

CODON BINGO

Write the names of all twenty amino acids in the squares of the bingo board below. There will be three extra spaces so you will need to repeat three of the amino acids.

When the DNA codon sequence is read, transcribe it into the appropriate mRNA codon. Then use the mRNA codon chart to look up the name of the amino acid. Mark that amino acid on the bingo board. The first person to get five marks in a row (across, down, or diagonal) is the winner of Codon Bingo!

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|----------------|----------------|-----------------------------------|----------------|
| 1. alanine | 6. glutamate | 11. leucine | 16. serine |
| 2. arginine | 7. glutamine | 12. lysine | 17. tryptophan |
| 3. asparagines | 8. glycine | 13. methionine _(start) | 18. tyrosine |
| 4. aspartate | 9. histidine | 14. phenylalanine | 19. threonine |
| 5. cysteine | 10. isoleucine | 15. proline | 20. valine |

		FREE!		

<i>First base</i>	mRNA CODON CHART				<i>Third base</i>
	Second base				
	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
	methionine (START)	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

D <i>ATA</i> R UAU Tyrosine	D <i>TTA</i> R AAU Asparagine	D <i>GTA</i> R CAU Histidine	D <i>CTA</i> R GAU Aspartate
D <i>ATG</i> R UAC Tyrosine	D <i>TTG</i> R AAC Asparagine	D <i>GTG</i> R CAC Histidine	D <i>CTG</i> R GAC Aspartate
D <i>ATT</i> R UAA STOP --- Pick Again	D <i>TTT</i> R AAA Lysine	D <i>GTT</i> R CAA Glutamine	D <i>CTT</i> R GAA Glutamate

<i>D ATC</i> R UAG STOP --- Pick Again	<i>D TTC</i> R AAG Lysine	<i>D GTC</i> R CAG Glutamine	<i>D CTC</i> R GAG Glutamate
<i>D ACA</i> R UGU Cysteine	<i>D TCA</i> R AGU Serine	<i>D GCA</i> R CGU Arginine	<i>D CCA</i> R GGU Glycine
<i>D ACG</i> R UGC Cysteine	<i>D TCG</i> R AGC Serine	<i>D GCG</i> R CGC Arginine	<i>D CCG</i> R GGC Glycine

D <i>AAG</i> R UUC Phenylalanine	D <i>TAG</i> R AUC Isoleucine	D <i>GAG</i> R CUC Leucine	D <i>CAG</i> R GUC Valine
D <i>AAT</i> R UUA Leucine	D <i>TAT</i> R AUA Isoleucine	D <i>GAT</i> R CUA Leucine	D <i>CAT</i> R GUA Valine
D <i>AAC</i> R UUG Leucine	D <i>TAC</i> R AUG Methionine - Start	D <i>GAC</i> R CUG Leucine	D <i>CAC</i> R GUG Valine

D <i>AGA</i> R UCU Serine	D <i>TGA</i> R ACU Threonine	D <i>GGA</i> R CCU Proline	D <i>CGA</i> R GCU Alanine
D <i>AGG</i> R UCC Serine	D <i>TGG</i> R ACC Threonine	D <i>GGG</i> R CCC Proline	D <i>CGG</i> R GCC Alanine
D <i>AGT</i> R UCA Serine	D <i>TGT</i> R ACA Threonine	D <i>GGT</i> R CCA Proline	D <i>CGT</i> R GCA Alanine

^D AGC

R UCG

Serine

^D TGC

R ACG

Threonine

^D GGC

R CCG

Proline

^D CGC

R GCG

Alanine