

Regulation of the Lactase Gene



About This Worksheet

This worksheet complements the Click and Learn "Regulation of the Lactase Gene" developed in conjunction with the 2011 HHMI Holiday Lectures on Science "Bones, Stones, and Genes: The Origin of Modern Humans."

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Key Concepts

- Eukaryotic gene expression is regulated at the levels of transcription, RNA processing, translation, and post-translation.
- Proteins called transcription factors bind to DNA and control transcription. Different types of transcription factors can increase or decrease transcription.
- Mutations in DNA regions that control gene expression can alter the way genes are expressed.
- Infants have high lactase levels so that they can digest their mothers' milk, but lactase gene expression is turned off after weaning.
- Lactase persistence is the trait that allows adults to continue to digest milk. It results from a mutation in an enhancer region of the lactase gene.

Instructions

1. Go to BioInteractive.org.
2. In the menu bar under the masthead, mouse over Topics → Evolution → Interactive.
3. Scroll down the page and click on "Regulation of the Lactase Gene."
4. Proceed through the slides, watch the embedded video clips, and answer the following questions in the space provided.

Questions

1. What is the difference between lactose tolerance and lactose intolerance? Be specific.

2. Why is lactose tolerance also called lactase persistence?

3. In which cells or tissues is lactase produced and what is its role?

4. What normally happens to the levels of lactase produced throughout a person's lifetime?

5. In general, why is it important for a cell to regulate protein production?

Regulation Of The Lactase Gene Hhmi Answer Key

JA Banks



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Table of Contents Regulation Of The Lactase Gene Hhmi Answer Key

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

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

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- Interactive and Gamified eBooks

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