

Part 1. Replication vs Transcription and Translation

Use this example of a portion of a DNA molecule as reference for the questions that follow.

```
[.....A T G C A C C C G T G G A A A G T C T A G.....]
[.....T A C G T G G G C A C C T T T C A G A T C.....]
```

1. Replicate this sample of a DNA molecule. Use a color or highlight to show the newly synthesized strands:

```
.....A T G C A C C C G T G G A A A G T C T A G.....
```

a. _____

b. _____

Let the new strand from a. above serve as a "gene" coding strand. Rewrite this gene sequence (a.) on the line below:

a. _____

b. _____

3. Transcribe the "gene" (a) to create mRNA. Write the mRNA that is formed on the line above (b.) this question.
4. Indicate the codons on the mRNA. For example, underline or [bracket] the codons on the mRNA.
5. Now many codons did you find? _____

6. Create the appropriate anticodon for each codon through complementary base pairing involving RNAs. Rewrite the mRNA codons (from 2b.) **below**

a. _____

b. _____

Write the anticodons on 6b. **above**

7. An anticodon is part of what molecule? _____
8. What is the primary function of this molecule (7)? _____
9. Once again, write the mRNA codons (from 6a):

10. Scientists have created a reference that links an mRNA codon directly to the corresponding amino acid. This allows one to skip a step in the translation process. Use the Genetic Code Table provided to translate the mRNA codons to the corresponding amino acid sequence:

Protein Synthesis Transcription And Translation Lab Answers

Rosina Ehmann



Protein Synthesis Transcription And Translation Lab Answers:

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