

LAB _____ HOW ARE PROTEINS MADE IN CELLS

“DNA gets all the glory, but proteins do all the work!”

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C (cytosine), G (guanine), A (adenine), and T (thymine). The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Because of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of your cells.

DNA is organized in sections called genes. Genes code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins — serving as the building blocks of cells and bodies. And they function as enzymes — directing all the chemical reactions in living organisms.

Proteins are made in the cytoplasm by ribosomes. So the information from DNA must be transferred from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for a messenger RNA (mRNA) molecules. The mRNA is made by matching its complementary bases — C, G, A, and U (uracil) — to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the protein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three — the triplet codons. Another type of RNA — transfer RNA (tRNA) — brings the protein building blocks — amino acids — to the ribosome as they are needed. The ribosome bonds the amino acids together to build the protein coded for by the gene back in the nucleus.

PROCEDURE

1. Your group should obtain one sheet of paper with your four sections of DNA. Cut the strips out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the desk from left (H) to right (H). See the diagram below.



2. We are going to use this section of our DNA as a gene to make a protein the cell needs. Remember it used to be part of a double-stranded DNA molecule. But it has already been unzipped and now will be used as the template to build your mRNA, one base at a time. So first design an RNA polymerase enzyme to do this mRNA synthesis job.
3. TRANSCRIPTION: You have been supplied with mRNA nucleotide bases. Build a mRNA molecule from this gene by matching the mRNA bases to your DNA template, one base at a time. Tape this mRNA molecule along its length to simulate the strong bonds that the RNA polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

Modeling Protein Synthesis Lab Answers

WJ Hussar



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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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Table of Contents Modeling Protein Synthesis Lab Answers

1. Understanding the eBook Modeling Protein Synthesis Lab Answers
 - The Rise of Digital Reading Modeling Protein Synthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Protein Synthesis Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modeling Protein Synthesis Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Protein Synthesis Lab Answers
 - Personalized Recommendations
 - Modeling Protein Synthesis Lab Answers User Reviews and Ratings
 - Modeling Protein Synthesis Lab Answers and Bestseller Lists
5. Accessing Modeling Protein Synthesis Lab Answers Free and Paid eBooks
 - Modeling Protein Synthesis Lab Answers Public Domain eBooks
 - Modeling Protein Synthesis Lab Answers eBook Subscription Services
 - Modeling Protein Synthesis Lab Answers Budget-Friendly Options

6. Navigating Modeling Protein Synthesis Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling Protein Synthesis Lab Answers Compatibility with Devices
 - Modeling Protein Synthesis Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling Protein Synthesis Lab Answers
 - Highlighting and Note-Taking Modeling Protein Synthesis Lab Answers
 - Interactive Elements Modeling Protein Synthesis Lab Answers
8. Staying Engaged with Modeling Protein Synthesis Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modeling Protein Synthesis Lab Answers
9. Balancing eBooks and Physical Books Modeling Protein Synthesis Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling Protein Synthesis Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modeling Protein Synthesis Lab Answers
 - Setting Reading Goals Modeling Protein Synthesis Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modeling Protein Synthesis Lab Answers
 - Fact-Checking eBook Content of Modeling Protein Synthesis Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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