Your Task

To receive full credit for this lab, you must **answer** all following questions.

Task 1: Get protein sequence for DNA sequence (https://www.ncbi.nlm.nih.gov/nuccore/NM_207618.2), and compare it with sequence on NCBI website. Do you get same results?

GGTCAGAAAAAGCCCTCTCCATGTCTACTCACGATACATCCCTGAAAACCACTGAGGAAGTGGC TTTTCAGATCATCTTGCCTTTGCCAGTTTGGGGGTTGGGACTTTTGCCAATGTATTTCTCTTTGTC TATAATTTCTCTCCAATCTCGACTGGTTCTAAACAGAGGCCCAGACAAGTGATTTTAAGACACA TGGCTGTGGCCAATGCCTTAACTCTCTTCCTCACTATATTTCCAAACAACATGATGACTTTTGC TCCAATTATTCCTCAAACTGACCTCAAATGTAAATTAGAATTCTTCACTCGCCTCGTGGCAAGA AGCACAACTTGTGTTCAACTTGTGTTCTGAGTATCCATCAGTTTGTCACACTTGTTCCTGTTA ATTCAGGTAAAGGAATACTCAGAGCAAGTGTCACAAACATGGCAAGTTATTCTTGTTACAGTTG TTGGTTCTTCAGTGTCTTAAATAACATCTACATTCCAATTAAGGTCACTGGTCCACAGTTAACA GACAATAACAATAACTCTAAAAGCAAGTTGTTCTGTTCCACTTCTGATTTCAGTGTAGGCATTG TCTTCTTGAGGTTTGCCCATGATGCCACATTCATGAGCATCATGGTCTGGACCAGTGTCTCCAT GGTACTTCTCCTCCATAGACATTGTCAGAGAATGCAGTACATATTCACTCTCAATCAGGACCCC AGGGGCCAAGCAGACCACAGCAACCCATACTATCCTGATGCTGGTAGTCACATTTGTTGGCT GAGGCATTGCAATGACATTTTGGTTTCGGGTTTCCCTACAATTTCTCCTTTACTGTTGACCTTC AGAGACCCTAAGGGTCCTTGTTCTGTGTTCTTCAACTGTTGAAAGCCAGAGTCACTAAAAATGC CAAACACAGAAGACAGCTTTGCTAATACCATTAAATACTTTATTCCATAAATATGTTTTTAAAA GCTTGTATGAACAAGGTATGGTGCTCACTGCTATACTTATAAAAGAGTAAGGTTATAATCACTT GTTGATATGAAAAGATTTCTGGTTGGAATCTGATTGAAACAGTGAGTTATTCACCACCCTCCAT TCTCT

• Your Protein Sequence:

MSTHDTSLKTTEEVAFQIILLCQFGVGTFANVFLFVYNFSPISTGSKQRPRQVILRHMAV ANALTLFLTIFPNNMMTFAPIIPQTDLKCKLEFFTRLVARSTNLCSTCVLSIHQFVTLVPV NSGKGILRASVTNMASYSCYSCWFFSVLNNIYIPIKVTGPQLTDNNNNSKSKLFCSTSDFS VGIVFLRFAHDATFMSIMVWTSVSMVLLLHRHCQRMQYIFTLNQDPRGQAETTATHTIL MLVVTFVGFYLLSLICIIFYTYFIYSHHSLRHCNDILVSGFPTISPLLLTFRDPKGPCSVFFN C

• NCBI's Protein Sequence:

"MSTHDTSLKTTEEVĀFQIILLCQFGVGTFANVFLFVYNFSPIST GSKQRPRQVILRHMAVANALTLFLTIFPNNMMTFAPIIPQTDLKCKLEFFTRLVARST NLCSTCVLSIHQFVTLVPVNSGKGILRASVTNMASYSCYSCWFFSVLNNIYIPIKVTG PQLTDNNNNSKSKLFCSTSDFSVGIVFLRFAHDATFMSIMVWTSVSMVLLLHRHCQRM QYIFTLNQDPRGQAETTATHTILMLVVTFVGFYLLSLICIIFYTYFIYSHHSLRHCND ILVSGFPTISPLLLTFRDPKGPCSVFFNC"

Task 2: Get protein sequence for DNA sequence (https://www.ncbi.nlm.nih.gov/nuccore/NM_008220.5), and compare it with sequence on NCBI website. Do you get same results?

• Your Protein Sequence:

MVHLTDAEKAAVSGLWGKVNADEVGGEALGRLLVVYPWTQRYFDSFGDLSSASAIMG NAKVKAHGKKVITAFNDGLNHLDSLKGTFASLSELHCDKLHVDPENFRLLGNMIVIVLG HHLGKDFTPAAQAAFQKVVAGVAAALAHKYH

• NCBI's Protein Sequence:

MVHLTDAEKAAVSGLWGKVNADEVGGEALGRLLVVYPWTQRYFD

SFGDLSSASAIMGNAKVKAHGKKVITAFNDGLNHLDSLKGTFASLSELHCDKLHVDPE

NFRLLGNMIVIVLGHHLGKDFTPAAQAAFQKVVAGVAAALAHKYH

Task 3: Get protein sequence for DNA sequence (https://www.ncbi.nlm.nih.gov/nuccore/NM 025580.2), and compare it with sequence on NCBI website. Do you get same results?

• Your Protein Sequence:

MAAVVAATALKGRGARNARVLRGILSGATANKASQNRTRALQSHSSPECKEEPEPLSPE LEYIPRKRGKNPMKAVGLAWAIGFPCGILFFVLTKQEVDKDRLKQMKARQNMRVSNTG EYESQRFRASPQQAQFPEVGSGAQT

• NCBI's Protein Sequence:

MAAVVAATALKGRGARNARVLRGILSGATANKASQNRTRALQSH SSPECKEEPEPLSPELEYIPRKRGKNPMKAVGLAWAIGFPCGILFFVLTKQEVDKDRL KQMKARQNMRVSNTGEYESQRFRASPQQAQFPEVGSGAQT

Task 4: Get protein sequence for DNA sequence (https://www.ncbi.nlm.nih.gov/nuccore/NM_009735.3), and compare it with sequence on NCBI website. Do you get same results?

• Your Protein Sequence: MARSVTLVFLVLVSLTGLYAIQKTPQIQVYSRHPPENGKPNILNCYVTQFHPPHIEIQML KNGKKIPKVEMSDMSFSKDWSFYILAHTEFTPTETDTYACRVKHASMAEPKTVYWDRD M

• NCBI's Protein Sequence:

MARSVTLVFLVLVSLTGLYAIQKTPQIQVYSRHPPENGKPNILN

CYVTQFHPPHIEIQMLKNGKKIPKVEMSDMSFSKDWSFYILAHTEFTPTETDTYACRV

KHASMAEPKTVYWDRDM

Task 5: Get protein sequence for DNA sequence (https://www.ncbi.nlm.nih.gov/nuccore/NM_011662), and compare it with sequence on NCBI website. Do you get same results?

• Your Protein Sequence:

MGALEPSWCLLFLPVLLTVGGLSPVQAQSDTFPRCDCSSVSPGVLAGIVLGDLVLTLLIA LAVYSLGRLVSRGQGTAEGTRKQHIAETESPYQELQGQRPEVYSDLNTQRQYYR

- NCBI's Protein Sequence:
- MGALEPSWCLLFLPVLLTVGGLSPVQAQSDTFPRCDCSSVSPGV LAGIVLGDLVLTLLIALAVYSLGRLVSRGQGTAEGTRKQHIAETESPYQELQGQRPEV YSDLNTQRQYYR

Task 6: Give a brief overview of your work, discussing any thoughts, successes or challenges you faced.

Overall I feel like I did a good job on this assignment. The function I wrote worked but it had a dew issues that we were able to fix. Once we fixed the function applying the HTML codes was easy and everything worked well.