

POGIL - Gene Expression: Transcription

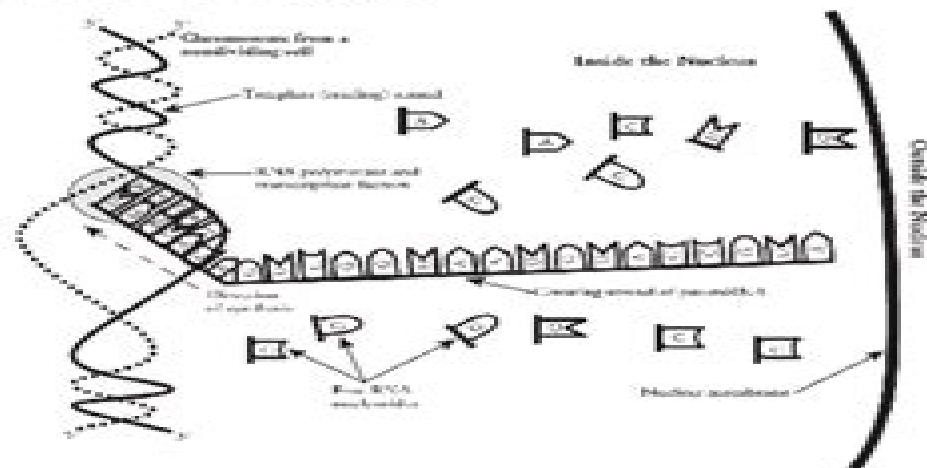
How is mRNA synthesized and what message does it carry?

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

Gene Expression Pogil

Mike Jess



Gene Expression Pogil:

This book delves into Gene Expression Pogil. Gene Expression Pogil is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gene Expression Pogil, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gene Expression Pogil
- Chapter 2: Essential Elements of Gene Expression Pogil
- Chapter 3: Gene Expression Pogil in Everyday Life
- Chapter 4: Gene Expression Pogil in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Gene Expression Pogil. The first chapter will explore what Gene Expression Pogil is, why Gene Expression Pogil is vital, and how to effectively learn about Gene Expression Pogil.
3. In chapter 2, this book will delve into the foundational concepts of Gene Expression Pogil. The second chapter will elucidate the essential principles that must be understood to grasp Gene Expression Pogil in its entirety.
4. In chapter 3, this book will examine the practical applications of Gene Expression Pogil in daily life. This chapter will showcase real-world examples of how Gene Expression Pogil can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Gene Expression Pogil in specific contexts. The fourth chapter will explore how Gene Expression Pogil is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Gene Expression Pogil. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gene Expression Pogil.

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Gene Expression Pogil Introduction

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