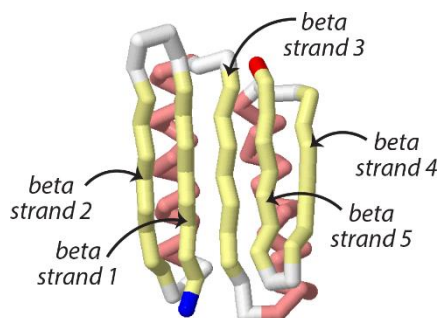
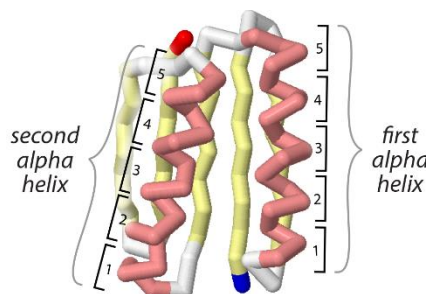
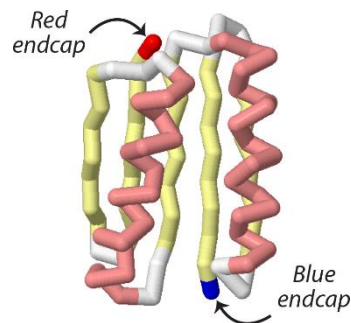


Example Model Scoring Rubric

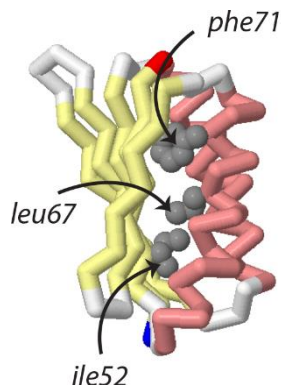
Based on amino acids 3-94 of chain A of the structure file 1qys.pdb

Protein Structure Features:

- **Blue endcap** is present (2 point)
- **Blue endcap** is in proper bottom-right position (2 point)
- **Red endcap** is present (2 point)
- **Red endcap** is in proper top-left position (2 point)
- Two **alpha helices** are present (2 point)
- The **first alpha helix** has five 360° turns (2.5 points)
- The **second alpha helix** has five 360° turns (2.5 points)
- Both **alpha helices** are left-handed (2point)
- The **alpha helices** are almost parallel to each other (2 point)
- Five **beta strands** are present (5 points)
- The **five beta strands** line up next to each other (2 points)
- The **five beta strands** are each ~15cm long (5 points)

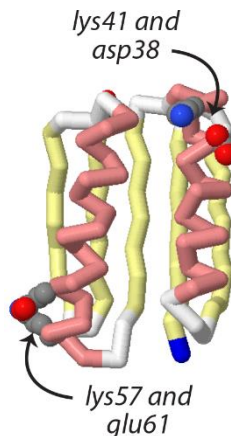


Potential Creative Additions:



Hydrophobic amino acids help hold the core of the Top7 protein together. Three are shown above as examples (phe71, leu67 and ile52), but others are also acceptable

(1pt per sidechain, max 5 points)



Two salt bridges help hold the in place, one between lys41-asp38 and the other between lys57-glu61.

(2pt per salt bridge, max 4 points)