

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

Lingjun Ying



From Dna To Protein Synthesis Chapter 13 Lab Answers:

Adopting the Beat of Appearance: An Mental Symphony within **From Dna To Protein Synthesis Chapter 13 Lab Answers**

In some sort of eaten by monitors and the ceaseless chatter of immediate interaction, the melodic beauty and emotional symphony produced by the prepared term usually fade in to the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, situated within the pages of **From Dna To Protein Synthesis Chapter 13 Lab Answers** a marvelous fictional value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that interesting masterpiece conducts readers on a psychological journey, well unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths of the emotional examination, we shall investigate the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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