

Protein Synthesis Lab

Purpose:

Recognize that the sequence of bases in DNA determines the shape, structure, and function of a protein.

Materials:

- Scissors
- White paper
- Pencil
- Construction paper
- Lab handout
- Tape

Background:

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C, G, A, and T. 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 eukaryotic cells.

DNA is organized into sections called genes. Gene code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins that serve as the building blocks of cells and bodies. They also function as enzymes, who are the little molecular chemists in bodies.

Proteins are made in the cytoplasm by protein factories called ribosomes. So, the information from DNA must be transmitted from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for mRNA molecules. The mRNA is made by matching its complementary bases- C, G, A, and U to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the p[rotein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three called codons. Another type of 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 (#1) to right (#4). 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

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Table of Contents From Dna To Protein Synthesis Lab Answer

1. Understanding the eBook From Dna To Protein Synthesis Lab Answer
 - The Rise of Digital Reading From Dna To Protein Synthesis Lab Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying From Dna To Protein Synthesis Lab Answer
 - 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 From Dna To Protein Synthesis Lab Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from From Dna To Protein Synthesis Lab Answer

- Personalized Recommendations
 - From Dna To Protein Synthesis Lab Answer User Reviews and Ratings
 - From Dna To Protein Synthesis Lab Answer and Bestseller Lists
5. Accessing From Dna To Protein Synthesis Lab Answer Free and Paid eBooks
 - From Dna To Protein Synthesis Lab Answer Public Domain eBooks
 - From Dna To Protein Synthesis Lab Answer eBook Subscription Services
 - From Dna To Protein Synthesis Lab Answer Budget-Friendly Options
 6. Navigating From Dna To Protein Synthesis Lab Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - From Dna To Protein Synthesis Lab Answer Compatibility with Devices
 - From Dna To Protein Synthesis Lab Answer Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of From Dna To Protein Synthesis Lab Answer
 - Highlighting and Note-Taking From Dna To Protein Synthesis Lab Answer
 - Interactive Elements From Dna To Protein Synthesis Lab Answer
 8. Staying Engaged with From Dna To Protein Synthesis Lab Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers From Dna To Protein Synthesis Lab Answer
 9. Balancing eBooks and Physical Books From Dna To Protein Synthesis Lab Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection From Dna To Protein Synthesis Lab Answer
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine From Dna To Protein Synthesis Lab Answer
 - Setting Reading Goals From Dna To Protein Synthesis Lab Answer
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of From Dna To Protein Synthesis Lab Answer

- Fact-Checking eBook Content of From Dna To Protein Synthesis Lab Answer
- 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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