

Recombinant Human POLR2E

Cat. No. POLR2E-521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RPB5 is isolated from an <i>E. coli</i> strain that carries the coding sequence of human RPB5 under the control of a T7 promoter.
Species	Human
Source	E.coli
Description	hRPB5 (p33) is a highly conserved subunit shared by all three RNA polymerases. It has been shown to be in close contact to promoter DNA when pol II is recruited into the preinitiation complex. RPB5 has also been implicated in direct protein-protein contacts with transcription factor IIB, Rap30 subunit of transcription factor IIF, and gene-specific modulator proteins, such as the hepatitis B virus transactivator protein X or an inhibitor of pol II, RMP (RPB5-mediating protein) .
Purity	Purity > 95% by SDS-PAGE analysis.
Application	RPB5 has been applied in protein-protein interactions assays.
Endotoxin	1 unit equals 1 nanogram of purified protein. 100 units are sufficient for a protein-protein interaction assay.
Buffer	1x dilution buffer A: 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.

GENE INFORMATION

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Gene Name	POLR2E polymerase (RNA) II (DNA directed) polypeptide E, 25kDa [Homo sapiens]
Synonyms	POLR2E; polymerase (RNA) II (DNA directed) polypeptide E, 25kDa; RPB5; XAP4; RPABC1; hRPB25; hsRPB5; POLR2E; DNA directed RNA polymerase II 23 kda polypeptide; DNA-directed RNA polymerase II 23 kDa polypeptide; DNA-directed RNA polymerase II subunit E; DNA-directed RNA polymerases I, II, and III subunit RPABC1; RNA polymerases I, II, and III subunit ABC1; RPB5 homolog
Gene ID	5434
mRNA Refseq	NM_004715
Protein Refseq	NP_004706
MIM	604927
UniProt ID	Q9Y5B0
Chromosome Location	19p13
Pathway	Huntington"s disease; Metabolic pathways; Purine metabolism; RNA polymerase; Gene Expression; Regulatory RNA pathways; mRNA Processing
Function	DNA binding; DNA-directed RNA polymerase activity; protein binding; protein kinase activity