

Recombinant Mouse Polr3k Protein, Myc/DDK-tagged

Cat. No. Polr3k-5009M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (RNA) III (DNA directed) polypeptide K (Polr3k), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway.
Molecular Mass	12.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Polr3k polymerase (RNA) III (DNA directed) polypeptide K [Mus musculus (house mouse)]

Official Symbol Polr3k

Synonyms POLR3K; polymerase (RNA) III (DNA directed) polypeptide K; DNA-directed RNA polymerase III subunit RPC10; RNA polymerase III subunit C10; RNA polymerase III subunit C11; DNA-directed RNA polymerase III subunit K; C11; RPC10; RPC11; 12.3kDa; AI196849; AU014893; 1500004O14Rik

Gene ID 67005

mRNA Refseq NM_025901

Protein Refseq NP_080177

UniProt ID Q9CQZ7

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