

Mutations Practice

Name _____ Per. _____

There are several types of genetic mutations:

DELETION (a base is lost)

INSERTION (an extra base is inserted)

Deletion and insertion may cause what's called a **FRAMESHIFT**, meaning the reading "frame" changes, changing the amino acid sequence.

SUBSTITUTION (one base is substituted for another)

Substitutions cause **POINT MUTATIONS**.

If a substitution *changes* the amino acid, it's called a **MISSENSE** point mutation.

If a substitution *does not change* the amino acid, it's called a **SILENT** point mutation.

If a substitution *changes the amino acid to a "stop"*, it's called a **NONSENSE** point mutation.

➡ Complete the boxes below. Classify each as either Frameshift or Point mutations, then specify further with *Deletion, Insertion, or Substitution*. Use the chart on the following page in order to determine the amino acid sequence. Remember, RNA has Uracil instead of Thymine.

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

mRNA Sequence: A U G U G G A A C C G C U G C U G A

Amino Acid Sequence: Met - Trp - Asn - Arg - Cys - STOP

Mutated DNA Sequence #1: T A C A T C C T T G G C G A C G A C T

What's the mRNA sequence? (Circle the change) A U G U A G A A C C G C U G C U G A

What will be the amino acid sequence? Met - STOP

Will there likely be effects? YES!

What kind of mutation is this? Point Substitution - Nonsense

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) A U G C U G G A A C C G C U G C U G A

What will be the amino acid sequence? Met - Leu - Glu - Pro - Leu - Leu

Will there likely be effects? YES!

What kind of mutation is this? Frameshift Insertion

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) A U G U G G A A U C G C U G C U G A

What will be the amino acid sequence? Met - Trp - Asn - Arg - Cys - STOP

Will there likely be effects? No!

What kind of mutation is this? Point Substitution - Silent

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) A U G U G G A A C C G C U G A U G A

What will be the amino acid sequence? Met - Trp - Asn - Arg - STOP

Will there likely be effects? Yes!

What kind of mutation is this? Point Substitution - Nonsense

Mutated DNA Sequence #5: T A C A C C T T G G G A C G A C T

What will be the corresponding mRNA sequence? A U G U G G A A C C C U G C U G A

What will be the amino acid sequence? Met - Trp - Asn - Pro - Ala

Will there likely be effects? Yes!

What kind of mutation is this? Frameshift Deletion

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