

# 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 Worksheet Answer Key

**R Pring**



## **Genetic Mutation Worksheet Answer Key:**

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*Test No. 490: In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene* Organisation de coopération et de développement économiques, 2015 The in vitro mammalian cell gene mutation test can be used to detect gene mutations induced by chemical substances This TG includes two distinct in vitro mammalian gene mutation assays requiring two specific tk heterozygous cells lines L5178Y tk 3 7 2C cells for the mouse lymphoma assay MLA and TK6 tk cells for the TK6 assay Genetic events detected using the tk locus include both gene mutations and chromosomal events Cells in suspension or monolayer culture are exposed to at least four analysable concentrations of the test substance both with and without metabolic activation for a suitable period of time They are subcultured to determine cytotoxicity and to allow phenotypic expression prior to mutant selection Cytotoxicity is usually determined by measuring the relative cloning efficiency survival or relative total growth of the cultures after the treatment period The treated cultures are maintained in growth medium for a sufficient period of time characteristic of each selected locus and cell type to allow near optimal phenotypic expression of induced mutations Mutant frequency is determined by seeding known numbers of cells in medium containing the selective agent to detect mutant cells and in medium without selective agent to determine the cloning efficiency viability After a suitable incubation time colonies are counted

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