

NAME _____

CLASS _____

HOW TO UNDERSTAND DNA WITHOUT REALLY TRYING

Below are t-RNA codons for several t-RNA triplets. Instead of amino acids, words have been substituted so that when you decode the DNA you will produce a sentence instead of a protein. Write the m-RNA sequence and the t-RNA sequence for each of the following DNA molecules, and then substitute the "amino acid" words to make a "protein" sentence. Then write your own DNA molecule and ask your lab partner to decode it.

t-RNA anticodons	"amino acid"	t-RNA anticodons	"amino acid"
AGA	I	CCG	to
UGU	more	UUU	biology
GUA	study	GGU	student
AAA	went	CUG	ought
CGG	love	UAG	today
AGU	go	AAU	am
GAG	will	GUG	is
GCU	DNA	GCG	class
AAC	code	CAC	genetics
AUG	fun	GUU	often

1. DNA	AGACGGTTT
m-RNA	UCUGCCAAA
t-RNA	AGA CGG UUU
"protein"	I Love Biology

2. DNA	AGACTGCCGGTATTTTGT
m-RNA	
t-RNA	
"protein"	

3.	DNA	AGAGAGAGTCCGTTTTAG
	m-RNA	
	t-RNA	
	"protein"	

4.	DNA	AGAGAGAGTCCGGCGCCGGTATTTTAG
	m-RNA	
	t-RNA	
	"protein"	

5.	DNA	TTTGTGGTTATG
	m-RNA	
	t-RNA	
	"protein"	

6.	DNA	AGAAATATGTAG
	m-RNA	
	t-RNA	
	"protein"	