

Transcription, Translation, and Codon Chart Practice

First Letter	Second Letter				Third Letter
	U	C	A	G	
U	phenylalanine	serine	tyrosine	cysteine	U
	phenylalanine	serine	tyrosine	cysteine	C
	leucine	serine	stop	stop	A
	leucine	serine	stop	tryptophan	G
C	leucine	proline	histidine	arginine	U
	leucine	proline	histidine	arginine	C
	leucine	proline	glutamine	arginine	A
	leucine	proline	glutamine	arginine	G
A	isoleucine	threonine	asparagine	serine	U
	isoleucine	threonine	asparagine	serine	C
	isoleucine	threonine	lysine	arginine	A
	(start) methionine	threonine	lysine	arginine	G
G	valine	alanine	aspartate	glycine	U
	valine	alanine	aspartate	glycine	C
	valine	alanine	glutamate	glycine	A
	valine	alanine	glutamate	glycine	G

DNA Sequence:

1. ATGAAAAACAAGGTACACATCTAG

mRNA:

amino Acids:

2. ATGAAAAACAATTGCACGTAG

mRNA:

amino Acids:

3. ATGTAAACCACACTACATAG

mRNA:

amino Acids:

4. ATGAGAAGTAGGAGAAGCATAATCTAG

mRNA:

amino Acids:

5. ATGATTCAACACATCCAGCCACATTAG

mRNA:

amino Acids:

6. ATGCCCCCGAGAAGCCTTAG

mRNA:

amino Acids:

7. ATGCGACGCCGGCGTAG

mRNA:

amino Acids:

8. ATGCTACTCATAGATCTGCTTTAG