

Biology 12

DNA

Steps of Protein Synthesis

Cut out the descriptions below and put the steps of protein synthesis in order.

3 possible stop codons cause the polypeptide to detach from the ribosome
tRNA brings amino acids to the mRNA to lengthen the polypeptide
Elongation
mRNA is formed by RNA polymerase
mRNA binds to the small subunit of a ribosome in the vicinity of the start codon
Translation begins
Polypeptide is passed to the rough ER for processing
Initiation
RNA polymerase binds to a promoter
introns are removed from primary mRNA to create mature mRNA consisting only of exons
DNA helix unwinds and unzips a gene segment
Termination
Transcription begins
mRNA leaves the nucleus through the nuclear pores and into the cytoplasm