

Bio 111 Pre-Lab for Lab #10: Name \_\_\_\_\_  
LEGO Molecular Biology TA & Sect. \_\_\_\_\_

1) Make up a DNA sequence that is 8 nucleotides long. It can be any sequence you like, but it must include at least one of each nucleotide (that is, 5'-AAAAAAAA-3' would not be acceptable). Indicate the 5' and 3' ends of your sequence.

2) Copy over your DNA sequence from part (1) in the space below. Using that sequence as the top strand, write the sequence of the bottom strand of DNA that would pair with it. Indicate the base-pairs with vertical lines (|) and indicate the 5' and 3' ends of both strands.

3) Suppose that the double-stranded DNA molecule from part (2) were transcribed from left to right. Give the sequence of the mRNA that would be produced by this transcription. Indicate the 5' and 3' ends as appropriate.

