

[Open Peer Review on Qeios](#)

DNA-directed RNA Polymerase

National Cancer Institute

Source

National Cancer Institute. *DNA-directed RNA Polymerase*. NCI Thesaurus. Code C17104.

An enzyme that catalyzes the stepwise addition of ribonucleotides to the 3' end of a growing RNA chain using a single-stranded DNA template. This reaction, transcription, is important in the flow of information from DNA to proteins. Three different polymerase protein complexes have been identified and characterized.