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explains how phenotypes are expressed explain the central dogma of protein synthesis describe the genetic code and how the nucleotide sequence prescribes the amino acid and the protein sequence the cellular process of transcription generates messenger rna mrna a mobile molecular copy of one or more genes with an alphabet of a c g and uracil u two copies of chromosome 16 one copy inherited from each parent form one of the pairs chromosome 16 spans more than 90 million dna building blocks base pairs and represents almost 3 percent of the total dna in cells identifying genes on each chromosome is an active area of genetic research a probability of 1 for an event means that it is guaranteed to happen while a probability of 0 for an event means that it is guaranteed not to happen a simple example of probability is having a 1 2 chance of getting heads when you flip a coin as sal explains in this intro to probability video

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