DNA Quiz 3/3: Mutations

Use the following base sequence of one strand of an imaginary DNA molecule.

AAT TGA ACA CAT GCG CCC

1. Write the base sequence for an mRNA strand that would be transcribed from the original DNA sequence.

2. Determine the sequence of amino acids in the resulting protein fragment.

3. If the fifth base in the original DNA strand were changed from a G to a C, determine the new mRNA strand.

4. Write the new protein fragment.

5. If G were added to the original DNA strand after the third base, what would the resulting mRNA look like?

6. Determine the amino acid sequence resulting from this mutation.

7. What type of mutation was found in number 4? Number 6?