

Gene Expression—Translation

How do cells synthesize polypeptides and convert them to functional proteins?

Why?

The message in your DNA of who you are and how your body works is carried out by cells through gene expression. In most cases this means synthesizing a specific protein to do a specific job. First, mRNA is transcribed from the DNA code. Then, the mRNA sequence is translated into a polypeptide sequence.

Model 1 – Codons

mRNA nucleotides		Second Base				Amino acids	
		U	C	A	G		
First Base	U	UUU Phe UUC Phe UUA Leu UUG Leu	UCU Ser UCC Ser UCA Ser UCG Ser	UAU Tyr UAC Tyr UAA stop UAG stop	UGU Cys UGC Cys UGA stop UGG Trp	U C A G	
	C	CUU Leu CUC Leu CUA Leu CUG Leu	CCU Pro CCC Pro CCA Pro CCG Pro	CAU His CAC His CAA Gln CAG Gln	CGU Arg CGC Arg CGA Arg CGG Arg	U C A G	
	A	AUU Ile AUC Ile AUA Ile AUG Met (start)	ACU Thr ACC Thr ACA Thr ACG Thr	AAU Asn AAC Asn AAA Lys AAG Lys	AGU Ser AGC Ser AGA Arg AGG Arg	U C A G	
	G	GUU Val GUC Val GUA Val GUG Val	GCU Ala GCC Ala GCA Ala GCG Ala	GAU Asp GAC Asp GAA Glu GAG Glu	GGU Gly GGC Gly GGA Gly GGG Gly	U C A G	
						Third Base	

- Model 1 defines the code scientists have discovered that relates the nucleotide sequence of mRNA to the amino acid sequence of polypeptides.
 - What do the letters U, C, A, and G in Model 1 represent?
mRNA nucleotides
 - What do the abbreviations such as Phe, Ile, Ala, and Gly in Model 1 represent?
amino acids
 - The language of mRNA is often described as a "triplet code." Explain the significance of this reference.
3 nucleotides are needed to code one amino acid

Gene Expression Translation Pogil Answer Key

G Psacharopoulos



Gene Expression Translation Pogil Answer Key:

Embracing the Melody of Term: An Emotional Symphony within **Gene Expression Translation Pogil Answer Key**

In a world eaten by screens and the ceaseless chatter of instantaneous interaction, the melodic elegance and emotional symphony created by the published term often diminish into the back ground, eclipsed by the persistent noise and disruptions that permeate our lives. However, nestled within the pages of **Gene Expression Translation Pogil Answer Key** a wonderful literary treasure filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts viewers on an emotional journey, well unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this poignant evaluation, we will investigate the book is key harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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