

AP[®] BIOLOGY

2019 SCORING GUIDELINES

Question 1



Figure 1. Model of two-step enzymatic plant pathway for synthesis of IAA from tryptophan

Auxins are plant hormones that coordinate several aspects of root growth and development. Indole-3-acetic acid (IAA) is an auxin that is usually synthesized from the amino acid tryptophan (Figure 1). Gene *Trp-T* encodes an enzyme that converts tryptophan to indole-3-pyruvic acid (I3PA), which is then converted to IAA by an enzyme encoded by the gene *YUC*.

(a) Circle ONE arrow that represents transcription on the template pathway. Identify the molecule that would be absent if enzyme YUC is nonfunctional.

Circle (1 point)

- Circle around either arrow pointing from a gene (*Trp-T* or *YUC*) to mRNA

Identification (1 point)

- IAA

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Table of Contents 8 Ap Biology Answer Key

1. Understanding the eBook 8 Ap Biology Answer Key
 - The Rise of Digital Reading 8 Ap Biology Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 8 Ap Biology Answer Key
 - 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 8 Ap Biology Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 8 Ap Biology Answer Key
 - Personalized Recommendations
 - 8 Ap Biology Answer Key User Reviews and Ratings
 - 8 Ap Biology Answer Key and Bestseller Lists
5. Accessing 8 Ap Biology Answer Key Free and Paid eBooks
 - 8 Ap Biology Answer Key Public Domain eBooks
 - 8 Ap Biology Answer Key eBook Subscription Services
 - 8 Ap Biology Answer Key Budget-Friendly Options

6. Navigating 8 Ap Biology Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 8 Ap Biology Answer Key Compatibility with Devices
 - 8 Ap Biology Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 8 Ap Biology Answer Key
 - Highlighting and Note-Taking 8 Ap Biology Answer Key
 - Interactive Elements 8 Ap Biology Answer Key
8. Staying Engaged with 8 Ap Biology Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 8 Ap Biology Answer Key
9. Balancing eBooks and Physical Books 8 Ap Biology Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 8 Ap Biology Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 8 Ap Biology Answer Key
 - Setting Reading Goals 8 Ap Biology Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 8 Ap Biology Answer Key
 - Fact-Checking eBook Content of 8 Ap Biology Answer Key
 - 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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