

Identifying the Mutation

Analyze the following:

- Substitution mutation:** the change of one nucleotide in a sequence resulting in a silent mutation (no effect on protein structure) or missense mutation (change in protein structure) or nonsense mutation (change in protein structure and premature termination of the protein).
- Insertion mutation:** the addition of one or more nucleotides to a sequence (frameshift mutation).
- Deletion mutation:** the removal of one or more nucleotides from a sequence (frameshift mutation).
- Frameshift mutation:** a mutation that changes the reading frame of a sequence, resulting in a premature termination of the protein.
- Point mutation:** a mutation that changes a single nucleotide in a sequence, resulting in a silent mutation, missense mutation, or nonsense mutation.
- Indel mutation:** a mutation that changes the number of nucleotides in a sequence, resulting in a frameshift mutation.
- Repeat expansion:** a mutation that increases the number of repeats of a specific sequence in a gene.
- Truncation:** a mutation that results in a premature termination of a protein, resulting in a shorter protein.

Identify the type of mutation and the effect on the protein structure. (Hint: Look for changes in the number of nucleotides, the sequence of nucleotides, and the presence of stop codons.)

Changes in DNA Sequence	Identify the Type of Mutation
1. Original DNA: ATG GCG TGG GCG GCG GCG Copied DNA: ATG GCG TGG GCG GCG GCG	Substitution
2. Original DNA: GAG GCG TGG GCG GCG GCG Copied DNA: GAG GCG TGG GCG GCG GCG	Point
3. Original DNA: ATG GCG TGG GCG GCG GCG Copied DNA: ATG GCG TGG GCG GCG GCG	Indel
4. Original DNA: TGG GCG TGG GCG GCG GCG Copied DNA: TGG GCG TGG GCG GCG GCG	Indel
5. Original DNA: C GCG GCG GCG GCG GCG Copied DNA: C GCG GCG GCG GCG GCG	Frameshift

Answers Of Biology Science Unit 07 Lesson

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Kraly**

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