

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

Ying Liu



Gene Control In Prokaryotes Worksheet:

Gene Control In Prokaryotes Worksheet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Gene Control In Prokaryotes Worksheet**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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