BILL-MUTATIONS



Both of these mutations put an Adenine (A) where it doesn’t belong in the DNA code
 but they DON’T HAVE THE SAME IMPACT on the resulting protein produced.

Mutation #1 is an example of which type of mutation ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mutation #2 is an example of which type of mutation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How might Mutation #1 affect the protein produced?

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How might Mutation #2 affect the protein produced?

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Which of these is likely to cause the most disruption in the amino acid sequence of the protein
this gene codes for? EXPLAIN YOUR ANSWER

WHAT’S THE DIFFERENCE? COMPARE & CONTRAST:
MISSENSE, NONSENSE, and SILENT mutations.

USE YOUR CODON CHART.
Choose an mRNA codon and show how a substitution could produce each one of the above.