

**MUTATIONS ASSIGNMENT 2005**

Name: \_\_\_\_\_

Translate each DNA sequence into an amino acid sequence (use abbreviations). Assume the mutation is harmful if the amino acid sequence has changed, otherwise it is neutral. Also specifically identify the type of mutation as one of these:

**1 - Point Mutation: Substitution, 2 - Point Mutation: Insertion, 3 - Point Mutation: Deletion**

DNA sequence (1 <sup>st</sup> strand = without mutation, 2 <sup>nd</sup> strand= with mutation)	Amino Acid Sequence	Harmful or Neutral?	Type of mutation (1,2 or 3)
AAG - CCC - GGC - AAA AAG - ACC - CGG - CAA - A			
AAG - CCC - GGC - AAA AAG - ACC - GGC - AAA			
AAG - CCC - GGC - AAA AAC - CCG - GCA - AA			
AAG - CCC - GGC - AAA AAG - CCU - GGC - AAA			