

Name **KEY**

Date

Transcription and Translation Worksheet

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

1. DNA TAC TGA TCG ACC CCC ATA ATG ATG AAA ATC

mRNA AUG ACU AGC UGG GGG UAU UAC UUU UAG

tRNA UAC UGA UCG ACC CCC AUA AUG AAA AUC

AA MET THR SER TRY GLY TYR TYR PHE STOP

2. DNA TAC CGC TCC GCC GTC GAC AAT ACC ACT

mRNA AUG GCG AGG CGG CAG CUG UUA UGG UGA

tRNA UAC CGC UCC GCC GUC GAC AAU ACC ACU

AA MET ALA ARG ARG GLU LEU TRY STOP

3. DNA TAC CAC CCC CGT ATG GCT GGG AAT ATC

mRNA AUG GUG GGG GCA UAC CGA CCC UUA UAG

tRNA UAC CAC CCC CGU AUG GCU GGG AAU AUC

AA MET VAL GLY ALA TYR ARG PRO LEU STOP

4. DNA TAC TCT CCC AAA AAA TAC CAC CCC ATC

mRNA AUG AGA GGG UUU UUU AUG GUG GGG UAG

tRNA UAC UCU CCC AAA AAA UAC CAC CCC AUC

AA MET ARG GLY PHE MET VAL GLY STOP

5. DNA TAC CTC ACA CTA CGC ATG TTG GGG ATT

mRNA AUG GAG UGU GAU GCG UAC AAC CCC UAA

tRNA UAC CUC ACA CUA CGC AUG UUG GGG AUU

AA MET Glu A CYS Asp A ALA TYR ASP PRO STOP