

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 ...
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Léo Pomar



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