1 | **mRNA Pre-Processing**

Between Promoter and Terminator, **Exon** and **Intron** alternate. Exon is coding, whereas Intron is non-coding and works as metadata.

After reading the intron, they are spliced out during mRNA processing => done by the "splicesome". The mRNA, after splicing, is "capped and tailed" to mark pre-processing completion, at which point they leave the nucleus + go to the ribosome.

1.1 | **Slicing out the non-coding parts**

- Begin by assembling helper proteins at intron-exon borders => "slicing factors"

- Other helping factor proteins come together and form the "splicesome" to do the splicing

- Splicesome splices by bringing exon ends together

- After it's done, the splicesome disintergrates

1.2 | **Marking for Maturity**

After the slicing is done, each finished mRNA is marked for maturity:

- 3' end => AAAAAA tail (using poly-adenine tailing enzyme)

- 5' end => GGGGGG cap (using guanine-capping enzyme)