



# Reviews of Physiology, Biochemistry and Pharmacology 155

*Ed Amara S.*

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The eukaryotic translation machinery must recognize the site on a messenger RNA (mRNA) where decoding should begin and where it should end. The selection of the translation start site is generally given by the first AUG codon encoding the amino acid methionine. During initiation soluble translation initiation factors (eukaryotic translation initiation factors [eIFs] in eukaryotes and prokaryotic translation initiation factors [IFs] in prokaryotes) bind the mRNA, deliver the initiator Met-tRNA, and assemble to form a complete 80S ribosome from the 40S and 60S subunits. By progressing along the mRNA in the 5'-to-3' direction the ribosome decodes the information and translates it into the polypeptide chain. During this process, repeated delivery of amino-acyl tRNA (aa-tRNA) to the ribosome, peptide bond formation, movement of the mRNA, and the growing peptidyl-tRNA is mediated by both soluble elongation factors (eukaryotic translation elongation factors [eEFs] in eukaryotes and prokaryotic translation elongation factors [EFs] in prokaryotes) and the activity of the ribosome. The final step in the translation process occurs when one of the three termination codons occupies the ribosomal A-site. Translation comes to an end and soluble release factors (eukaryotic translation termination factors [eRFs] in eukaryotes and prokaryotic translation termination factors [RFs] in prokaryotes) facilitate hydrolytical release of the polypeptide chain (for recent reviews, see Inge-Vechtomov et al. 2003; Kisselev et al. 2003; Wilson and Nierhaus 2003; Kapp and Lorsch 2004).

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