

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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ML Morrison

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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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