

		Second Base of Codon								
		U		C		A		G		
First Base of Codon	U	UUU	Phenylalanine (F)	UCU	Serine (S)	<i>UAU</i>	Tyrosine (Y)	<i>UGU</i>	Cysteine (C)	U
		UUC		UCC		<i>UAC</i>		<i>UGC</i>		C
		<i>UUA</i>	Leucine (L)	<i>UCA</i>		<i>UAA</i>	STOP	<i>UGA</i>	STOP	A
		<i>UUG</i>		<i>UCG</i>		<i>UAG</i>		<i>UGG</i>		Tryptophan (W)
	C	CUU	Leucine (L)	CCU	Proline (P)	CAU	Histidine (H)	CGU	Arginine (R)	U
		CUC		CCC		CAC		CGC		C
		CUA		CCA		<i>CAA</i>	Glutamine (Q)	<i>CGA</i>		A
		CUG		CCG		<i>CAG</i>		CGG		G
	A	AUU	Isoleucine (I)	ACU	Threonine (T)	AAU	Asparagine (N)	AGU	Serine (S)	U
		AUC		ACC		AAC		AGC		C
		AUA		ACA		<i>AAA</i>	Lysine (K)	<i>AGA</i>	Arginine (R)	A
		AUG	Methionine (M)	ACG		<i>AAG</i>		AGG		G
	G	GUU	Valine (V)	GCU	Alanine (A)	GAU	Aspartic Acid (D)	GGU	Glycine (G)	U
		GUC		GCC		GAC		GGC		C
		GUA		GCA		<i>GAA</i>	Glutamic Acid (E)	<i>GGA</i>		A
		GUG		GCG		<i>GAG</i>		GGG		G
								Third Base of Codon		

**Supplementary Figure 1.** Codon usage table with one-to-stop (OTS) codons. Stop codons are highlighted in red and OTS codons are indicated with bold italicized letters.