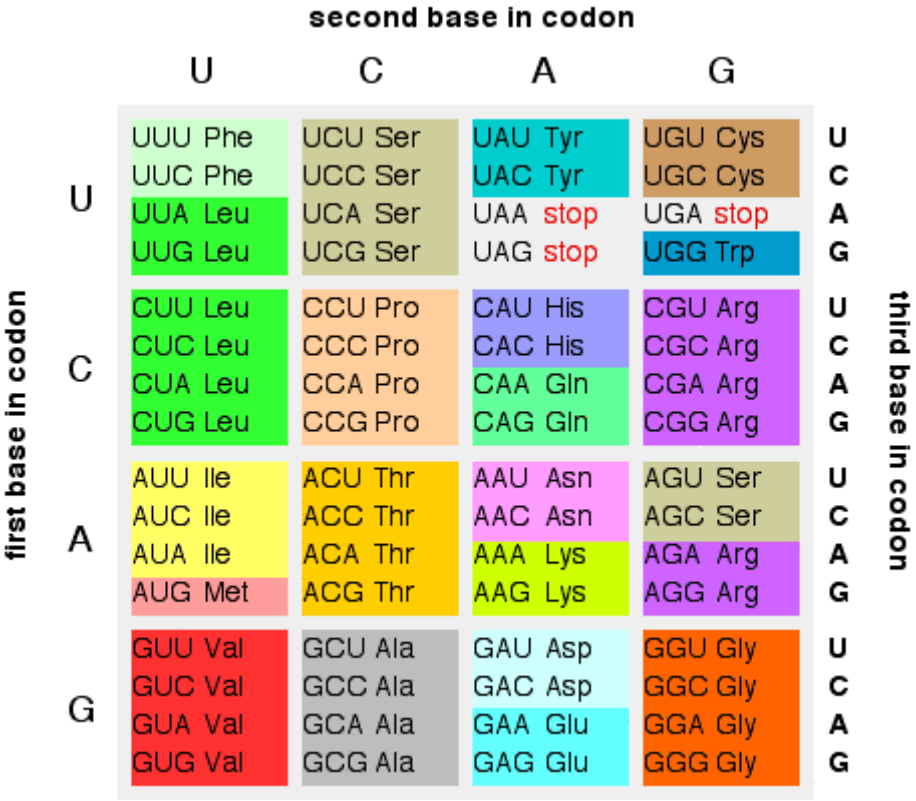
Vocabulary

- Mutations
- Mutagens
- Gene Mutations
- Chromosomal Mutations
- Gametes
- Protein
- Point Mutation
- Substitution Mutation
- Insertion Mutation
- Deletion Mutation
- Frameshift Mutation
- Deletion Chromosome Mutation
- Duplication Chromosome Mutation
- Inversion Chromosome Mutation
- Translocation Chromosome Mutation
- Sickle Cell Anemia
- Polyploidy

Check Your Understanding

See if you can identify each of these changes in DNA and explain its effect on an organism. Use the mRNA codon chart below to help answer the questions in the table.

mRNA Codon Chart



Change in DNA	Type of mutation	How many amino acids are changed?
CCC → CCA		
AAA → AAU		
CCG-AAA-GGG → CCG-AAG-GG		
AAU-CCC → AAA-UCC-C		
UUU-GGC-AAA → UUG-GCA-AA		