

# 8.6

## Gene Expression and Regulation

**KEY CONCEPT** Gene expression is carefully regulated in both prokaryotic and eukaryotic cells.

### ▶ MAIN IDEAS

- Prokaryotic cells turn genes on and off by controlling transcription.
- Eukaryotic cells regulate gene expression at many points.

### VOCABULARY

**promoter**, p. 348

**operon**, p. 348

**exon**, p. 251

**intron**, p. 251



**Connect** Ours is a world of marvels. So many, in fact, that we may overlook what seem like little ones, such as plumbing. The turn of a handle sends clean water to your sink or shower. One twist and the water trickles out; two twists and it gushes forth. Another turn of the handle and the water is off again. But think about the mess and waste that would result if you couldn't control its flow. In a similar way, your cells have ways to control gene expression. Depending on an organism's needs, a gene can make a lot of protein, a little protein, or none at all.

### ▶ MAIN IDEA

## Prokaryotic cells turn genes on and off by controlling transcription.

The regulation of gene expression allows prokaryotic cells, such as bacteria, to better respond to stimuli and to conserve energy and materials. In general, this regulation is simpler in prokaryotic cells than in eukaryotic cells, such as those that make up your body. DNA in a prokaryotic cell is in the cytoplasm. Transcription and translation can happen at the same time. As a result, gene expression in prokaryotic cells is mainly regulated at the start of transcription.

A gene includes more than just a protein-coding sequence. It may have many other nucleotide sequences that play a part in controlling its expression. The start of transcription is largely controlled by these sequences, including promoters and operators. A **promoter** is a DNA segment that allows a gene to be transcribed. It helps RNA polymerase find where a gene starts. An operator is a DNA segment that turns a gene "on" or "off." It interacts with proteins that increase the rate of transcription or block transcription from occurring.

Bacteria have much less DNA than do eukaryotes, and their genes tend to be organized into operons. An **operon** is a region of DNA that includes a promoter, an operator, and one or more structural genes that code for all the proteins needed to do a specific task. Typically, operons are found only in prokaryotes and roundworms. The *lac* operon was one of the earliest examples of gene regulation discovered in bacteria. It will serve as our example. The *lac* operon has three genes, which all code for enzymes that play a role in

### VOCABULARY

The word *promote* comes from the Latin prefix *pro-*, meaning "forward," and the Latin word *movere*, meaning "to move."

# Ch 8 Section 6 Power Notes

**Liying Dong**



## **Ch 8 Section 6 Power Notes:**

The book delves into Ch 8 Section 6 Power Notes. Ch 8 Section 6 Power Notes is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ch 8 Section 6 Power Notes, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Ch 8 Section 6 Power Notes
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- Chapter 4: Ch 8 Section 6 Power Notes in Specific Contexts
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