

NAME _____
Mutations Worksheet - Deletion, Insertion & Substitution



There are several types of mutations:

- > **DELETION** (a base is lost/deleted)
- > **INSERTION** (an extra base is added/inserted)
 - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **SUBSTITUTION** (one base is substituted for another)
 - If a substitution **changes** the amino acid, it's called a **MISSENSE** mutation
 - If a substitution **does not change** the amino acid, it's called a **SILENT** mutation
 - If a substitution **changes the amino acid to a "stop,"** it's called a **NONSENSE** mutation



Complete the boxes below. Classify each as Deletion, Insertion or Substitution **AND** as either frameshift, missense, silent or nonsense (**Hint:** Deletion & Insertion will always be frameshift).

Original DNA Sequence: **T A C A C C T T G G C G A C G A C T ...**

mRNA Sequence: _____

Amino Acid Sequence: _____

Mutated DNA Sequence #1 **T A C A T C T T G G C G A C G A C T ...**

What's the mRNA sequence? _____ (Circle the change)

What will be the amino acid sequence? _____

Will there likely be effects? _____ What type of mutation is this? _____

Mutated DNA Sequence #2 **T A C G A C C T T G G C G A C G A C T ...**

What's the mRNA sequence? _____ (Circle the change)

What will be the amino acid sequence? _____

Will there likely be effects? _____ What type of mutation is this? _____

Mutated DNA Sequence #3 **T A C A C C T T A G C G A C G A C T ...**

What's the mRNA sequence? _____ (Circle the change)

What will be the amino acid sequence? _____

Will there likely be effects? _____ What type of mutation is this? _____

Mutated DNA Sequence #4 **T A C A C C T T G G C G A C T A C T ...**

What's the mRNA sequence? _____ (Circle the change)

What will be the amino acid sequence? _____

Will there likely be effects? _____ What type of mutation is this? _____

Identifying Mutations Biology Unit 7 Lesson 2 Answer

JR Anderson



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