

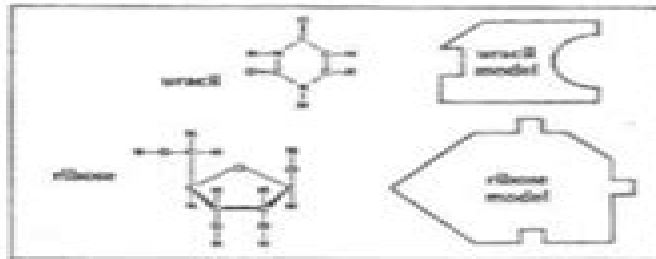
Answer Key

Protein Synthesis Paper Lab

Part A: RNA Structure

Besides ensuring the exact replication of chromosomes, the order of the bases is a genetic code of instructions for the cell. How does the cell "read" the chemical message coded in its DNA?

Part of the answer lies with a second molecule present in cells called **ribonucleic acid (RNA)**. RNA is similar to DNA in that it is made of nucleotides. However, there is no deoxyribose or thymine in RNA. Deoxyribose is replaced by **ribose** in RNA, and thymine is replaced by **uracil**. If you look at their structural formulas and models, you will see that ribose and uracil are similar to the molecules they replace.



1. Which base is replaced by uracil in RNA?

_____ *thymine* _____

2. What molecule replaces deoxyribose in RNA?

_____ *ribose* _____

3. To which base in DNA do the following RNA bases pair?

Guanine _____ *cytosine* _____

Adenine _____ *uracil* _____

Cytosine _____ *guanine* _____

Uracil _____ *adenine* _____

Part B: RNA Transcription

Open (unzip) one of your DNA models between the base pairs and separate the two halves. Using the *left side* of your DNA model as a pattern, match up the proper RNA nucleotides with the DNA nucleotides. You have made a *messenger RNA* molecule.

C
T
G
A
G
C

4. Do the RNA half-rung bases pair exactly as they would if this were DNA replication? not exactly

Remove the RNA nucleotide series from the DNA pattern. Close the DNA molecule back up with its original right side. DNA molecules "unzip" temporarily during **RNA transcription** and then zip closed again.

mRNA is a single-stranded molecule. Thus, the sequence of RNA nucleotides formed from DNA represents a complete mRNA molecule. After its formation, this mRNA leaves the nucleus and goes to where the ribosomes are. It carries the DNA message of base sequences in the exact same order out of the nucleus and into the cytoplasm.

On this table compare DNA and RNA, check all that apply:

	DNA	mRNA
Deoxyribonucleic Acid		
Ribonucleic Acid		
Contains the sugar deoxyribose		
Contains sugar ribose		
Contains a phosphate group		
Contains adenine		
Contains thymine		
Contains uracil		
Contains guanine		
Contains cytosine		
Monomers are nucleotides		
Double-strand molecule		
Single-strand molecule		
Leaves/moves out of the nucleus		
Contains a chemical code		

Dna And Rna Lab 24 Answer Key

Rosina Ehmman



Dna And Rna Lab 24 Answer Key :

Decoding **Dna And Rna Lab 24 Answer Key** : Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Dna And Rna Lab 24 Answer Key** ," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Dna And Rna Lab 24 Answer Key

1. Understanding the eBook Dna And Rna Lab 24 Answer Key
 - The Rise of Digital Reading Dna And Rna Lab 24 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Dna And Rna Lab 24 Answer Key
 - 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 Dna And Rna Lab 24 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dna And Rna Lab 24 Answer Key
 - Personalized Recommendations
 - Dna And Rna Lab 24 Answer Key User Reviews and Ratings
 - Dna And Rna Lab 24 Answer Key and Bestseller Lists

5. Accessing Dna And Rna Lab 24 Answer Key Free and Paid eBooks
 - Dna And Rna Lab 24 Answer Key Public Domain eBooks
 - Dna And Rna Lab 24 Answer Key eBook Subscription Services
 - Dna And Rna Lab 24 Answer Key Budget-Friendly Options
6. Navigating Dna And Rna Lab 24 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Dna And Rna Lab 24 Answer Key Compatibility with Devices
 - Dna And Rna Lab 24 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dna And Rna Lab 24 Answer Key
 - Highlighting and Note-Taking Dna And Rna Lab 24 Answer Key
 - Interactive Elements Dna And Rna Lab 24 Answer Key
8. Staying Engaged with Dna And Rna Lab 24 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dna And Rna Lab 24 Answer Key
9. Balancing eBooks and Physical Books Dna And Rna Lab 24 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dna And Rna Lab 24 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Dna And Rna Lab 24 Answer Key
 - Setting Reading Goals Dna And Rna Lab 24 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dna And Rna Lab 24 Answer Key
 - Fact-Checking eBook Content of Dna And Rna Lab 24 Answer Key
 - 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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