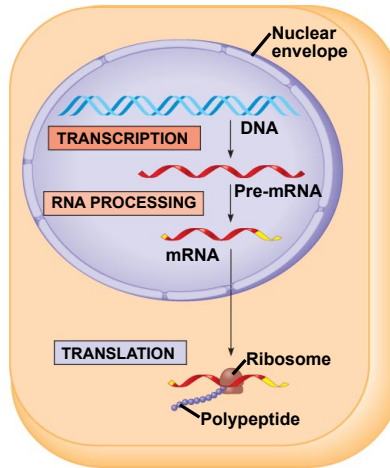
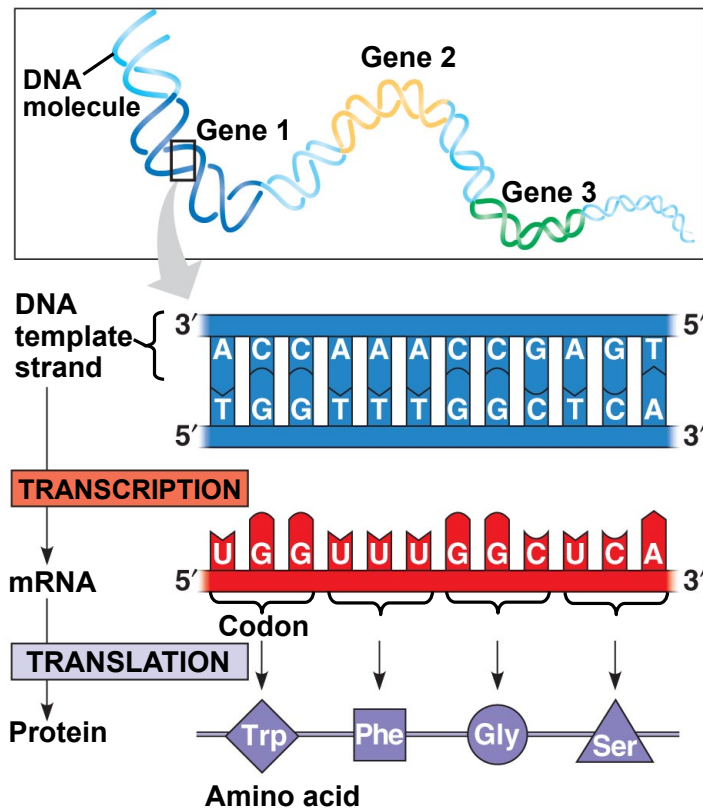


(a) Bacterial cell



(b) Eukaryotic cell

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		Second mRNA base					
		U	C	A	G		
First mRNA base (5' end of codon)	U	UUU Phe	UCU Ser	UAU Tyr	UGU Cys	U	Third mRNA base (3' end of codon)
	C	UUC Phe	UCC Ser	UAC Tyr	UGC Cys	C	
	A	UUA Leu	UCA Ser	UAA Stop	UGA Stop	A	
	G	UUG Leu	UCG Ser	UAG Stop	UGG Trp	G	
C	U	CUU Leu	CCU Pro	CAU His	CGU Arg	U	U
	C	CUC Leu	CCC Pro	CAC His	CGC Arg	C	
	A	CUA Leu	CCA Pro	CAA Gln	CGA Arg	A	
	G	CUG Leu	CCG Pro	CAG Gln	CGG Arg	G	
A	U	AUU Ile	ACU Thr	AAU Asn	AGU Ser	U	C
	C	AUC Ile	ACC Thr	AAC Asn	AGC Ser	C	
	A	AUA Ile	ACA Thr	AAA Lys	AGA Arg	A	
	G	AUG Met or start	ACG Thr	AAG Lys	AGG Arg	G	
G	U	GUU Val	GCU Ala	GAU Asp	GGU Gly	U	A
	C	GUC Val	GCC Ala	GAC Asp	GGC Gly	C	
	A	GUA Val	GCA Ala	GAA Glu	GGA Gly	A	
	G	GUG Val	GCG Ala	GAG Glu	GGG Gly	G	

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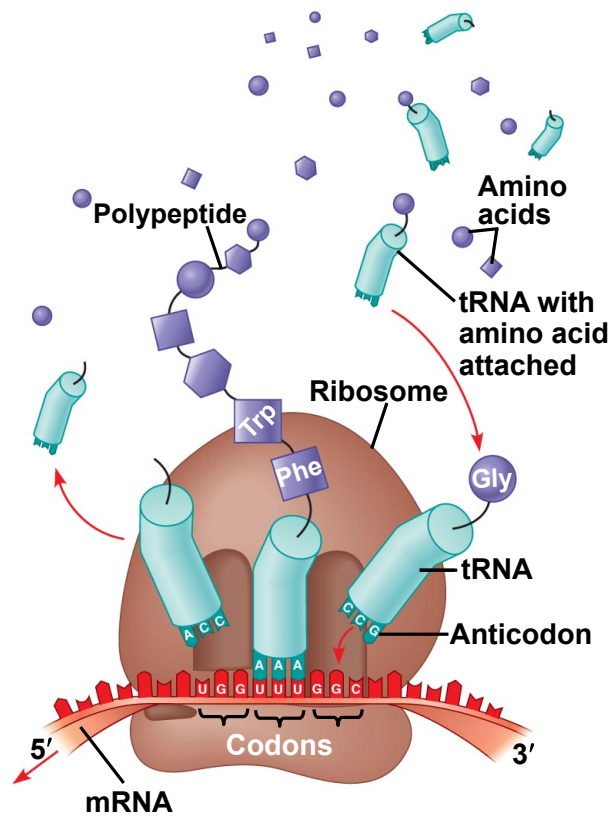
(a) Tobacco plant expressing a firefly gene



(b) Pig expressing a jellyfish gene

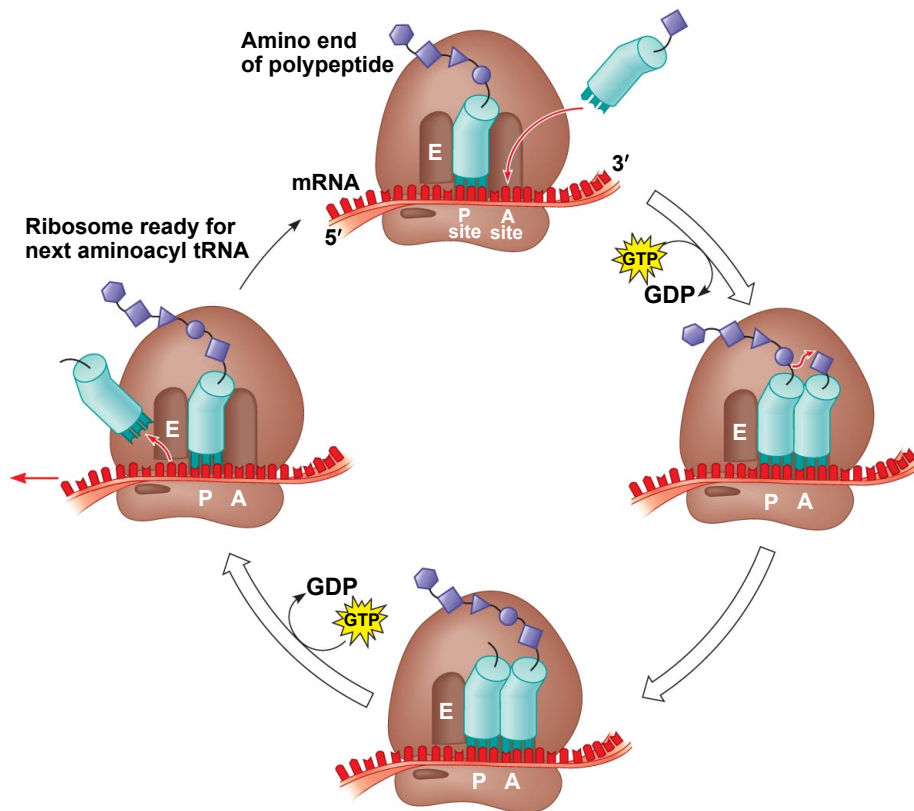
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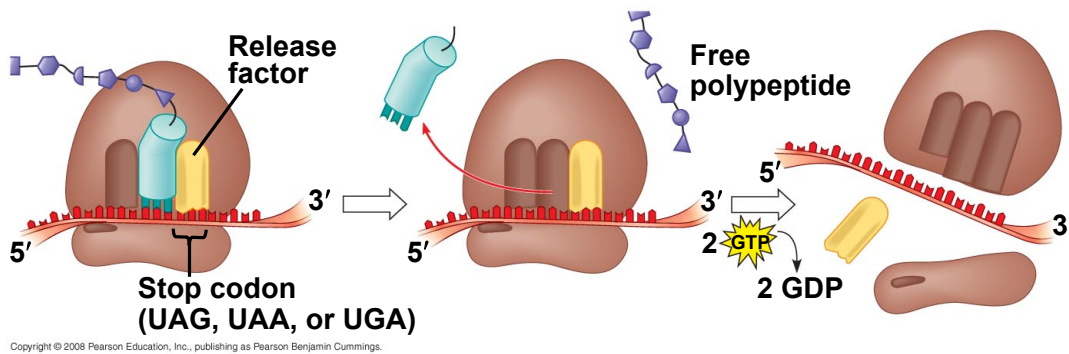
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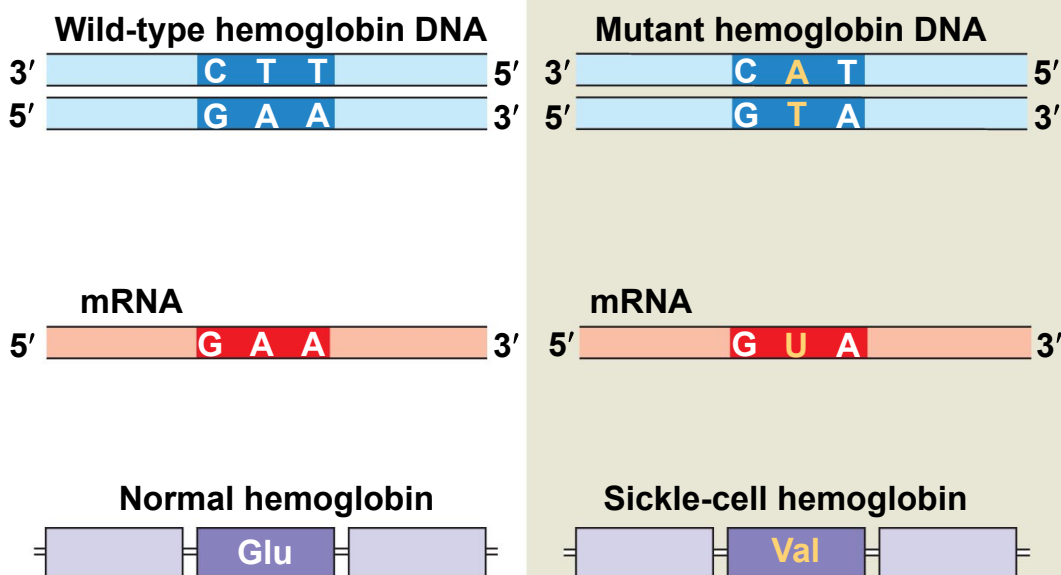


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