

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? _____

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? _____

Gene Mutations Packet

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Velavancorresponding



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Table of Contents Gene Mutations Packet

1. Understanding the eBook Gene Mutations Packet
 - The Rise of Digital Reading Gene Mutations Packet
 - Advantages of eBooks Over Traditional Books
2. Identifying Gene Mutations Packet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gene Mutations Packet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gene Mutations Packet
 - Personalized Recommendations
 - Gene Mutations Packet User Reviews and Ratings
 - Gene Mutations Packet and Bestseller Lists
5. Accessing Gene Mutations Packet Free and Paid eBooks
 - Gene Mutations Packet Public Domain eBooks

- Gene Mutations Packet eBook Subscription Services
- Gene Mutations Packet Budget-Friendly Options
- 6. Navigating Gene Mutations Packet eBook Formats
 - ePub, PDF, MOBI, and More
 - Gene Mutations Packet Compatibility with Devices
 - Gene Mutations Packet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gene Mutations Packet
 - Highlighting and Note-Taking Gene Mutations Packet
 - Interactive Elements Gene Mutations Packet
- 8. Staying Engaged with Gene Mutations Packet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gene Mutations Packet
- 9. Balancing eBooks and Physical Books Gene Mutations Packet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gene Mutations Packet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gene Mutations Packet
 - Setting Reading Goals Gene Mutations Packet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gene Mutations Packet
 - Fact-Checking eBook Content of Gene Mutations Packet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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