

Table 2. Universal Genetic Code and its method of conversion to numerical codons

		Second letter				
		U (1)	C (2)	A (3)	G (4)	
First letter	U (1)	UUU } 1 1 1 } Phe UUC } F 1 1 2 } UUA } 1 1 3 } Leu UUG } L 1 1 4 }	UCU } 1 2 1 } UCC } Ser 1 2 2 } S UCA } 1 2 3 } UCG } 1 2 4 }	UAU } 1 3 1 } Tyr UAC } Y 1 3 2 } UAA } STOP 1 3 3 } Ochre UAG } STOP 1 3 4 } Amber	UGU } 1 4 1 } Cys UGC } C 1 4 2 } UGA } STOP 1 4 3 } Opal UGG } Trp 1 4 4 } W	U (1) C (2) A (3) G (4)
	C (2)	CUU } 2 1 1 } CUC } Leu 2 1 2 } L CUA } 2 1 3 } CUG } 2 1 4 }	CCU } 2 2 1 } CCC } Pro 2 2 2 } P CCA } 2 2 3 } CCG } 2 2 4 }	CAU } 2 3 1 } His CAC } H 2 3 2 } CAA } 2 3 3 } Gln CAG } Q 2 3 4 }	CGU } 2 4 1 } CGC } Arg 2 4 2 } R CGA } 2 4 3 } CGG } 2 4 4 }	U (1) C (2) A (3) G (4)
	A (3)	AUU } 3 1 1 } AUC } Ile 3 1 2 } I AUA } 3 1 3 } AUG } Met 3 1 4 } M	ACU } 3 2 1 } ACC } Thr 3 2 2 } T ACA } 3 2 3 } ACG } 3 2 4 }	AAU } 3 3 1 } Asn AAC } N 3 3 2 } AAA } 3 3 3 } Lys AAG } K 3 3 4 }	AGU } 3 4 1 } Ser AGC } S 3 4 2 } AGA } 3 4 3 } Arg AGG } R 3 4 4 }	U (1) C (2) A (3) G (4)
	G (4)	GUU } 4 1 1 } GUC } Val 4 1 2 } V GUA } 4 1 3 } GUG } 4 1 4 }	GCU } 4 2 1 } GCC } Ala 4 2 2 } A GCA } 4 2 3 } GCG } 4 2 4 }	GAU } 4 3 1 } Asp GAC } D 4 3 2 } GAA } 4 3 3 } Glu GAG } E 4 3 4 }	GGU } 4 4 1 } GGC } Gly 4 4 2 } G GGA } 4 4 3 } GGG } 4 4 4 }	U (1) C (2) A (3) G (4)