



There are several types of mutations:

- ▷ **DELETIONS** (a base is missing)
- ▷ **INSERTIONS** (a base is added)
- Deletion & insertion may occur which is called a **FRAMESHIFT** mutation, meaning the reading "frame" changes, that changing the amino acid sequence from that point forward.
- ▷ **SUBSTITUTIONS** (a base is substituted for another)
  - If a substitution **changes** the amino acid, it's called a **MISSENSE** mutation.
  - If a substitution **does not change** the amino acid, it's called a **SILENT** mutation.
  - If a substitution **changes** the amino acid for a "stop," it's called a **STOPGAIN** mutation.



Complete the investigations. Clearly mark a Deletion, Insertion or Substitution **AND** whether **FRAMESHIFT**, **MISSENSE**, **SILENT** or **STOPGAIN**. Deletion & Insertion will always be **FRAMESHIFT**.

Original DNA Sequence: T A C A C C T T G G C C A C A C G A C T  
 mRNA Sequence: A U G U G G A A C C G G U G C G A C G A C  
 Amino Acid Sequence: Met - Trp - Arg - Arg - Cys - Ser

Mutated DNA Sequence: T A C A C C T T G G C C A C A C G A C T  
 What's the mRNA Sequence? A U G U G G A A C C G G U G C G A C G A C (Circle the change)  
 Amino Acid Sequence? Met - Trp  
 Will there likely be effects? Yes What type of mutation is this? point mutation - missense

Mutated DNA Sequence: T A C A C C T T G G C C A C A C G A C T  
 What's the mRNA Sequence? A U G U G G A A C C G G U G C G A C G A C (Circle the change)  
 Amino Acid Sequence? Met - Trp - Arg - Trp - Arg - Ser  
 Will there likely be effects? Yes What type of mutation is this? insertion - frameshift

Mutated DNA Sequence: T A C A C C T T G G C C A C A C G A C T  
 What's the mRNA Sequence? A U G U G G A A C C G G U G C G A C G A C (Circle the change)  
 Amino Acid Sequence? Met - Trp - Arg - Arg - Cys - Ser  
 Will there likely be effects? No What type of mutation is this? point mutation - silent

Mutated DNA Sequence: T A C A C C T T G G C C A C A C T  
 What's the mRNA Sequence? A U G U G G A A C C G G U G C G A C G A C (Circle the change)  
 Amino Acid Sequence? Met - Trp - Arg - Arg - Ser  
 Will there likely be effects? Yes What type of mutation is this? point mutation - missense

# Exploring Types Of Mutations Answer Key

**Daniel F McAuley**



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