

Chapter 17: Gene Expression: From Gene to Protein

LO 17.1: Describe evidence that helped us understand the process of gene expression, and describe the process.

Basic Principles of Transcription and Translation

1. Complete the following table to summarize each process.

Process	Template	Product Synthesized	Location in Eukaryotic Cell
Transcription	DNA	RNA	Nucleus
Translation	mRNA	Polypeptide	Cytoplasm

2. How many nucleotide bases are there? 4 How many amino acids? 20

3. How many nucleotides are required to have a unique code for each of these 20 amino acids?
3

4. The language of DNA is a *triplet code*. How many unique triplets exist? 64

5. DNA is double-stranded; however, for each protein, only one of these two strands is used to produce an mRNA transcript. What is the strand called? The template strand

6. Your answer to question 20 should have been *template*. Here is an area where students sometimes become confused: The other strand of DNA is called the *coding strand* because if you substitute U's where T's appear, you will have the mRNA sequence or code. Study Figure 17.5, Transcription, in your text to understand this. Label the *template* and *coding* or *non-template* strand.

Study Guide Key Gene Expression

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