

SC.912.L.16.3 – DNA Replication – Example 7 Answer

Which of the following would most likely cause a mutation?

- A. the placement of ribosomes on the endoplasmic reticulum**
- B. the insertion of a nucleotide into DNA**
- C. the movement of transfer RNA out of the nucleus**
- D. the release of messenger RNA from DNA**

Answer

B. the insertion of a nucleotide into DNA.

Mutations are caused by changes in the DNA sequence. The insertion of just one nucleotide would change the sequence and alter the amino acids that are coded from that particular piece of DNA.