

Transcription and Translation Worksheet

Name ANSWER KEY

Hour _____ Date _____

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 TAC TGA TCG ACC CCC ATA 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 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

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 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

Rna And Transcription Worksheet Answers

WJ Hussar



Rna And Transcription Worksheet Answers:

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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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Winston,2003-08 *Genetics Abstracts* ,1999 **Transcription and Splicing** B. D. Hames,David M. Glover,1988 This book gives a co ordinated review of our present knowledge of eukaryotic RNA synthesis **Single-molecule Studies of Different Steps in Human RNA Polymerase II and Bacterial RNA Polymerase Transcription** Yazan Khalaf Alhadid,2018 Transcription of genomic DNA of all organisms is carried out by members of the multi subunit RNA polymerase family Regulation of RNA polymerase localization and activity underlies cellular homeostasis division and response to environmental cues The catalytic mechanism overall architecture and many sequence and structural features of bacterial RNA polymerase are conserved in its Archaeal and Eukaryotic counterparts The human RNA polymerase II Pol II is responsible for transcription of all protein coding and many non coding genes The majority of current knowledge on RNA polymerases and their mechanism at different steps in transcription derives from extensive work done using classical biochemical genetic and structural biology methods However the use of single molecule approaches addressed crucial questions on the function and mechanism of RNA polymerases during transcription which were not possible to answer with ensemble based approaches due to averaging effects A useful fluorescence based single molecule technique to measure distances on the molecular scale and monitor dynamics is F rster resonance energy transfer FRET Here I report on the development of diffusion based single molecule FRET smFRET methods to investigate different steps in transcription by the in vitro reconstituted human Pol II system Using an assay that monitors the FRET changes between fluorescent dyes in the unwound region of promoter DNA transcription bubble I demonstrated the effect of certain components of the reconstituted system on the relative size of the transcription bubble I also detail the optimizations done to enhance the affinity of single stranded DNA ssDNA FRET probes to complementary target sequences These ssDNA FRET probes were used to investigate the effect of certain components of the reconstituted system on Pol II activity by measuring the relative levels of RNA product In addition to studies on the Pol II system I report on the effect of the 5' group of nascent RNA on the stability of the Escherichia coli RNA polymerase RNAP transcription bubble I show how the presence of a 5' monophosphate appears to destabilize the open bubble while a 5' hydroxyl has no effect Finally I describe the work done on a project I took part in that identified a previously uncharacterized RNAP paused complex in initiation We demonstrate that RNAP complexes undergoing initial transcription can enter the inactive paused state by backtracking I also demonstrate how the presence of a 5' triphosphate rapidly enhances entrance of RNAP complexes undergoing initial transcription into an inactive paused complex

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