

Eukaryotic Gene Regulation

10. In what two ways is gene regulation in eukaryotes different from gene regulation in prokaryotes?

a. *Most eukaryotic genes are controlled individually.*

b. *Eukaryotic cells have more complex regulatory sequences than those of the lac repressor system.*

11. What is a TATA box? What does a TATA box do?

It is a short region of DNA that contains a sequence of T and A base pairs. The protein that binds to this site helps position RNA polymerase.

12. What are transcription factors and what do they do?

They are DNA-binding proteins that bind to DNA sequences in the regulatory regions of genes and help control gene expression.

13. Explain how gene regulation makes cell specialization possible.

It allows particular genes to be expressed in some kinds of cells but not others.

14. What is microRNA and how is it related to mRNA?

Small RNA molecules are called microRNA. They attach to certain mRNA molecules and stop them from passing on their protein-making instructions.

15. Explain how the process of RNA interference works.

Certain small RNA molecules fold into loops. The Dicer enzyme cuts them into microRNA (miRNA). The strands then separate. An miRNA piece attaches to a cluster of proteins to form a silencing complex. The silencing complex binds to and destroys an mRNA molecule that contains a base sequence complementary to the miRNA. In this way, it blocks gene expression.

Rna And Gene Expression Answers

Wenbin Ji



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