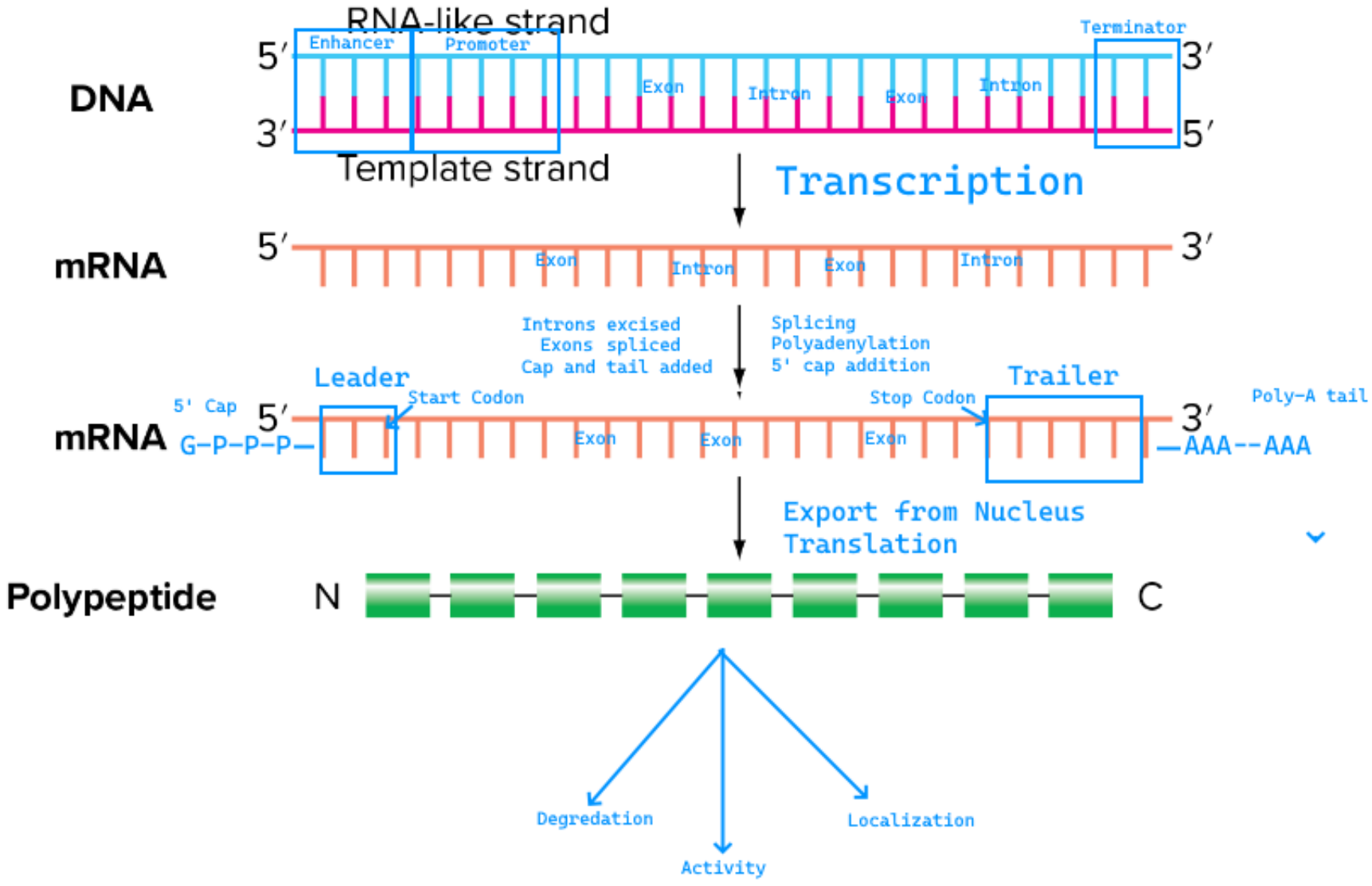

DNA
RNA-like strand
5′
3′
Enhancer
Promoter
Exon
Intron
Exon
Intron
Terminator
3′
5′
Template strand
Transcription
mRNA
5′
3′
Exon
Intron
Exon
Intron
Introns excised
Exons spliced
Cap and tail added
Splicing
Polyadenylation
5' cap addition
Leader
Trailer
5' Cap
G–P–P–P–
Start Codon
Stop Codon
Poly-A tail
mRNA
5′
3′
Exon
Exon
Exon
—AAA--AAA
Export from Nucleus
Translation
Polypeptide
N
C
Degredation
Activity
Localization