Comparison between Transcription and Translation

	Transcription	Translation
Where does this process occur in a eukaryotic cell?	nucleus	cytoplasm
What is the enzyme that carries out this process?	RNA polymerase	Ribosome
What is the template that is read during this process?	DNA	RNA
In what direction is the template read?	3' → 5'	5' → 3'
What is the start signal/sequence for this process?	promoter	Start codon
What is the polymer that is formed?	RNA	polypeptide
What monomer is used to form this polymer?	ribonucleotides	Amino acids
What type of bond is formed between monomers?	phosphodiester	peptide
In what direction is the new polymer formed?	5' → 3'	N → C Amino to carboxyl
What is the stop signal/sequence for this process?	Transcription Terminator	Stop codon