

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	3.7	0.75	UCU	Ser (S)	1.2	0.23	UAU	Tyr (Y)	1.7	0.43	UGU	Cys (C)	0.4	0.43	U
	UUC	Phe (F)	1.2	0.25	UCC	Ser (S)	1.4	0.26	UAC	Tyr (Y)	2.2	0.57	UGC	Cys (C)	0.5	0.57	C
	UUA	Leu (L)	1.4	0.12	UCA	Ser (S)	0.6	0.1	UAA	stop	0.1	0.4	UGA	stop	0.1	0.45	A
	UUG	Leu (L)	2.4	0.21	UCG	Ser (S)	0.3	0.05	UAG	stop	0	0.15	UGG	Trp (W)	1	1	G
C	CUU	Leu (L)	3.2	0.28	CCU	Pro (P)	1	0.24	CAU	His (H)	0.8	0.45	CGU	Arg (R)	0.2	0.04	U
	CUC	Leu (L)	1.6	0.14	CCC	Pro (P)	1.6	0.38	CAC	His (H)	0.9	0.55	CGC	Arg (R)	0.2	0.04	C
	CUA	Leu (L)	1.4	0.12	CCA	Pro (P)	1.2	0.28	CAA	Gln (Q)	1.3	0.5	CGA	Arg (R)	0.1	0.02	A
	CUG	Leu (L)	1.5	0.13	CCG	Pro (P)	0.5	0.11	CAG	Gln (Q)	1.4	0.5	CGG	Arg (R)	0.2	0.04	G
A	AUU	Ile (I)	1.4	0.22	ACU	Thr (T)	0.8	0.19	AAU	Asn (N)	0.9	0.29	AGU	Ser (S)	0.6	0.11	U
	AUC	Ile (I)	1.4	0.22	ACC	Thr (T)	1.8	0.44	AAC	Asn (N)	2.3	0.71	AGC	Ser (S)	1.3	0.25	C
	AUA	Ile (I)	3.7	0.57	ACA	Thr (T)	1	0.24	AAA	Lys (K)	3.2	0.42	AGA	Arg (R)	1.7	0.31	A
	AUG	Met (M)	2	1	ACG	Thr (T)	0.5	0.13	AAG	Lys (K)	4.5	0.58	AGG	Arg (R)	3	0.54	G
G	GUU	Val (V)	2.1	0.27	GCU	Ala (A)	1.2	0.19	GAU	Asp (D)	2.2	0.48	GGU	Gly (G)	2.1	0.3	U
	GUC	Val (V)	1	0.13	GCC	Ala (A)	2.1	0.33	GAC	Asp (D)	2.3	0.52	GGC	Gly (G)	1.8	0.25	C
	GUA	Val (V)	1.7	0.22	GCA	Ala (A)	1.9	0.3	GAA	Glu (E)	4.1	0.48	GGA	Gly (G)	2.3	0.32	A
	GUG	Val (V)	3	0.38	GCG	Ala (A)	1.1	0.18	GAG	Glu (E)	4.5	0.52	GGG	Gly (G)	1	0.14	G
	U				C				A				G				

Table 0.1: Overall codons: 424695, annotation includes stop codon: 1194 / 1194, Inframe stop codon: 2 / 1194