

GENE MUTATIONS

Directions: Answer the questions below in the space provided.

1 A scientist discovered a mutation in a particular gene. However, the mutation did not change the protein produced from the gene sequence. What type of gene mutation most likely occurred. Circle your answer.

Insertion Deletion Substitution

2 Circle only amino acid below that has more than one codon.

Methionine Arginine Lysine

3 Circle the amino acid below that has only one codon.

Tryptophan Aspartic Acid

4 The DNA sequence of a particular gene is 90 nucleotides long. If a frameshift mutation occurs at the 30th base, how many amino acids will be unaffected by the mutation? Circle your answer.

10
30
59

Directions: Analyze the DNA sequences below. Shade in the location of the mutation and answer the questions.

5

Original DNA Sequence	A	A	T	T	A	A	C	C	G	C	C	C
Mutated DNA Sequence	A	A	T	T	A	A	C	C	A	C	C	C

Is the mutation an insertion, deletion, or substitution? _____

Is the mutation classified as a point or frameshift mutation? _____

6

Original DNA Sequence	A	A	A	T	T	C	C	C	G	G	G	G
Mutated DNA Sequence	A	A	A	T	T	G	C	C	C	G	G	G

Is the mutation an insertion, deletion, or substitution? _____

Is the mutation classified as a point or frameshift mutation? _____

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Original DNA Sequence	T	T	T	C	C	C	G	G	C	T	T	C
Mutated DNA Sequence	T	T	C	C	C	G	G	C	T	T	C	A

Is the mutation an insertion, deletion, or substitution? _____

Is the mutation classified as a point or frameshift mutation? _____

Genetic Mutations Packet Key

Guillaume Favre



Genetic Mutations Packet Key:

Genetic Mutations Packet Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Genetic Mutations Packet Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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