

# SKILLS EXERCISE

## Sequencing

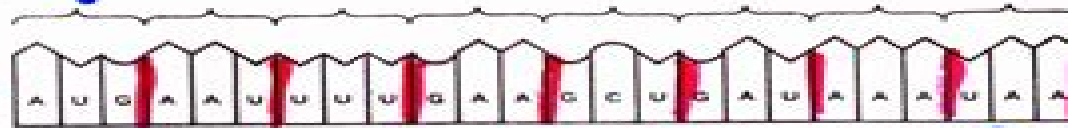
# Chapter 7

## Nucleic Acids

### and Protein Synthesis

- A. Do you understand how mRNA codes for amino acids? Use the chart to decode the following message from a strand of RNA.

mRNA



START - Asp - Phen - GA - Ala - Asp - Lys - STOP

- B. The triplets that code for the amino acids on the mRNA are codons. The complementary triplet(s) on tRNA are known as anticodons. Fill in the proper triplets in the table.

DNA  
GGG  
TGA

Amino acid  
proline  
threonine  
tryptophan  
leucine  
arginine  
histidine  
glycine  
serine

mRNA  
Codon  
CCG  
ACU

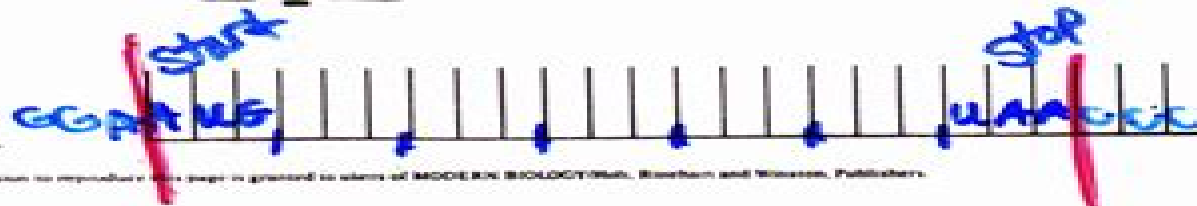
tRNA  
Anticodon  
GGG  
UGA

| AMINO ACID    | mRNA Codons |
|---------------|-------------|
| ALANINE       | GCU         |
| ARGININE      | CGU         |
| ASPARAGINE    | AAU         |
| ASPARTIC ACID | GAU         |
| CYSTEINE      | UGU         |
| GLUTAMIC ACID | GAA         |
| GLUTAMINE     | CAA         |
| GLYCINE       | GGU         |
| HISTIDINE     | CAU         |
| ISOLEUCINE    | AUU         |
| LEUCINE       | UUA         |
| LYSINE        | AAA         |
| METHIONINE    | AUG         |
| PHENYLALANINE | UUU         |
| PROLINE       | CCC         |
| SERINE        | UCU         |
| THREONINE     | ACU         |
| TRYPTOPHAN    | UGG         |
| TYROSINE      | UAU         |
| VALINE        | GUU         |
| stop codon    | UAA         |

• start codon

• UGA UAG

- C. Now use any of the codons to make up your own sequence for five or more amino acids. Don't forget to stop and start your message.



# Explore Biology Answer Keys Protein Synthesis

**Tao Wei**



## **Explore Biology Answer Keys Protein Synthesis:**

**Molecular Biology** Nancy Craig, Rachel Green, Orna Cohen-Fix, Carol Greider, Gisela Storz, Cynthia Wolberger, 2014-05  
The biological world operates on a multitude of scales from molecules to tissues to organisms to ecosystems Throughout these myriad levels runs a common thread the communication and onward passage of information from cell to cell from organism to organism and ultimately from generation to generation But how does this information come alive to govern the processes that constitute life The answer lies in the molecular components that cooperate through a series of carefully regulated processes to bring the information in our genome to life These components and processes lie at the heart of one of the most fascinating subjects to engage the minds of scientists today molecular biology Molecular Biology Principles of Genome Function Second Edition offers a fresh approach to the teaching of molecular biology by focusing on the commonalities that exist between the three kingdoms of life and discussing the differences between the three kingdoms to offer instructive insights into molecular processes and components This gives students an accurate depiction of our current understanding of the conserved nature of molecular biology and the differences that underpin biological diversity Additionally an integrated approach demonstrates how certain molecular phenomena have diverse impacts on genome function by presenting them as themes that recur throughout the book rather than as artificially separated topics As an experimental science molecular biology requires an appreciation for the approaches taken to yield the information from which concepts and principles are deduced Experimental Approach panels throughout the text describe research that has been particularly valuable in elucidating difference aspects of molecular biology Each panel is carefully cross referenced to the discussion of key molecular biology tools and techniques which are presented in a dedicated chapter at the end of the book Molecular Biology further enriches the learning experience with full color artwork end of chapter questions and summaries suggested further readings grouped by topic and an extensive glossary of key terms Features A focus on the underlying principles of molecular biology equips students with a robust conceptual framework on which to build their knowledge An emphasis on their commonalities reflects the processes and components that exist between bacteria archae and eukaryotes Experimental Approach panels demonstrate the importance of experimental evidence by describing research that has been particularly valuable in the field

**Molecular Biology** Nancy Lynn Craig, Rachel Green, Carol C. Greider, Carol W. Greider, Gisela Storz, Cynthia Wolberger, Orna Cohen-Fix, 2021 Molecular Biology Principles of Genome Function offers a fresh distinctive approach to the teaching of molecular biology It is an approach that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century a discipline in which our understanding has advanced immeasurably but about which many questions remain to be answered KEY FEATURES A focus on the underlying principles equips students with a robust conceptual framework on which to add further detail from the vast amount of scientific information available to us today An emphasis on commonalities reflects the

conserved molecular processes and components that we now know to exist between bacteria archaea and eukaryotes

Experimental Approach panels demonstrate the central importance of experimental evidence to furthering our understanding of molecular biology by describing research that has been particularly valuable in elucidating different aspects of the subject

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**Biological Science** Freeman,Scott Freeman,Warren W. Burggren,2002-03 By Warren Burggren University of North Texas Jay Brewster Pepperdine University Laurel Hester South Carolina Governor s School for Science and Mathematics Rather than repeat what is covered in the textbook the Student Study Guide will help students study biology and think like a scientist Introductory chapters on Data Interpretation Looking for Relationships Experimentation and Writing will be illustrated and developed for the student Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter

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