MolProbity Ramachandran analysis
1U6F, all models

There were 232 outliers (phi, psi):
74.8% (2049/2740) of all residues were in favored (98%) regions.

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MolProbity Ramachandran analysis

104 of all residues were in favored (98%) regions.
92.7% (127/137) of all residues were in allowed (>99.8%) regions.

There were 10 outliers (phi, psi):
1 GLN (177.7, -76.4)
2 GLN (61.8, 102.1)
3 ASN (177.2, -61.7)
4 VAL (90.7, 44.7)
5 TYR (165.9, -66.3)
5 PRO (87.0, -85.5)
7 PHE (52.8, 86.4)
8 ILE (41.1, 82.6)
9 ALA (63.7, -80.0)
10 ALA (62.7, 147.1)
MolProbity Ramachandran analysis

1U6F, model 2

76.6% (105/137) of all residues were in favored (98%) regions.
94.9% (130/137) of all residues were in allowed (>99.8%) regions.

There were 7 outliers (phi, psi):
[2] 3 GLN (60.2, 94.9)
[2] 6 LEU (61.6, 114.7)
[2] 34 GLN (63.6, -80.8)
[2] 39 PRO (-89.4, -73.6)
[2] 51 PRO (-71.8, -91.8)
[2] 107 PHE (-52.1, 87.8)
[2] 133 GLY (59.5, 105.5)

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73.0% (100/137) of all residues were in favored (98%) regions.
90.5% (124/137) of all residues were in allowed (>99.8%) regions.

There were 13 outliers (phi, psi):
- 10 TYR (60.6, 96.7)
- 14 GLY (151.4, 45.1)
- 28 GLN (64.0, -80.0)
- 29 HIS (63.2, 131.9)
- 32 PRO (-56.6, 86.0)
- 37 PRO (-56.6, 85.0)
- 49 TYR (-165.2, -59.0)
- 51 PRO (-88.6, -89.0)
- 107 PHE (-53.3, 91.0)
- 120 ALA (63.3, -79.8)
- 128 ILE (64.8, 151.4)
- 133 GLY (-176.2, -40.2)
- 137 GLY (-136.4, -69.3)
MolProbity Ramachandran analysis

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75.2% (103/137) of all residues were in favored (98%) regions.
88.3% (121/137) of all residues were in allowed (>99.8%) regions.

There were 16 outliers (phi, psi):

[4]    6 LEU (60.4, 99.5)
[4]    7 VAL (-149.3, -46.9)
[4]   16 THR (63.0, 97.4)
[4]   26 GLN (-176.2, -43.7)
[4]   28 GLN (63.3, 142.5)
[4]   32 PRO (-53.5, 89.1)
[4]   34 GLN (-59.5, 96.8)
[4]   41 VAL (-67.6, 68.3)
[4]   49 TYR (-163.1, -63.0)
[4]   51 PRO (-78.6, -100.4)
[4]   85 GLY (63.4, -85.1)
[4]  107 PHE (-47.8, 91.7)
[4]  120 ALA (-64.3, -169.3)
[4]  127 GLY (-61.9, 86.7)
[4]  130 GLY (-138.2, -70.5)
[4]  133 GLY (176.1, 40.5)
MolProbity Ramachandran analysis

1U6F, model 5

75.2% (103/137) of all residues were in favored (98%) regions.
91.2% (125/137) of all residues were in allowed (>99.8%) regions.

There were 12 outliers (phi, psi):

- 4 ILE (55.5, 91.8)
- 20 GLN (60.7, 101.7)
- 27 GLN (-60.2, -175.6)
- 34 GLN (-59.8, -172.8)
- 41 VAL (-95.2, 40.4)
- 49 TYR (-162.3, -61.3)
- 51 PRO (-71.4, -90.9)
- 107 PHE (-56.9, 72.6)
- 120 ALA (62.8, -81.7)
- 121 SER (-179.8, 99.5)
- 125 ARG (-179.5, -53.0)
- 136 ASN (-175.7, -42.8)
MolProbity Ramachandran analysis

1U6F, model 6

73.7% (101/137) of all residues were in favored (98%) regions.
88.3% (121/137) of all residues were in allowed (>99.8%) regions.

There were 16 outliers (phi, psi):

- 2 SER (-175.1, -41.2)
- 3 GLN (61.7, 117.5)
- 7 VAL (78.9, -4.5)
- 8 SER (47.2, -169.3)
- 19 LEU (60.1, 109.9)
- 26 GLN (56.1, 178.0)
- 28 GLN (59.9, 104.5)
- 29 HIS (58.9, 93.9)
- 32 PRO (-72.3, -67.8)
- 34 GLN (173.9, 39.7)
- 49 TYR (-165.5, -59.1)
- 51 PRO (-81.1, -98.1)
- 83 SER (-64.7, 75.8)
- 85 GLY (62.1, -87.3)
- 107 PHE (-51.4, 83.3)
- 135 GLY (177.5, 38.4)

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MolProbity Ramachandran analysis

1U6F, model 7

78.1% (107/137) of all residues were in favored (98%) regions.
94.9% (130/137) of all residues were in allowed (>99.8%) regions.

There were 7 outliers (phi, psi):

[1] 20 GLN (64.6, -78.5)
[7] 34 GLN (-164.8, -44.8)
[7] 51 PRO (-73.9, -98.9)
[7] 107 PHE (-46.3, 84.9)
[7] 120 ALA (61.2, 105.5)
[7] 125 ARG (62.6, 140.0)
[7] 127 GLY (-58.3, -93.0)

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75.9% (104/137) of all residues were in favored (98%) regions.
93.4% (128/137) of all residues were in allowed (>99.8%) regions.

There were 9 outliers (phi, psi):
[8] 7 TYR (-154.1, -46.1)
[8] 16 TYR (61.2, 97.8)
[8] 11 ASP (62.4, 149.5)
[8] 18 GLN (64.9, -78.1)
[8] 27 GLN (-171.3, -71.4)
[8] 37 PRO (-58.0, 81.8)
[8] 51 PRO (-55.8, -86.3)
[8] 85 GLY (61.8, -87.9)
[8] 107 PHE (-56.9, 87.0)
MolProbity Ramachandran analysis

70.1% (96/137) of all residues were in favored (98%) regions.
90.5% (124/137) of all residues were in allowed (>99.8%) regions.

There were 13 outliers (phi, psi):

- 7 VAL (70.9, 103.1)
- 8 SER (60.9, 158.4)
- 9 GLN (62.1, 116.2)
- 20 GLN (61.1, 112.2)
- 23 GLN (61.9, 151.7)
- 24 GLN (-176.3, 88.4)
- 30 ILE (64.4, 121.5)
- 33 THR (43.7, 91.1)
- 34 GLN (37.1, 91.1)
- 36 ASN (180.0, -52.5)
- 49 TYR (-162.8, -65.9)
- 51 PRO (-64.4, -86.3)
- 107 PHE (-50.4, 86.6)

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MolProbity Ramachandran analysis

1U6F, model 10

76.6% (105/137) of all residues were in favored (98%) regions.
92.0% (126/137) of all residues were in allowed (>99.8%) regions.

There were 11 outliers (phi, psi):

- 7 VAL (65.6, 15.5)
- 11 ASP (63.2, 144.9)
- 14 GLY (136.4, 45.5)
- 21 GLN (61.0, 108.2)
- 26 GLN (-176.0, 40.5)
- 35 MET (63.1, 95.6)
- 51 PRO (-81.0, -96.9)
- 85 GLY (63.3, -85.0)
- 107 PHE (-51.5, 88.6)
- 121 SER (-176.3, -40.5)
- 128 ILE (56.0, 87.2)

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General case

Pre-proline

Glycine

Trans proline

Cis proline

78.1% (107/137) of all residues were in favored (98%) regions.
92.7% (127/137) of all residues were in allowed (>99.8%) regions.

There were 10 outliers (phi, psi):

11]  2 SER (59.7, 93.3)  
11]  20 GLN (62.8, 120.6)  
11]  25 GLN (60.9, 156.2)  
11]  28 GLN (-65.3, -166.3)  
11]  34 GLN (44.8, -166.8)  
11]  49 TYR (-162.1, -59.6)  
11]  51 PRO (-89.0, -99.0)  
11]  85 GLY (61.8, -87.0)  
11]  107 PHE (-47.4, 90.7)  
11]  123 HIS (61.0, 98.5)

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MolProbity Ramachandran analysis

1U6F, model 12

73.0% (100/137) of all residues were in favored (98%) regions.
92.0% (126/137) of all residues were in allowed (>99.8%) regions.

There were 11 outliers (phi, psi):

12)  8 SER (-170.1, -71.8)
12)  18 GLN (60.2, 102.9)
12)  22 LEU (-59.4, -175.4)
12)  24 GLN (61.1, 100.4)
12)  26 GLN (-176.4, -70.3)
12)  49 TYR (-165.0, -54.7)
12)  51 PRO (-89.9, -88.9)
12)  85 GLY (55.9, -91.7)
12)  107 PHE (-47.3, 89.6)
12)  122 GLY (177.0, -60.0)
12)  129 ALA (63.4, 124.7)

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MolProbity Ramachandran analysis

1U6F, model 13

General case

Isoleucine and valine

Pre-proline

Glycine

Trans proline

Cis proline

74.5% (102/137) of all residues were in favored (98%) regions.
91.2% (125/137) of all residues were in allowed (>99.8%) regions.

There were 12 outliers (phi, psi):

- 6 LEU (43.9, -166.6)
- 13 TYR (64.9, -78.0)
- 16 THR (-176.4, -40.5)
- 28 GLN (63.9, 130.5)
- 49 TYR (-165.6, -65.4)
- 51 PRO (-89.8, -84.9)
- 83 SER (-64.7, 84.3)
- 107 PHE (-57.7, 73.3)
- 121 SER (60.2, 161.2)
- 129 ALA (-163.5, -44.3)
- 134 ASP (64.3, -79.0)
- 137 GLY (-175.1, 76.9)

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General case

Pre-proline

Glycine

Trans proline

Cis proline

76.6% (105/137) of all residues were in favored (98%) regions.
89.1% (122/137) of all residues were in allowed (>99.8%) regions.

There were 15 outliers (phi, psi):

7 VAL (-154.9, 82.0)
19 LEU (-179.9, -38.3)
28 GLN (60.2, 159.4)
41 VAL (-70.8, 64.4)
49 TYR (-166.0, -61.4)
51 PRO (-91.9, -82.6)
83 SER (-65.0, 75.9)
107 PHE (-51.0, 88.4)
119 ALA (-54.7, -77.8)
121 SER (-174.5, 36.2)
123 HIS (60.2, 101.9)
133 GLY (59.7, 87.3)
134 ASP (62.7, 146.2)
136 ASN (-172.7, -41.7)

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70.1% (96/137) of all residues were in favored (98%) regions.
92.0% (126/137) of all residues were in allowed (>99.8%) regions.
There were 11 outliers (phi, psi):
- 4 ILE (63.3, 95.5)
- 15 GLN (60.3, 100.8)
- 28 GLN (46.5, -172.5)
- 33 THR (178.8, -52.7)
- 37 PRO (-59.0, 81.8)
- 51 PRO (-82.1, -101.6)
- 85 GLY (57.4, -91.9)
- 107 PHE (-50.3, 88.2)
- 123 HIS (64.2, 116.3)
- 128 ILE (64.0, 119.6)
- 132 VAL (67.1, 26.7)

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MolProbity Ramachandran analysis

1U6F, model 16

74.5% (102/137) of all residues were in favored (98%) regions.
94.2% (129/137) of all residues were in allowed (>99.8%) regions.

There were 8 outliers (phi, psi):
[16] 19 LEU (-173.5, -57.4)
[16] 20 GLN (-177.1, -39.8)
[16] 29 HIS (-65.0, 98.2)
[16] 49 TYR (-165.4, -63.3)
[16] 51 PRO (-88.6, -92.7)
[16] 107 PHE (-54.1, 82.5)
[16] 131 ALA (60.7, 106.7)
[16] 133 GLY (-169.4, -44.0)

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MolProbity Ramachandran analysis

1U6F, model 17

75.9% (104/137) of all residues were in favored (98%) regions.
95.6% (131/137) of all residues were in allowed (>99.8%) regions.

There were 6 outliers (phi, psi):
[17]  7 VAL (65.0, 129.0)
[17]  18 GLN (60.3, 101.2)
[17]  51 PRO (-63.7, -89.6)
[17]  107 PHE (-57.6, 72.6)
[17]  120 ALA (173.3, -169.6)
[17]  125 ARG (-177.7, -61.6)

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MolProbity Ramachandran analysis

1U6F, model 18

72.3% (99/137) of all residues were in favored (98%) regions.
86.9% (119/137) of all residues were in allowed (>99.8%) regions.

There were 18 outliers (phi, psi):

- 2 SER (-172.0, -64.4)
- 9 GLN (-179.2, -38.2)
- 10 TYR (-56.7, -172.6)
- 13 TYR (61.2, 93.4)
- 21 GLN (64.8, -78.5)
- 24 GLN (63.0, 103.0)
- 30 ILE (65.4, 91.7)
- 49 TYR (-165.4, -62.5)
- 51 PRO (-90.1, -93.2)
- 85 GLY (64.0, -87.7)
- 107 PHE (-52.6, 84.3)
- 119 ALA (-57.5, -85.2)
- 120 ALA (173.1, -70.8)
- 121 SER (-179.0, 70.2)
- 125 ARG (-175.2, -62.3)
- 128 ILE (64.1, 113.6)
- 135 GLY (135.0, 77.2)
- 138 TYR (63.6, -78.2)
MolProbity Ramachandran analysis

1U6F, model 19


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75.9% (104/137) of all residues were in favored (98%) regions.
92.0% (126/137) of all residues were in allowed (>99.8%) regions.

There were 11 outliers (phi, psi):

- GLN (-161.4, -45.4)
- ASP (-177.6, -62.2)
- THR (60.6, 105.4)
- ALA (61.9, 117.0)
- TYR (-165.9, -64.7)
- PRO (-80.4, -94.4)
- GLY (63.1, -85.7)
- PHE (-46.9, 88.3)
- SER (65.4, -77.6)
- ILE (-157.8, -44.9)
- ASP (-173.0, -65.8)

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