

Types of Mutations Worksheet

Printable

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DNA Mutations Practice Worksheet

Name: _____ Date: _____

Directions: Transcribe and translate the original DNA sequence below to determine the correct order of amino acids. Then, do the same with the following mutated DNA sequences to determine the type and effect of each mutation.

Original DNA sequence:	TAC GCC ACG GTT ACC ATC
Transcribed mRNA:	
Amino acids:	

Compare to the original above:

Mutated DNA sequence:	TAC GCC AAC GGT TAC CAT C
Transcribed mRNA:	
Amino acids:	

Type of mutation (circle one):	Substitution	Insertion	Deletion
Effect of mutation on protein (circle one):	No change	One amino acid changed	Premature stop signal
Effect of mutation on protein (circle one):			All amino acids after the mutation changed

Compare to the original at the top of the paper:

Mutated DNA sequence:	TAC GCC ACC GTT ACC ATC
Transcribed mRNA:	
Amino acids:	

Type of mutation (circle one):	Substitution	Insertion	Deletion
Effect of mutation on protein (circle one):	No change	One amino acid changed	Premature stop signal
Effect of mutation on protein (circle one):			All amino acids after the mutation changed

Codon Chart:

	U	C	A
U	Phe Phe Leu Leu	Ser Ser Ser Ser	Tyr Tyr Trp Trp
C	Leu Leu Leu Leu	Pro Pro Pro Pro	Tra Tra Trp Trp
A	Ile Ile Ile Met		
G	Val Val Val Val		

The Biology Bar

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Key Included

Mutation Condition Worksheet

SB Merriam



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