

# Genetic Mutations

What mistakes can occur when DNA is replicated?

## Why?

The genes encoded in your DNA result in the production of proteins that perform specific functions within your cells. Various environmental factors and spontaneous events can lead to changes in genes. These changes, called **mutations**, can lead to alterations in the structure and activity of the proteins your cells use in their daily activities. In other words, changes to your genotype can result in changes to your phenotype. We all have mutations in most of our body cells—yet we are, for the most part, normal and functional human beings. How can that be?

## Model 1 – Gene Mutations

### Sequence 1 (normal)

DNA sequence	... T A C G T A G T C A C C T A A T G G A T C ...
mRNA sequence	A U G C A U C A G U G G A U U A C C U A G
Amino acid sequence	Met His Gln Trp Ile Thr stop

### Sequence 2 (substitution)

DNA sequence	... T A C G T A G T C A G C T A A T G G A T C ...
mRNA sequence	A U G C A U C A G U C G A U U A C C U A G
Amino acid sequence	Met His Gln Ser Ile Thr stop

### Sequence 3 (insertion)

DNA sequence	... T A C G T A T G T C A C C T A A T G G A T C ...
mRNA sequence	A U G C A U A C A G U G G A U U A C C U A G ...
Amino acid sequence	Met His Thr Val Asp Tyr Leu...

### Sequence 4 (deletion)

DNA sequence	... T A C G T A G T C C C T A A T G G A T C ...
mRNA sequence	A U G C A U C A G G G A U U A C C U A G ...
Amino acid sequence	Met His Gln Gly Leu Pro...

1. How many nucleotides are present in the "normal" DNA sequence in Model 1?  
21 nucleotides
2. How many codons are contained in the mRNA that is produced by the "normal" DNA in Model 1?  
7 codons (triplets)
3. How many amino acids will be in the polypeptide produced by the normal DNA/mRNA sequence?  
7 amino acids

# Gene Mutation Activity Answer Key

**R Barnett**



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## **Table of Contents Gene Mutation Activity Answer Key**

1. Understanding the eBook Gene Mutation Activity Answer Key
  - The Rise of Digital Reading Gene Mutation Activity Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Gene Mutation Activity 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 Gene Mutation Activity Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gene Mutation Activity Answer Key
  - Personalized Recommendations
  - Gene Mutation Activity Answer Key User Reviews and Ratings
  - Gene Mutation Activity Answer Key and Bestseller Lists
5. Accessing Gene Mutation Activity Answer Key Free and Paid eBooks
  - Gene Mutation Activity Answer Key Public Domain eBooks
  - Gene Mutation Activity Answer Key eBook Subscription Services
  - Gene Mutation Activity Answer Key Budget-Friendly Options
6. Navigating Gene Mutation Activity Answer Key eBook Formats

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