

# Decipher the Sequence

## Directions:

Given below is a DNA double helix. You are to use the strand labeled "A" in order to write down the message of DNA bases on the blank line, which is labeled NDA.

Look at the DNA Bases you have written down from strand A. Write the messenger RNA sequence which would temporarily bond on the DNA bases.

After you have written down the mRNA bases, write down the tRNA anticodons that would come to bond to the mRNA.

Once you have made the mRNA and the tRNA, use the code table in your textbook to place the amino acids in the proper sequence in the blanks below.



DNA Sequence \_\_\_\_\_

mRNA Sequence \_\_\_\_\_

tRNA Sequence \_\_\_\_\_

Amino acids

1. \_\_\_\_\_

8. \_\_\_\_\_

2. \_\_\_\_\_

9. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

Using this piece of DNA answer the following questions

**TACGGGTTTATATTACACACAGGCTATGCGACT**

1. Block off the DNA in codons.
2. Write the matching half of the DNA.
3. Write the corresponding mRNA strand that fits the original DNA strand.
4. Write out the codons from the mRNA and figure out what the amino acids would be. I will give you a copy of the codon chart

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____