

Regulation of Gene Expression

Big Picture

In order to produce the specific proteins that cells need, cells must regulate DNA transcription so that only certain parts of DNA are transcribed and translated into proteins. Transcription is regulated by regulatory proteins, which control the behavior of RNA polymerase. Regulation in prokaryotic cells involves operons, while regulation in eukaryotic cells involves different types of regulatory elements such as TATA boxes.

Key Terms

Gene Expression: Activating a particular gene to make a protein.

Regulatory Protein: Proteins that regulate DNA transcription.

Activators: Regulatory proteins that promote transcription.

Repressors: Regulatory proteins that prevent transcription.

Regulatory Elements: Regions of DNA where regulatory proteins can bind.

Promoter: Region of a gene where a RNA polymerase binds to initiate transcription of the gene.

RNA Polymerase: An enzyme that helps produce RNA during transcription.

Operon: Region of DNA containing genes that code for proteins with a particular function (usually for prokaryotic cells).

Operator: Part of the operon where regulatory proteins bind.

TATA Box: Regulatory element in the promoter of most cells.

Homeobox Genes: Genes that regulate development.

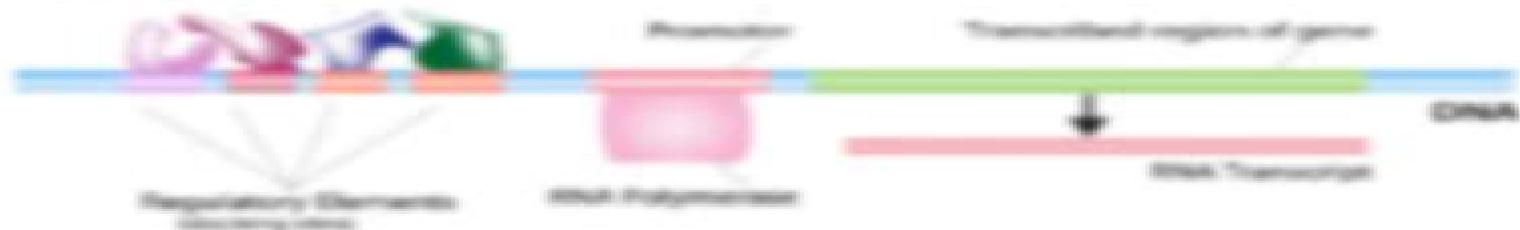
How Genes are Regulated

Gene expression is regulated, meaning that specific proteins are made when and where they are needed. This can be done by regulating transcription.

- Transcription is regulated by regulatory proteins.
- Regulatory proteins bind to regulatory elements

Types of regulatory proteins:

- **Activators:** promote transcription by helping RNA polymerase interact with promoter.
- **Repressors:** prevent transcription by preventing RNA polymerase from transcribing.



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