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10.6 The DNA genotype is expressed as proteins, which provide the molecular basis for phenotypic traits. A gene is a sequence of DNA that directs the synthesis of a specific protein. -DNA is transcribed into RNA -RNA is translated into protein. The presence and action of proteins determine the phenotype of an organism.

Chapter 10 Molecular Biology of the Gene

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Molecular biology - Wikipedia

A special sequence of nucleotides in DNA that marks the end of a gene. It signals RNA polymerase to release the newly made RNA molecule, which then departs from the gene

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"*Molecular Biology: Genes to Proteins* is a guide through the basic molecular processes and genetic phenomena of both prokaryotic and eukaryotic cells. Written for the undergraduate and first year graduate students within molecular biology or molecular genetics, the text has been updated with the latest data in the field. It incorporates a biochemical approach as well as a discovery approach that provides historical and experimental information within the context of the narrative."--Publisher.

The 4th edition of this long-awaited book is divided into two volumes: Vol. I, *General Principles*, governing the structures and functions of both prokaryotic and eukaryotic genes, and Vol. II, 0-8053-9613, due out in April 1987, will feature more advanced, specialized topics.

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