# MolProbity Ramachandran analysis
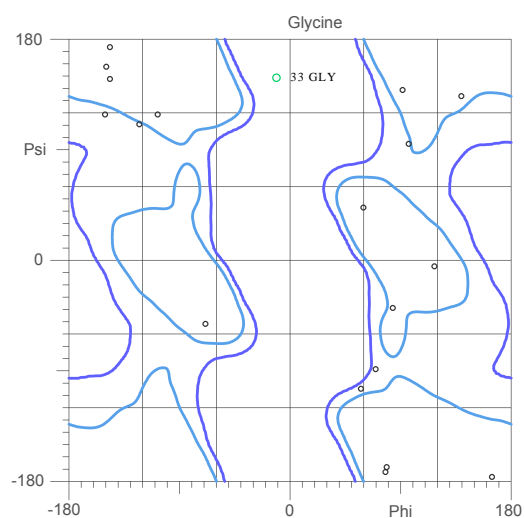
1a02N.B99990041.pdb, model 1



General case

Isoleucine and valine

○ 132 LYS
○ 181 MET
○ 277 TYR
○ 27 GLU
○ 109 ASN
○ 31 SER
○ 136 ASP
○ 160 VAL

Pre-proline

Glycine

○ 278 HIS
○ 37 ALA
○ 33 GLY

*Trans* proline

*Cis* proline

○ 180 PRO
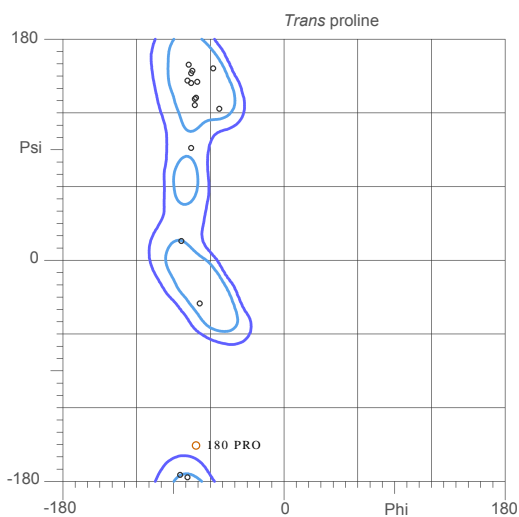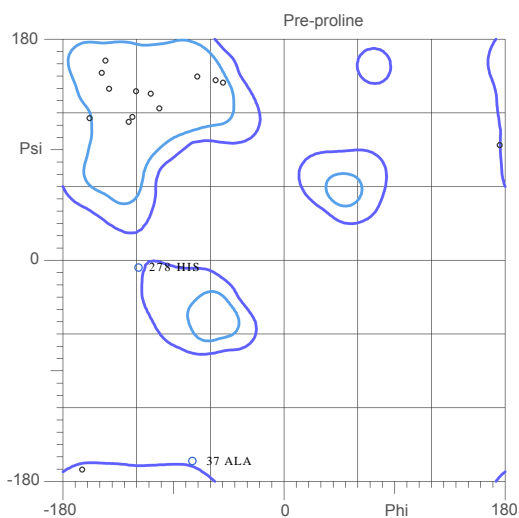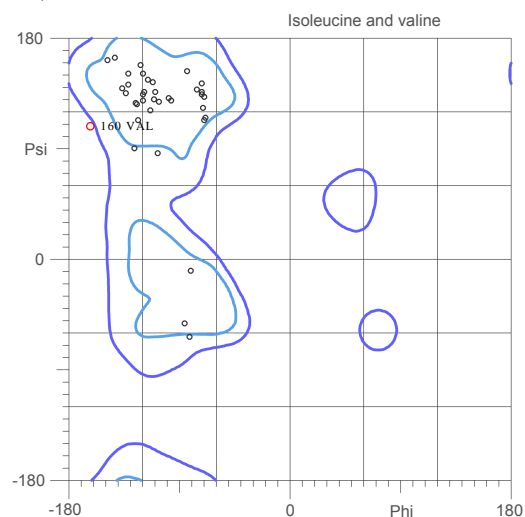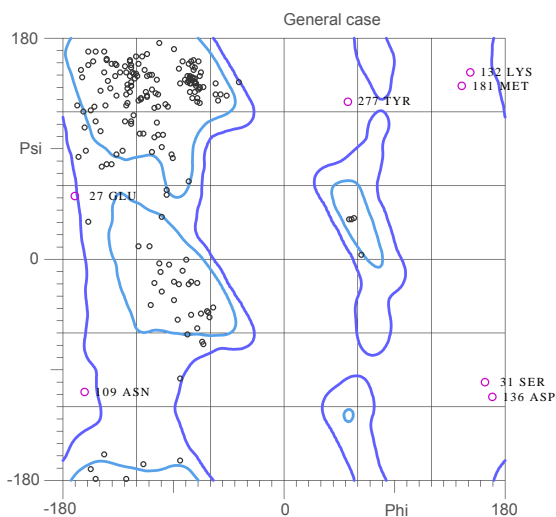
83,8% (233/278) of all residues were in favored (98%) regions.
95,7% (266/278) of all residues were in allowed (>99.8%) regions.

There were 12 outliers (phi, psi):
    27 GLU (-171,7, 52,7)
    31 SER (164,7, -101,0)
    33 GLY (-11,5, 149,0)
    37 ALA (-75,8, -164,4)
    109 ASN (-163,2, -108,9)
    132 LYS (152,5, 153,0)
    136 ASP (170,7, -112,1)
    160 VAL (-163,3, 109,6)
    180 PRO (-72,8, -151,6)
    181 MET (146,0, 142,3)
    277 TYR (52,4, 129,6)
    278 HIS (-119,5, -6,7)