

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	4.3	0.86	UCU	Ser (S)	2	0.36	UAU	Tyr (Y)	2	0.45	UGU	Cys (C)	0.6	0.82	U
	UUC	Phe (F)	0.7	0.14	UCC	Ser (S)	0.4	0.07	UAC	Tyr (Y)	2.5	0.55	UGC	Cys (C)	0.1	0.18	C
	UUA	Leu (L)	4.4	0.45	UCA	Ser (S)	1.4	0.26	UAA	stop	0.2	0.61	UGA	stop	0.1	0.23	A
	UUG	Leu (L)	0.7	0.07	UCG	Ser (S)	0.1	0.02	UAG	stop	0	0.16	UGG	Trp (W)	0.8	1	G
C	CUU	Leu (L)	2.7	0.28	CCU	Pro (P)	1.7	0.47	CAU	His (H)	0.8	0.55	CGU	Arg (R)	0.1	0.02	U
	CUC	Leu (L)	0.4	0.04	CCC	Pro (P)	0.3	0.07	CAC	His (H)	0.6	0.45	CGC	Arg (R)	0	0.01	C
	CUA	Leu (L)	1.2	0.12	CCA	Pro (P)	1.5	0.4	CAA	Gln (Q)	1.9	0.68	CGA	Arg (R)	0.1	0.01	A
	CUG	Leu (L)	0.4	0.04	CCG	Pro (P)	0.2	0.06	CAG	Gln (Q)	0.9	0.32	CGG	Arg (R)	0	0.01	G
A	AUU	Ile (I)	2.4	0.27	ACU	Thr (T)	1.5	0.32	AAU	Asn (N)	2.3	0.47	AGU	Ser (S)	1.2	0.22	U
	AUC	Ile (I)	0.9	0.1	ACC	Thr (T)	0.5	0.11	AAC	Asn (N)	2.6	0.53	AGC	Ser (S)	0.4	0.06	C
	AUA	Ile (I)	5.7	0.63	ACA	Thr (T)	2.3	0.51	AAA	Lys (K)	7.7	0.78	AGA	Arg (R)	2.6	0.72	A
	AUG	Met (M)	1.8	1	ACG	Thr (T)	0.3	0.06	AAG	Lys (K)	2.2	0.22	AGG	Arg (R)	0.8	0.22	G
G	GUU	Val (V)	3.1	0.43	GCU	Ala (A)	2.2	0.41	GAU	Asp (D)	3.6	0.67	GGU	Gly (G)	2	0.34	U
	GUC	Val (V)	0.4	0.06	GCC	Ala (A)	0.6	0.1	GAC	Asp (D)	1.8	0.33	GGC	Gly (G)	0.4	0.06	C
	GUA	Val (V)	3.1	0.43	GCA	Ala (A)	2.4	0.45	GAA	Glu (E)	5.5	0.71	GGA	Gly (G)	3.1	0.52	A
	GUG	Val (V)	0.5	0.07	GCG	Ala (A)	0.2	0.03	GAG	Glu (E)	2.3	0.29	GGG	Gly (G)	0.5	0.08	G
	U				C				A				G				

Table 0.1: Overall codons: 476489, annotation includes stop codon: 1427 / 1427, Inframe stop codon: 1 / 1427