

mRNA AND TRANSCRIPTION

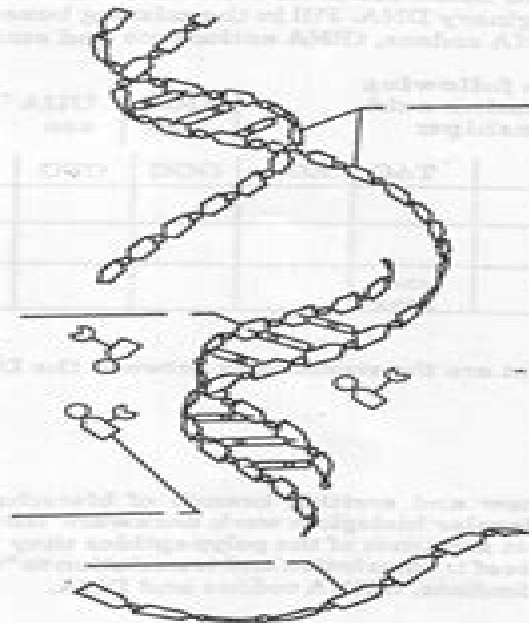
Name _____

Transcription

Fill in the blanks below. On the illustration of transcription, label the DNA, the newly-forming mRNA, the completed strand of mRNA and a free nucleotide.

Messenger RNA (mRNA) carries the instructions to make a particular _____ from the DNA in the _____ to the ribosomes. The process of producing mRNA from instructions in the DNA is called _____.

During transcription, the DNA molecule unwinds and separates, exposing the nitrogenous bases. Free RNA _____ pair with the exposed bases. There is no _____ (T) in RNA. _____ (U) pairs with adenine (A) instead. RNA contains the sugar _____ instead of deoxyribose. The mRNA molecule is completed by the formation of _____ between the RNA _____, and it then separates from the DNA. The mRNA molecule is a _____ strand, unlike DNA.



Codons

Each combination of three nitrogenous bases on the mRNA molecule is a codon, a three-letter code word for a specific amino acid. The table below shows the mRNA codon for each amino acid. Use the table to answer the questions below.

- The codon for tryptophan is _____.
- For leucine, there are _____ different codons.
- The codon GAU is for _____.
- In a stop codon, if the second base is G, the first and third bases are _____ and _____.

		Second Base in Code Word				Third Base in Code Word
		A	G	U	C	
First Base in Code Word	A	Lysine Lysine Asparagine Asparagine	Arginine Arginine Serine Serine	Isoleucine Methionine Isoleucine Isoleucine	Threonine Threonine Threonine Threonine	A G U C A G U C A G U C
	G	Glutamic Acid Glutamic Acid Aspartic Acid Aspartic Acid	Glycine Glycine Glycine Glycine	Valine Valine Valine Valine	Alanine Alanine Alanine Alanine	
	U	"Stop" codon "Stop" codon Tyrosine Tyrosine	"Stop" codon Tryptophan Cysteine Cysteine	Leucine Leucine Phenylalanine Phenylalanine	Serine Serine Serine Serine	
	C	Glutamine Glutamine Histidine Histidine	Arginine Arginine Arginine Arginine	Leucine Leucine Leucine Leucine	Proline Proline Proline Proline	

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Michael Hoelscher



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