

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	2.9	0.56	UCU	Ser (S)	0.9	0.18	UAU	Tyr (Y)	0.8	0.18	UGU	Cys (C)	0.4	0.49	U
	UUC	Phe (F)	2.3	0.44	UCC	Ser (S)	1.3	0.27	UAC	Tyr (Y)	3.4	0.82	UGC	Cys (C)	0.4	0.51	C
	UUA	Leu (L)	1.7	0.16	UCA	Ser (S)	0.7	0.15	UAA	stop	0.1	0.49	UGA	stop	0.1	0.37	A
	UUG	Leu (L)	0.8	0.08	UCG	Ser (S)	0.4	0.07	UAG	stop	0	0.14	UGG	Trp (W)	0.9	1	G
C	CUU	Leu (L)	2.7	0.25	CCU	Pro (P)	1.1	0.26	CAU	His (H)	0.3	0.16	CGU	Arg (R)	0.2	0.03	U
	CUC	Leu (L)	3.1	0.3	CCC	Pro (P)	1.8	0.42	CAC	His (H)	1.3	0.84	CGC	Arg (R)	0.1	0.03	C
	CUA	Leu (L)	0.8	0.07	CCA	Pro (P)	0.6	0.14	CAA	Gln (Q)	0.7	0.35	CGA	Arg (R)	0.1	0.01	A
	CUG	Leu (L)	1.4	0.14	CCG	Pro (P)	0.7	0.18	CAG	Gln (Q)	1.3	0.65	CGG	Arg (R)	0.1	0.02	G
A	AUU	Ile (I)	1.7	0.23	ACU	Thr (T)	1	0.23	AAU	Asn (N)	1.1	0.3	AGU	Ser (S)	0.8	0.16	U
	AUC	Ile (I)	1	0.13	ACC	Thr (T)	1.2	0.27	AAC	Asn (N)	2.5	0.7	AGC	Ser (S)	0.8	0.17	C
	AUA	Ile (I)	4.6	0.63	ACA	Thr (T)	0.9	0.21	AAA	Lys (K)	4.4	0.48	AGA	Arg (R)	1.9	0.38	A
	AUG	Met (M)	1.8	1	ACG	Thr (T)	1.2	0.29	AAG	Lys (K)	4.8	0.52	AGG	Arg (R)	2.6	0.53	G
G	GUU	Val (V)	3	0.38	GCU	Ala (A)	1.6	0.26	GAU	Asp (D)	1.6	0.37	GGU	Gly (G)	1.6	0.23	U
	GUC	Val (V)	0.9	0.11	GCC	Ala (A)	1.3	0.21	GAC	Asp (D)	2.7	0.63	GGC	Gly (G)	0.9	0.12	C
	GUA	Val (V)	2.5	0.32	GCA	Ala (A)	1.7	0.29	GAA	Glu (E)	6.2	0.65	GGA	Gly (G)	3.4	0.5	A
	GUG	Val (V)	1.5	0.19	GCG	Ala (A)	1.4	0.24	GAG	Glu (E)	3.3	0.35	GGG	Gly (G)	1	0.15	G
	U				C				A				G				

Table 0.1: Overall codons: 431072, annotation includes stop codon: 1255 / 1255, Inframe stop codon: 0 / 1255