Deletion, Insertion & Substitution

There are several types of mutations

- > DELETION (a base is lost/deleted)
- > INSERTION (on extra base is added/inserted)
 - --- Deletion & insertion may cause what's called a FRAMESHIFT mutation, meaning the reading "frame" changes, thus changing the amino acid sequence from this point forward
- > SUBSTITUTION (one base is substituted for another)
 - --- If a substitution changes the amino acid, it's called a MISSENSE mutation
 - --- If a substitution does not change the amino acid, it's called a SILENT mutation
 - --- If a substitution changes the amine acid to a "stop," it's called a NONSENSE mutation



Complete the boxes below. Classify each as **Deletion**, **Insertion** or **Substitution AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & Insertion will always be frameshift).

Original DNA Sequence: TACACCTTGGCGACGACT...

MRNA Sequence: AUGUGGAACCGCUGCUGA

MET-TRP-ASN-ARG-CYS-STOP

What's the mRNA sequence? A U G U A G A A C C G C U G C U G A (Circle the change)

amino acid sequence? Wes What type of mutation is this? __point mutation - nonsense

Mutated DNA Sequence #2 T A C G A C C T T G G C G A C G A C T ...

What's the mRNA sequence? A U G O U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? Yes What type of mutation is this? insertion - frameshift

What's the mRNA sequence? A U G U G G A A U C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? BO What type of mutation is this? Point mutation - silent

Mutaced DNA Sequence #4 TACACCTTGGCGACTACT...

What's the mRNA sequence? AUGUGGAACCGCUUUGA (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? Yes What type of mutation is this? Point mutation - nonsense

Gene Mutations And Proteins Answers

Tao Wei

Gene Mutations And Proteins Answers:

Decoding Gene Mutations And Proteins Answers: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gene Mutations And Proteins Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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