

Decipher the Hidden DNA Message - Transcription & Translation

Name _____ Date _____ Hr _____

Use the following DNA sequences and write down the corresponding mRNA sequence below it. Then, use the secret codon decoder on the back page to decipher the hidden message contained in the mRNA.

Hints: Every message must begin with START. Every message ends with a STOP codon.

DNA: TACTAAACTGATTAGTTCCTTACTAGTACATAGCTCTTAACACTTATCTGATTT

mRNA:

Secret Code:

DNA: TTGATACACCGTAATAACTCGGGCCCTTACTACCCTCACTGATCTTCGCGCATTATATTTGCCCACTTGGGTGTAATCGATTAGGCTA

mRNA:

Secret Code:

DNA: ATTACCTGTTGCGAACTTAAAGTACTGATTATAAACTTATTAAGTA

mRNA:

Secret Code:

DNA: TAACTACAAGTAATTGCTAACTTGTGTGCTCACTAGGCTCACATCCCTTTGTACTTACCTTAGCAGTCGCCCCCTTATCAA

mRNA:

Secret Code:

DNA: TACTACATAACTTACTAGTTGCTAACTTAAAGAACTTACCGTCCCTTATAGAAATAAACACTTTTGTGCATTGA

mRNA:

Secret Code:

Part 2:

Create your own sentence and write the mRNA sequence that would code for your sentence, and the corresponding DNA sequence.

Secret Code:

mRNA:

DNA:

Part 3:

Get a DNA sequence from a friend (without looking at the secret code!), write the mRNA sequence, and decode the secret message

DNA:

mRNA:

Secret Code:

