

## Table of Standard Genetic Code

[www.vaxasoftware.com](http://www.vaxasoftware.com)

### Featured software

Distillation simulator	<a href="http://www.vaxasoftware.com/soft_eduen/sden.html">www.vaxasoftware.com/soft_eduen/sden.html</a>
FunGraph - Graphs of mathematical functions	<a href="http://www.vaxasoftware.com/soft_eduen/fungraph.html">www.vaxasoftware.com/soft_eduen/fungraph.html</a>
Design of distillation columns by McCabe-Thiele method	<a href="http://www.vaxasoftware.com/soft_eduen/mcth.html">www.vaxasoftware.com/soft_eduen/mcth.html</a>
Worksheets Generators for Maths and Chemistry	<a href="http://www.vaxasoftware.com/pc/index.html">www.vaxasoftware.com/pc/index.html</a>
Acid-base equilibrium calculator	<a href="http://www.vaxasoftware.com/soft_eduen/abew.html">www.vaxasoftware.com/soft_eduen/abew.html</a>
Statistics and Probability tools for Windows	<a href="http://www.vaxasoftware.com/soft_eduen/statool.html">www.vaxasoftware.com/soft_eduen/statool.html</a>

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'

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

<b>Key</b>	<b>Nonpolar</b>	<b>Polar</b>	<b>Basic</b>	<b>Acidic</b>
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## Table of standard amino acid abbreviations

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<b>Ala</b>	<b>Alanine</b>	<b>Leu</b>	<b>Leucine</b>
<b>Arg</b>	<b>Arginine</b>	<b>Lys</b>	<b>Lysine</b>
<b>Asn</b>	<b>Asparagine</b>	<b>Met</b>	<b>Methionine</b>
<b>Asp</b>	<b>Aspartic acid</b>	<b>Phe</b>	<b>Phenylalanine</b>
<b>Cys</b>	<b>Cysteine</b>	<b>Pro</b>	<b>Proline</b>
<b>Gln</b>	<b>Glutamine</b>	<b>Ser</b>	<b>Serine</b>
<b>Glu</b>	<b>Glutamic acid</b>	<b>Thr</b>	<b>Threonine</b>
<b>Gly</b>	<b>Glycine</b>	<b>Trp</b>	<b>Tryptophan</b>
<b>His</b>	<b>Histidine</b>	<b>Tyr</b>	<b>Tyrosine</b>
<b>Ile</b>	<b>Isoleucine</b>	<b>Val</b>	<b>Valine</b>

<b>Key</b>	Essential amino acids in human nutrition.
	Essential amino acids only in certain cases in human nutrition.

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