

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

Ying-Ying Zheng



Genetic Mutations Packet Key:

The book delves into Genetic Mutations Packet Key. Genetic Mutations Packet Key is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Genetic Mutations Packet Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Genetic Mutations Packet Key
- Chapter 2: Essential Elements of Genetic Mutations Packet Key
- Chapter 3: Genetic Mutations Packet Key in Everyday Life
- Chapter 4: Genetic Mutations Packet Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Genetic Mutations Packet Key. This chapter will explore what Genetic Mutations Packet Key is, why Genetic Mutations Packet Key is vital, and how to effectively learn about Genetic Mutations Packet Key.

3. In chapter 2, this book will delve into the foundational concepts of Genetic Mutations Packet Key. The second chapter will elucidate the essential principles that must be understood to grasp Genetic Mutations Packet Key in its entirety.

4. In chapter 3, this book will examine the practical applications of Genetic Mutations Packet Key in daily life. The third chapter will showcase real-world examples of how Genetic Mutations Packet Key can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Genetic Mutations Packet Key in specific contexts. The fourth chapter will explore how Genetic Mutations Packet Key is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Genetic Mutations Packet Key. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Genetic Mutations Packet Key.

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