Transcription and Translation

Practice Worksheet

Example:

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| DNA : | GTACGCGTATACCGACATTC |
| mRNA: | CAUGCGCAUAUGGCUGAAG |
| Codons: | AUG-CGC-AUA-UGG-CUG-UAA |

Anticodons: UAC-GCG-UAU-ACC-GAC-AUU

Amino Acids: METHIONINE-ARGININE-ISOLEUCINE-TRYPTOPHAN-LEUCINE

Using the example above, transcribe the following DNA strand into mRNA and translate that strand into a polypeptide chain, identifying the codons, anticodons, and amino acid sequence.

1. DNA: ATACGAAATCGCGATCGCGGCGATTCGG
2. DNA: TTTACGGCCATCAGGCAATACTGG
3. DNA: TACGGGCCTATACGCTACTAC TCATGGATCGG
4. DNA: GTACGCGTATACCGACATTC