

## Transcription, Translation, and Codon Chart Practice

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

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