

Guided Inquiry • Skills Lab

Chapter 13 Lab **From DNA to Protein Synthesis**

Problem

What are the steps involved in making a protein?

Introduction

Before a protein can be built, the biochemical blueprints for its construction must be packaged and transferred out of the DNA “library.” First, the specific sequence of DNA that codes for the protein is transcribed into a complementary strand of mRNA. In eukaryotic cells, the mRNA then leaves the nucleus and enters the cytoplasm. In all cells, the mRNA molecule attaches to a ribosome, where tRNA anticodons translate the mRNA into amino acids. The completed amino acid chain, or polypeptide, then folds into its final shape as a protein.

In this lab, you will model transcription of DNA and translation of mRNA while you decode secret messages.

Skills Focus

Use Models, Sequence

Pre-Lab Questions

1. **Sequence** Describe briefly the process you will use to decode the messages.

2. **Compare and Contrast** What role do stop codons play in protein synthesis? What are they used for in the coded messages?

3. **Predict** Which six letters will not appear in the coded messages? Give a reason for your answer.

From Dna To Protein Synthesis Chapter 13 Lab Answers

Shasha Hu



From Dna To Protein Synthesis Chapter 13 Lab Answers:

The Enigmatic Realm of **From Dna To Protein Synthesis Chapter 13 Lab Answers**: 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 in short supply of extraordinary. Within the captivating pages of **From Dna To Protein Synthesis Chapter 13 Lab Answers** 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 impact on the hearts and minds of those who partake in its reading experience.

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