Use the following table of messenger RNA genetic codes to show the corresponding Amino Acid sequence of a polypeptide chain.

This table shows the 64 codons and the amino acid each codon codes for. The direction of the mRNA is [5' to 3'](file:///E%3A%5Cwiki%5CDirectionality_%28molecular_biology%29).

|  |  |  |
| --- | --- | --- |
|  **1stbase** | **2nd base** | **3rd base** |
| **U** | **C** | **A** | G |
|  | **U** | UUU [Phenylalanine](file:///E%3A%5Cwiki%5CPhenylalanine)UUC PhenylalanineUUA [Leucine](file:///E%3A%5Cwiki%5CLeucine)UUG Leucine | UCU [Serine](file:///E%3A%5Cwiki%5CSerine)UCC SerineUCA SerineUCG Serine | UAU [Tyrosine](file:///E%3A%5Cwiki%5CTyrosine)UAC TyrosineUAA (*Stop*)UAG (*Stop*) | UGU [Cysteine](file:///E%3A%5Cwiki%5CCysteine)UGC CysteineUGA (*Stop*)UGG [Tryptophan](file:///E%3A%5Cwiki%5CTryptophan) | U |
| C |
| A |
| G |
| **C** | CUU LeucineCUC LeucineCUA LeucineCUG Leucine | CCU [Proline](file:///E%3A%5Cwiki%5CProline)CCC ProlineCCA ProlineCCG Proline | CAU [Histidine](file:///E%3A%5Cwiki%5CHistidine)CAC HistidineCAA [Glutamine](file:///E%3A%5Cwiki%5CGlutamine)CAG Glutamine | CGU [Arginine](file:///E%3A%5Cwiki%5CArginine)CGC ArginineCGA ArginineCGG Arginine | U |
| C |
| A |
| G |
| **A** | AUU [Isoleucine](file:///E%3A%5Cwiki%5CIsoleucine)AUC IsoleucineAUA IsoleucineAUG [Methionine](file:///E%3A%5Cwiki%5CMethionine) | ACU [Threonine](file:///E%3A%5Cwiki%5CThreonine)ACC ThreonineACA ThreonineACG Threonine | AAU [Asparagine](file:///E%3A%5Cwiki%5CAsparagine)AAC AsparagineAAA [Lysine](file:///E%3A%5Cwiki%5CLysine)AAG Lysine | AGU SerineAGC SerineAGA ArginineAGG Arginine | U |
| C |
| A |
| G |
| **G** | GUU [Valine](file:///E%3A%5Cwiki%5CValine)GUC ValineGUA ValineGUG Valine | GCU [Alanine](file:///E%3A%5Cwiki%5CAlanine)GCC AlanineGCA AlanineGCG Alanine | GAU [Aspartic acid](file:///E%3A%5Cwiki%5CAspartic_acid)GAC Aspartic acidGAA [Glutamic acid](file:///E%3A%5Cwiki%5CGlutamic_acid)GAG Glutamic acid | GGU [Glycine](file:///E%3A%5Cwiki%5CGlycine)GGC GlycineGGA GlycineGGG Glycine | U |
| C |
| A |
| G |