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:\wiki\Directionality_(molecular_biology)).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1st base** | | **2nd base** | | | | **3rd base** |
| **U** | **C** | **A** | G |
|  | **U** | UUU [Phenylalanine](file:///E:\wiki\Phenylalanine) UUC Phenylalanine UUA [Leucine](file:///E:\wiki\Leucine) UUG Leucine | UCU [Serine](file:///E:\wiki\Serine) UCC Serine UCA Serine UCG Serine | UAU [Tyrosine](file:///E:\wiki\Tyrosine) UAC Tyrosine UAA (*Stop*) UAG (*Stop*) | UGU [Cysteine](file:///E:\wiki\Cysteine) UGC Cysteine UGA (*Stop*) UGG [Tryptophan](file:///E:\wiki\Tryptophan) | U |
| C |
| A |
| G |
| **C** | CUU Leucine CUC Leucine CUA Leucine CUG Leucine | CCU [Proline](file:///E:\wiki\Proline) CCC Proline CCA Proline CCG Proline | CAU [Histidine](file:///E:\wiki\Histidine) CAC Histidine CAA [Glutamine](file:///E:\wiki\Glutamine) CAG Glutamine | CGU [Arginine](file:///E:\wiki\Arginine) CGC Arginine CGA Arginine CGG Arginine | U |
| C |
| A |
| G |
| **A** | AUU [Isoleucine](file:///E:\wiki\Isoleucine) AUC Isoleucine AUA Isoleucine AUG [Methionine](file:///E:\wiki\Methionine) | ACU [Threonine](file:///E:\wiki\Threonine) ACC Threonine ACA Threonine ACG Threonine | AAU [Asparagine](file:///E:\wiki\Asparagine) AAC Asparagine AAA [Lysine](file:///E:\wiki\Lysine) AAG Lysine | AGU Serine AGC Serine AGA Arginine AGG Arginine | U |
| C |
| A |
| G |
| **G** | GUU [Valine](file:///E:\wiki\Valine) GUC Valine GUA Valine GUG Valine | GCU [Alanine](file:///E:\wiki\Alanine) GCC Alanine GCA Alanine GCG Alanine | GAU [Aspartic acid](file:///E:\wiki\Aspartic_acid) GAC Aspartic acid GAA [Glutamic acid](file:///E:\wiki\Glutamic_acid) GAG Glutamic acid | GGU [Glycine](file:///E:\wiki\Glycine) GGC Glycine GGA Glycine GGG Glycine | U |
| C |
| A |
| G |