

Mutations

Mutation = a change in the number, type, or order of bases on a piece of DNA

• a mutation can be good, bad, or have no effect

"Correct Gene"
CAGTAG

Mutation	What Happens?	Example
Deletion	occurs when a base is left out	CA <u>-</u> TAG
Insertion	occurs when a base is added	CAG <u>A</u> TAG
Substitution	occurs when the wrong base is used	CA <u>T</u> TAG

Real Life Example:

Sickle Cell Anemia is caused by a substitution mutation, this mutation causes red blood cells to become sickle (half moon) shaped

Normal RBC



Sickle Cell RBC

