EXERCISE NO:2 21BBT035



3D structure

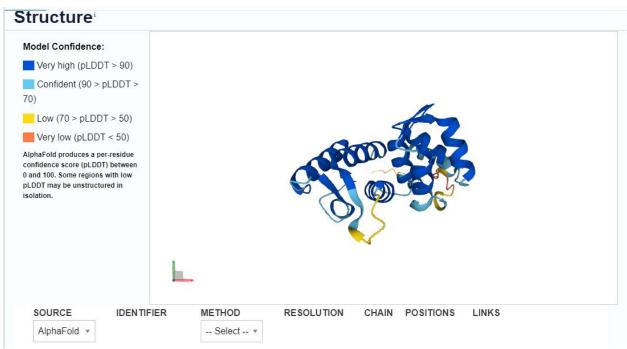


Figure 2

The source of the 3D structure of the protein is Alpha Fold and hence this is the predicted structure.

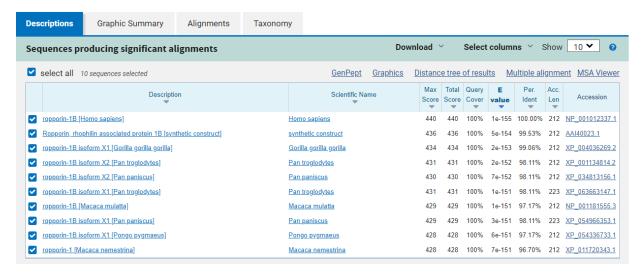


Figure 4- Description

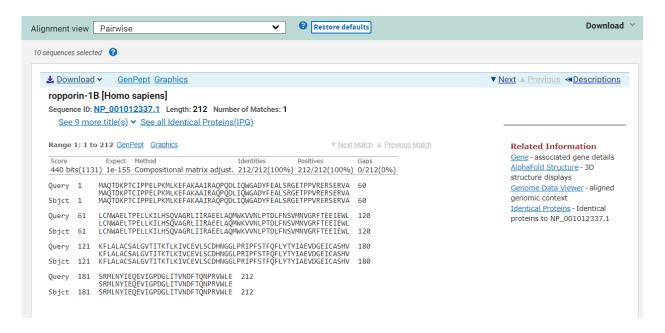


Figure 3-Alignment

The BLAST results for the best 10 HSP shows that the sequences are homologs upto 96% identity

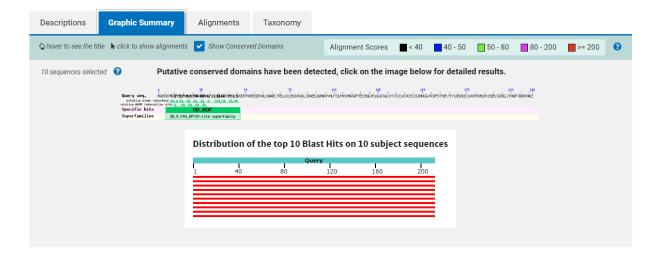


Figure 4-Graphic summary

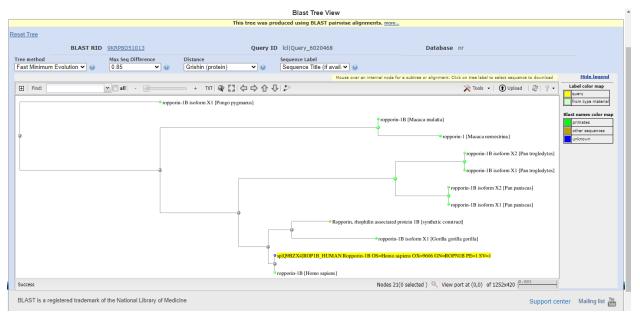


Figure 5- Distance Tree

The graphical summary represents that they are homologues sequences and the distance tree shows the relationship with the homologues sequences.

Case B

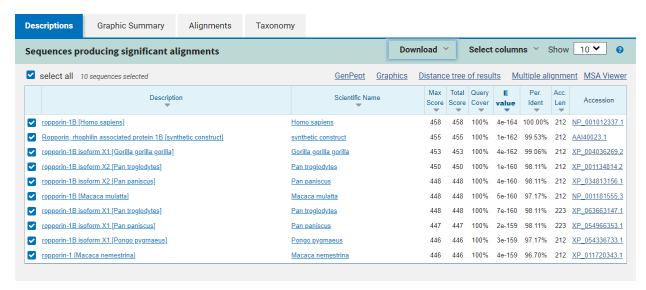


Figure 6- description

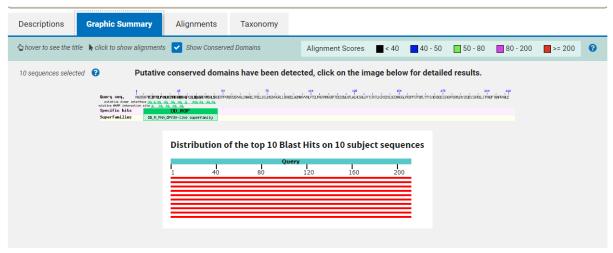


Figure 7- Graphic Summary

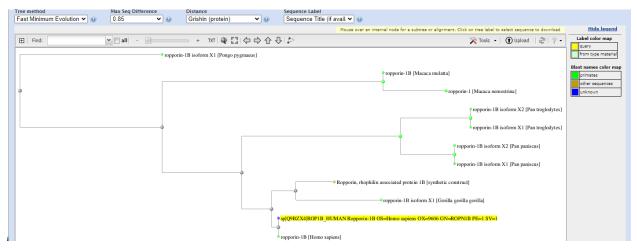


Figure 8- Distance Tree

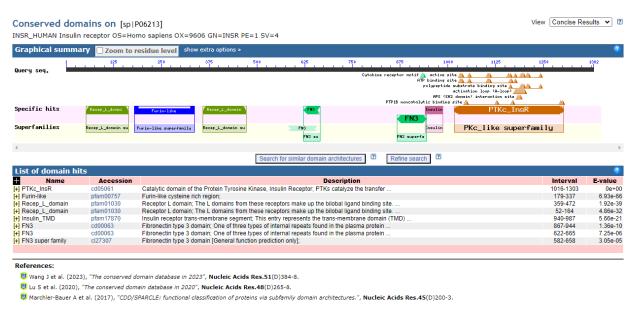


Figure 9- Conserved domains

The case B represents the BLAST for E value =0.1 and the matrix = BLOSUM45. The conserved domains shows that the L domains from these receptors make up the bilobal ligand binding site. Each L domain consists of a single-stranded right hand beta-helix. This Pfam entry is missing the first 50 amino acid residues of the domain.