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Chapter 12 Vocab

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| **Across****3.** Regio of DNA that indicates to an enzyme where to bind to make RNA.**7.** Particular segment of DNA is copied into RNA by the enzyme RNA polymerase**11.** Condition in which an organism has extra sets of chromosomes.**15.** Granular material visible within the nucleus.**18.** Process in which cells become specialized in structure and function**20.** Decoding of a mRNA message into a polypeptide chain.**22.** Virus that infects bacteria.**24.** Sequence of DNA that is not involved in coding for a protein.**25.** Protein molecule around which DNA is tightly coiled in chromatin**26.** Series of genes that controls the differentiation of cells nd tissues in an embryo.**27.** Similar to DNA polymerase, binds the DNA and seperates the DNA strands during trascription.**28.** Interacts with a regulatory protein that controls the trascription of the operon. | **Down****1.** Change in DNA sequence that affects genetic information.**2.** Three-nucleotide sequence on messanger RNA that codes for a single amino acid.**4.** That shifts the reading frame of a genetic message by inserting or deleting a nucleotide.**5.** Group of three bases on a tRNA molecule that are complementary to an mRNA codon.**6.** Monomer of nuclic acid made up of a 5-carbon sugar.**8.** Copying process by which a cell duplicates its DNA.**9.** Are made of several dozens of protein.**10.** Process in which one strain of bacteria is changed by a gene or genes from another strain of bacteria.**12.** Enzyme involved in DNA replication.**13.** Group of genes operating together.**14.** Type of RNA molecule thath transfers amino acids to ribosomes during protein synthesis.**16.** Gene mutation involving changes in one or a few nucleotides.**17.** Principle that bonds with DNA.**19.** Expressed sequence of DNA; codes for a protein.**21.** Sequence of DNA that codes for a protein and thus determines a trait.**23.** RNA molecule that carries copies of instructions. |