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expression is carefully regulated by all organisms so that the correct amount of each protein is made. Eukaryotic organisms regulate their gene expression differently than prokaryotes. While... Regulation of Gene Expression: Transcriptional ... - Study.com The regulation of gene expression is essential for eukaryotes, as it drives the processes of cellular differentiation and morphogenesis, leading to the creation of different cell types in multicellular organisms.

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Regulation of gene expression, or gene regulation, includes a

wide range of mechanisms that are used by cells to increase or decrease the production of specific gene products (protein or RNA).

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Gene expression is a highly regulated mechanism that controls the function and adaptability of all living cells including prokaryotes and eukaryotes. Several techniques exist for studying and ...

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Mechanisms are in place to regulate which genes are turned on or off in each cell, as well as whether those instructions should be passed on to new cells. Histones Are Involved in Gene Expression...

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and Function Ultimately, one wishes to determine how genes—and the proteins they encode—function in the intact organism. Although it may sound counterintuitive, one of the most direct ways to find out what a gene does is to see what happens to the organism when that gene is missing.

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