# 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

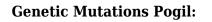
Amino acid sequence Met His Gln Ser Ile Thr stop

# 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...

# **Genetic Mutations Pogil**

Jianjun Gao



Unveiling the Power of Verbal Beauty: An Psychological Sojourn through Genetic Mutations Pogil

In a world inundated with monitors and the cacophony of quick interaction, the profound energy and emotional resonance of verbal art frequently diminish into obscurity, eclipsed by the regular assault of sound and distractions. Yet, nestled within the musical pages of **Genetic Mutations Pogil**, a charming work of fictional splendor that pulses with fresh feelings, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus books viewers on an emotional odyssey, softly revealing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is main subjects, dissect its charming writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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