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Difference Between Transcription and Translation

1. Transcription is the formation of RNA from DNA, whereas translation is the synthesizing RNA to make proteins i.e. polypeptide over ribosome.
2. In transcription, the antisense strand of the DNA is used as a template, whereas in translation mRNA acts as a template.
3. Transcription happens inside the cytoplasm in prokaryotes and nucleus in eukaryotes, whereas translation happens in cytoplasm.
4. In Transcription, ATP, GTP, CTP and UTP i.e. four types of ribo-nucleoside triphosphates are used as raw material, whereas in translation 20 different types of amino acids are used as raw materials.
5. In Transcription, rRNA, tRNA, and mRNA are formed, and all these forms of RNA are used in the process of translation.
6. In Transcription, slicing is involved, whereas in translation slicing is absent.



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7. In Transcription, RNA polymerases are required, whereas in translation different reagents are used to create a polypeptide chain.
8. In Transcription, in template Polymerase moves over, whereas, in translation, Ribosome moves over the mRNA.

Source and more details: <https://askanydifference.com/difference-between-transcription-and-translation/>