

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 G 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

Mutations Worksheet Pogil

Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Mutations Worksheet Pogil:

Unveiling the Magic of Words: A Report on "**Mutations Worksheet Pogil**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mutations Worksheet Pogil**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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