

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 <u>G</u> C T A A T G G A T C ...
mRNA sequence	A U G C A U C A G U <u>C</u> G A U U A C C U A G
Amino acid sequence	Met His Gln <u>Ser</u> Ile Thr stop

Sequence 3 (insertion)

DNA sequence	... T A C G T A T <u>G</u> 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 <u>C</u> 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 Pogil Answer Key

N Colangelo



Genetic Mutation Pogil Answer Key:

Unveiling the Magic of Words: A Review of "**Genetic Mutation Pogil Answer Key**"

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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
 - Genetic Mutation Pogil Answer Key Public Domain eBooks
 - Genetic Mutation Pogil Answer Key eBook Subscription Services
 - Genetic Mutation Pogil Answer Key Budget-Friendly Options
6. Navigating Genetic Mutation Pogil Answer Key eBook Formats
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 - 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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