

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.

The main difference between lactose tolerance and lactose intolerance is the ability to digest lactose, a carbohydrate commonly found on dairy products, to its simpler units – glucose and galactose through the enzyme lactase. Basically, a person is considered lactose intolerant if he/she does not have/ have reduced lactase in his/her small intestine.

2. Why is lactose tolerance also called lactase persistence?

Lactase is a normal enzyme found in the human body most especially during its infant to childhood stages. As we age, the ability to produce the enzyme reduces and in some cases it completely stops. This makes a person lactose intolerant. Lactose tolerance is also called lactase persistence because these people did not stop from producing lactase even post childhood stage. They have persistently produced this enzyme which allow the person to easily digest dairy products with ease.

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

Lactase is primarily produced in the cells of the walls of the small intestine. The small intestine functions for the absorption of nutrients from digested food as well as further digestion of food. To be more specific, proteins, fats, and carbohydrates are digested here with the help of many gastric juices. Hence, lactase is one of the carbohydrates that is digested in the small intestine with the help of lactase.

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

LCT gene, the gene responsible for the translation of lactase, is very active during infant to childhood stage. As a person ages, the LCT gene becomes inactive thus greatly affecting the production of lactase. In general, as a person gets older, the more the person becomes lactose intolerant.

Regulation Of The Lactase Gene Answers Ap Bio

Julia Schneider



Regulation Of The Lactase Gene Answers Ap Bio:

Bibliography of Agriculture ,1972 Index Medicus ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical
subject headings **Bibliography of Agriculture with Subject Index** ,1972-10 Journal of the American Dietetic
Association ,1986 **Lactase gene expression** Edmond Henri Herman Maria Rings,1994

The book delves into Regulation Of The Lactase Gene Answers Ap Bio. Regulation Of The Lactase Gene Answers Ap Bio is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Regulation Of The Lactase Gene Answers Ap Bio, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Regulation Of The Lactase Gene Answers Ap Bio
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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em 110 2uz fe engine mechanical engine unit b using the crankshaft damper bolt turn the crankshaft to align the timing marks of the crankshaft timing pulley and oil pump body em approx 45 timing mark turn

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pulley lines up with the tdc mark on the lower timing cover now look at the cam sprocket the dowel in the cam should be in the hole for number 1 on some older b2000 engines they might have an a b c all alignment should be on a

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum with molded nylon teeth for quieter operation

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