

### Transcription and Translation Practice Worksheet

For each of the following sequences, fill in either the DNA, the mRNA sequence, the tRNA anticodons, or the amino acid sequences that have been left blank. If several sequences might work choose any one.

1. DNA \_\_\_\_\_  
 mRNA AUG ACU AGC UGG GGG UAU UAC UUU UAG  
 tRNA \_\_\_\_\_  
 AA \_\_\_\_\_

2. DNA TAC CGC TCC GCC GTC GAC AAT ACC ACT  
 mRNA \_\_\_\_\_  
 tRNA \_\_\_\_\_  
 AA \_\_\_\_\_

3. DNA \_\_\_\_\_  
 mRNA \_\_\_\_\_  
 tRNA UAC CAC CCC CGU AUG GCU GGG AAU AUC  
 AA \_\_\_\_\_

4. DNA \_\_\_\_\_  
 mRNA \_\_\_\_\_  
 tRNA \_\_\_\_\_  
 AA MET ARG GLY PHE PHE MET VAL GLY (STOP)

5. DNA TAC \_\_\_\_\_ATG\_\_\_\_\_  
 mRNA \_\_\_\_\_UGU GAU \_\_\_\_\_  
 tRNA \_\_\_\_\_CUC\_\_\_\_\_UUU\_\_\_\_\_AUU  
 AA \_\_\_\_\_ALA\_\_\_\_\_PRO\_\_\_\_\_