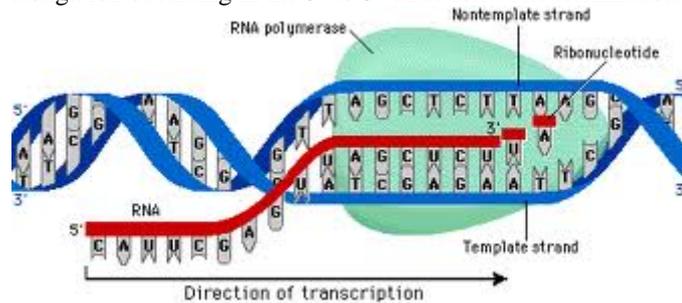


This transcription has three steps.

- **Initiation**
- **Elongation**
- **Termination**

Initiation process of transcription begins when the enzyme binds to the [promoter](#) sequence in the DNA. This enzyme helicase unwound the double helix. Then the enzyme progresses along the template strand in the 3' to 5' direction. It will be synthesizing a complementary RNA molecule with elongation occurring in the 5' to 3' direction. The termination of RNA synthesis occurrence



is dictated by the DNA sequence.

After transcription process normally the RNAs are often [modified](#) by enzymes. The splicesome which removes the pre mRNA and introns which are added with [poly\(A\) tail](#) and a [5' cap](#).

For the synthesis of a new strand of RNA, the [RNA-dependent RNA polymerases](#) use RNA as their template.

A number of RNA viruses use RNA polymerase to replicate their genetic material. For example, poliovirus. Also in many organisms, this enzyme is part of the [RNA interference](#) pathway.

Want to know more about RNA synthesis process? [Click here](#) to schedule live online session with e Tutor!

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Reference Links:

- <http://en.wikipedia.org/wiki/RNA>
- <http://www.youtube.com/watch?v=7oaoOUpMswc>
- <http://www.whatislife.com/reader/dna-rna/dna-rna.html>
- http://www-scf.usc.edu/~chem203/resources/DNA/rna_structure.html
- [http://en.wikipedia.org/wiki/Transcription_\(genetics\)](http://en.wikipedia.org/wiki/Transcription_(genetics))
- <http://www.youtube.com/watch?v=NJxobgkPEAo>

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