#### Deletion, Insertion & Substitution

There are several types of mutations

- > DELETION (a base is lost/deleted)
- > INSERTION (on extra base is added/inserted)
  - --- Deletion & insertion may cause what's called a FRAMESHIFT mutation, meaning the reading "frame" changes, thus changing the amino acid sequence from this point forward
- > SUBSTITUTION (one 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 amine acid to a "stop," it's called a NONSENSE mutation



Complete the boxes below. Classify each as **Deletion**, **Insertion** or **Substitution AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & Insertion will always be frameshift).

Original DNA Sequence: TACACCTTGGCGACGACT...

MRNA Sequence: AUGUGGAACCGCUGCUGA

MET-TRP-ASN-ARG-CYS-STOP

Mutated DNA Sequence #1 TACATCTTGGCGACGACT...

What's the mRNA sequence? AUGUAGAACCGCUGCUGA (Circle the change)

amino acid sequence? WET-STOP

Will there likely be effects? Yes What type of mutation is this? Point mutation - nonsense

Mutated DNA Sequence #2 T A C G A C C T T G G C G A C G A C T ...

What's the mRNA sequence? A U G O U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? Yes What type of mutation is this? insertion - frameshift

What's the mRNA sequence? A U G U G G A A U C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? DO What type of mutation is this? point mutation - silent

Mutaced DNA Sequence #4 TACACCTTGGCGACTACT...

What's the mRNA sequence? AUGUGGAACCGCUUUGA (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? Yes What type of mutation is this? Point mutation - nonsense

# **Gene Mutation Worksheet Answers**

**Terry C. Jones** 

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