

GENETIC CODE CHART

“DNA-AMINO ACID DICTIONARY”

DNA Codons and the Amino Acids (symbols and abbreviations) for which they code.

DNA codon	AA sym	AA abr
AAA	K	lys
AAC	N	asn
AAG	K	lys
AAT	N	asn
ACA	T	thr
ACC	T	thr
ACG	T	thr
ACT	T	thr
AGA	R	arg
AGC	S	ser
AGG	R	arg
AGT	S	ser
ATA	I	iso
ATC	I	iso
ATG	M	met
ATT	I	iso

DNA codon	AA sym	AA abr
CAA	Q	gln
CAC	H	his
CAG	Q	gln
CAT	H	his
CCA	P	pro
CCC	P	pro
CCG	P	pro
CCT	P	pro
CGA	R	arg
CGC	R	arg
CGG	R	arg
CGT	R	arg
CTA	L	leu
CTC	L	leu
CTG	L	leu
CTT	L	leu

DNA codon	AA sym	AA abr
GAA	E	glu
GAC	D	asp
GAG	E	glu
GAT	D	asp
GCA	A	ala
GCC	A	ala
GCG	A	ala
GCT	A	ala
GGA	G	gly
GGC	G	gly
GGG	G	gly
GGT	G	gly
GTA	V	val
GTC	V	val
GTG	V	val
GTT	V	val

DNA codon	AA sym	AA abr
TAA	-	stop
TAC	Y	tyr
TAG	-	stop
TAT	Y	tyr
TCA	S	ser
TCC	S	ser
TCG	S	ser
TCT	S	ser
TGA	-	stop
TGC	C	cys
TGG	W	trp
TGT	C	cys
TTA	L	leu
TTC	F	phe
TTG	L	leu
TTT	F	phe