

POGIL - Gene Expression: Transcription

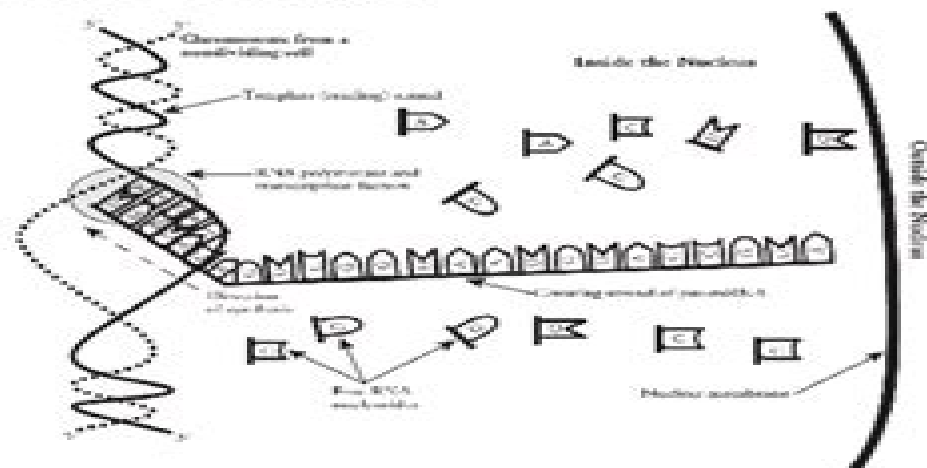
How is mRNA synthesized and what message does it carry?

Why?

Deoxyribonucleic DNA is often referred to as a genetic blueprint. In the same way that blueprints contain the instructions for construction of a building, the DNA found inside the nuclei of cells contains the instructions for assembling a living organism. The DNA blueprint carries its instructions in the form of genes. In most cases the genes direct the production of a polypeptide, from which other more complex proteins, such as enzymes or hormones, may be constructed. These polypeptides and other molecules run the organism's metabolism and, in multicellular

organisms, dictate what each cell's job is. So, what is the language of these instructions and how are they read and decoded by the cellular organelles? This activity will focus on the decoding of genes in eukaryotes.

Model 1 - Transcription



1. Consider the eukaryotic cell in Model 1.

a. Where in the cell is the DNA found?

b. Where in the cell does transcription take place?

2. Refer to Model 1.

a. What polymer is synthesized during transcription?

b. What monomers are used to construct this polymer and where are they found?

3. According to Model 1, what enzyme is required for transcription? (*Hint: Think about how enzymes are named. What ending is used for enzyme names?*)

4. Refer to Model 1.

a. What is the base-pair rule for a DNA strand matching an RNA strand?

b. Compare this base-pair rule with that of two DNA strands.

5. Which strand of the DNA contains the "blueprint" for the pre-mRNA?

6. Consider Model 1.

a. In which direction is the DNA molecule read? _____

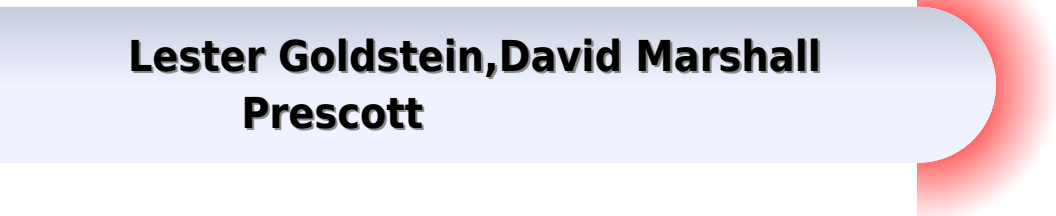
b. The DNA strand and pre-mRNA strand are anti-parallel. With this in mind label the 3' and 5' ends of the pre-mRNA strand in Model 1.

c. In which direction is the pre-mRNA molecule constructed? _____

7. Before printing presses were available, books had to be transcribed in order to share the information

Pogil Activities Gene Expression Translation Answers

**Lester Goldstein, David Marshall
Prescott**



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Table of Contents Pogil Activities Gene Expression Translation Answers

1. Understanding the eBook Pogil Activities Gene Expression Translation Answers
 - The Rise of Digital Reading Pogil Activities Gene Expression Translation Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Activities Gene Expression Translation 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 Pogil Activities Gene Expression Translation Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Activities Gene Expression Translation Answers
 - Personalized Recommendations
 - Pogil Activities Gene Expression Translation Answers User Reviews and Ratings
 - Pogil Activities Gene Expression Translation Answers and Bestseller Lists

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