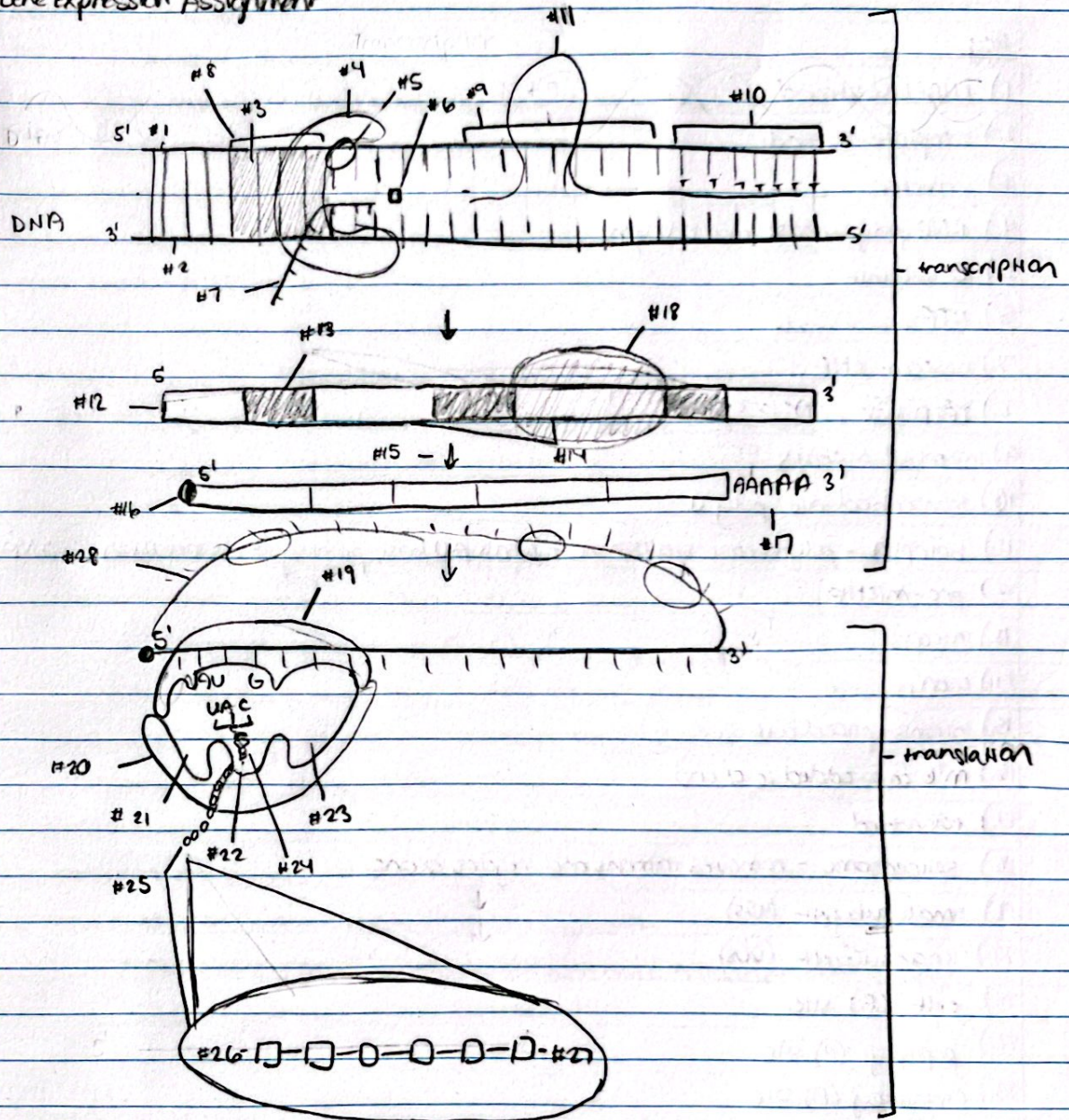


Gene Expression Assignment



key

- 1.) RNA-like strand
- 2.) template strand
- 3.) promoter
- 4.) RNA polymerase core enzyme
- 5.) σ subunit
- 6.) NTPs
- 7.) nascent RNA
- 8.) TATA box
- 9.) inverted repeats
- 10.) transcribed into poly U
- 11.) hairpin - polymerase stalls here + weak AU base pairings = dissociation of DNA and RNA
- 12.) pre-mRNA
- 13.) introns
- 14.) exon
- 15.) introns spliced out
- 16.) m⁷G cap added to 5' end
- 17.) tail added
- 18.) spliceosome - removes introns and rejoins exons
- 19.) small subunit (40s)
- 20.) large subunit (60s)
- 21.) exit (E) site
- 22.) peptidyl (P) site
- 23.) aminoacyl (A) site
- 24.) charged tRNA
- 25.) polypeptide chain
- 26.) N terminus of polypeptide
- 27.) C terminus of polypeptide
- 28.) closed loop structure - allows for ribosome recycling