

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.
 - o *lacZ* codes for _____
 - o *lacY* codes for _____
 - o *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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