

Guided Inquiry • Skills Lab

# Chapter 13 Lab From DNA to Protein Synthesis

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## 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.

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

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

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\_\_\_\_\_  
\_\_\_\_\_

# From Dna To Protein Synthesis Chapter 13 Lab

**Kaplan Test Prep**



## **From Dna To Protein Synthesis Chapter 13 Lab:**

Immunology & Serology in Laboratory Medicine - E-BOOK Mary Louise Turgeon, 2024-12-30 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Laboratory Medicine The extremely popular textbook Immunology and Serology in Laboratory Medicine Eighth Edition provides the foundation you need to master the relevant competencies demanded in today's clinical laboratory Immunology and Serology helps you gain the knowledge required by medical laboratory technician MLT and medical laboratory scientist MLS students to achieve excellent scores on national board certification upon graduation and to display entry level professional competencies for career success Featuring a straightforward presentation each chapter in this edition presents state of the art content in subject areas such as Molecular Diagnostics A problem based case study approach that stimulates critical thinking makes it easier to integrate the concepts of theory with laboratory procedures that generate diagnostic information in cases of infectious diseases immune disorders tumor immunology and tissue transplantation Immunology and Serology is a distinctly unique textbook because the author recognizes the importance of robust professional knowledge and the practice guidelines developed by the American Society for Clinical Pathology ASCP Board of Certification Examination Immunology Content Outlines for MLT and MLS certification levels and the American Society for Clinical Laboratory Science ASCLS Professional Body of Knowledge NEW Updated content includes the most current information related to infectious and immunological diseases diagnostic testing methods and vaccines Clinical case studies include etiology pathophysiology laboratory findings and critical thinking questions allowing you to apply your knowledge of concepts and procedures Visual learning features make studying easier with algorithms illustrations photographs and summary boxes Key Concepts are interwoven throughout each chapter highlighting the most important facts Content correlation between lecture and reading diagnostic laboratory procedures and case studies allows for easy reference Learning objectives and key terms open each chapter providing measurable outcomes and a framework for organizing your study efforts More than 650 end of chapter multiple choice questions provide opportunities for review and self assessment Laboratory procedures on the Evolve website and in the eBook help you apply immunology and serology theory to clinical laboratory practice Criminalistics: Forensic Science, Crime and Terrorism James E. Girard, 2010-07-23 AP Biology Prep Plus 2020 & 2021 Kaplan Test Prep, 2020-07-07 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam This edition features hundreds of practice questions in the book complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 3 full length exams 16 pre chapter quizzes and 16 post chapter quizzes Customizable study plans ensure that you make the most of the study time you have We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to [kaptest.com](http://kaptest.com) moreonline and follow the directions You'll need your book

handy to complete the process The College Board has announced that the 2021 exam dates for AP Biology will be May 14 May 27 or June 11 depending on the testing format Each school will determine the testing format for their students Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan kaptest com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges *Nature* Sir Norman Lockyer,2005

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