

# AP<sup>®</sup> 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

# 2008 Ap Biology Answer Key

**Daniela Niemeyer**



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## **Table of Contents 2008 Ap Biology Answer Key**

1. Understanding the eBook 2008 Ap Biology Answer Key
  - The Rise of Digital Reading 2008 Ap Biology Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying 2008 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 2008 Ap Biology Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2008 Ap Biology Answer Key
  - Personalized Recommendations
  - 2008 Ap Biology Answer Key User Reviews and Ratings
  - 2008 Ap Biology Answer Key and Bestseller Lists
5. Accessing 2008 Ap Biology Answer Key Free and Paid eBooks

- 2008 Ap Biology Answer Key Public Domain eBooks
  - 2008 Ap Biology Answer Key eBook Subscription Services
  - 2008 Ap Biology Answer Key Budget-Friendly Options
6. Navigating 2008 Ap Biology Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - 2008 Ap Biology Answer Key Compatibility with Devices
    - 2008 Ap Biology Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of 2008 Ap Biology Answer Key
    - Highlighting and Note-Taking 2008 Ap Biology Answer Key
    - Interactive Elements 2008 Ap Biology Answer Key
  8. Staying Engaged with 2008 Ap Biology Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers 2008 Ap Biology Answer Key
  9. Balancing eBooks and Physical Books 2008 Ap Biology Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection 2008 Ap Biology Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine 2008 Ap Biology Answer Key
    - Setting Reading Goals 2008 Ap Biology Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of 2008 Ap Biology Answer Key
    - Fact-Checking eBook Content of 2008 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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