

## 1 | Transcription

- Polymerase
  - The thing that copies it over
- Promoter
  - The structure that chooses which genes to copy
- Coding Region
  - The area of DNA to be copied
- mRNA
  - What the polymerase outputs (DNA copy inverse)
- Terminator
  - The tail end of the coding region that folds making the RNA fall off
- This creates the mRNA and the siRNA and tRNA

## 2 | Outside signals

- Signals to outside receptors create positive or negative transcription factors
  - These can be activated by internal signals
  - positive transcription factors allow for and encourage transcription
  - negative transcription factors cause the release of a molecule that take the slot of polymerase shutting down the gene and not allowing for transcription

## 3 | Mutations

- There are different types of mutations such as a substitution mutation
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