

There are several types of mutation:

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)

If a substitution *changes* the amino acid, it's called a **MISSENSE** mutation.

If a substitution *does not change* the amino acid, it's called a **SILENT** mutation.

If a substitution *changes the amino acid to a "stop,"* it's called a **NONSENSE** mutation.

Complete the boxes below. Classify each as either Deletion, Insertion, or Substitution AND as either

frameshift, missense, silent or nonsense (hint: deletion or insertion will always be frameshift).

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: METHIONINE -TRYPTOPHAN - ASPARAGINE - ARGinine- CYSTEINE - (STOP)

Mutated DNA Sequence #1: **T A C A T C T T G G C G A C G A C T**

What's the mRNA sequence? A U G U A G A A C C G C U G C U G A (Circle the change)

What will be the amino acid sequence? METHIONINE -(STOP)

Will there likely be effects? YES What kind of mutation is this? SUBSTITUTION - NONSENSE

Mutations And Genetic Conditions Unit 7 Lesson 2

Answers

John Michels (Journalist)



Mutations And Genetic Conditions Unit 7 Lesson 2 Answers:

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Table of Contents Mutations And Genetic Conditions Unit 7 Lesson 2 Answers

1. Understanding the eBook Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - The Rise of Digital Reading Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - 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 Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Personalized Recommendations
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers User Reviews and Ratings
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers and Bestseller Lists
5. Accessing Mutations And Genetic Conditions Unit 7 Lesson 2 Answers Free and Paid eBooks
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers Public Domain eBooks
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers eBook Subscription Services

- Mutations And Genetic Conditions Unit 7 Lesson 2 Answers Budget-Friendly Options
- 6. Navigating Mutations And Genetic Conditions Unit 7 Lesson 2 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers Compatibility with Devices
 - Mutations And Genetic Conditions Unit 7 Lesson 2 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Highlighting and Note-Taking Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Interactive Elements Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
- 8. Staying Engaged with Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
- 9. Balancing eBooks and Physical Books Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Setting Reading Goals Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - Fact-Checking eBook Content of Mutations And Genetic Conditions Unit 7 Lesson 2 Answers
 - 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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