

10. Base your answers to the following question on the Universal Genetic Code Chart below and on your knowledge of biology.

Universal Genetic Code Chart
Messenger RNA Codons and the Amino Acids for Which They Code

		SECOND BASE							
		U		C		A		G	
FIRST BASE	U	UUU } PHE UUC } UUA } LEU UUG }	UCU } SER UCC } UCA } UCG }	UAU } TYR UAC } UAA } STOP UAG }	UGU } CYS UGC } UGA } STOP UGG } TRP	U C A G			
	C	CUU } LEU CUC } CUA } CUG }	CCU } PRO CCC } CCA } CCG }	CAU } HIS CAC } CAA } GLN CAG }	CGU } ARG CGC } CGA } CGG }	U C A G			
	A	AUU } ILE AUC } AUA } AUG } MET (START)	ACU } THR ACC } ACA } ACG }	AUU } ASN AUC } AAA } LYS AAG }	AUU } SER AUC } AGA } ARG AUG }	U C A G			
	G	GUU } VAL GUC } GUA } GUG }	GCU } ALA GCC } GCA } GCG }	GAU } ASP GAC } GAA } GLU GAG }	GGU } GLY GGC } GGA } GGG }	U C A G			

Check these Sequences:	AAG	CCA	TGA	ACA
mRNA, codons				
Amino acid sequence				

Then, using the Universal Genetic Code Chart, record the amino acid sequence that is coded for by the mRNA sequence you showed in the table.

11. Which chemicals are used to cut DNA into fragments for a gel electrophoresis procedure?
- A.) enzymes
B.) molecular bases
C.) hormones
D.) ATP molecules

Nys Regents Living Environment Biodiversity Lab

Mark Steyvers



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