

BIO152 Cell Biology Worksheet 7 Gene X, Y and Z DNA transcription and translation Questions

1. 3'... CAA ACG GAG GAG CTT TAA CCT TAA...-5'

The above is a non-template (coding region) DNA strand sequence of Gene X. What is the mRNA sequence? Provide and label the 5' to 3' orientation of the transcript.

First, you need to write the complementary DNA strand (which will then become the template sequence):

5'...GTT TGC CTC CTC GAA ATT GGA ATT...-3'

Second, you need to transcribe the template DNA sequence to mRNA sequence. Remember that the DNA dependent RNA polymerase will use U instead of T in RNA.

3'...CAA ACG GAG GAG CUU UAA CCU UAA...-5'

Next, rewrite the transcript to show 5' to 3' (flip around) orientation for convention. Remember not to change any bases.

5'...AAU UCC AAU UUC GAG GAG GCA AAC...-3'

2. What is the protein sequence for this transcript, assuming that the first codon is the start of the protein?

Label the ends for amino and carboxy termini.
Use the Triplet Code table provided on the back page.

Now translate the mRNA transcript into the amino acid sequence.

(NH₂-)....Asn Ser Asn Phe Glu Glu Ala Asn....(-COOH)

Chapter 1human Molecular Genetics Answers

D. Peter Snustad,Michael J. Simmons



Chapter 1 human Molecular Genetics Answers:

An Introduction to Human Molecular Genetics Jack J. Pasternak, 2005-06-14 An Introduction to Human Molecular Genetics Second Edition Jack J Pasternak The Second Edition of this internationally acclaimed text expands its coverage of the molecular genetics of inherited human diseases with the latest research findings and discoveries Using a unique systems based approach the text offers readers a thorough explanation of the gene discovery process and how defective genes are linked to inherited disease states in major organ and tissue systems All the latest developments in functional genomics proteomics and microarray technology have been thoroughly incorporated into the text The first part of the text introduces readers to the fundamentals of cytogenetics and Mendelian genetics Next techniques and strategies for gene manipulation mapping and isolation are examined Readers will particularly appreciate the text's exceptionally thorough and clear explanation of genetic mapping The final part features unique coverage of the molecular genetics of distinct biological systems covering muscle neurological eye cancer and mitochondrial disorders Throughout the text helpful figures and diagrams illustrate and clarify complex material Readers familiar with the first edition will recognize the text's same lucid and engaging style and will find a wealth of new and expanded material that brings them fully up to date with a current understanding of the field including New chapters on complex genetic disorders genomic imprinting and human population genetics Expanded and fully revised section on clinical genetics covering diagnostic testing molecular screening and various treatments This text is targeted at upper level undergraduate students graduate students and medical students It is also an excellent reference for researchers and physicians who need a clinically relevant reference for the molecular genetics of inherited human diseases

Human Evolutionary Genetics Mark Jobling, Matthew Hurles, Chris Tyler-Smith, 2013-06-25 Human Evolutionary Genetics is a groundbreaking text which for the first time brings together molecular genetics and genomics to the study of the origins and movements of human populations Starting with an overview of molecular genomics for the non specialist which can be a useful review for those with a more genetic background the book shows how data from the post genomic era can be used to examine human origins and the human colonization of the planet richly illustrated with genetic trees and global maps For the first time in a textbook the authors outline how genetic data and the understanding of our origins which emerges can be applied to contemporary population analyses including genealogies forensics and medicine

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Paradise Rediscovered Michael A. Cahill,2012-06-08 In a long forgotten era an age of slavery of glorious new scientific innovations revolutionary wonders warrior heroes Titans Druids and bards magicians dragons and serpents of angels and gods an age of immortality and sacrificial death of oppression exploitation social upheaval indeed the age of the catastrophic biblical flood and the fulcrum to social structure of the struggle for control of the closely guarded secret and eternal wisdom of the undying Holy Elect of Paradise in a long forgotten era a man just a mortal man may have escaped his death by usurping the power of the goddess and her people to his own ends in a political coup that changed his world and produced ours Join Dr Michael Cahill as he explores the origins of civilisation using information from history archaeology mythology linguistics geology astronomy and philosophy to learn more about who we are Paradise Rediscovered will challenge your intellect and spur your imagination as you journey with him to uncover secrets solve mysteries and consider the foundations that shaped our modern society and may yet change its face again Note This title is published as a two volume work in its physical edition and as a complete work in its digital editions

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Adler's Physiology of the Eye Francis Heed Adler,2003 Revised and updated this tenth edition covers the full range of topics needed to understand all of the complex functions of the eye including optics electrophysiology of the retinal system visual acuity colour vision ocular circulation and more Student Handbook and Solutions Manual Harry Nickla,Klug,2002-08 Harry Nickla Creighton University This valuable handbook provides detailed step by step solutions or extensive explanations for every problem in the text Additional study aids include extra study problems chapter outlines vocabulary exercises and an overview of how to study genetics **Principles of Genetics** D. Peter Snustad,Michael J. Simmons,2016-01-04 Principles of Genetics is one of the most popular texts in use for the introductory course It opens a

window on the rapidly advancing science of genetics by showing exactly how genetics is done Throughout the authors incorporate a human emphasis and highlight the role of geneticists to keep students interested and motivated The seventh edition has been completely updated to reflect the latest developments in the field of genetics Principles of Genetics continues to educate today s students for tomorrows science by focusing on features that aid in content comprehension and application

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Prentice Hall Science Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994

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Applied Molecular Genetics Roger L. Miesfeld,1999-04-13 This text explains the key biochemical and cell biological principles behind some of today s most commonly used applications of molecular genetics using clear terms and well illustrated flow schemes The book is divided into several sections and moves from basic to advanced topics while providing a concise overview of fundamental concepts in modern biotechnology Each chapter concludes with a Laboratory Practicum describing a hypothetical research objective and the sequence of steps that are most often used to investigate biological questions using molecular genetic methods In addition the book provides informative summaries of the latest advances in molecular genetics using attractive illustrations and a comprehensive reference list This text also introduces the use of Internet resources through the World Wide Web as a powerful new tool in molecular genetic research Seven appendices are included in the book providing a convenient information resource for properties of nucleic acids protein and restriction enzymes a description of common E coli genetic markers and gel electrophoresis parameters as well as a list of useful Internet address sites

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