

Recombinant Mouse Polr2d Protein, Myc/DDK-tagged

Cat. No. Polr2d-4996M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (RNA) II (DNA directed) polypeptide D (Polr2d), transcript variant 2, 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 II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RBP4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double-stranded DNA to enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA.
Molecular Mass	12.3 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.

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Storage	Store at -80 centigrade after receiving vials.
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	Polr2d polymerase (RNA) II (DNA directed) polypeptide D [Mus musculus (house mouse)]
Official Symbol	Polr2d
Synonyms	POLR2D; polymerase (RNA) II (DNA directed) polypeptide D; DNA-directed RNA polymerase II subunit RPB4; RNA polymerase II subunit B4; DNA-directed RNA polymerase II subunit D; RBP4; HSRBP4; 2310002G05Rik; 2610028L19Rik
Gene ID	69241
mRNA Refseq	NM_027101
UniProt ID	Q9D7M8