

GENE CONTROL IN PROKARYOTES

(Nelson Biology 12, pp. 255-256)

Introduction

Some intestinal bacteria (*E. coli*) utilize _____ that you ingest in as an energy source. Since you don't drink milk 24 hours a day, it would be wasteful for the bacteria to produce _____-degrading _____ when lactose is not present.

Thus, bacteria need a way to control or regulate when the DNA that codes for lactose-degrading enzymes is active (being _____) and when it is not.

Lactose Operon Structure (Fig. 2, pg. 256)

An "operon" is a stretch of DNA with genes that are associated with one major function. The lactose operon (also called the _____) is a stretch of _____ that can be turned on or off to regulate production of lactose-degrading enzymes.

The operon itself includes 3 important regions:

1. _____ sequence (binding site for _____) to begin transcription.
2. _____ (binding site for _____ protein).
3. _____ genes.
 - *lacZ* codes for _____
 - *lacY* codes for _____
 - *lacA* codes for _____

Just upstream from the lactose operon is a _____ gene which codes for production of a _____ protein (called the _____ protein) which turns the operon on or off (ie. allows or prevents DNA transcription).

How it Works: Lactose Absent

The _____ gene is constantly transcribed (ie. _____ is produced) and translated producing a

Gene Control In Prokaryotes Worksheet

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Gene Control In Prokaryotes Worksheet:

Enjoying the Track of Term: An Emotional Symphony within **Gene Control In Prokaryotes Worksheet**

In some sort of used by monitors and the ceaseless chatter of quick connection, the melodic splendor and mental symphony produced by the written word often disappear in to the backdrop, eclipsed by the relentless sound and interruptions that permeate our lives. However, located within the pages of **Gene Control In Prokaryotes Worksheet** a wonderful fictional treasure brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that interesting masterpiece conducts viewers on a psychological trip, well unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths with this poignant analysis, we will discover the book is main harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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