

Recombinant Mouse Polr3d Protein, Myc/DDK-tagged

Cat. No. Polr3d-5005M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (RNA) III (DNA directed) polypeptide D (Polr3d), 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. Specific 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	44.8 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 Polr3d polymerase (RNA) III (DNA directed) polypeptide D [Mus musculus (house mouse)]

Official Symbol Polr3d

Synonyms POLR3D; polymerase (RNA) III (DNA directed) polypeptide D; DNA-directed RNA polymerase III subunit RPC4; RNA polymerase III subunit C4; DNA-directed RNA polymerase III subunit D; DNA-directed RNA polymerase III subunit C4; BN51 (BHK21) temperature sensitivity complementing; RPC4; 44kDa; BN51T; TSBN51; AI326118; AW489084; 2810426M17Rik

Gene ID 67065

mRNA Refseq NM_025945

Protein Refseq NP_080221

UniProt ID Q91WD1

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