

Name: _____

1. Consult a table of the universal genetic code (e.g. in your textbook) to transcribe and translate the DNA sequence below.

Use the DNA sequence below for questions 1-3.

DNA: TAC TAA ATG GTC CGA TTT ACC ACT



mRNA: AUG AUU UAC CAG GCU AAA UGG UGA



Protein: Met Leu Tyr Gln Ala Lys Arg Stop

2. Add a missense mutation to the DNA, then transcribe and translate.

DNA: TAC _____



mRNA: AUG _____



Protein: Met _____

3. Add a nonsense mutation to the DNA, then transcribe and translate.

DNA: TAC _____



mRNA: AUG _____



Protein: Met _____

4. Add a silent mutation to the DNA, transcribe and translate.

DNA: TAC _____



mRNA: AUG _____



Protein: Met _____

5. Add a frameshift mutation to the DNA, transcribe and translate.

DNA: TAC _____



mRNA: AUG _____



Protein: Met _____

6. Which type(s) of mutations affected the organism's genotype?

7. Which type(s) of mutations were most likely to affect the protein's function?

8. Which type(s) of mutations were least likely to affect the protein's function?

Ap Bio Operon Worksheet

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