

DNA Transcription and Translation

Name _____

Date _____ Period _____

- Directions:
1. Transcribe the DNA sequences below into mRNA.
 2. Use the codon table on the back to translate it to an amino acid sequence.
 3. Use the decoding chart to decode the message in the amino acid sequence.

Read the top strand in this direction →

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5' G T A T C C C T T G A C T T C A A A G G G C C C A T G A A G G G T 3'
  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
3' C A T A G G G A A C T G A A G T T T C C C G G G T A C T T C C C A 5'
  
```

← Read the bottom strand in this direction

Top Strand

DNA code: G T A T C C C T T G A C T T C A A A G G G C C C A T G A A G G G T

mRNA sequence: _____

Amino acid sequence: _____

Bottom Strand

DNA code: A C C C T T C A T G G G C C C T T T G A A G T C A A G G G A T A C

mRNA sequence: _____

Amino acid sequence: _____

Message:
 _____ !