

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	3.4	0.69	UCU	Ser (S)	1.3	0.23	UAU	Tyr (Y)	2	0.47	UGU	Cys (C)	0.6	0.76	U
	UUC	Phe (F)	1.6	0.31	UCC	Ser (S)	0.6	0.1	UAC	Tyr (Y)	2.2	0.53	UGC	Cys (C)	0.2	0.24	C
	UUA	Leu (L)	1.7	0.18	UCA	Ser (S)	2.2	0.38	UAA	stop	0.1	0.51	UGA	stop	0.1	0.28	A
	UUG	Leu (L)	0.3	0.04	UCG	Ser (S)	0.2	0.03	UAG	stop	0.1	0.21	UGG	Trp (W)	0.8	1	G
C	CUU	Leu (L)	4.3	0.46	CCU	Pro (P)	2	0.52	CAU	His (H)	1	0.64	CGU	Arg (R)	0.1	0.02	U
	CUC	Leu (L)	1	0.11	CCC	Pro (P)	0.3	0.08	CAC	His (H)	0.6	0.36	CGC	Arg (R)	0	0.01	C
	CUA	Leu (L)	0.7	0.07	CCA	Pro (P)	1.2	0.31	CAA	Gln (Q)	0.2	0.1	CGA	Arg (R)	0	0.01	A
	CUG	Leu (L)	1.3	0.14	CCG	Pro (P)	0.3	0.09	CAG	Gln (Q)	2.1	0.9	CGG	Arg (R)	0	0.01	G
A	AUU	Ile (I)	1.9	0.2	ACU	Thr (T)	0.8	0.18	AAU	Asn (N)	2.3	0.55	AGU	Ser (S)	0.9	0.16	U
	AUC	Ile (I)	1.3	0.14	ACC	Thr (T)	0.4	0.09	AAC	Asn (N)	1.9	0.45	AGC	Ser (S)	0.6	0.1	C
	AUA	Ile (I)	6.1	0.66	ACA	Thr (T)	3	0.65	AAA	Lys (K)	5.3	0.6	AGA	Arg (R)	3	0.63	A
	AUG	Met (M)	1.9	1	ACG	Thr (T)	0.4	0.09	AAG	Lys (K)	3.6	0.4	AGG	Arg (R)	1.6	0.33	G
G	GUU	Val (V)	3.9	0.58	GCU	Ala (A)	2.3	0.4	GAU	Asp (D)	4.4	0.77	GGU	Gly (G)	2.5	0.39	U
	GUC	Val (V)	0.6	0.08	GCC	Ala (A)	0.7	0.13	GAC	Asp (D)	1.3	0.23	GGC	Gly (G)	0.5	0.07	C
	GUA	Val (V)	1.8	0.26	GCA	Ala (A)	2.2	0.4	GAA	Glu (E)	3.7	0.46	GGA	Gly (G)	2.8	0.42	A
	GUG	Val (V)	0.6	0.08	GCG	Ala (A)	0.4	0.07	GAG	Glu (E)	4.3	0.54	GGG	Gly (G)	0.8	0.12	G
	U				C				A				G				

Table 0.1: Overall codons: 564686, annotation includes stop codon: 1593 / 1594, Inframe stop codon: 1 / 1594