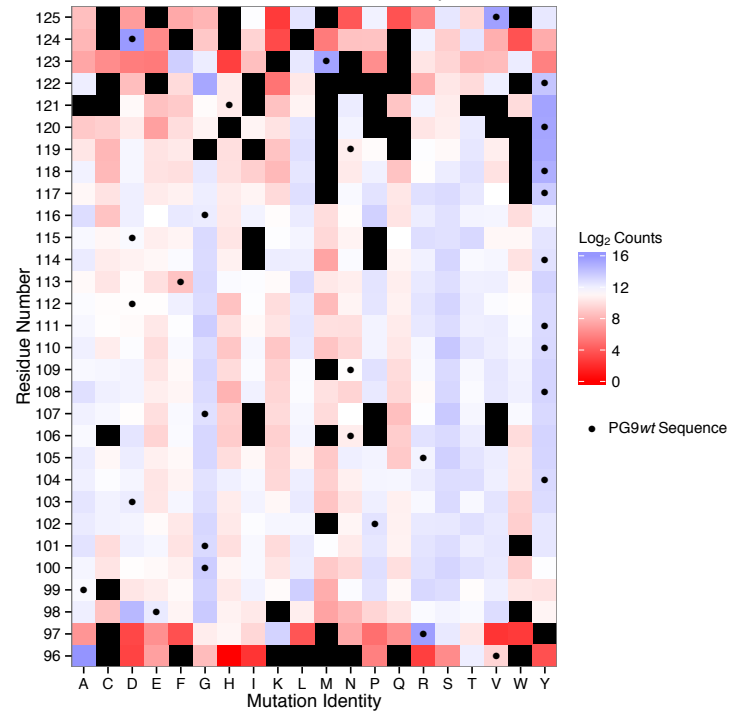


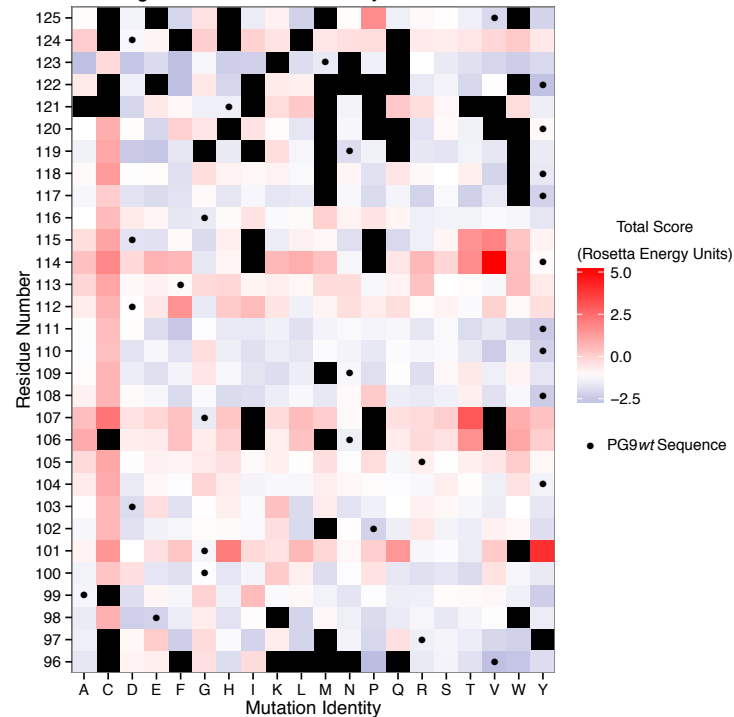
A

Occurrences of residues for each position



B

Average Score for Mutations by HCDR3 Position



C

Average  $\Delta\Delta G$  for Mutations by HCDR3 Position