

# 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

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Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office, 1999

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