

Identifying the Mutation

Identify the following:

- Substitution mutation:** the replacement of one nucleotide in a sequence. Substitution mutations can be categorized into silent, missense, and nonsense mutations based on the effect they have on the protein sequence. Silent mutations do not change the amino acid sequence, missense mutations change one amino acid, and nonsense mutations introduce a premature stop codon.
- Insertion mutation:** the addition of one or more nucleotides into a DNA sequence.
- Deletion mutation:** the removal of one or more nucleotides from a DNA sequence.
- Frameshift mutation:** a mutation that shifts the reading frame of a gene, typically caused by insertions or deletions of nucleotides that are not multiples of three.
- Point mutation:** a mutation that affects a single nucleotide in a DNA sequence.
- Indel mutation:** a mutation that involves the insertion or deletion of one or more nucleotides.
- Repeat expansion:** a mutation where a sequence of DNA is repeated multiple times.
- Truncation:** a mutation that results in a shorter protein, often due to a premature stop codon.

mutations, and a strategy that involves identifying the type of mutation (e.g., substitution, insertion, deletion) and then analyzing the effect of the mutation on the protein sequence. For example, a substitution mutation that changes a single nucleotide can be identified by comparing the original and mutated DNA sequences. If the mutation is a silent mutation, the amino acid sequence will remain the same. If it is a missense mutation, the amino acid sequence will change. If it is a nonsense mutation, the protein will be truncated.

Changes in DNA Sequence	Identify the Type of Mutation
1. Original DNA: <code>ATG GCG TGG CCG GCG</code> Copied DNA: <code>ATG GCG TGG CCG GCG</code>	Substitution
2. Original DNA: <code>CGA GTC TAA GCG TCG</code> Copied DNA: <code>CGA GTC TAA GCG TCG</code>	Point
3. Original DNA: <code>ATG GCG TGG CCG GCG</code> Copied DNA: <code>ATG GCG TGG CCG GCG</code>	Insertion
4. Original DNA: <code>T GCG TCG GCG TCG</code> Copied DNA: <code>T GCG TCG GCG TCG</code>	Deletion
5. Original DNA: <code>C GCG GCG GCG TCG</code> Copied DNA: <code>C GCG GCG GCG TCG</code>	Frameshift

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