

NAME \_\_\_\_\_

# Mutations Worksheet

## Deletion, Insertion & Substitution



There are several types of mutations:

- > **DELETION** (a base is lost/deleted)
  - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **INSERTION** (an extra base is added/inserted)
  - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **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 **Deletion**, **Insertion** or **Substitution** **AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & 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: 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? A U G U A G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - 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? A U G C U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? yes What type of mutation is this? insertion - frameshift

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? A U G U G G A A T C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? no What type of mutation is this? point mutation - 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? A U G U G G A A C C G C U G A U G A (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

# Genetic Mutation Packet Answer Key

**William B. Collier**



## **Genetic Mutation Packet Answer Key:**

## Adopting the Beat of Appearance: An Emotional Symphony within **Genetic Mutation Packet Answer Key**

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<https://staging.conocer.cide.edu/About/detail/HomePages/Jeffus%20Study%20Guide.pdf>

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

1. Understanding the eBook Genetic Mutation Packet Answer Key
  - The Rise of Digital Reading Genetic Mutation Packet Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Mutation Packet 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 Packet Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Mutation Packet Answer Key
  - Personalized Recommendations

- Genetic Mutation Packet Answer Key User Reviews and Ratings
- Genetic Mutation Packet Answer Key and Bestseller Lists
- 5. Accessing Genetic Mutation Packet Answer Key Free and Paid eBooks
  - Genetic Mutation Packet Answer Key Public Domain eBooks
  - Genetic Mutation Packet Answer Key eBook Subscription Services
  - Genetic Mutation Packet Answer Key Budget-Friendly Options
- 6. Navigating Genetic Mutation Packet Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Genetic Mutation Packet Answer Key Compatibility with Devices
  - Genetic Mutation Packet Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetic Mutation Packet Answer Key
  - Highlighting and Note-Taking Genetic Mutation Packet Answer Key
  - Interactive Elements Genetic Mutation Packet Answer Key
- 8. Staying Engaged with Genetic Mutation Packet Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetic Mutation Packet Answer Key
- 9. Balancing eBooks and Physical Books Genetic Mutation Packet Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetic Mutation Packet Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Genetic Mutation Packet Answer Key
  - Setting Reading Goals Genetic Mutation Packet Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetic Mutation Packet Answer Key
  - Fact-Checking eBook Content of Genetic Mutation Packet 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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When Amanda convinces Tom to bring home from his workplace a “gentleman caller” for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams – The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams – The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ...

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