

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	4.1	0.8	UCU	Ser (S)	2	0.35	UAU	Tyr (Y)	2.1	0.59	UGU	Cys (C)	0.7	0.73	U
	UUC	Phe (F)	1	0.2	UCC	Ser (S)	0.5	0.09	UAC	Tyr (Y)	1.5	0.41	UGC	Cys (C)	0.3	0.27	C
	UUA	Leu (L)	2.6	0.26	UCA	Ser (S)	1.3	0.23	UAA	stop	0.2	0.57	UGA	stop	0.1	0.23	A
	UUG	Leu (L)	0.8	0.08	UCG	Ser (S)	0.2	0.04	UAG	stop	0.1	0.2	UGG	Trp (W)	0.8	1	G
C	CUU	Leu (L)	4.3	0.43	CCU	Pro (P)	1.9	0.48	CAU	His (H)	0.9	0.58	CGU	Arg (R)	0.2	0.05	U
	CUC	Leu (L)	1	0.1	CCC	Pro (P)	0.4	0.09	CAC	His (H)	0.6	0.42	CGC	Arg (R)	0.1	0.02	C
	CUA	Leu (L)	1	0.1	CCA	Pro (P)	1.4	0.35	CAA	Gln (Q)	1.3	0.61	CGA	Arg (R)	0.2	0.04	A
	CUG	Leu (L)	0.4	0.04	CCG	Pro (P)	0.3	0.08	CAG	Gln (Q)	0.8	0.39	CGG	Arg (R)	0.1	0.02	G
A	AUU	Ile (I)	3.8	0.46	ACU	Thr (T)	1.7	0.37	AAU	Asn (N)	2.4	0.59	AGU	Ser (S)	1.1	0.19	U
	AUC	Ile (I)	1	0.12	ACC	Thr (T)	0.5	0.11	AAC	Asn (N)	1.6	0.41	AGC	Ser (S)	0.6	0.1	C
	AUA	Ile (I)	3.5	0.42	ACA	Thr (T)	2	0.43	AAA	Lys (K)	6.7	0.68	AGA	Arg (R)	3.1	0.68	A
	AUG	Met (M)	1.7	1	ACG	Thr (T)	0.4	0.08	AAG	Lys (K)	3.2	0.32	AGG	Arg (R)	0.9	0.19	G
G	GUU	Val (V)	4	0.55	GCU	Ala (A)	2.7	0.45	GAU	Asp (D)	3.2	0.72	GGU	Gly (G)	1.9	0.29	U
	GUC	Val (V)	0.6	0.08	GCC	Ala (A)	0.6	0.09	GAC	Asp (D)	1.3	0.28	GGC	Gly (G)	0.5	0.07	C
	GUA	Val (V)	2.3	0.31	GCA	Ala (A)	2.4	0.4	GAA	Glu (E)	6.5	0.77	GGA	Gly (G)	3.8	0.57	A
	GUG	Val (V)	0.5	0.06	GCG	Ala (A)	0.3	0.05	GAG	Glu (E)	2	0.23	GGG	Gly (G)	0.5	0.07	G
	U				C				A				G				

Table 0.1: Overall codons: 461272, annotation includes stop codon: 1382 / 1383, Inframe stop codon: 83 / 1383