

Chapter 17

Due: 11:59pm on Monday, December 14, 2020

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)

Point Mutations

DNA polymerase is very accurate and rarely makes a mistake in DNA replication. Occasionally, however, an error in replication, known as a point mutation, is introduced. There are two general categories of point mutations—frameshift mutations (also called base-pair insertions or base-pair deletions) and base substitution mutations (shown in the diagram).



Part A - Base substitution mutations and frameshift mutations

If a segment of DNA were replicated without any errors, the replicated strand would have the following sequence of nucleobases:
5' - ACTACGTGA - 3'

Sort the following replicated DNA sequences by the type of point mutation each contains (frameshift, base substitution, or neither), as compared to the correct sequence shown above.

Sort the items into the appropriate bins.

Hint 1. How to approach the problem

In order to determine the type of point mutation contained in a DNA sequence, it is helpful to write the mutated sequences below the correct sequence so you can see the differences. The table below displays examples:

Correct Sequence	ATGCAT
Substitution 1	ATC-CAT
Substitution 2	ATGC T T
Frameshift 1	ATGG-CAT
Frameshift 2	ATC-AT

Frameshift mutations will change the number of nucleobases in a sequence; base substitution mutations will change the composition of the sequence but not the number of nucleobases.

Hint 2. How many bases are in each mutated segment?

The correct DNA sequence contains nine bases. Which of the mutated sequences also contain(s) nine bases?

Select all that apply.

ANSWER:

- ☐ 5' - ACTTACGTGA - 3'
- ☐ 5' - ACTCOTGA - 3'
- ☒ 5' - ACTAAGTGA - 3'
- ☒ 5' - ACTACGTGT - 3'

ANSWER:

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Jin-Ying Zhang



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