

CH 114 DNA Practice

Original Strand: 5' CAT ATG GGC CGG ATG AAG AGC 3'

- 1) What is the sequence of the daughter or template strand formed from the original strand of DNA?
  
- 2) What is the sequence of mRNA formed from the original strand of DNA?
  
- 3) How many amino acids are coded for if the original strand contains no start or stop codons?
  
- 4) What is the sequence of amino acids coded for by this DNA?
  
- 5) If in a different strand of DNA a mutation occurred that changed the original sequence of base pairs. What, if any, changes would result in the amino acid sequence for each of the mutations listed below? Briefly explain each answer. All codons are written with the 5' end on the left and the 3' end on the right.
  - a) TTA became TTC
  
  - b) AGA became CGA
  
  - c) AAA became AAC

