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## **Gene expression**

The process by which information from a gene is used in the synthesis of a functional gene product.

Gene transcription is the process by which DNA is used as a template to synthesize RNA. It is the first step in gene expression

These products are often proteins, but in non-coding genes such as transfer RNA (tRNA) or small nuclear RNA (snRNA) genes, the product is a functional RNA. The process of gene expression is used by all known life - eukaryotes (including multicellular organisms), prokaryotes (bacteria and archaea), and utilized by viruses - to generate the macromolecular machinery for life. Several steps in the gene expression process may be modulated, including the transcription, RNA splicing, translation, and post-translational modification of a protein.

## Gene expression regulation

Gene expression regulation.

## **Gene expression analysis**

Gene expression analysis.

## Gene expression profiling

Gene expression profiling.

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