

Recombinant Human POLR2E, His-tagged

Cat. No. POLR2E-28615TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human His-tagged POLR2E isolated from an E. coli strain that carries the coding sequence of the protein under the control of a T7 promoter.
Species	Human
Source	E.coli
Description	This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequence Similarities	Belongs to the archaeal rpoH/eukaryotic RPB5 RNA polymerase subunit family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	POLR2E polymerase (RNA) II (DNA directed) polypeptide E, 25kDa [Homo sapiens]
Official Symbol	POLR2E
Synonyms	POLR2E; polymerase (RNA) II (DNA directed) polypeptide E, 25kDa; polymerase (RNA) II (DNA directed) polypeptide E (25kD); DNA-directed RNA polymerases I, II, and III subunit RPABC1; DNA directed RNA polymerase II 23 kda polypeptide; hRPB25; hsRPB5; RPABC1
Gene ID	5434
mRNA Refseq	NM_002695
Protein Refseq	NP_002686
MIM	180664
Uniprot ID	P19388
Chromosome Location	19p13.3
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific

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biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; DNA Repair, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem;

Function

DNA binding; DNA-directed RNA polymerase activity; contributes_to protein kinase activity;

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