

Identifying the Mutation

Analyze the following:

- Substitution mutation:** the change of one nucleotide in a sequence resulting in a silent mutation (the amino acid sequence remains the same) or missense mutation (the amino acid sequence is changed) or nonsense mutation (the amino acid sequence is changed and a premature stop codon is introduced).
- 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 results in a change in the reading frame of a sequence, usually caused by insertion or deletion of a number of nucleotides that is not a multiple of three.
- Point mutation:** a mutation that results in a change in a single nucleotide (silent, missense, or nonsense mutation).
- Indel mutation:** a mutation that results in the insertion or deletion of one or more nucleotides (frameshift mutation).
- Repeat expansion:** a mutation that results in the expansion of a sequence (frameshift mutation).
- Point substitution:** a mutation that results in a change in a single nucleotide (silent, missense, or nonsense mutation).
- Frameshift:** a mutation that results in a change in the reading frame of a sequence, usually caused by insertion or deletion of a number of nucleotides that is not a multiple of three.

Identify the type of mutation that caused the change in the amino acid sequence. Remember that a silent mutation does not change the amino acid sequence, a missense mutation changes one amino acid, and a nonsense mutation changes one amino acid to a premature stop codon.

Change in DNA Sequence	Identify the Type of Mutation
Original DNA: <code>ATG GCG TGG GCG GCG GCG</code> Copied DNA: <code>ATG GCG TGG GCG GCG GCG</code>	Substitution
Original DNA: <code>ATG GCG TGG GCG GCG GCG</code> Copied DNA: <code>ATG GCG TGG GCG GCG GCG</code>	Substitution
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Identifying Mutations Biology Unit 7 Lesson 2 Answer

L Cohen



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