

BIO152 Cell Biology Worksheet 7 Gene X, Y and Z DNA transcription and translation Questions

1. 3'... CAA ACG GAG GAG CTT TAA CCT TAA...-5'

The above is a non-template (coding region) DNA strand sequence of Gene X. What is the mRNA sequence? Provide and label the 5' to 3' orientation of the transcript.

First, you need to write the complementary DNA strand (which will then become the template sequence):

5'...GTT TGC CTC CTC GAA ATT GGA ATT...-3'

Second, you need to transcribe the template DNA sequence to mRNA sequence. Remember that the DNA dependent RNA polymerase will use U instead of T in RNA.

3'...CAA ACG GAG GAG CUU UAA CCU UAA...-5'

Next, rewrite the transcript to show 5' to 3' (flip around) orientation for convention. Remember not to change any bases.

5'...AAU UCC AAU UUC GAG GAG GCA AAC...-3'

2. What is the protein sequence for this transcript, assuming that the first codon is the start of the protein?

Label the ends for amino and carboxy termini.
Use the Triplet Code table provided on the back page.

Now translate the mRNA transcript into the amino acid sequence.

(NH₂-)....Asn Ser Asn Phe Glu Glu Ala Asn....(-COOH)

Chapter 1 human Molecular Genetics Answers

G Thomas



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