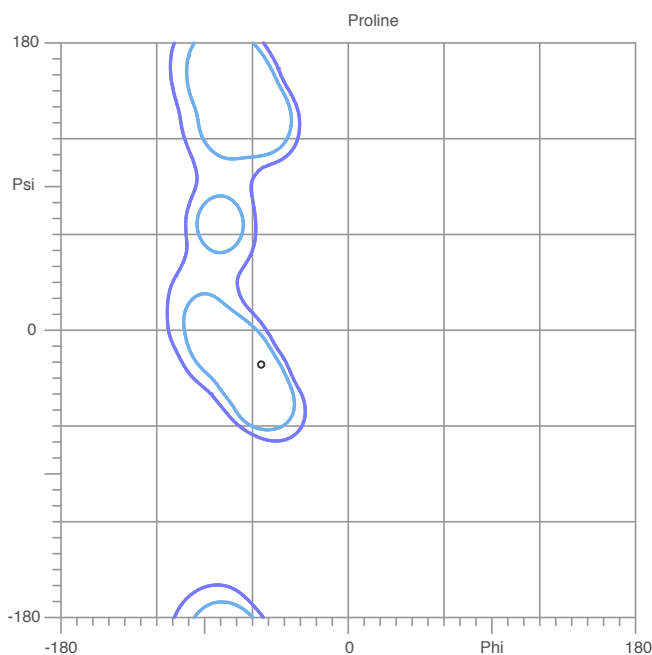
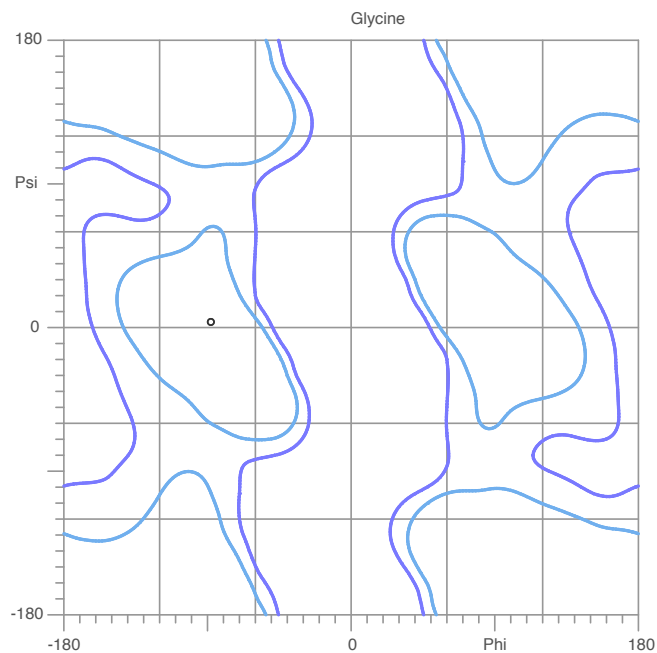
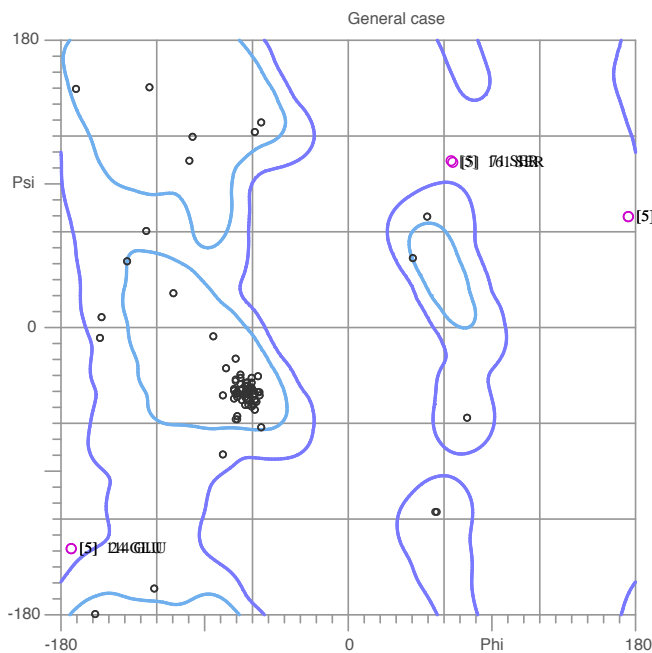
85.9% (134/156) of all residues were in favored (98%) regions.  
97.4% (152/156) of all residues were in allowed (>99.8%) regions.

There were 4 outliers (phi, psi):

- [4] 23 SER (175.8, 75.0)
- [4] 24 GLU (-173.2, -140.2)
- [4] 113 SER (175.8, 75.1)
- [4] 114 GLU (-173.2, -140.3)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 5



84.6% (132/156) of all residues were in favored (98%) regions.  
96.2% (150/156) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):

[5] 23 SER (175.0, 70.2)

[5] 24 GLU (-175.0, -138.6)

[5] 71 SER (65.0, 105.0)

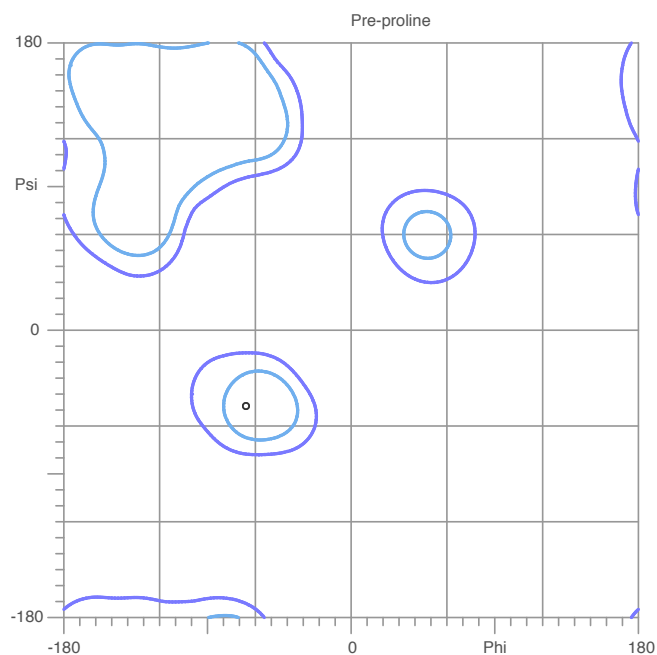
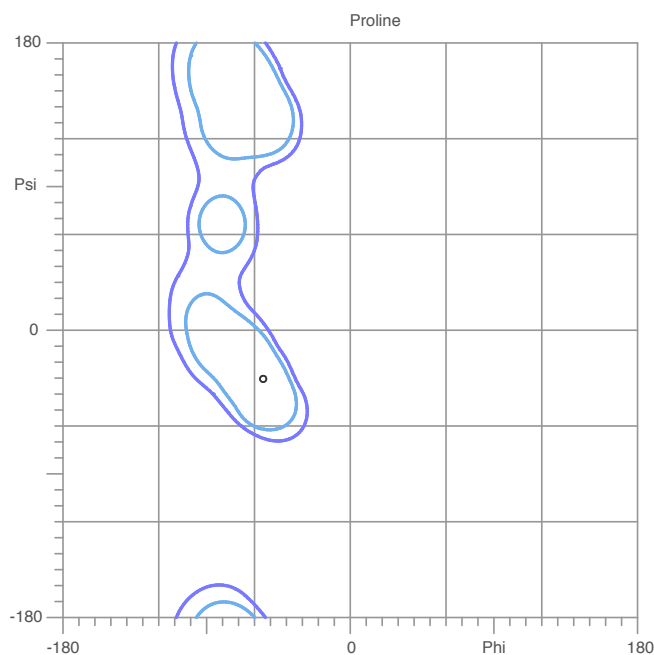
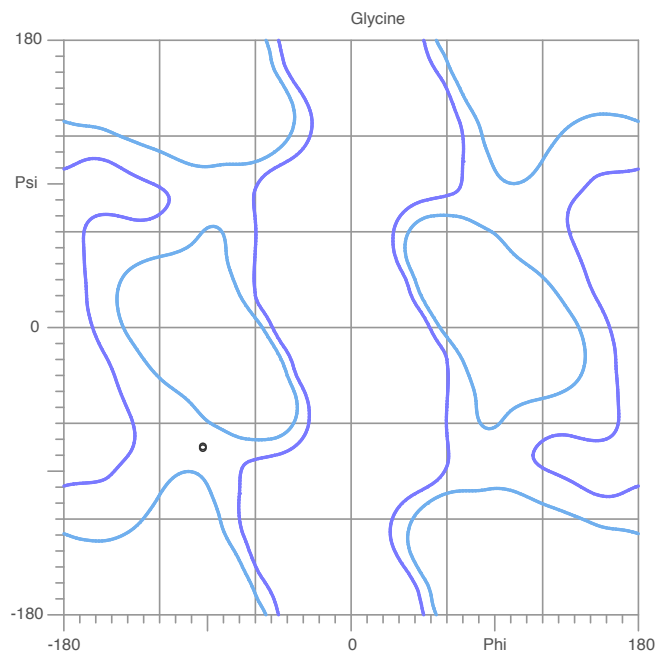
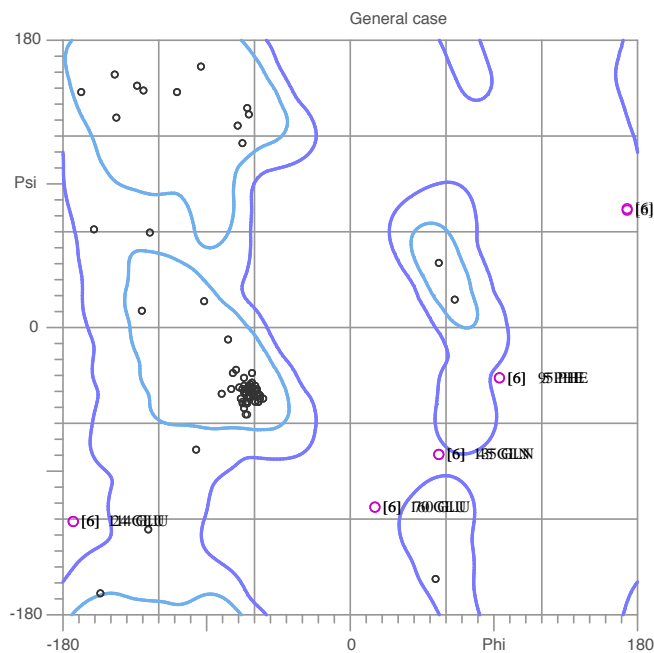
[5] 113 SER (175.0, 70.2)

[5] 114 GLU (-175.0, -138.6)

[5] 161 SER (65.0, 105.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 6



84.6% (132/156) of all residues were in favored (98%) regions.  
93.6% (146/156) of all residues were in allowed (>99.8%) regions.

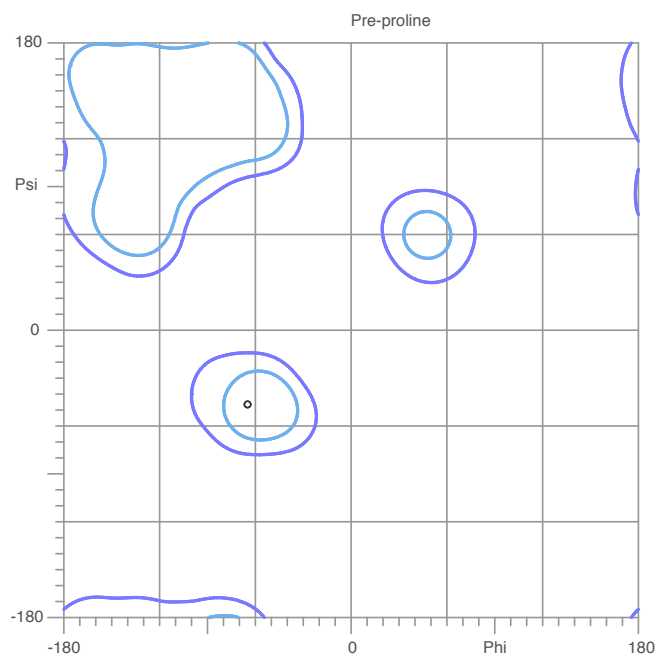
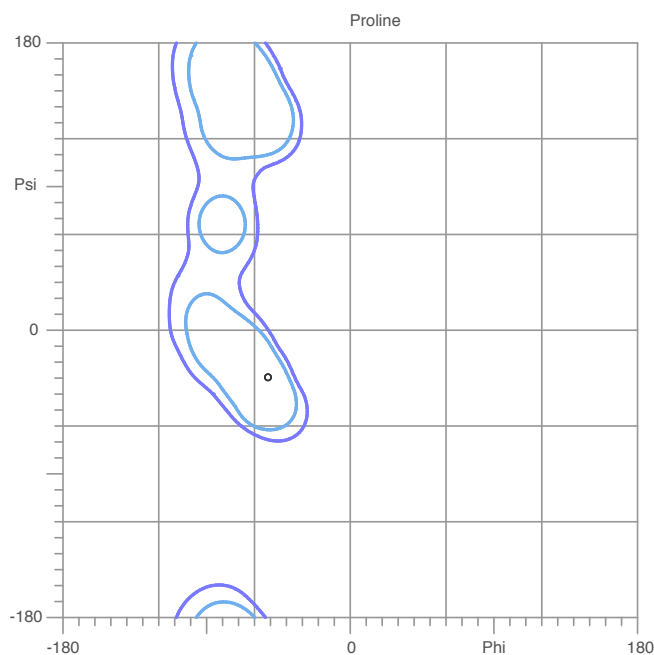
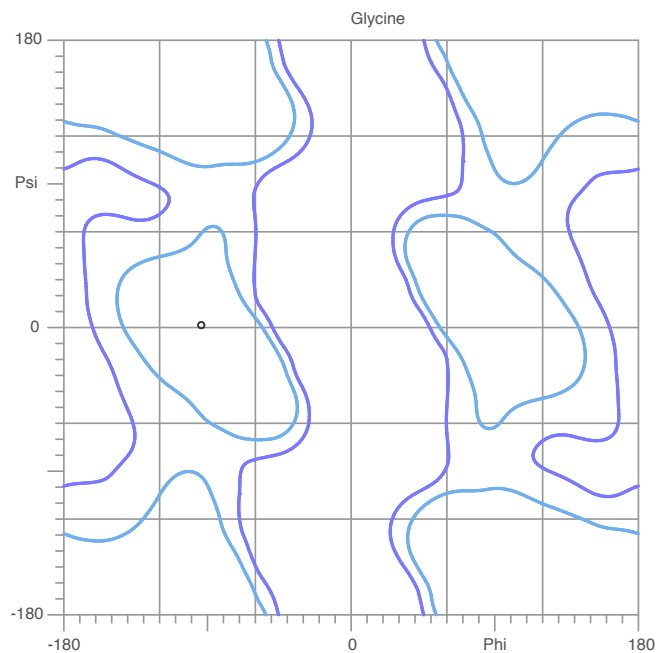
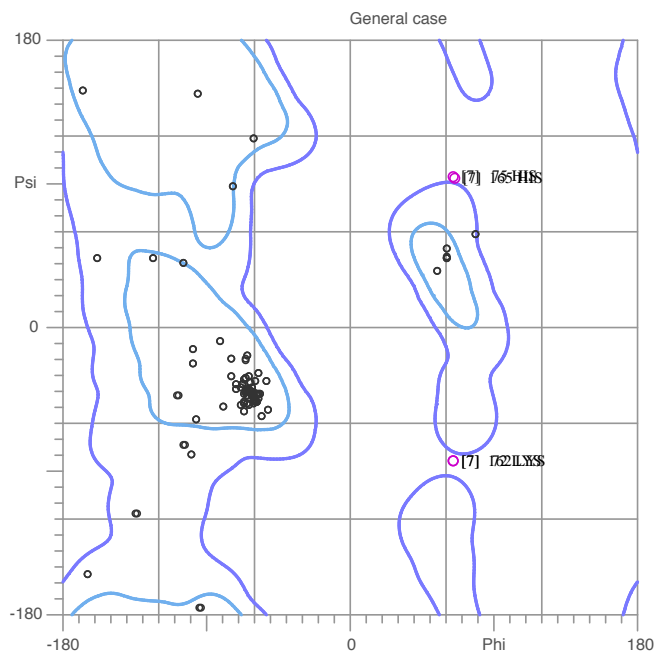
There were 10 outliers (phi, psi):

- [6] 5 PHE (93.5, -31.4)
- [6] 23 SER (173.6, 75.0)
- [6] 24 GLU (-174.0, -121.3)

- [6] 45 GLN (55.1, -79.5)
- [6] 70 GLU (15.5, -112.8)
- [6] 95 PHE (93.4, -31.4)
- [6] 113 SER (173.7, 75.0)
- [6] 114 GLU (-174.0, -121.3)
- [6] 135 GLN (55.0, -79.5)
- [6] 160 GLU (15.6, -112.8)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 7



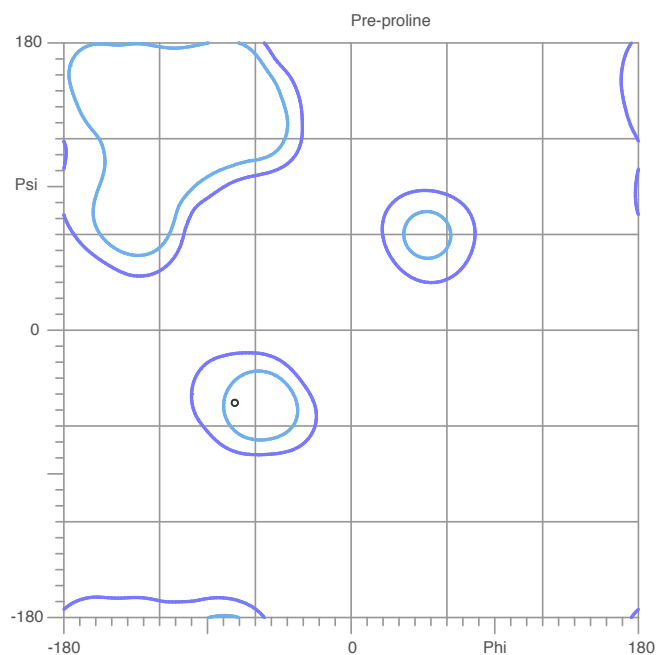
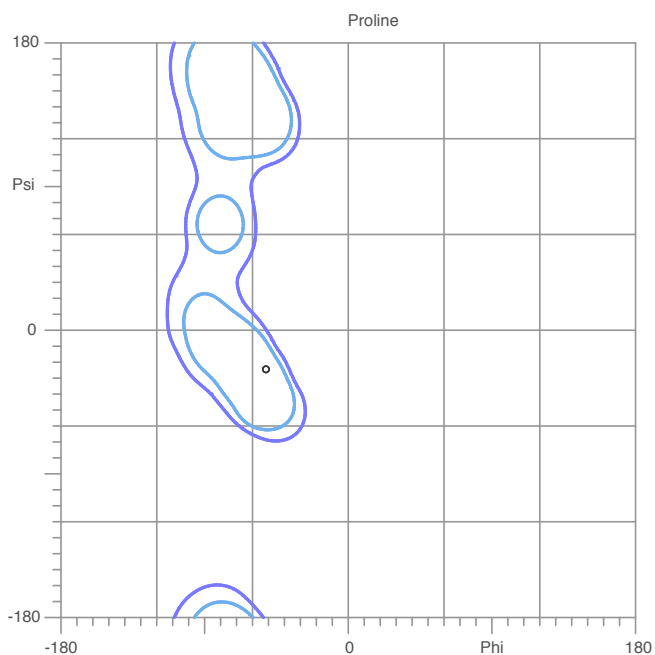
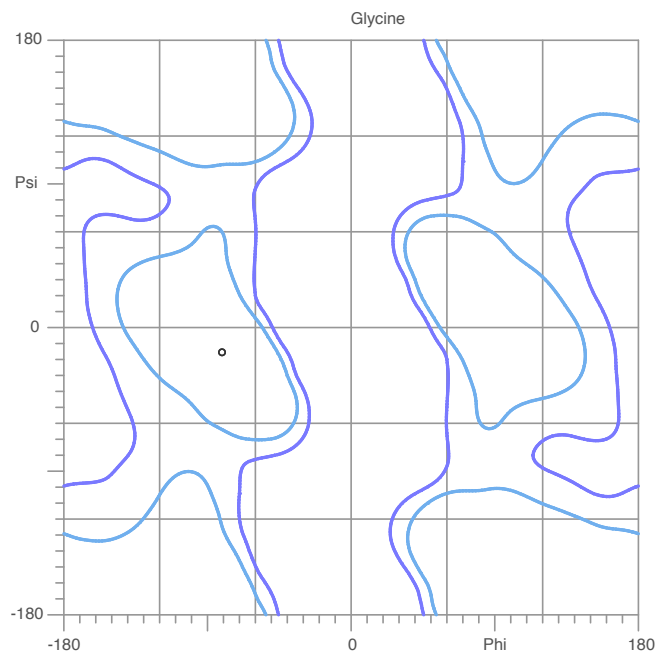
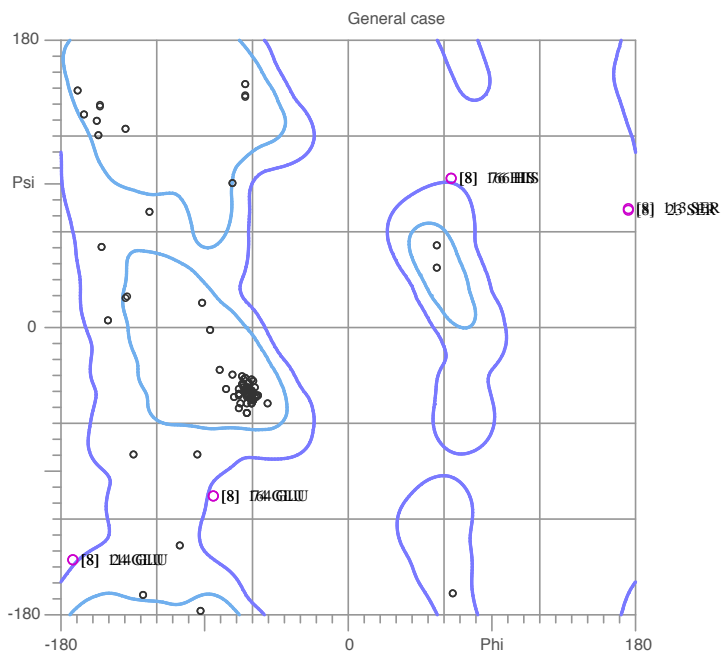
88.5% (138/156) of all residues were in favored (98%) regions.  
97.4% (152/156) of all residues were in allowed (>99.8%) regions.

There were 4 outliers (phi, psi):

- [7] 72 LYS (64.1, -83.2)
- [7] 75 HIS (65.0, 95.0)
- [7] 162 LYS (64.2, -83.2)
- [7] 165 HIS (65.0, 95.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 8



84.6% (132/156) of all residues were in favored (98%) regions.  
94.9% (148/156) of all residues were in allowed (>99.8%) regions.

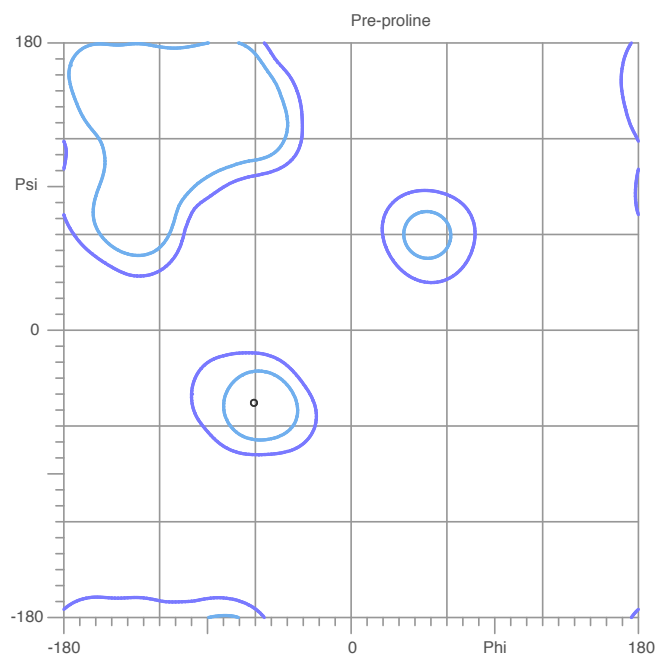
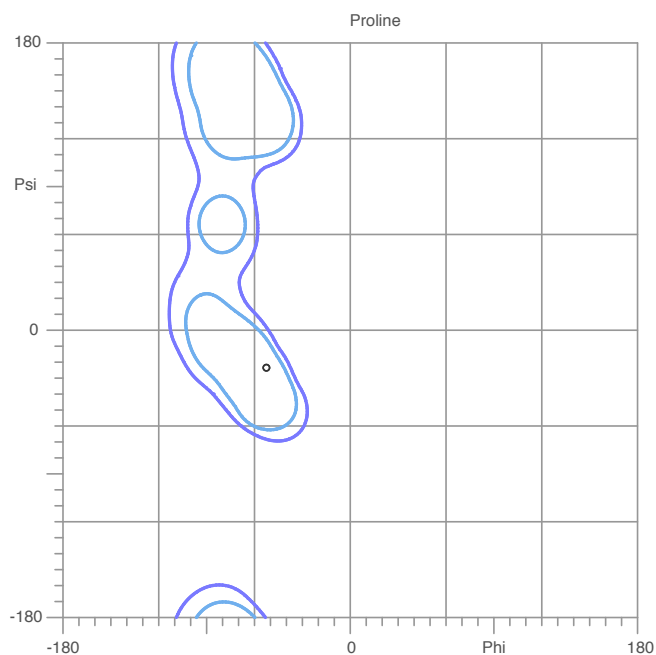
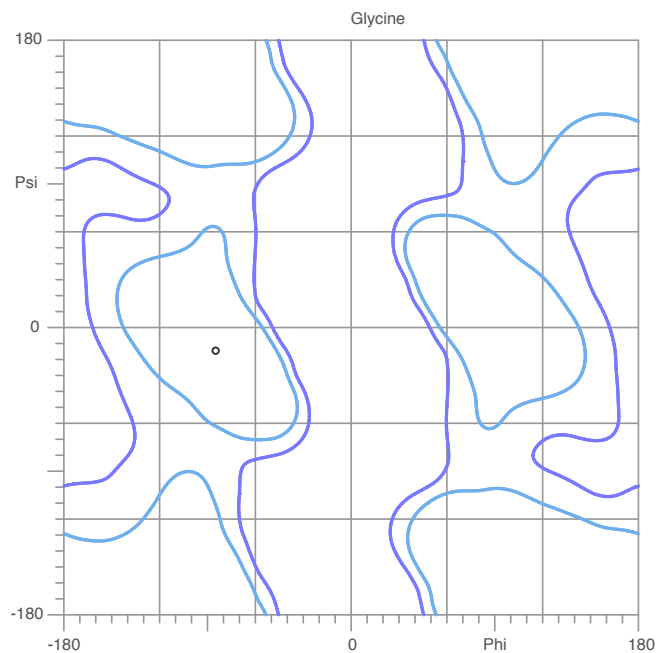
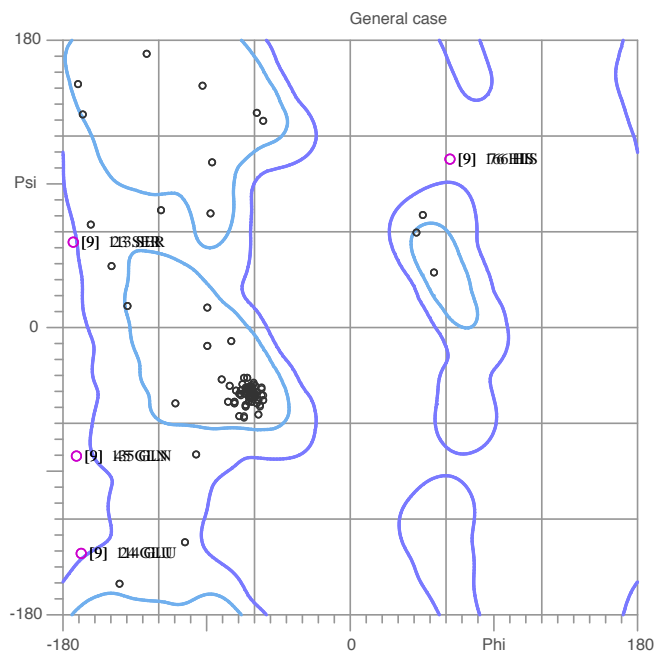
There were 8 outliers (phi, psi):

[8] 23 SER (175.0, 75.0)  
[8] 24 GLU (-173.3, -145.1)

[8] 74 GLU (-85.0, -105.0)  
[8] 76 HIS (65.0, 94.9)  
[8] 113 SER (175.1, 75.0)  
[8] 114 GLU (-173.3, -145.1)  
[8] 164 GLU (-85.1, -105.0)  
[8] 166 HIS (64.9, 94.9)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 9



85.9% (134/156) of all residues were in favored (98%) regions.  
94.9% (148/156) of all residues were in allowed (>99.8%) regions.

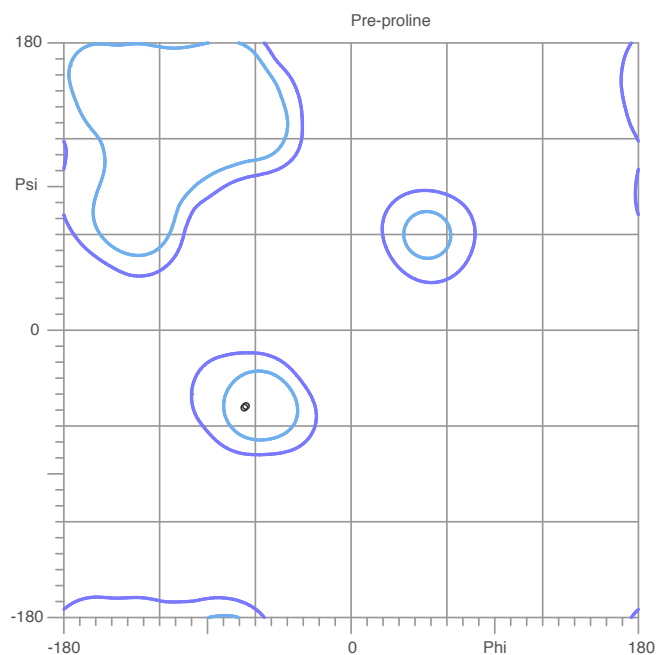
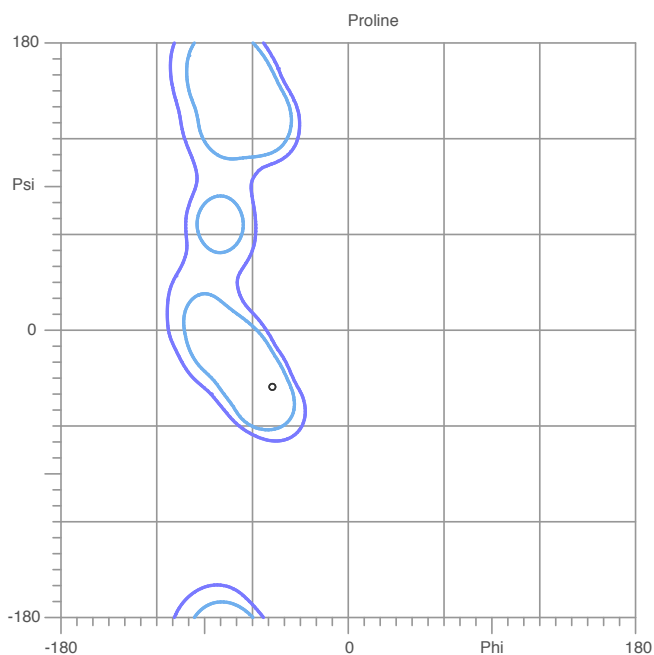
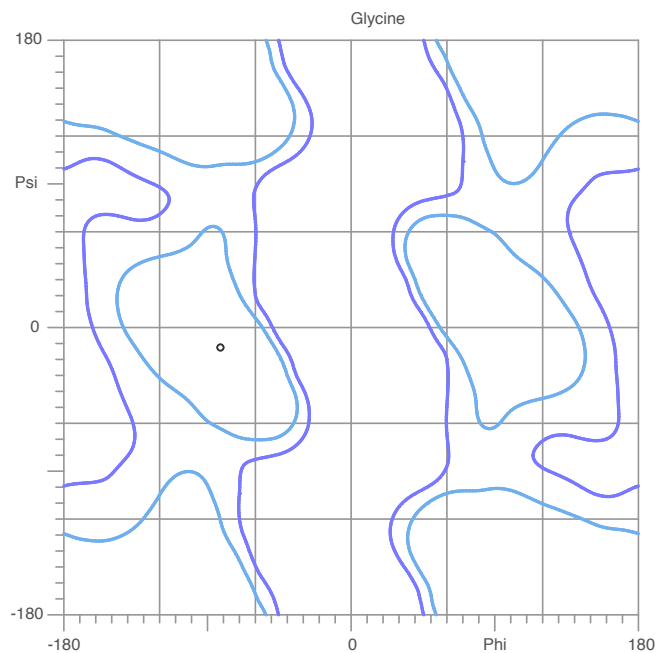
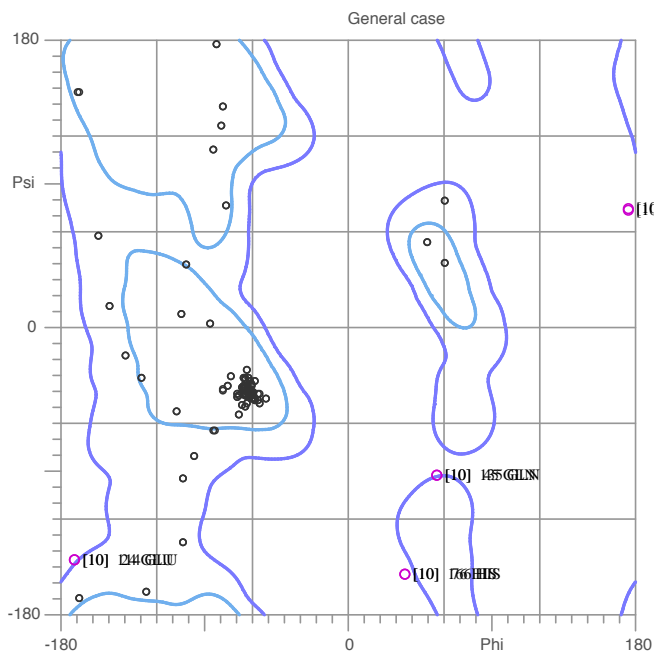
There were 8 outliers (phi, psi):

- [9] 23 SER (-174.9, 55.0)
- [9] 24 GLU (-169.9, -141.2)

- [9] 45 GLN (-172.3, -80.5)
- [9] 76 HIS (62.9, 106.3)
- [9] 113 SER (-175.0, 55.0)
- [9] 114 GLU (-170.0, -141.3)
- [9] 135 GLN (-172.3, -80.5)
- [9] 166 HIS (63.0, 106.3)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 10



80.8% (126/156) of all residues were in favored (98%) regions.  
94.9% (148/156) of all residues were in allowed (>99.8%) regions.

There were 8 outliers (phi, psi):

[10] 23 SER (175.3, 75.0)

[10] 24 GLU (-172.0, -145.3)

[10] 45 GLN (55.0, -92.8)

[10] 76 HIS (35.5, -154.9)

[10] 113 SER (175.2, 75.1)

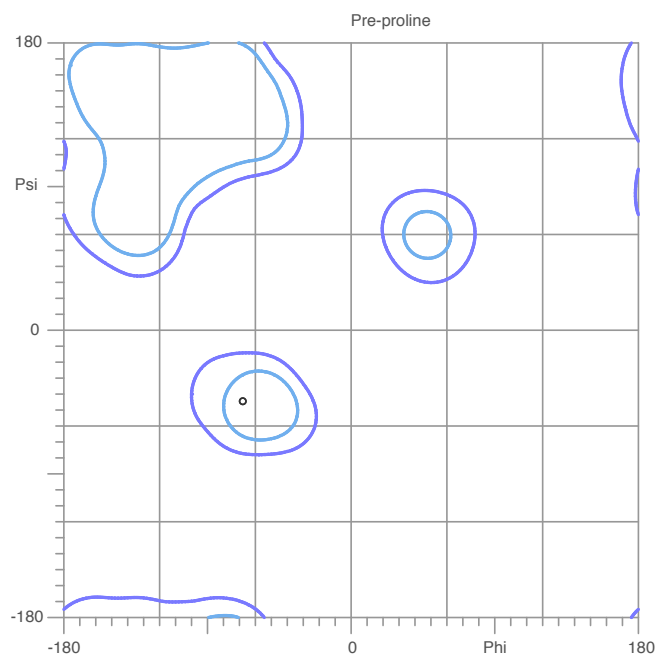
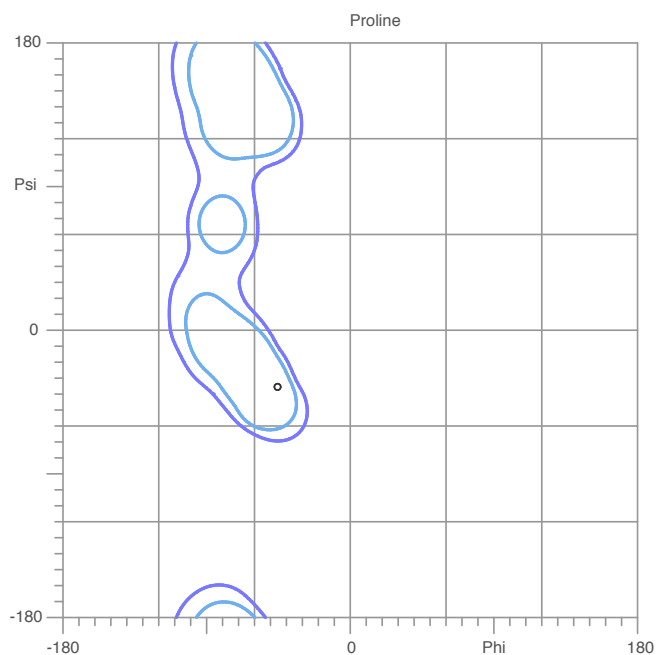
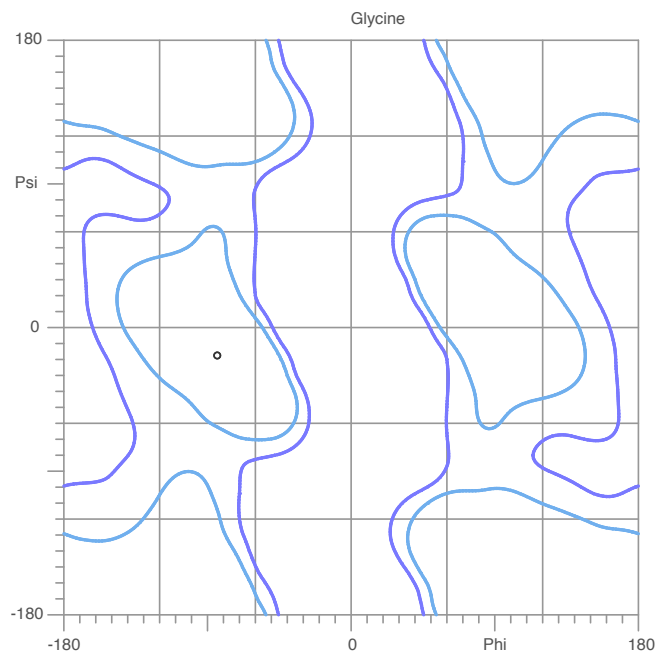
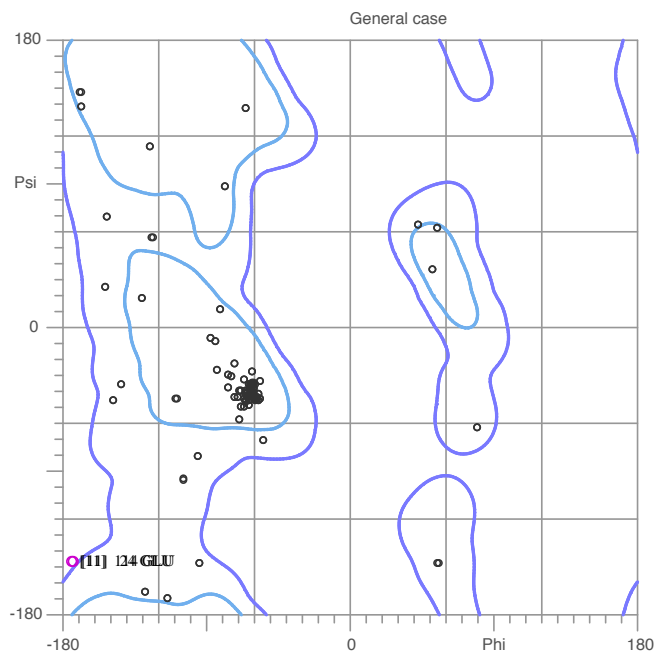
[10] 114 GLU (-172.0, -145.4)

[10] 135 GLN (55.0, -92.8)

[10] 166 HIS (35.5, -154.9)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 11



80.8% (126/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

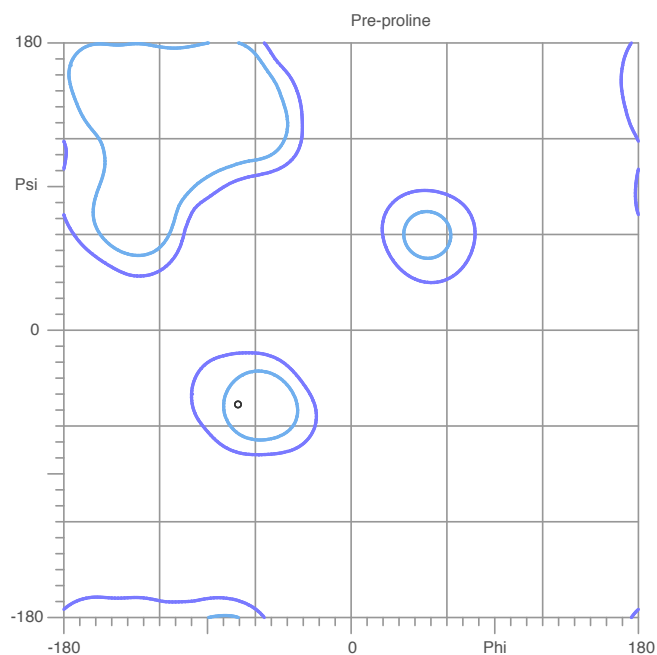
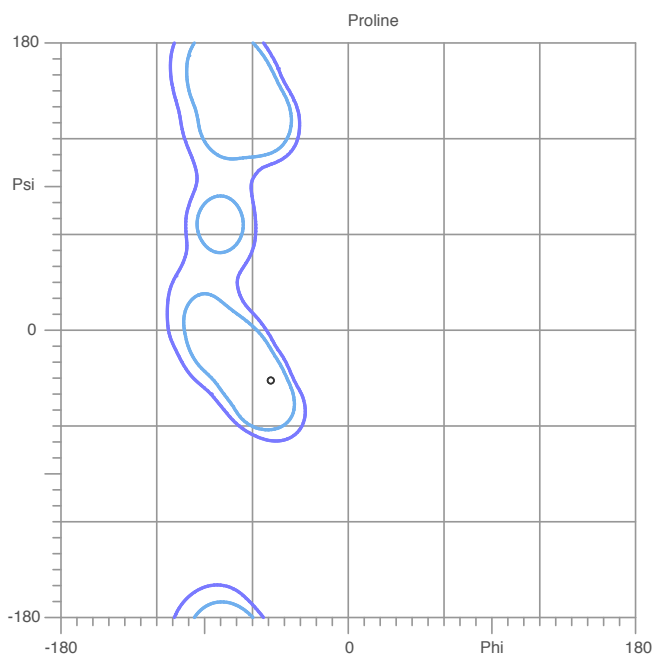
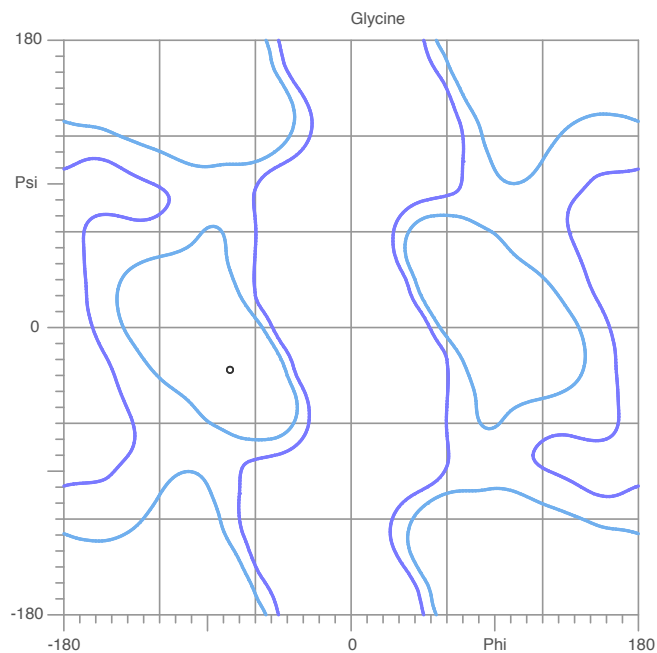
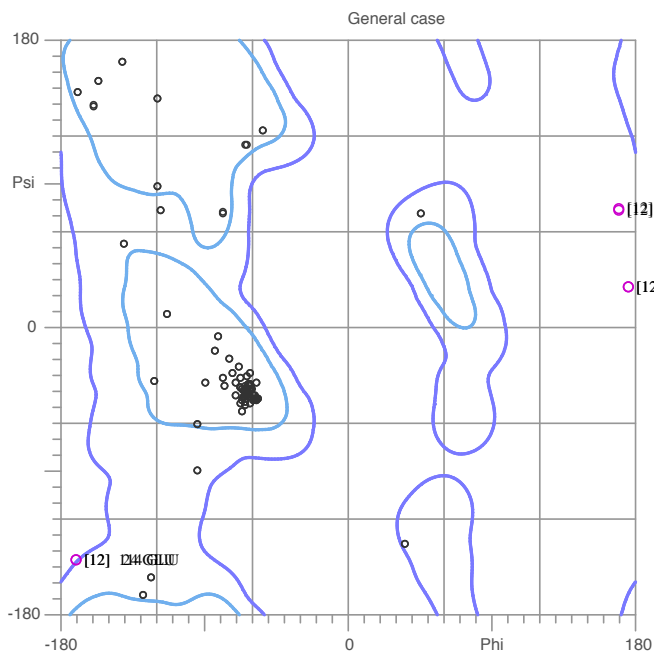
There were 2 outliers (phi, psi):

[11] 24 GLU (-175.0, -146.7)

[11] 114 GLU (-175.0, -146.8)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 12



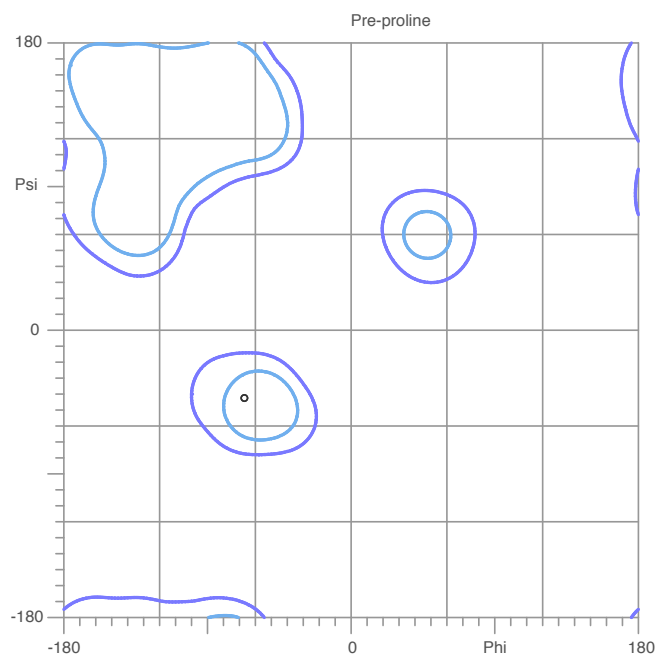
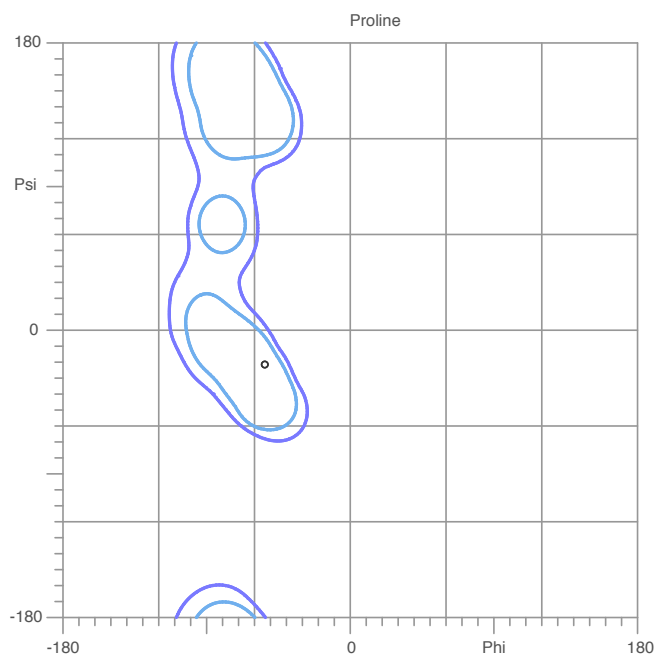
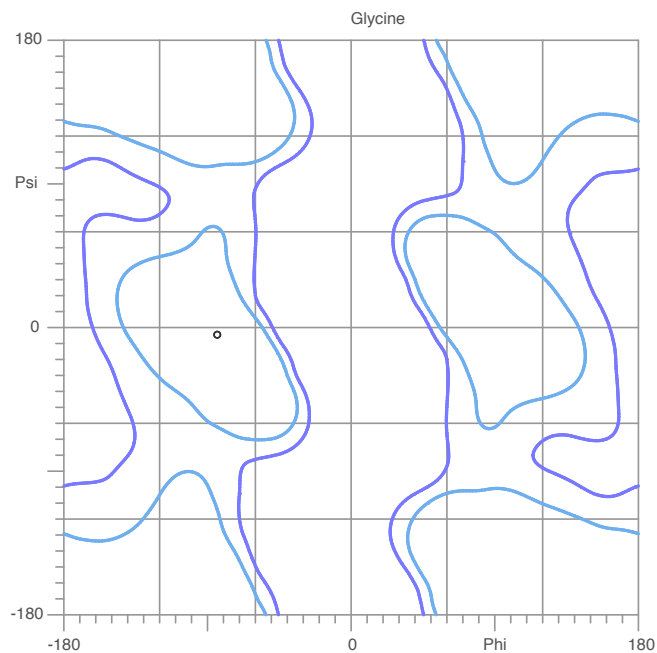
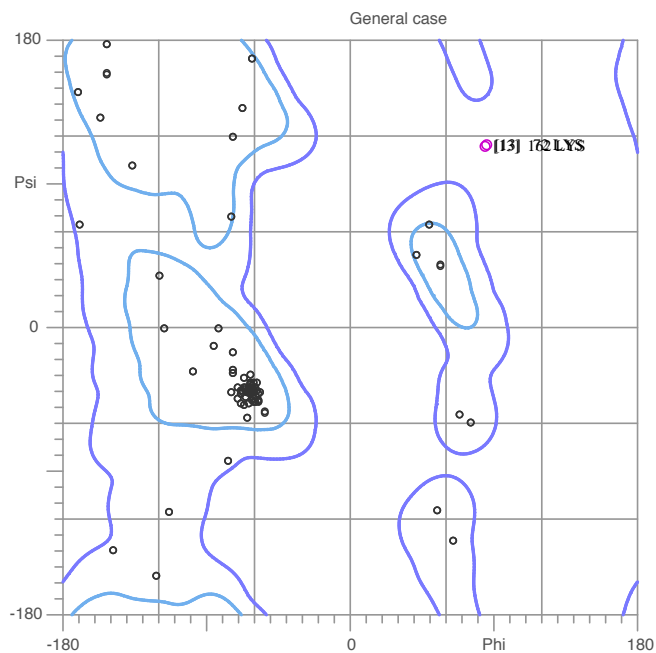
87.2% (136/156) of all residues were in favored (98%) regions.  
96.2% (150/156) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):  
[12] 23 SER (169.9, 75.0)

[12] 24 GLU (-171.6, -145.0)  
[12] 46 LEU (175.1, 26.5)  
[12] 113 SER (170.0, 75.0)  
[12] 114 GLU (-171.6, -145.0)  
[12] 136 LEU (175.1, 26.5)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 13

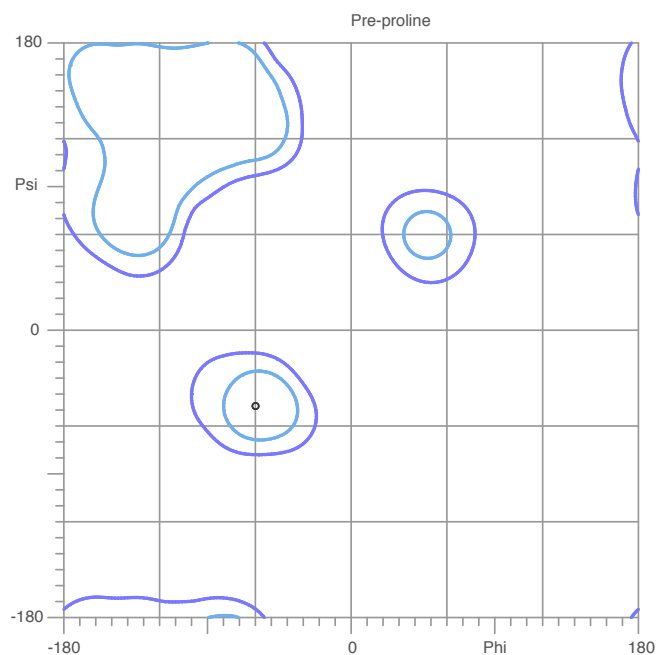
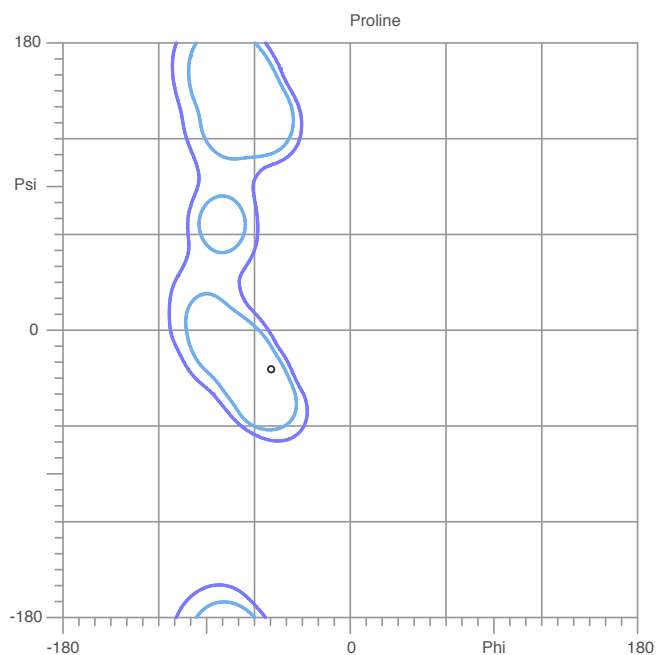
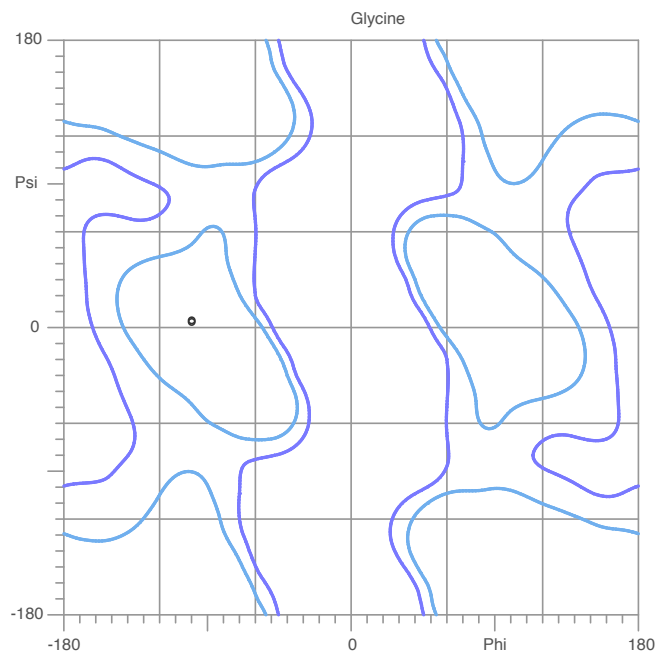
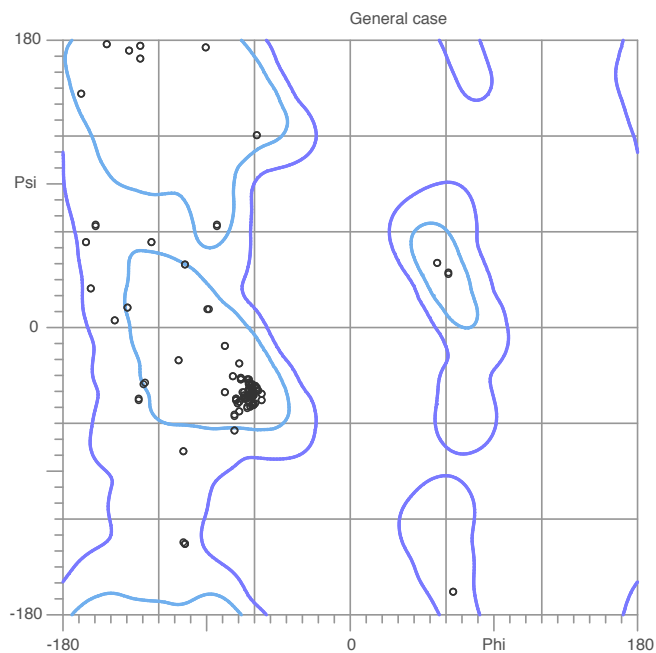


85.9% (134/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

There were 2 outliers (phi, psi):  
[13] 72 LYS (85.0, 115.1)  
[13] 162 LYS (85.0, 115.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 14



84.6% (132/156) of all residues were in favored (98%) regions.  
100.0% (156/156) of all residues were in allowed (>99.8%) regions.

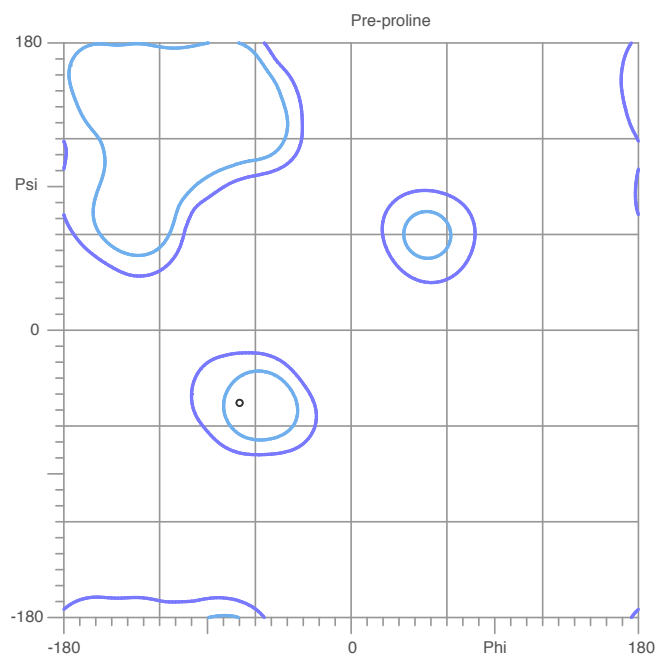
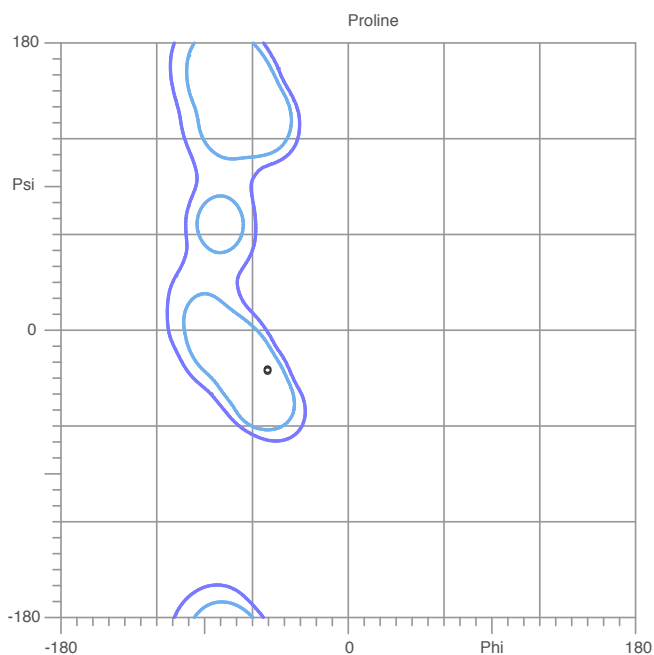
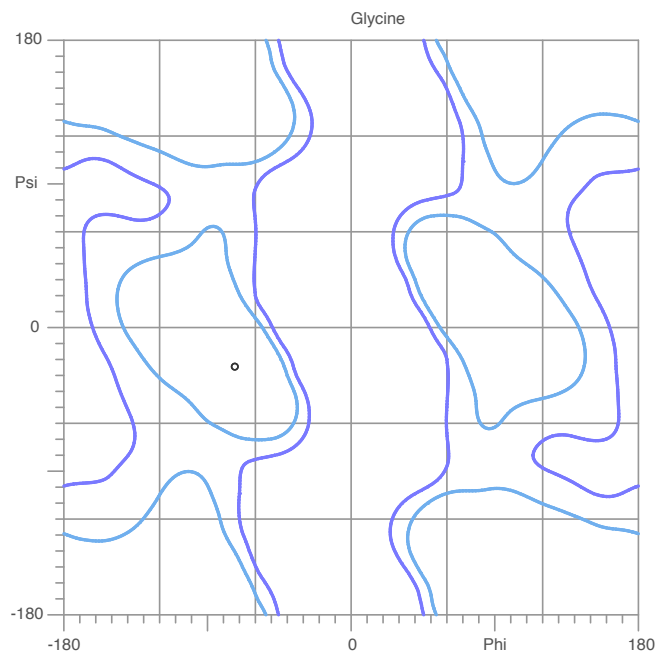
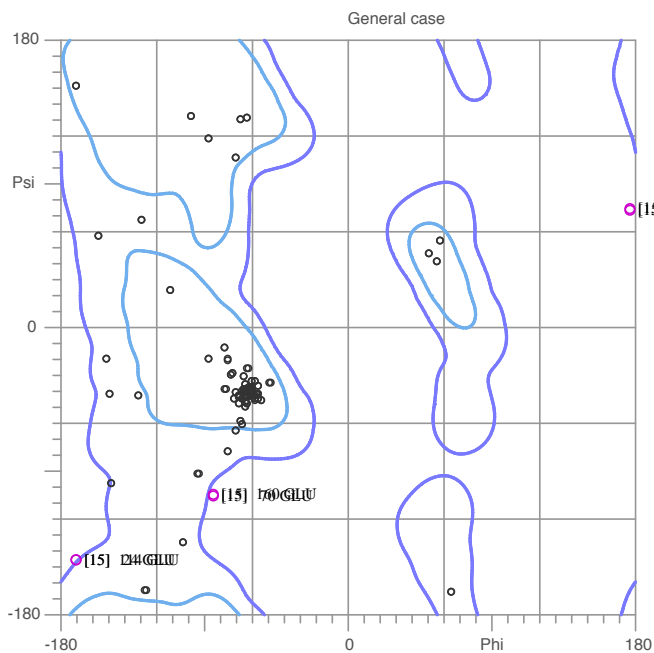
There were no outliers.

<http://kinemage.biochem.duke.edu>

Lovell, Davis, et al. Proteins 50:437 (2003)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 15



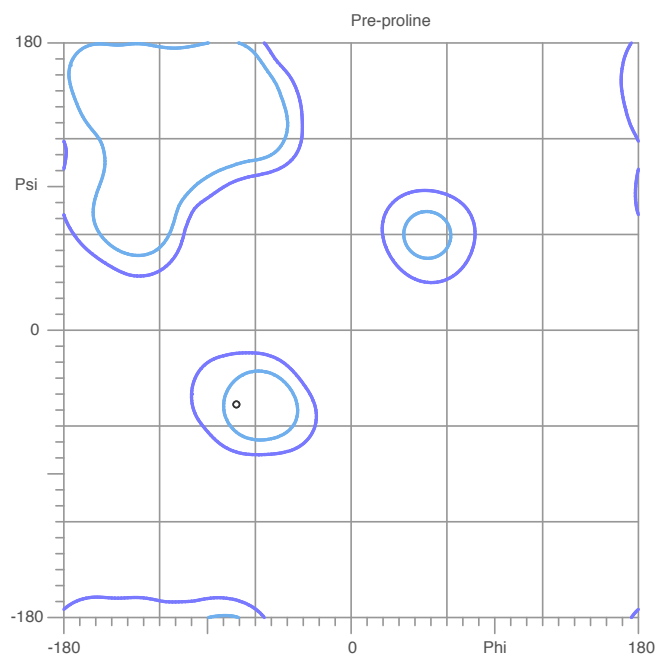
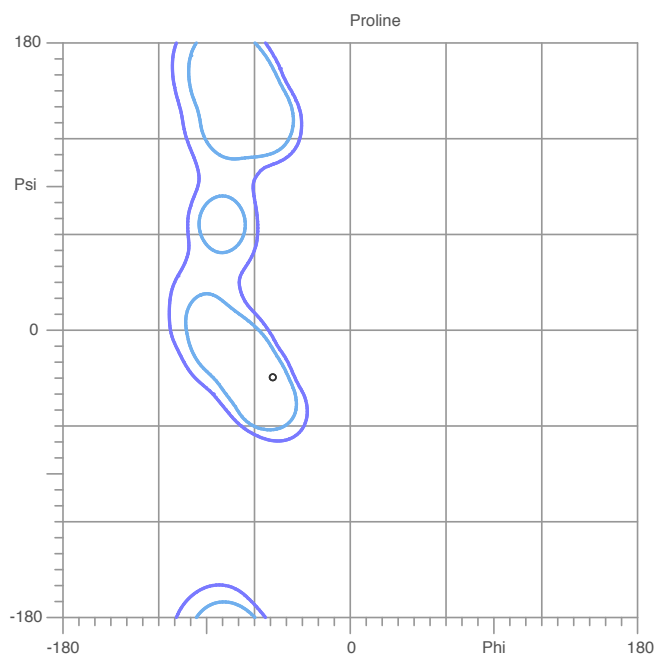
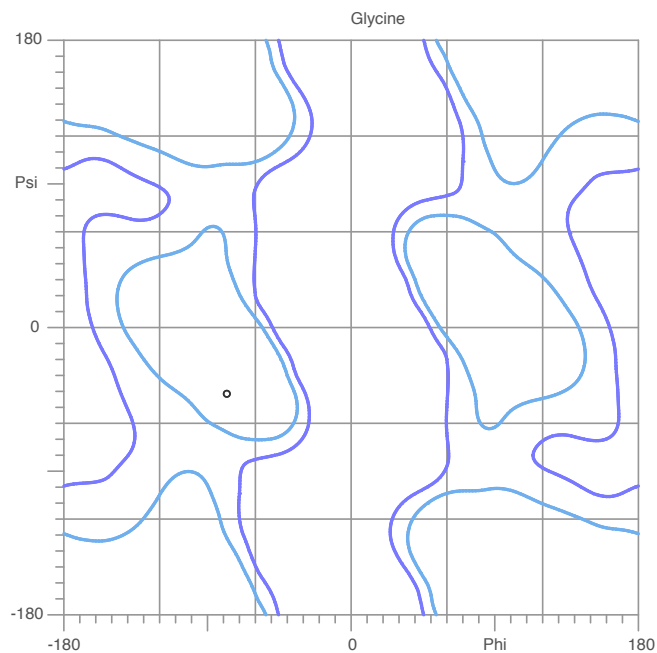
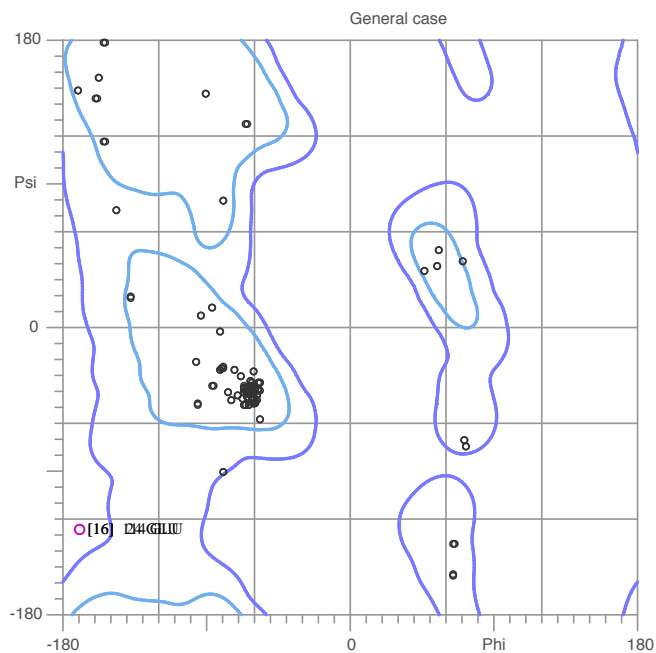
80.8% (126/156) of all residues were in favored (98%) regions.  
96.2% (150/156) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):  
[15] 23 SER (176.7, 75.0)

[15] 24 GLU (-171.8, -145.1)  
[15] 70 GLU (-85.1, -105.0)  
[15] 113 SER (176.8, 75.0)  
[15] 114 GLU (-171.8, -145.0)  
[15] 160 GLU (-85.1, -105.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 16



89.7% (140/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

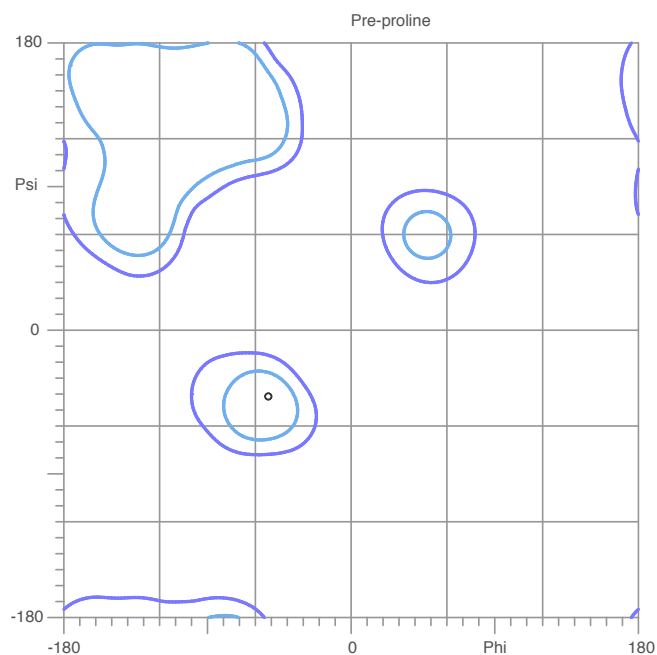
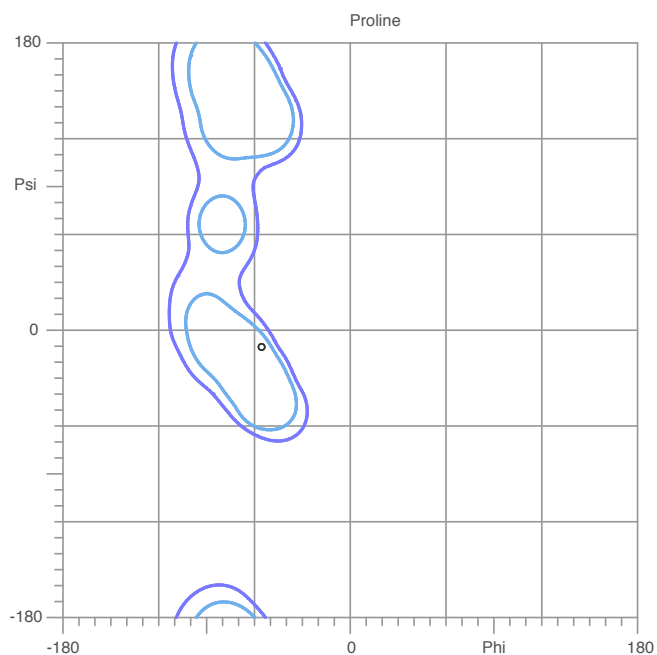
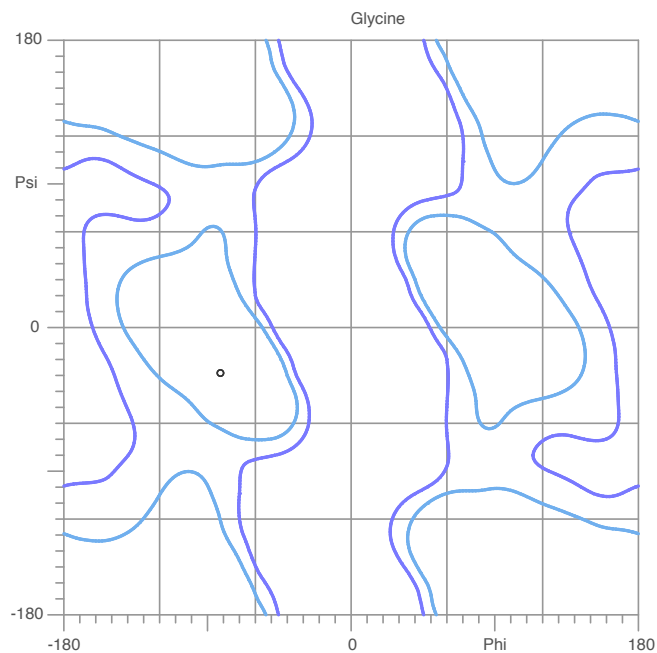
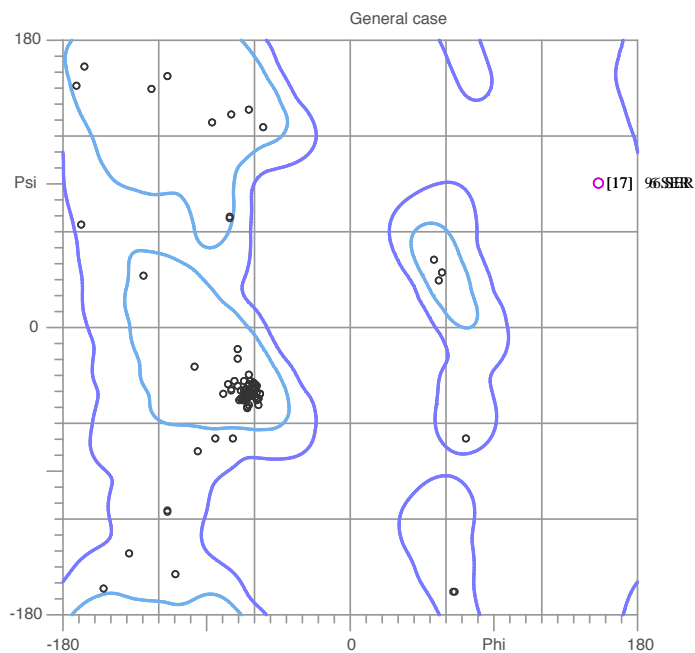
There were 2 outliers (phi, psi):

[16] 24 GLU (-170.0, -126.4)

[16] 114 GLU (-170.1, -126.4)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 17



85.9% (134/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

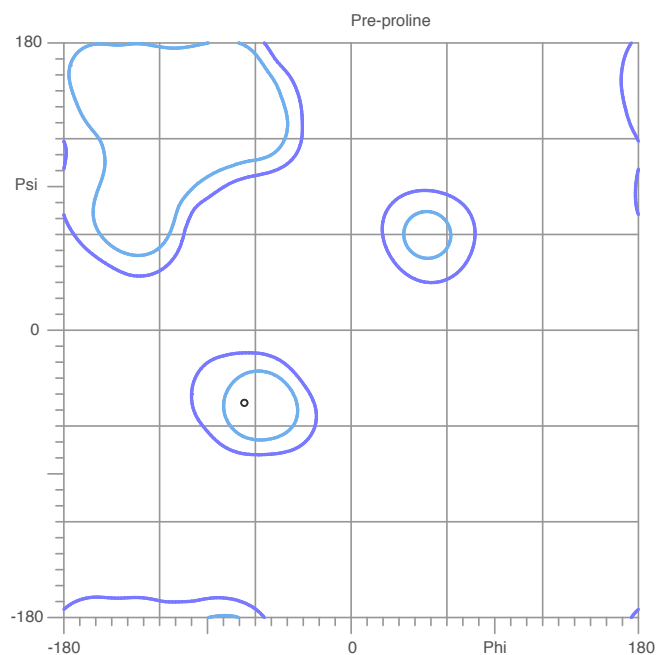
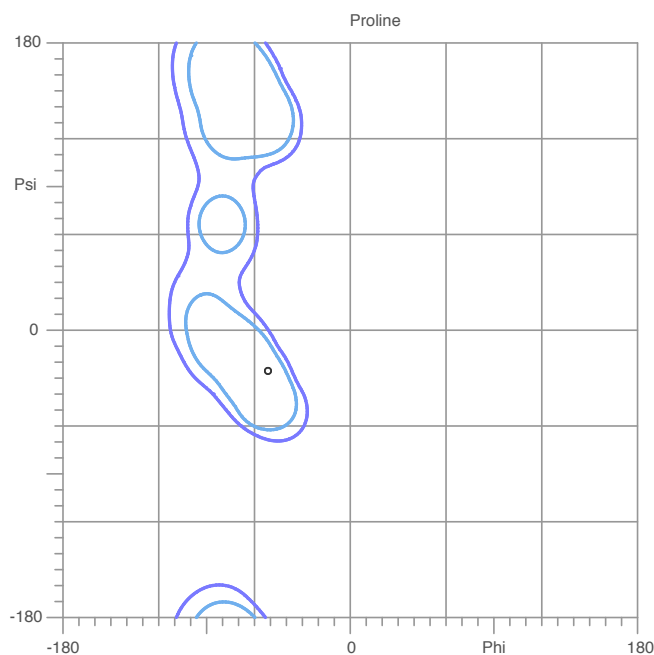
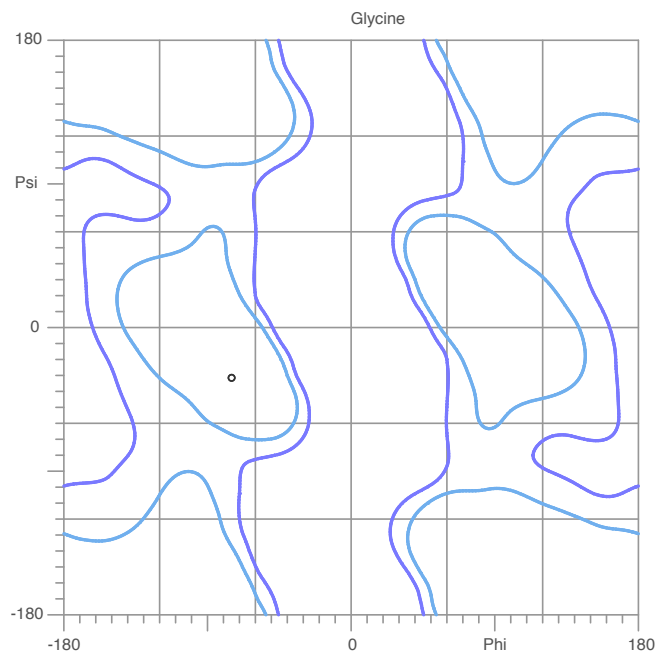
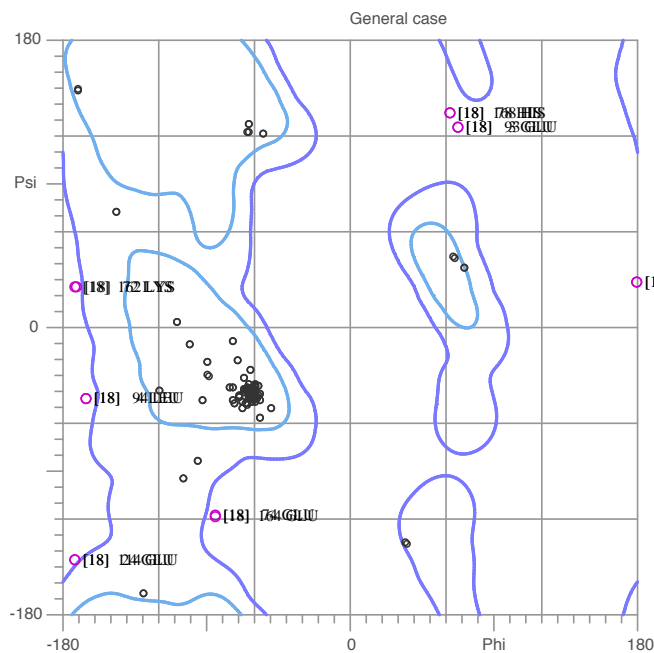
There were 2 outliers (phi, psi):

[17] 6 SER (155.1, 91.7)

[17] 96 SER (155.1, 91.7)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 18



83.3% (130/156) of all residues were in favored (98%) regions.  
 91.0% (142/156) of all residues were in allowed (>99.8%) regions.

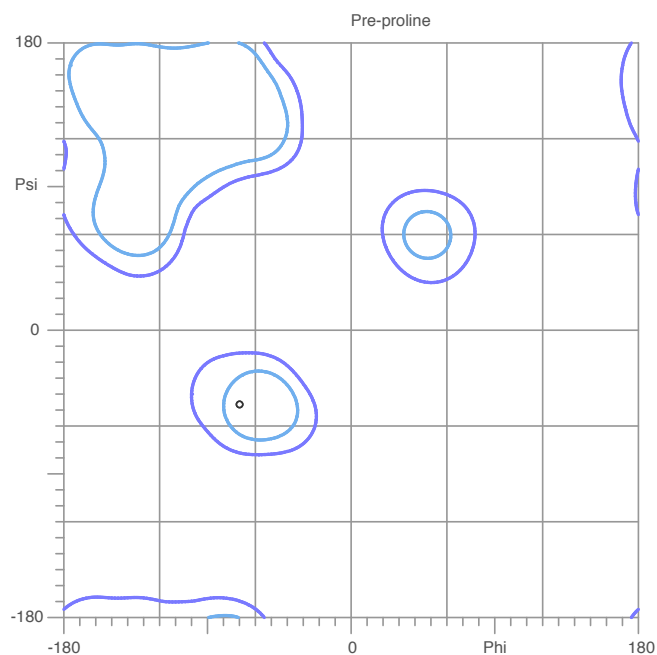
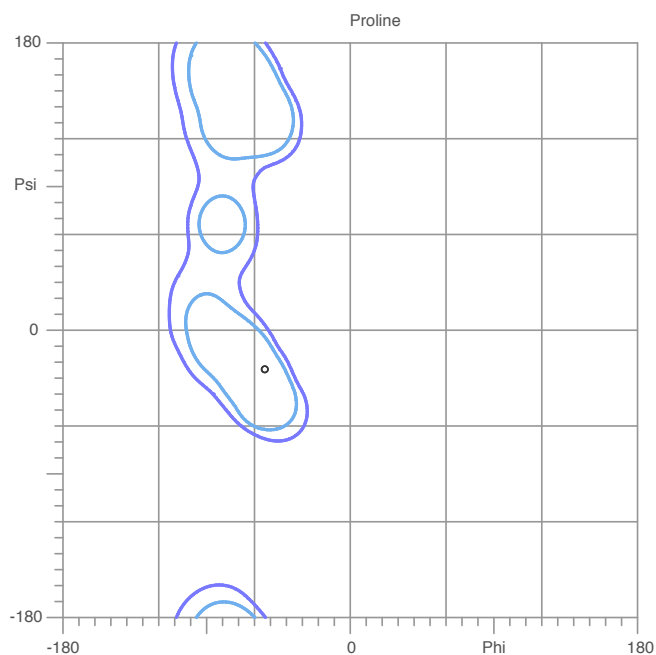
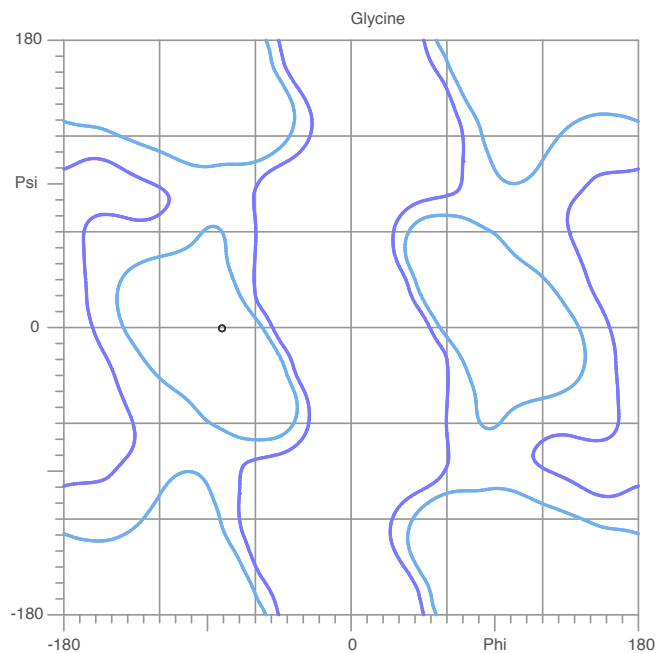
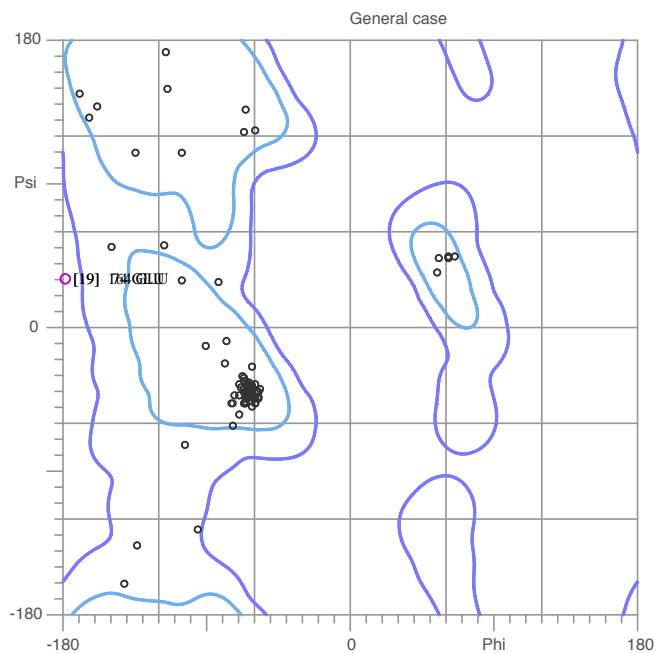
There were 14 outliers (phi, psi):

- [18] 3 GLU (67.7, 126.7)
- [18] 4 LEU (-166.1, -45.0)
- [18] 24 GLU (-173.5, -145.0)
- [18] 46 LEU (179.9, 29.1)
- [18] 72 LYS (-173.0, 27.0)

- [18] 74 GLU (-85.9, -118.0)
- [18] 78 HIS (62.2, 135.0)
- [18] 93 GLU (67.6, 126.7)
- [18] 94 LEU (-166.1, -45.0)
- [18] 114 GLU (-173.5, -145.0)
- [18] 136 LEU (179.9, 29.0)
- [18] 162 LYS (-173.0, 27.0)
- [18] 164 GLU (-86.0, -118.0)
- [18] 168 HIS (62.3, 135.0)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 19

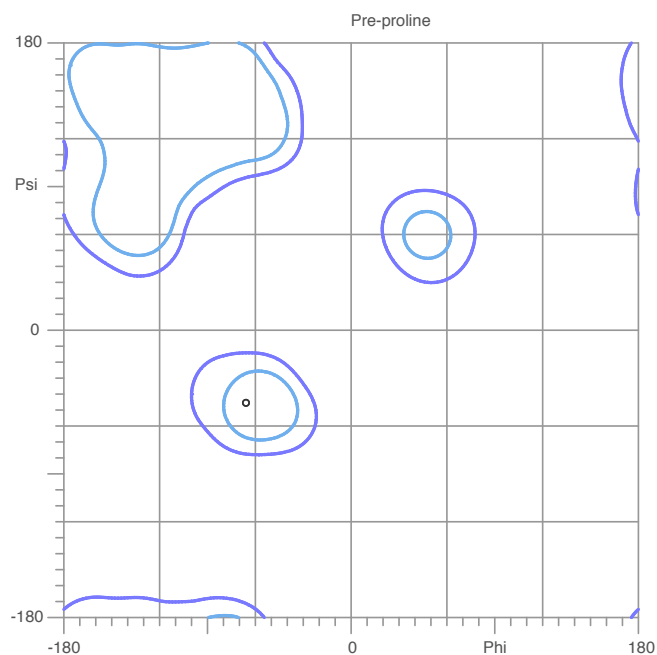
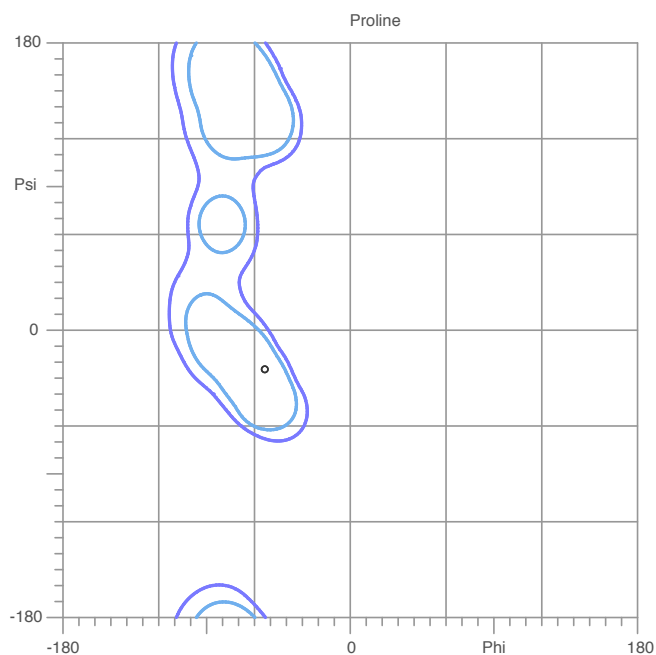
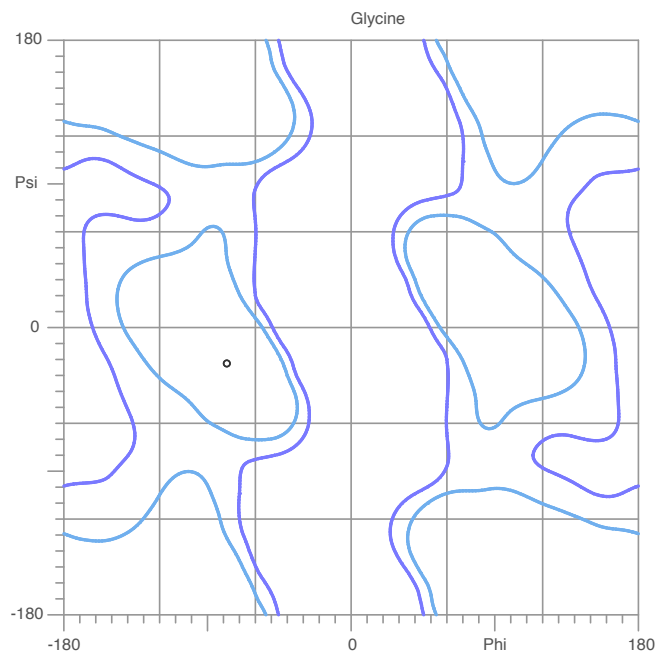
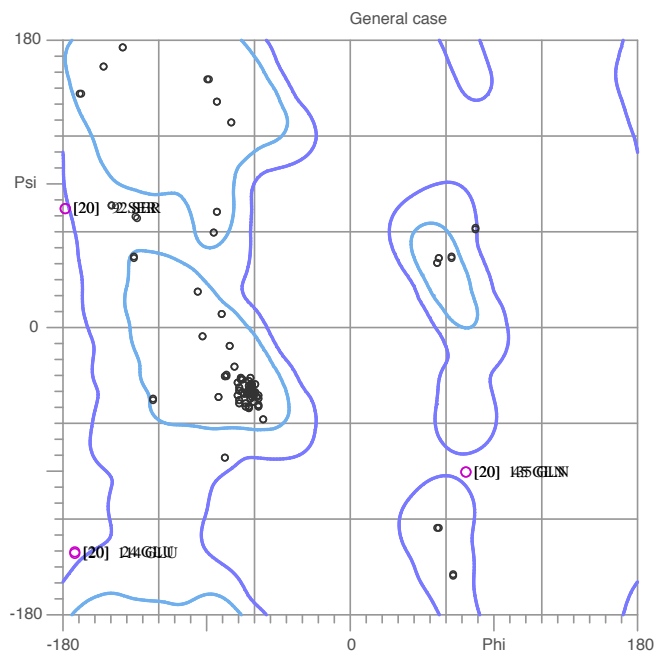


89.7% (140/156) of all residues were in favored (98%) regions.  
98.7% (154/156) of all residues were in allowed (>99.8%) regions.

There were 2 outliers (phi, psi):  
[19] 74 GLU (-179.4, 31.8)  
[19] 164 GLU (-179.4, 31.8)

# MolProbity Ramachandran analysis

SR478\_R3Cons\_em\_bcr3.pdb, model 20



88.5% (138/156) of all residues were in favored (98%) regions.  
96.2% (150/156) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):  
[20] 2 SER (-179.0, 75.0)

[20] 24 GLU (-173.8, -141.0)  
[20] 45 GLN (72.3, -91.0)  
[20] 92 SER (-179.0, 75.0)  
[20] 114 GLU (-173.8, -141.0)  
[20] 135 GLN (72.3, -90.9)