

# 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 Mutations Pogil Activites Answers

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Conclusion: Embracing the Kindle Experience

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## **Table of Contents Gene Mutations Pogil Activites Answers**

1. Understanding the eBook Gene Mutations Pogil Activites Answers
  - The Rise of Digital Reading Gene Mutations Pogil Activites Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Gene Mutations Pogil Activites 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 Gene Mutations Pogil Activites Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gene Mutations Pogil Activites Answers
  - Personalized Recommendations
  - Gene Mutations Pogil Activites Answers User Reviews and Ratings
  - Gene Mutations Pogil Activites Answers and Bestseller Lists
5. Accessing Gene Mutations Pogil Activites Answers Free and Paid eBooks
  - Gene Mutations Pogil Activites Answers Public Domain eBooks
  - Gene Mutations Pogil Activites Answers eBook Subscription Services
  - Gene Mutations Pogil Activites Answers Budget-Friendly Options
6. Navigating Gene Mutations Pogil Activites Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Gene Mutations Pogil Activites Answers Compatibility with Devices
  - Gene Mutations Pogil Activites Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gene Mutations Pogil Activites Answers
  - Highlighting and Note-Taking Gene Mutations Pogil Activites Answers
  - Interactive Elements Gene Mutations Pogil Activites Answers

8. Staying Engaged with Gene Mutations Pogil Activites Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gene Mutations Pogil Activites Answers
9. Balancing eBooks and Physical Books Gene Mutations Pogil Activites Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gene Mutations Pogil Activites Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gene Mutations Pogil Activites Answers
  - Setting Reading Goals Gene Mutations Pogil Activites Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gene Mutations Pogil Activites Answers
  - Fact-Checking eBook Content of Gene Mutations Pogil Activites 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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