

Free epub Chapter 18 regulation of gene expression study guide answers [PDF]

gene expression is the process by which information from a gene is used in the synthesis of a functional gene product that enables it to produce end products proteins or non coding rna and ultimately affect a phenotype

how is gene expression regulated the amounts and types of mrna molecules in a cell reflect the function of that cell in fact thousands of transcripts are produced every second in every cell

how does a gene which consists of a string of dna hidden in a cell's nucleus know when it should express itself how does this gene cause the production of a string of amino acids called a protein while primarily concerned with protein molecules that act on dna and rna sequences such as transcription factors and histones the study of gene expression also focuses on where in the cell

gene expression determines the function and structure i.e. the phenotype of all 400 tissues and cell types of the human body a gene expression pattern is characteristic for a given tissue or cell type but can significantly vary information from a gene is used to build a functional product in a process called gene expression a gene that encodes a polypeptide is expressed in two steps in this process information flows from dna rna protein a directional relationship known as the central dogma of molecular biology

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