

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	2.4	0.49	UCU	Ser (S)	1	0.18	UAU	Tyr (Y)	1.3	0.34	UGU	Cys (C)	0.4	0.48	U
	UUC	Phe (F)	2.5	0.51	UCC	Ser (S)	1.4	0.25	UAC	Tyr (Y)	2.5	0.66	UGC	Cys (C)	0.4	0.52	C
	UUA	Leu (L)	1.4	0.13	UCA	Ser (S)	1	0.17	UAA	stop	0.1	0.4	UGA	stop	0.2	0.41	A
	UUG	Leu (L)	0.7	0.06	UCG	Ser (S)	0.4	0.07	UAG	stop	0.1	0.19	UGG	Trp (W)	0.9	1	G
C	CUU	Leu (L)	2.7	0.26	CCU	Pro (P)	1.1	0.28	CAU	His (H)	0.5	0.31	CGU	Arg (R)	0.2	0.04	U
	CUC	Leu (L)	3.1	0.29	CCC	Pro (P)	1.6	0.39	CAC	His (H)	1.1	0.69	CGC	Arg (R)	0.3	0.05	C
	CUA	Leu (L)	0.7	0.07	CCA	Pro (P)	0.7	0.17	CAA	Gln (Q)	0.5	0.24	CGA	Arg (R)	0.1	0.02	A
	CUG	Leu (L)	2	0.19	CCG	Pro (P)	0.6	0.15	CAG	Gln (Q)	1.6	0.76	CGG	Arg (R)	0.2	0.03	G
A	AUU	Ile (I)	1.3	0.19	ACU	Thr (T)	0.8	0.17	AAU	Asn (N)	1.3	0.36	AGU	Ser (S)	0.6	0.11	U
	AUC	Ile (I)	0.8	0.11	ACC	Thr (T)	1.6	0.37	AAC	Asn (N)	2.4	0.64	AGC	Ser (S)	1.2	0.22	C
	AUA	Ile (I)	4.8	0.7	ACA	Thr (T)	1.2	0.26	AAA	Lys (K)	3.3	0.43	AGA	Arg (R)	1.8	0.33	A
	AUG	Met (M)	2	1	ACG	Thr (T)	0.9	0.2	AAG	Lys (K)	4.4	0.57	AGG	Arg (R)	3	0.54	G
G	GUU	Val (V)	2.7	0.34	GCU	Ala (A)	1.8	0.3	GAU	Asp (D)	2	0.4	GGU	Gly (G)	1.9	0.27	U
	GUC	Val (V)	1.6	0.2	GCC	Ala (A)	1.8	0.29	GAC	Asp (D)	2.9	0.6	GGC	Gly (G)	1.4	0.2	C
	GUA	Val (V)	1.6	0.2	GCA	Ala (A)	1.5	0.24	GAA	Glu (E)	3.4	0.39	GGA	Gly (G)	2.4	0.34	A
	GUG	Val (V)	2.1	0.26	GCG	Ala (A)	1	0.17	GAG	Glu (E)	5.2	0.61	GGG	Gly (G)	1.3	0.19	G
	U				C				A				G				

Table 0.1: Overall codons: 728659, annotation includes stop codon: 2317 / 2327, Inframe stop codon: 389 / 2327