

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.

Chapter 17 From Gene To Protein Study Guide Answer Key

G Psacharopoulos



Chapter 17 From Gene To Protein Study Guide Answer Key:

The Enigmatic Realm of **Chapter 17 From Gene To Protein Study Guide Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Chapter 17 From Gene To Protein Study Guide Answer Key** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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