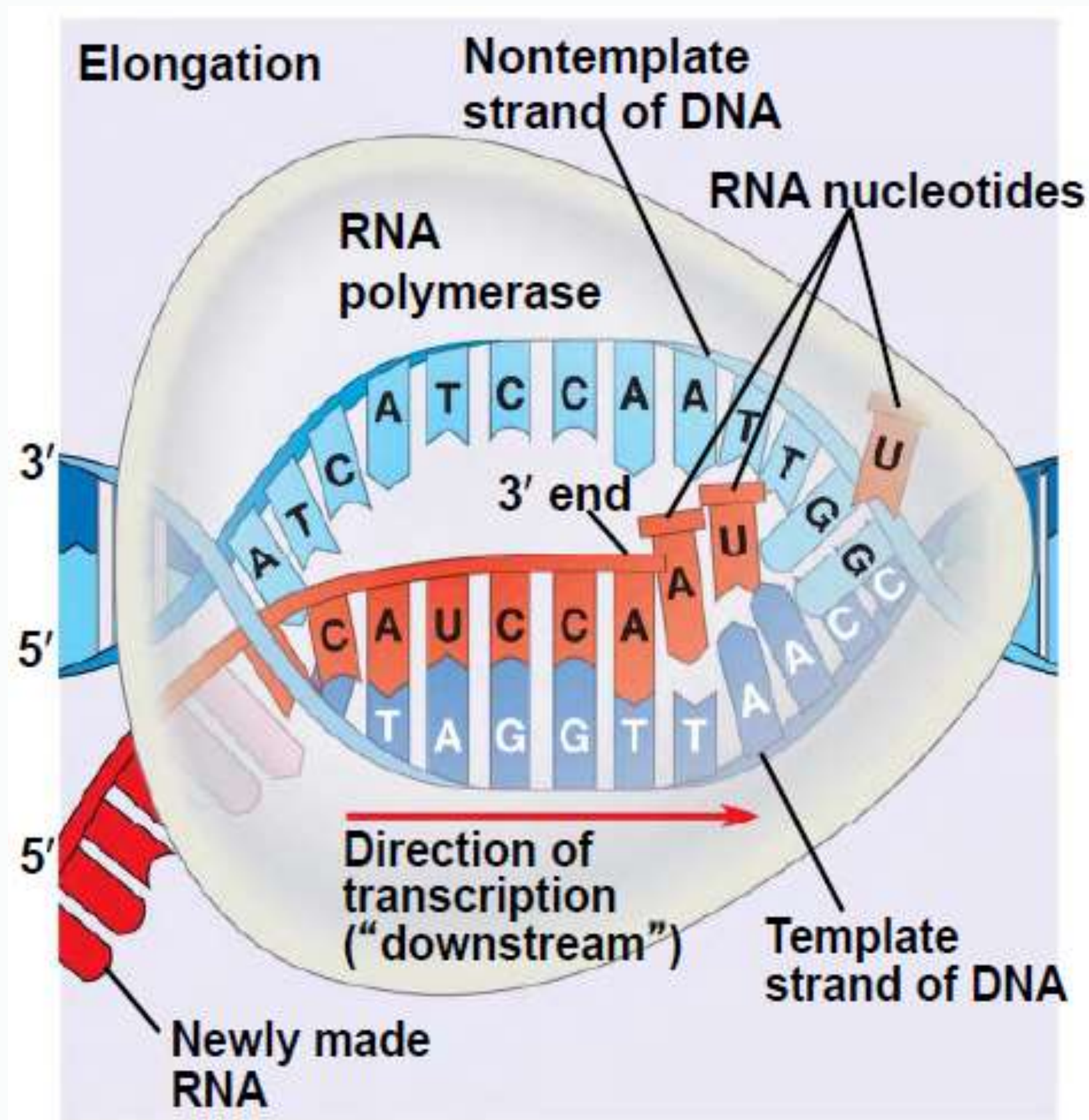


# The Central Dogma of Biology

*The central dogma of biology describes the flow of information from gene sequence to protein product.*

DNA

Transcription

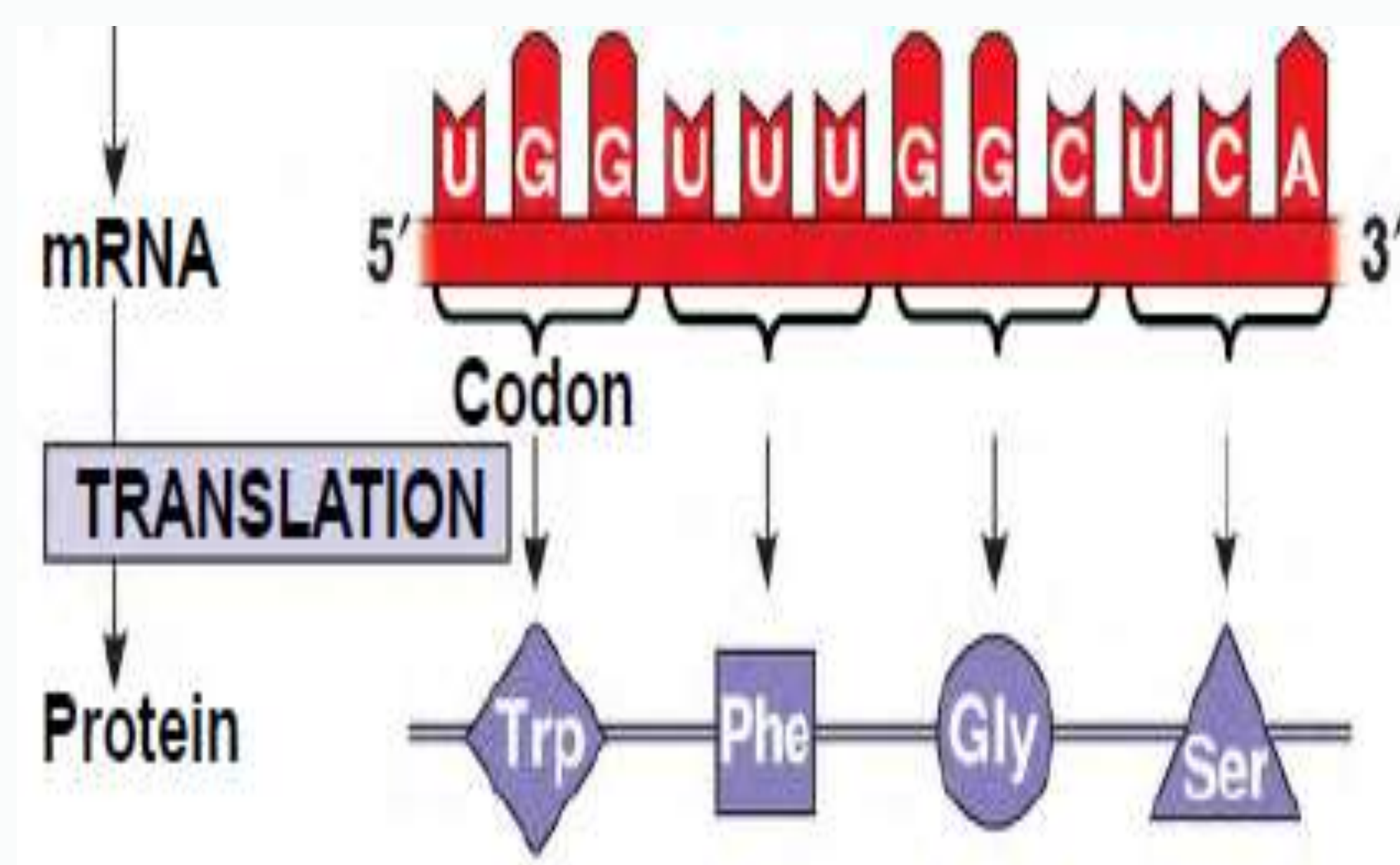


## Transcription:

- The process of transferring genetic information from DNA to complementary strands of RNA.
- This is done by the binding of the enzyme, RNA Polymerase, to the promoter sequence of a gene, reading the DNA, then producing a strand of messenger RNA (mRNA)

RNA

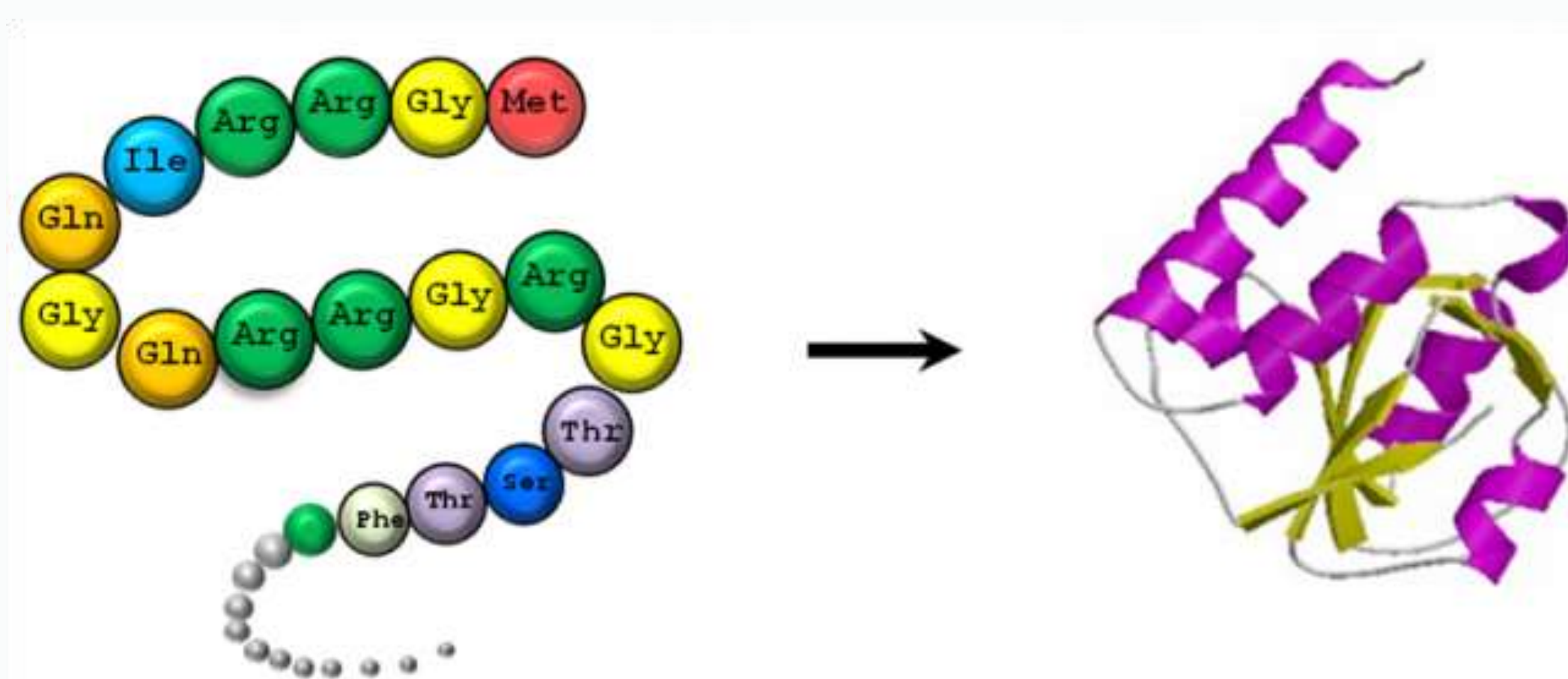
Translation



## Translation:

- The process of transferring genetic information from RNA to a sequence of amino acids in a protein.
- The sequence of mRNA is read as a series of nucleotide triplets called codons.
- Each codon specifies one amino acid which then join together to form a polypeptide chain.

Protein



## Folding:

- Polypeptide chains undergo a series of folding to form functional proteins.