

# 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**

# Genetic Mutation Packet Answer Key

**LP Steffe**



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## **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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