

*Transcription and RNA Processing: During transcription of DNA to RNA, why does the sigma subunit of the holoenzyme break off once the RNA strand starts to be produced?*

This is beyond the scope of MCB 150, but there are different types of sigma factors in organisms like *E. coli* for various conditions. Since the rest of the polymerase has the same function regardless of the sigma factor, having "exchangeable" parts which can be detached/attached is an advantage.

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