

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	2.6	0.59	UCU	Ser (S)	1.3	0.24	UAU	Tyr (Y)	1.3	0.32	UGU	Cys (C)	0.6	0.68	U
	UUC	Phe (F)	1.8	0.41	UCC	Ser (S)	1.4	0.26	UAC	Tyr (Y)	2.7	0.68	UGC	Cys (C)	0.3	0.32	C
	UUA	Leu (L)	1.1	0.1	UCA	Ser (S)	0.5	0.09	UAA	stop	0.1	0.32	UGA	stop	0.2	0.56	A
	UUG	Leu (L)	1.4	0.13	UCG	Ser (S)	0.4	0.07	UAG	stop	0	0.11	UGG	Trp (W)	1.1	1	G
C	CUU	Leu (L)	2.8	0.25	CCU	Pro (P)	1.8	0.41	CAU	His (H)	0.8	0.4	CGU	Arg (R)	0.6	0.1	U
	CUC	Leu (L)	2.2	0.19	CCC	Pro (P)	1.5	0.34	CAC	His (H)	1.2	0.6	CGC	Arg (R)	0.4	0.06	C
	CUA	Leu (L)	1	0.08	CCA	Pro (P)	0.6	0.14	CAA	Gln (Q)	0.9	0.3	CGA	Arg (R)	0.2	0.03	A
	CUG	Leu (L)	2.8	0.25	CCG	Pro (P)	0.5	0.11	CAG	Gln (Q)	2	0.7	CGG	Arg (R)	0.2	0.03	G
A	AUU	Ile (I)	0.7	0.12	ACU	Thr (T)	0.8	0.19	AAU	Asn (N)	0.7	0.23	AGU	Ser (S)	1.1	0.2	U
	AUC	Ile (I)	1.2	0.2	ACC	Thr (T)	1.7	0.39	AAC	Asn (N)	2.2	0.77	AGC	Ser (S)	0.8	0.14	C
	AUA	Ile (I)	4.2	0.68	ACA	Thr (T)	1.2	0.27	AAA	Lys (K)	2.8	0.43	AGA	Arg (R)	2.5	0.4	A
	AUG	Met (M)	2.3	1	ACG	Thr (T)	0.7	0.15	AAG	Lys (K)	3.8	0.57	AGG	Arg (R)	2.3	0.37	G
G	GUU	Val (V)	1.8	0.21	GCU	Ala (A)	2.1	0.33	GAU	Asp (D)	2.7	0.56	GGU	Gly (G)	3.4	0.46	U
	GUC	Val (V)	0.9	0.1	GCC	Ala (A)	2.2	0.35	GAC	Asp (D)	2.1	0.44	GGC	Gly (G)	0.9	0.13	C
	GUA	Val (V)	2.3	0.26	GCA	Ala (A)	1.2	0.19	GAA	Glu (E)	3.4	0.43	GGA	Gly (G)	2.1	0.29	A
	GUG	Val (V)	3.7	0.43	GCG	Ala (A)	0.8	0.13	GAG	Glu (E)	4.5	0.57	GGG	Gly (G)	0.9	0.12	G
	U				C				A				G				

Table 0.1: Overall codons: 414992, annotation includes stop codon: 1145 / 1145, Inframe stop codon: 0 / 1145