

BCH 571 Bioinformatics for Life Scientists

Lab 2

Program 1- (call this lab2.1.py)

Write a program to translate a cDNA to a peptide sequence. Recall that translation starts with ATG (for this lab, assume it is the first ATG in the cDNA). Translation proceeds to a STOP codon. This lab is designed to give you experience using conditions and loops, therefore you should write your own loops and not use an available library to do the translation.

The cDNA sequence of GAPDH is provided in FASTA format. You can use this sequence as an example sequence.

The genetic code is provided as genetic_code.txt. You should read this file from disk as part of the program. The stop codons are indicated as *. Your output should be a file that provides the single letter amino acid code.