

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	4.5	0.88	UCU	Ser (S)	2.3	0.36	UAU	Tyr (Y)	2.8	0.61	UGU	Cys (C)	0.5	0.59	U
	UUC	Phe (F)	0.6	0.12	UCC	Ser (S)	0.5	0.08	UAC	Tyr (Y)	1.8	0.39	UGC	Cys (C)	0.4	0.41	C
	UUA	Leu (L)	2.8	0.29	UCA	Ser (S)	1.2	0.2	UAA	stop	0.1	0.5	UGA	stop	0.1	0.35	A
	UUG	Leu (L)	1.6	0.16	UCG	Ser (S)	0.3	0.04	UAG	stop	0	0.15	UGG	Trp (W)	0.8	1	G
C	CUU	Leu (L)	3.3	0.35	CCU	Pro (P)	1.3	0.35	CAU	His (H)	1.1	0.66	CGU	Arg (R)	0.2	0.06	U
	CUC	Leu (L)	0.4	0.04	CCC	Pro (P)	0.4	0.11	CAC	His (H)	0.6	0.34	CGC	Arg (R)	0.1	0.03	C
	CUA	Leu (L)	1.3	0.13	CCA	Pro (P)	1.7	0.45	CAA	Gln (Q)	2	0.78	CGA	Arg (R)	0.1	0.02	A
	CUG	Leu (L)	0.3	0.03	CCG	Pro (P)	0.3	0.08	CAG	Gln (Q)	0.6	0.22	CGG	Arg (R)	0	0.01	G
A	AUU	Ile (I)	1.6	0.18	ACU	Thr (T)	1.2	0.26	AAU	Asn (N)	2.3	0.46	AGU	Ser (S)	0.8	0.13	U
	AUC	Ile (I)	0.9	0.09	ACC	Thr (T)	1	0.23	AAC	Asn (N)	2.7	0.54	AGC	Ser (S)	1.2	0.18	C
	AUA	Ile (I)	6.7	0.73	ACA	Thr (T)	1.8	0.4	AAA	Lys (K)	7	0.77	AGA	Arg (R)	2.1	0.62	A
	AUG	Met (M)	2.2	1	ACG	Thr (T)	0.6	0.12	AAG	Lys (K)	2.1	0.23	AGG	Arg (R)	0.9	0.26	G
G	GUU	Val (V)	1.8	0.28	GCU	Ala (A)	2.9	0.47	GAU	Asp (D)	4.1	0.77	GGU	Gly (G)	2.7	0.43	U
	GUC	Val (V)	0.3	0.05	GCC	Ala (A)	1.2	0.2	GAC	Asp (D)	1.2	0.23	GGC	Gly (G)	1.1	0.18	C
	GUA	Val (V)	2.9	0.45	GCA	Ala (A)	1.6	0.26	GAA	Glu (E)	4.6	0.67	GGA	Gly (G)	1.6	0.26	A
	GUG	Val (V)	1.4	0.22	GCG	Ala (A)	0.4	0.07	GAG	Glu (E)	2.3	0.33	GGG	Gly (G)	0.8	0.13	G
	U				C				A				G				

Table 0.1: Overall codons: 453969, annotation includes stop codon: 1340 / 1340, Inframe stop codon: 0 / 1340