

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

Unit 07 Mutation And Genetic Conditions Answer Key

JR Anderson



Unit 07 Mutation And Genetic Conditions Answer Key:

Unit 07 Mutation And Genetic Conditions Answer Key Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Unit 07 Mutation And Genetic Conditions Answer Key**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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