Cellular localization prediction-worksheet

1. Where does DeepLoc predict your proto-gene will localize? What is the probability of your proto-gene localizing to that localization? What is the probability threshold for that compartment?

2. Was there a certain region of the sequence that the DeepLoc algorithm paid more attention to?

3. How many transmembrane helices (TMH) does TMHMM predict your proto-gene has? Include a copy of the TMHMM graph below.

4. What was your proto-gene's NucPred score? From this score- do you think your proto-gene localizes to the nucleus? Does this result fit in the context of the DeepLoc result?

5. Look at the color-coded sequence in the NucPred output. Was there any region/motif in your proto-gene that influenced NucPred's prediction?

6. Using TargetP, what is the likelihood of your proto-gene having a signal peptide or mitochondrial transfer peptide? Does this result align with what DeepLoc predicted?

7. Considering all this information, where do you hypothesize your proto-gene localizes?