

Blackjack Love TNT

Often, people are attracted to their future life partner, initially, on looks alone. Most people, at least date for a few years before getting married. Others do not. Unfortunately, when you enter into a long term commitment, such as marriage, you don't get to look at your partner's genes so you don't really know what to expect. Everybody likes a surprise right?

Your Name: _____ Your Spouse: _____

In 2 to 3 sentences, describe your "spouse" and tell me why you chose that person.

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

Now that you have chosen your life partner, look at the back of their profile and you will find 4 genes (chunks of DNA).

In this activity, you will:

1. Transcribe the DNA into mRNA.
2. Translate the DNA into protein language (amino acids)
3. Look up the protein on the wall to discover what lies in your future.

Example:

DNA gene TAC-TTG-AAT-GAC-GAG-AAC-ATC

mRNA

Amino Acids

Protein function

DNA gene #1

mRNA

Amino Acids

Protein
function

DNA gene #2

mRNA

Amino Acids

Protein
function

DNA gene #3

mRNA

Amino Acids

Protein
function

DNA gene #4

mRNA

Amino Acids

Protein
function