

Codon Table (Standard)

		Second							
		U		C		A		G	
F i r s t	U	UUU	Phe(F)	UCU	Ser(S)	UAU	Tyr(Y)	UGU	Cys(C)
		UUC		UCC		UAC		UGC	
		UUA	Leu(L)	UCA		UAA	STOP	UGA	STOP
		UUG		UCG		UAG	STOP	UGG	Trp(W)
	C	CUU		CCU	Pro(P)	CAU	His(H)	CGU	Arg(R)
		CUC		CCC		CAC		CGC	
		CUA	CCA	CAA		Gln(Q)	CGA		
		CUG	CCG	CAG			CGG		
	A	AUU	Ile(I)	ACU	Thr(T)	AAU	Asn(N)	AGU	Ser(S)
		AUC		ACC		AAC		AGC	
		AUA		ACA		AAA	Lys(K)	AGA	Arg(R)
		AUG	Met(M)	ACG		AAG		AGG	
	G	GUU	Val(V)	GCU	Ala(A)	GAU	Asp(D)	GGU	Gly(G)
		GUC		GCC		GAC		GGC	
		GUA		GCA		GAA	Glu(E)	GGA	
		GUG		GCG		GAG		GGG	

Reverse Codon Table

Phe(F)	UUY	Phenylalanine	His(H)	CAY	Histidine
Leu(L)	UUR, CUN	Leucine	Gln(Q)	CAR	Glutamine
Ile(I)	AUY, AUA	Isoleucine	Asn(N)	AAY	Asparagine
Met(M)	AUG	Methionine	Lys(K)	AAR	Lysine
Val(V)	GUN	Valine	Asp(D)	GAY	Aspartic acid
Ser(S)	UCN, AGY	Serine	Glu(E)	GAR	Glutamic acid
Pro(P)	CCN	Proline	Cys(C)	UGY	Cysteine
Thr(T)	ACN	Threonine	Trp(W)	UGG	Tryptophan
Ala(A)	GCN	Alanine	Arg(R)	CGN, AGR	Arginine
Tyr(Y)	UAY	Tyrosine	Gly(G)	GGY	Glycine

STOP	UAR, UGA	Amber (UAG), Ochre (UAA), Opal (UGA)
Asx(B)	AAY, GAY	Aspartic acid (Asp) or Asparagines (Asn)
Glx(Z)	CAR, GAR	Glutamic acid (Glu) or Glutamine (Gln)
fMet	AUG	Formylmethionine
Sec(U)	UAG	Selenocysteine
	UAG	Pyrrolysine