

Pdf free Control of gene expression section 11 1 review answers [PDF]

DNA → RNA → protein
 Gene expression is the flow of genetic information from gene to protein. Gene expression is a vital process in cells that ensures specific proteins are created at the right time and in the right quantities. 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.

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. The conversion of genes into their functional products is called gene expression. It is a tightly regulated process that enables a cell to respond to its changing environment by making more or less of a specific protein.

Gene expression is the process by which the information encoded in a gene is turned into a function. This mostly occurs via the transcription of RNA molecules that code for proteins or non-coding RNA molecules that serve other functions.

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 polypeptide? 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 to RNA, and then from RNA to protein. A directional relationship known as the central dogma of molecular biology.

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 is a series of steps by which information encoded in genes creates functional products such as RNA or proteins. It is a fundamental process that plays a crucial role in all living organisms' development, functioning, and

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