

# 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 30<sup>th</sup> 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? \_\_\_\_\_

**7**

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

**O García**



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