Transcripton and Franslation Worksheet

Name ANSWER KEY

Hour _____ Date _____

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

- I. DNA TAC TGA TCG ACC CCC ATA ATG AAAATC

 mRNA AUG ACU AGC UGG GGG UAU UAC UUU UAG

 uRNA UAC UGA UCG ACC CCC AUA AUG AAA AUC

 AA MET THR SER TRY GLY TYR PHE STOP
- 2. DNA TACCGC TCCGCCGTCGACAAT ACCACT

 MRNA AUG GCG AGG CGG CAG CUG UUA UGG UGA

 IRNA 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

SEVERAL POSSIBILITIES

- TAC TCT CCC AAA AAA TAC CAC CCC ATC DNA AUG AGA GGG UUU UUU AUG GUG GGG UAG maRNA. UAC UCU CCC AAA AAA UAC CAC CCC AUC sRINA. AA MORE AJROGE CHLYC PHIE PHON NUMBER WORLD CHLAY: (STOP)
- 5. DNA TAC CTC ACA CTA CGC ATG TTG GGG ATT

 MRNA AUG GAG UGU GAU GCG UAC AAC CCC UAA

 IRNA UAC CUC ACA CUA CGC AUG UUG GGG AUU

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

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