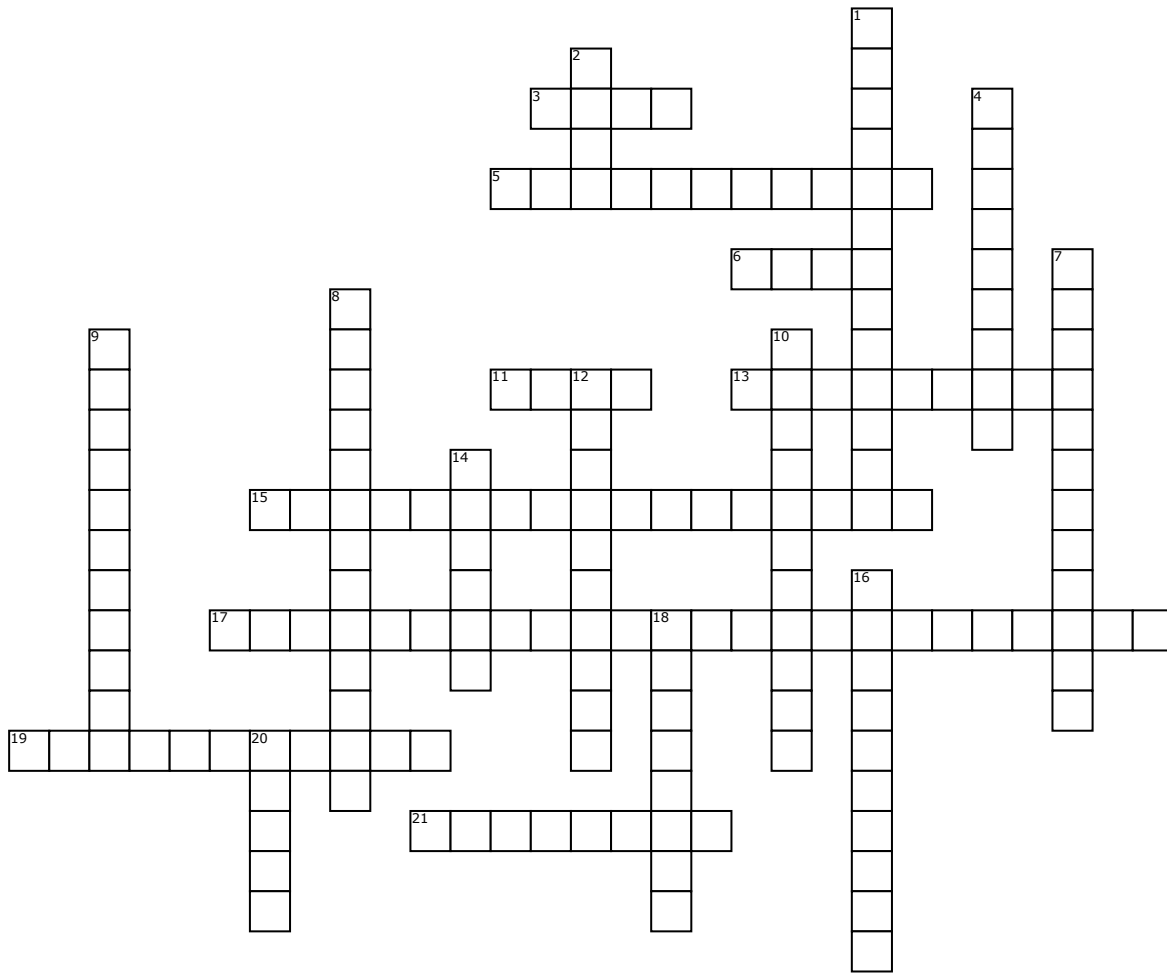


Gene Action



Across

- 3.** class of RNA molecules found together with characteristic proteins, in ribosomes
- 5.** assembly of proteins on ribosomes, using messenger RNA to direct the order of amino acids
- 6.** fundamental physical unit of heredity, which transmits a set of specifications from one generation to the next. A segment of DNA that codes for a specific product
- 11.** RNA complementary to one strand of DNA; transcribed from genes
- 13.** A hereditary change to the nucleotide sequence of a gene; types of mutations include deletion, insertion, and substitution

- 15.** is a disorder that affects hemoglobin and red blood cell shape
- 17.** Predictable interactions between nitrogen bases
- 19.** code that links a nucleotide sequence to the amino acid sequence in a protein
- 21.** loss of base pair

Down

- 1.** A, T, G, C
- 2.** RNA responsible for transporting amino acids to the ribosome during protein synthesis
- 4.** addition of a base pair
- 7.** replacement of one base pair with a different base pair

- 8.** assembly of an RNA molecule complementary to a strand of DNA
- 9.** The process of making a copy of the genetic information in the cell nucleus
- 10.** DNA or RNA. An organic compound composed of nucleotides, it is important in coding instructions for cell processes
- 12.** A subunit or building block of DNA or RNA
- 14.** full set of genetic information in an organism
- 16.** pigment in red blood cells responsible for transporting oxygen
- 18.** large structure made of protein and RNA; links amino acids together
- 20.** three-nucleotide sequence