

Table of Standard Genetic Code

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This table shows the codons and the amino acid for each. The direction of the mRNA is 5' to 3'

UUU - Phe	UCU - Ser	UAU - Tyr	UGU - Cys
UUC - Phe	UCC - Ser	UAC - Tyr	UGC - Cys
UUA - Leu	UCA - Ser	UAA - STOP ochre	UGA - STOP opal
UUG - Leu	UCG - Ser	UAG - STOP amber	UGG - Trp
CUU - Leu	CCU - Pro	CAU - His	CGU - Arg
CUC - Leu	CCC - Pro	CAC - His	CGC - Arg
CUA - Leu	CCA - Pro	CAA - Gln	CGA - Arg
CUG - Leu	CCG - Pro	CAG - Gln	CGG - Arg
AUU - Ile	ACU - Thr	AAU - Asn	AGU - Ser
AUC - Ile	ACC - Thr	AAC - Asn	AGC - Ser
AUA - Ile	ACA - Thr	AAA - Lys	AGA - Arg
AUG - Met (START)	ACG - Thr	AAG - Lys	AGG - Arg
GUU - Val	GCU - Ala	GAU - Asp	GGU - Gly
GUC - Val	GCC - Ala	GAC - Asp	GGC - Gly
GUA - Val	GCA - Ala	GAA - Glu	GGA - Gly
GUG - Val	GCG - Ala	GAG - Glu	GGG - Gly

Inverse table of Standard Genetic Code

This table shows the amino acid and the codons for each. The direction of the mRNA is 5' to 3'

Ala	GCU, GCC, GCA, GCG	Leu	UUA, UUG, CUU, CUC, CUA, CUG
Arg	CGU, CGC, CGA, CGG, AGA, AGG	Lys	AAA, AAG
Asn	AAU, AAC	Met	AUG
Asp	GAU, GAC	Phe	UUU, UUC
Cys	UGU, UGC	Pro	CCU, CCC, CCA, CCG
Gln	CAA, CAG	Ser	UCU, UCC, UCA, UCG, AGU, AGC
Glu	GAA, GAG	Thr	ACU, ACC, ACA, ACG
Gly	GGU, GGC, GGA, GGG	Trp	UGG
His	CAU, CAC	Tyr	UAU, UAC
Ile	AUU, AUC, AUA	Val	GUU, GUC, GUA, GUG
START	AUG	STOP	UAA (ochre), UAG (amber), UGA (opal)

Key	Nonpolar	Polar	Basic	Acidic
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Table of standard amino acid abbreviations

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Ala	Alanine	Leu	Leucine
Arg	Arginine	Lys	Lysine
Asn	Asparagine	Met	Methionine
Asp	Aspartic acid	Phe	Phenylalanine
Cys	Cysteine	Pro	Proline
Gln	Glutamine	Ser	Serine
Glu	Glutamic acid	Thr	Threonine
Gly	Glycine	Trp	Tryptophan
His	Histidine	Tyr	Tyrosine
Ile	Isoleucine	Val	Valine
Key	Essential amino acids in human nutrition.		
	Essential amino acids only in certain cases in human nutrition.		

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