

Name _____ Date _____ Hour _____

Protein Synthesis Practice

Mark the following statements with a letter from the following key.

- A. DNA (genetic)
- B. RNA
- C. Both DNA and RNA
- D. Neither DNA nor RNA

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|-------------------------------------|--|
| _____ 1. Found only in the nucleus. | _____ 6. Contains cytosine. |
| _____ 2. Found in the cytoplasm. | _____ 7. Contains uracil. |
| _____ 3. Double stranded. | _____ 8. Has deoxyribose. |
| _____ 4. Single stranded. | _____ 9. Made up of amino acids. |
| _____ 5. Contains thymine. | _____ 10. Plays a part in protein synthesis. |

The following is a strand of bases found on a DNA molecule. Translate this into a proper sequence of amino acids making up a protein.

1. DNA	TAC	AAG	GCC	AAG	CCC	ATT
m-RNA sequence	_____	_____	_____	_____	_____	_____
Amino Acids/ Protein	_____	_____	_____	_____	_____	_____

2. DNA	TAC	TGG	CAT	GAG	AGC	ACT
m-RNA sequence	_____	_____	_____	_____	_____	_____
Amino Acids/ Protein	_____	_____	_____	_____	_____	_____

TRANSLATE THE FOLLOWING DNA STRANDS TO THE PROPER AMINO ACID SEQUENCE.
Clearly LABEL the mRNA strand and the Protein that is made.

1. TACGCTTTAAACCGGGGTTTTAAAACCCCCGCGCGCGCGCGCGCGCGCACT

2. TACAAAATTTTTCCCCAAAAGGGGGAATTTCCCCCGGGGAAATTTCCATT

3. TACTAAATTTCCCGGGCGGGAAAATTTTTGGGGAAAACCCCCCTTTGGATT

4. TACGGGTTTTTTAAAAGGGGAAATTTTCCCCGGGGAAAACCCGGGGGCCATC

5. TACTTTAAAACCGGGGCGAAGCCCAAACCACAATTGGCGTATAGCTTCATC