

Chapter 14 Reading Guide: Gene Expression – From Gene to Protein**Concept 14.1: Genes specify proteins via transcription and translation**

1. What is gene expression?
process by which DNA directs the synthesis of proteins
2. The research of Beadle and Tatum resulted in their Nobel Prize award in 1958. Describe their scientific contribution. They disabled genes one by one and looked for changes in each mutant's phenotype, revealing the normal function of the gene
3. What is the one gene-one enzyme hypothesis?
States that the function of a gene is to dictate the production of a specific enzyme
4. How has this hypothesis been modified?
Many eukaryotic genes can each code for a set of closely related polypeptides, quite a few genes code for RNA
5. What are three ways in which RNA differs from DNA?
 - contains ribose instead of deoxyribose
 - nitrogenous base uracil rather than thymine
 - RNA consists of a single strand
6. Define the following terms:
 - a. Transcription - Synthesis of RNA using info in the DNA
 - b. Translation - synthesis of a polypeptide using the info in the mRNA
7. Complete the following table to summarize each process.

	Template	Product Synthesized	Location in Eukaryotic Cell
Transcription	assembling a complementary sequence of RNA	RNA	nucleus
Translation	mRNA	polypeptide	ribosomes

8. Label the diagram of the Central Dogma below.



Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers

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Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers:

The book delves into Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers. Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers
 - Chapter 2: Essential Elements of Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers
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 - Chapter 4: Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Ap Biology Chapter 17 From Gene To Protein Reading Guide Answers.

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