

AP[®] BIOLOGY

2019 SCORING GUIDELINES

Question 1

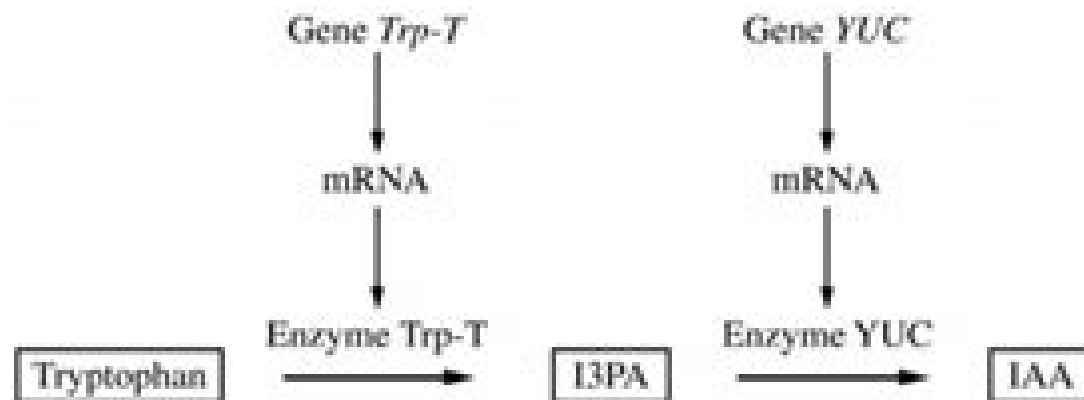


Figure 1. Model of two-step enzymatic plant pathway for synthesis of IAA from tryptophan

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 Ch 31 Guide Answer Key Ap Biology

1. Understanding the eBook Ch 31 Guide Answer Key Ap Biology
 - The Rise of Digital Reading Ch 31 Guide Answer Key Ap Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Ch 31 Guide Answer Key Ap Biology
 - 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 Ch 31 Guide Answer Key Ap Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ch 31 Guide Answer Key Ap Biology
 - Personalized Recommendations
 - Ch 31 Guide Answer Key Ap Biology User Reviews and Ratings
 - Ch 31 Guide Answer Key Ap Biology and Bestseller Lists
5. Accessing Ch 31 Guide Answer Key Ap Biology Free and Paid eBooks
 - Ch 31 Guide Answer Key Ap Biology Public Domain eBooks
 - Ch 31 Guide Answer Key Ap Biology eBook Subscription Services
 - Ch 31 Guide Answer Key Ap Biology Budget-Friendly Options
6. Navigating Ch 31 Guide Answer Key Ap Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Ch 31 Guide Answer Key Ap Biology Compatibility with Devices
 - Ch 31 Guide Answer Key Ap Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ch 31 Guide Answer Key Ap Biology
 - Highlighting and Note-Taking Ch 31 Guide Answer Key Ap Biology
 - Interactive Elements Ch 31 Guide Answer Key Ap Biology
8. Staying Engaged with Ch 31 Guide Answer Key Ap Biology

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ch 31 Guide Answer Key Ap Biology
- 9. Balancing eBooks and Physical Books Ch 31 Guide Answer Key Ap Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ch 31 Guide Answer Key Ap Biology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ch 31 Guide Answer Key Ap Biology
 - Setting Reading Goals Ch 31 Guide Answer Key Ap Biology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ch 31 Guide Answer Key Ap Biology
 - Fact-Checking eBook Content of Ch 31 Guide Answer Key Ap Biology
 - 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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