

The Genetic Code

| First base in triplet | Second base in triplet | | | | Third base in triplet |
|-----------------------|------------------------|----------|-----------|-----------|-----------------------|
| | Uracil | Cytosine | Adenine | Guanine | |
| Uracil | UUU phe | UCU ser | UAU tyr | UGU cys | Uracil |
| | UUC | UCC | UAC | UGC | Cytosine |
| | UUA leu | UCA | UAA** End | UGA** End | Adenine |
| | UUG | UCG | UAG** End | UGG trp | Guanine |
| Cytosine | CUU leu | CCU pro | CAU his | CGU arg | Uracil |
| | CUC | CCC | CAC | CGC | Cytosine |
| | CUA | CCA | CAA gln | CGA | Adenine |
| | CUG | CCG | CAG | CGG | Guanine |
| Adenine | AUU ileu | ACU thr | AAU asn | AGU ser | Uracil |
| | AUC | ACC | AAC | AGC | Cytosine |
| | AUA | ACA | AAA lys | AGA arg | Adenine |
| | AUG* met Initiation | ACG | AAG | AGG | Guanine |
| Guanine | GUU val | GCU ala | GAU asp | GGU gly | Uracil |
| | GUC | GCC | GAC | GGC | Cytosine |
| | GUA | GCA | GAA glu | GGA | Adenine |
| | GUG* | GCG | GAG | GGG | Guanine |

*chain initiator

**chain terminator