

Name \_\_\_\_\_

### **Nucleic Acid Internet Activity**

1. Go to the following address: <http://gslc.genetics.utah.edu/units/basics>. Click on build a DNA molecule.
2. Build a DNA molecule by clicking and dragging the nitrogen base. Remember to use the base pairing rules. Write down your structure for us.
3. Go back to the previous page and click on “transcribe and translate a gene”. Scroll down to the bottom of the page and click “begin”. First type in the RNA nucleotides that correspond to the DNA nucleotides provided. Next, you will build a protein from the RNA that you just transcribed. You will first have to highlight the proper start sequence on the RNA to begin. You may then continue to build your protein by matching the proper codons on the right and dragging them over to the correct RNA sequences on the left. When you reach the stop codon the protein is complete. Copy down the amino acids from your protein below.
4. Go back to the previous page and scroll down to the “And Beyond...” section. Choose either the “What makes a firefly glow?” or the “Mystery of the stolen artifacts?” activity. Complete the activity. What did you learn from the activity? How does it show you how biology can be useful in your everyday life?