

mRNA AND TRANSCRIPTION

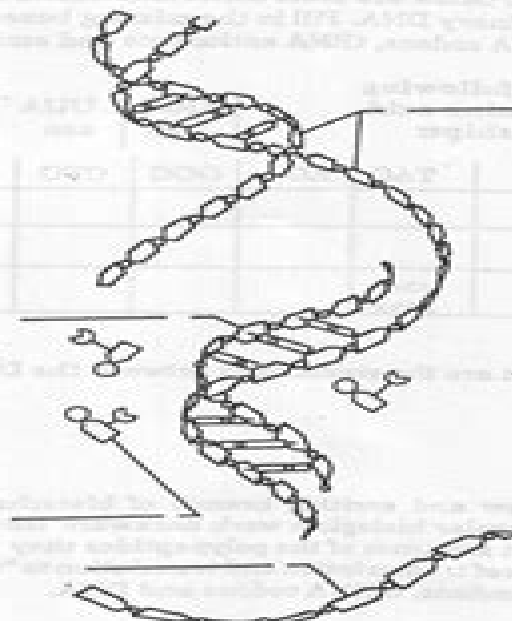
Name _____

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				
		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	Third Base in Code Word
	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 Tryptophan 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	

Rna And Transcription Answers Biology If8765

SA Adler



Rna And Transcription Answers Biology If8765:

The book delves into Rna And Transcription Answers Biology If8765. Rna And Transcription Answers Biology If8765 is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Rna And Transcription Answers Biology If8765, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Rna And Transcription Answers Biology If8765
 - Chapter 2: Essential Elements of Rna And Transcription Answers Biology If8765
 - Chapter 3: Rna And Transcription Answers Biology If8765 in Everyday Life
 - Chapter 4: Rna And Transcription Answers Biology If8765 in Specific Contexts
 - Chapter 5: Conclusion
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