

Mutations Worksheet KEY

Original DNA: T A C A C C T T G G C G A C G A C T

Original mRNA: A U G U G G A A C C G C U G C U G A

Original Amino Acid Sequence: Met-Trp-Asn-Arg-Cys-STOP

Mutated mRNA #1: A U G U A G A A C C G C U G C U G A

Mutated AA Sequence: Met-STOP-Asn-Arg-Cys-STOP

Likely Effects: Yes, altering the function of the protein.

Mutation Type: point nonsense mutation

Mutated mRNA #2: A U G C U G G A A A C C G C U G C U G A

Mutated AA Sequence: Met-Leu-Glu-Pro-Leu-Leu

Likely Effects: Yes, creating a mutant protein.

Mutation Type: frameshift insertion mutation

Mutated mRNA #3: A U G U G G A A U C G C U G C U G A

Mutated AA Sequence: Met-Trp-Asn-Arg-Cys-STOP

Likely Effects: none

Mutation Type: silent mutation

Mutated mRNA #4: A U G U G G A A C C G C U G A U G A

Mutated AA Sequence: Met-Trp-Asn-Arg-STOP-STOP

Likely Effects: Yes, prematurely stopping the formation of the protein so it won't be made.

Mutation Type: point nonsense mutation

Mutated mRNA #5: A U G U G G A A C C C U G C U G A

Mutated AA Sequence: Met-Trp-Asn-Pro-Ala-

Likely Effects: Yes, creating a mutant protein

Mutation Type: frameshift deletion mutation

Genetic Code Answer Key

Tao Wei

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Genetic Code Answer Key:

Genetic Code Answer Key Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Genetic Code Answer Key**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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