

## Mutations Practice

Name \_\_\_\_\_ Per. \_\_\_\_\_

There are several types of genetic mutations:

**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)

Substitutions cause **POINT MUTATIONS**.

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

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

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



Complete the boxes below. Classify each as either Frameshift or Point mutations, then specify further with *Deletion, Insertion, or Substitution*. Use the chart on the following page in order to determine the amino acid sequence. Remember, RNA has Uracil instead of Thymine.

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: Met - Trp - Asn - Arg - Cys - 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? (Circle the change) A U G U G A A C C G C U G C U G A

What will be the amino acid sequence? Met - STOP

Will there likely be effects? YES!

What kind of mutation is this? Point Substitution - Nonsense

Mutated DNA Sequence #2: T A C G A C C T T G G C G A C G A C T

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

What will be the amino acid sequence? Met - Leu - Glu - Pro - Leu - Leu

Will there likely be effects? YES!

What kind of mutation is this? Frameshift Insertion

Mutated DNA Sequence #3: T A C A C C T T A G C G A C G A C T

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

What will be the amino acid sequence? Met - Trp - Asn - Arg - Cys - STOP

Will there likely be effects? No!

What kind of mutation is this? Point Substitution - Silent

Mutated DNA Sequence #4: T A C A C C T T G G C G A C T A C T

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

What will be the amino acid sequence? Met - Trp - Asn - Arg - STOP

Will there likely be effects? Yes!

What kind of mutation is this? Point Substitution - Nonsense

Mutated DNA Sequence #5: T A C A C C T T G G G A C G A C T

What will be the corresponding mRNA sequence? A U G U G G A A C C C U G C U G A

What will be the amino acid sequence? Met - Trp - Asn - Pro - Ala

Will there likely be effects? Yes!

What kind of mutation is this? Frameshift Deletion

# Genetic Mutation Pogil Answer Key

**AW Rasmussen**



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## **Table of Contents Genetic Mutation Pogil Answer Key**

1. Understanding the eBook Genetic Mutation Pogil Answer Key
  - The Rise of Digital Reading Genetic Mutation Pogil Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Mutation Pogil Answer Key
  - 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 Genetic Mutation Pogil Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Mutation Pogil Answer Key
  - Personalized Recommendations
  - Genetic Mutation Pogil Answer Key User Reviews and Ratings
  - Genetic Mutation Pogil Answer Key and Bestseller Lists
5. Accessing Genetic Mutation Pogil Answer Key Free and Paid eBooks

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