

Bio 160: Transcription and Translation Study Guide

Main idea: Assessment of the process of transcription, mRNA processing, and translation

What you need to be able to do:

- You will be provided with a set of DNA sequences (genes), mRNA codon chart, and set of matching traits for the amino acid sequences.
- You will be required to transcribe and translate the sequences; then identify the trait for that gene.

(Can practice in lab manual: 4-6, 4-7, 4-8, 4-9, 4-11)

Transcription:

Making an RNA copy of the gene's DNA sequence (mRNA)

- **Initiation:** RNA polymerase binds to the promoter. The DNA template strand encodes the RNA molecule.
- **Elongation:** RNA polymerase synthesizes RNA (making an RNA copy).
Note: RNA makes from 5' to 3'
- **Termination:** RNA polymerase reaches the terminator (DNA at the end of the gene). Which causes RNA, DNA, and RNA polymerase to separate from each other.

mRNA Processing

- **Cap** - is added to the 5' end of mRNA to protect from degradation
- **Poly A tail** - is added to the 3' end of mRNA to protect from degradation
- **Introns removed** - sequences in gene that's not used for producing a protein is removed.

Translation:

Builds the protein with the use of RNA (mRNA).

- **Initiation:** mRNA is the template, tRNA is the adaptor.
- **Elongation:** Amino acids are joined together when the enzymes in the ribosome form a peptide bond.
- **Termination:** Release factor binds to the stop codon & the protein is complete.

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Table of Contents 84 Transcription Study Guide Answers 239786

1. Understanding the eBook 84 Transcription Study Guide Answers 239786
 - The Rise of Digital Reading 84 Transcription Study Guide Answers 239786
 - Advantages of eBooks Over Traditional Books
2. Identifying 84 Transcription Study Guide Answers 239786
 - 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 84 Transcription Study Guide Answers 239786
 - User-Friendly Interface
4. Exploring eBook Recommendations from 84 Transcription Study Guide Answers 239786
 - Personalized Recommendations

- 84 Transcription Study Guide Answers 239786 User Reviews and Ratings
- 84 Transcription Study Guide Answers 239786 and Bestseller Lists
- 5. Accessing 84 Transcription Study Guide Answers 239786 Free and Paid eBooks
 - 84 Transcription Study Guide Answers 239786 Public Domain eBooks
 - 84 Transcription Study Guide Answers 239786 eBook Subscription Services
 - 84 Transcription Study Guide Answers 239786 Budget-Friendly Options
- 6. Navigating 84 Transcription Study Guide Answers 239786 eBook Formats
 - ePub, PDF, MOBI, and More
 - 84 Transcription Study Guide Answers 239786 Compatibility with Devices
 - 84 Transcription Study Guide Answers 239786 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 84 Transcription Study Guide Answers 239786
 - Highlighting and Note-Taking 84 Transcription Study Guide Answers 239786
 - Interactive Elements 84 Transcription Study Guide Answers 239786
- 8. Staying Engaged with 84 Transcription Study Guide Answers 239786
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 84 Transcription Study Guide Answers 239786
- 9. Balancing eBooks and Physical Books 84 Transcription Study Guide Answers 239786
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 84 Transcription Study Guide Answers 239786
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 84 Transcription Study Guide Answers 239786
 - Setting Reading Goals 84 Transcription Study Guide Answers 239786
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 84 Transcription Study Guide Answers 239786
 - Fact-Checking eBook Content of 84 Transcription Study Guide Answers 239786

- 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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