

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	4.3	0.85	UCU	Ser (S)	1.8	0.33	UAU	Tyr (Y)	3	0.67	UGU	Cys (C)	0.5	0.69	U
	UUC	Phe (F)	0.7	0.15	UCC	Ser (S)	0.3	0.06	UAC	Tyr (Y)	1.4	0.33	UGC	Cys (C)	0.2	0.31	C
	UUA	Leu (L)	4.4	0.45	UCA	Ser (S)	1.5	0.28	UAA	stop	0.2	0.56	UGA	stop	0.1	0.29	A
	UUG	Leu (L)	1.1	0.12	UCG	Ser (S)	0.2	0.04	UAG	stop	0	0.15	UGG	Trp (W)	0.8	1	G
C	CUU	Leu (L)	2.7	0.27	CCU	Pro (P)	1	0.28	CAU	His (H)	1.1	0.76	CGU	Arg (R)	0.1	0.02	U
	CUC	Leu (L)	0.2	0.03	CCC	Pro (P)	0.2	0.05	CAC	His (H)	0.3	0.24	CGC	Arg (R)	0	0.01	C
	CUA	Leu (L)	0.9	0.1	CCA	Pro (P)	1.9	0.52	CAA	Gln (Q)	1.8	0.7	CGA	Arg (R)	0	0.01	A
	CUG	Leu (L)	0.4	0.04	CCG	Pro (P)	0.6	0.16	CAG	Gln (Q)	0.8	0.3	CGG	Arg (R)	0	0.01	G
A	AUU	Ile (I)	3.6	0.39	ACU	Thr (T)	1.2	0.27	AAU	Asn (N)	3.3	0.64	AGU	Ser (S)	0.9	0.16	U
	AUC	Ile (I)	1.4	0.15	ACC	Thr (T)	0.5	0.11	AAC	Asn (N)	1.9	0.36	AGC	Ser (S)	0.8	0.14	C
	AUA	Ile (I)	4.3	0.46	ACA	Thr (T)	2.4	0.55	AAA	Lys (K)	7.8	0.79	AGA	Arg (R)	2.9	0.81	A
	AUG	Met (M)	1.9	1	ACG	Thr (T)	0.4	0.08	AAG	Lys (K)	2	0.21	AGG	Arg (R)	0.5	0.14	G
G	GUU	Val (V)	3.1	0.48	GCU	Ala (A)	2	0.35	GAU	Asp (D)	3.9	0.73	GGU	Gly (G)	1.9	0.32	U
	GUC	Val (V)	0.4	0.07	GCC	Ala (A)	0.5	0.09	GAC	Asp (D)	1.4	0.27	GGC	Gly (G)	0.8	0.13	C
	GUA	Val (V)	2.4	0.38	GCA	Ala (A)	2.8	0.5	GAA	Glu (E)	6	0.76	GGA	Gly (G)	2.9	0.48	A
	GUG	Val (V)	0.5	0.07	GCG	Ala (A)	0.3	0.05	GAG	Glu (E)	1.9	0.24	GGG	Gly (G)	0.4	0.07	G
	U				C				A				G				

Table 0.1: Overall codons: 500684, annotation includes stop codon: 1532 / 1532, Inframe stop codon: 0 / 1532