

# 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>A</u> 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 Mutations Ap Bio Pogil Answers

**Puja Mehta**



## **Genetic Mutations Ap Bio Pogil Answers:**

The book delves into Genetic Mutations Ap Bio Pogil Answers. Genetic Mutations Ap Bio Pogil Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Genetic Mutations Ap Bio Pogil Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Genetic Mutations Ap Bio Pogil Answers
    - Chapter 2: Essential Elements of Genetic Mutations Ap Bio Pogil Answers
    - Chapter 3: Genetic Mutations Ap Bio Pogil Answers in Everyday Life
    - Chapter 4: Genetic Mutations Ap Bio Pogil Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Genetic Mutations Ap Bio Pogil Answers. This chapter will explore what Genetic Mutations Ap Bio Pogil Answers is, why Genetic Mutations Ap Bio Pogil Answers is vital, and how to effectively learn about Genetic Mutations Ap Bio Pogil Answers.
  3. In chapter 2, this book will delve into the foundational concepts of Genetic Mutations Ap Bio Pogil Answers. The second chapter will elucidate the essential principles that must be understood to grasp Genetic Mutations Ap Bio Pogil Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Genetic Mutations Ap Bio Pogil Answers in daily life. This chapter will showcase real-world examples of how Genetic Mutations Ap Bio Pogil Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Genetic Mutations Ap Bio Pogil Answers in specific contexts. The fourth chapter will explore how Genetic Mutations Ap Bio Pogil Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Genetic Mutations Ap Bio Pogil Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Genetic Mutations Ap Bio Pogil Answers.

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