

<i>Amino Acids</i>	<i>Codons</i>
Alanine	GCU, GCA, GCC, GCG
Arginine	CGU, CGA, CGC, CGG, AGA, AGG
Asparagine	AAU, AAC
Aspartic Acid	GAU, GAC
Cysteine	UGU, UGC
Glutamic Acid	GAA, GAG
Glutamine	CAA, CAG
Glycine	GGU, GGA, GGC, GGG
Histidine	CAU, CAC
Isoleucine	AUU, AUA, AUC
Leucine	CUU, CUA, CUC, CUG, UUA, UUG
Lysine	AAA, AAG
Methionine (START)	AUG
Phenylalanine	UUU, UUC
Proline	CCU, CCA, CCC, CCG
Serine	UCU, UCA, UCC, UCG, AGU, AGC
Threonine	ACU, ACA, ACC, ACG
Tryptophan	UGG
Tyrosine	UAU, UAC
Valine	GUU, GUA, GUC, GUG
Stop Codons	UAA, UAG, UGA

# THE GENETIC CODE

## SECOND LETTER

		U	C	A	G	
U	UUU } Phe	UCU } Ser	UAU } Tyr	UGU } Cys	U	
	UUC } Leu		UAC } Tyr	UGC } Cys		
	UUA } Leu		UAA } Ochre (terminator)	UGA } Opal terminator		
	UUG } Leu		UAG } Amber (terminator)	UGG } Trp		
C	CUU } Leu	CCU } Pro	CAU } His	CGU } Arg	U	
	CUC } Leu		CAC } His	CGC } Arg		
	CUA } Leu		CAA } Gln	CGA } Arg		
	CUG } Leu		CAG } Gln	CGG } Arg		
A	AUU } Ileu	ACU } Thr	AAU } Asn	AGU } Ser	U	
	AUC } Ileu		AAC } Asn	AGC } Ser		
	AUA } Met (initiator)		AAA } Lys	AGA } Arg		
	AUG } Met (initiator)		AAG } Lys	AGG } Arg		
G	GUU } Val	GCU } Ala	GAU } Asp	GGU } Gly	U	
	GUC } Val		GAC } Asp	GGC } Gly		
	GUA } Val		GAA } Glu	GGA } Gly		
	GUG } (initiator)		GAG } Glu	GGG } Gly		

FIRST (5') LETTER

THIRD (3') LETTER