

Extra figure for lecture 9: Glycogen phosphorylase

This shows the actual (as opposed to schematic) structure of the single subunit of glycogen phosphorylase. The loop representing amino acids 280-289 is shown in a different colour.

In the R state structure, the substrate binding groove containing the catalytic site is fully accessible so that substrate affinity is high. In the T state structure, Phe 285 in this loop has flipped down to obstruct part of the catalytic site so that substrate affinity is decreased. This is accompanied by reorganization around the tower, which represents the region of contact with the other member of the dimer.

