

Quiz 1. Molecular basis of life

1. If we know that 40% of a given double-stranded DNA sequence is A, what is a proportion for the rest of the nucleotides?

- a. 40% G, 10% T, 10% C
- b. 40% T, 10% G, 10% C
- c. 40% G, 15% C, 5% T
- d. Insufficient data

2. What protein sequence will be transcribed and then translated from the following DNA sequence?

AAAGGG

Transcription into:

Translation into:

		2nd base in codon				
		U	C	A	G	
1st base in codon	U	Phe Phe Leu Leu	Ser Ser Ser Ser	Tyr Tyr STOP STOP	Cys Cys STOP Trp	U C A G
	C	Leu Leu Leu Leu	Pro Pro Pro Pro	His His Gln Gln	Arg Arg Arg Arg	U C A G
	A	Ile Ile Ile Met	Thr Thr Thr Thr	Asn Asn Lys Lys	Ser Ser Arg Arg	U C A G
	G	Val Val Val Val	Ala Ala Ala Ala	Asp Asp Glu Glu	Gly Gly Gly Gly	U C A G
						3rd base in codon