

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	3.6	0.76	UCU	Ser (S)	1.3	0.23	UAU	Tyr (Y)	1.7	0.4	UGU	Cys (C)	0.4	0.43	U
	UUC	Phe (F)	1.1	0.24	UCC	Ser (S)	1.2	0.2	UAC	Tyr (Y)	2.5	0.6	UGC	Cys (C)	0.6	0.57	C
	UUA	Leu (L)	1.2	0.11	UCA	Ser (S)	0.8	0.13	UAA	stop	0.1	0.39	UGA	stop	0.1	0.45	A
	UUG	Leu (L)	1.2	0.11	UCG	Ser (S)	0.3	0.05	UAG	stop	0	0.15	UGG	Trp (W)	1	1	G
C	CUU	Leu (L)	3.9	0.36	CCU	Pro (P)	1.5	0.36	CAU	His (H)	0.8	0.43	CGU	Arg (R)	0.1	0.03	U
	CUC	Leu (L)	1.8	0.16	CCC	Pro (P)	1.3	0.31	CAC	His (H)	1	0.57	CGC	Arg (R)	0.2	0.04	C
	CUA	Leu (L)	1	0.09	CCA	Pro (P)	1	0.23	CAA	Gln (Q)	0.9	0.35	CGA	Arg (R)	0.1	0.01	A
	CUG	Leu (L)	1.8	0.17	CCG	Pro (P)	0.4	0.09	CAG	Gln (Q)	1.7	0.65	CGG	Arg (R)	0.1	0.02	G
A	AUU	Ile (I)	1.2	0.17	ACU	Thr (T)	1	0.25	AAU	Asn (N)	1.2	0.39	AGU	Ser (S)	0.8	0.13	U
	AUC	Ile (I)	1	0.14	ACC	Thr (T)	1.4	0.32	AAC	Asn (N)	1.9	0.61	AGC	Ser (S)	1.5	0.25	C
	AUA	Ile (I)	4.9	0.7	ACA	Thr (T)	1.2	0.29	AAA	Lys (K)	3.5	0.46	AGA	Arg (R)	2.5	0.46	A
	AUG	Met (M)	2.2	1	ACG	Thr (T)	0.6	0.14	AAG	Lys (K)	4.1	0.54	AGG	Arg (R)	2.3	0.44	G
G	GUU	Val (V)	1.9	0.25	GCU	Ala (A)	2.1	0.34	GAU	Asp (D)	2.5	0.51	GGU	Gly (G)	2.5	0.35	U
	GUC	Val (V)	0.9	0.11	GCC	Ala (A)	1.5	0.23	GAC	Asp (D)	2.3	0.49	GGC	Gly (G)	1.6	0.22	C
	GUA	Val (V)	2.2	0.28	GCA	Ala (A)	1.8	0.29	GAA	Glu (E)	3.5	0.44	GGA	Gly (G)	2.1	0.3	A
	GUG	Val (V)	2.8	0.36	GCG	Ala (A)	0.9	0.14	GAG	Glu (E)	4.4	0.56	GGG	Gly (G)	1	0.14	G
	U				C				A				G				

Table 0.1: Overall codons: 485626, annotation includes stop codon: 1362 / 1362, Inframe stop codon: 0 / 1362