Recombinant Human POLR2I

Cat. No. POLR2I-30766TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human RNA Polymerase II p14.5 with proprietary tag; amino acids 1-125, approximately 41kDa.
Species	Human
Source	E.coli
ProteinLength	1-125 a.a.
Description	This gene encodes a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit, in combination with two other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. The product of this gene has two zinc finger motifs with conserved cysteines and the subunit does possess zinc binding activity.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 20mM Tris Cl, 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 cycles.

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Full Length	Full L.

GENE INFORMATION

Gene Name	POLR2I polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa [Homo sapiens]
Official Symbol	POLR2I
Synonyms	POLR2I; polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa; polymerase (RNA) II (DNA directed) polypeptide I (14.5kD); DNA-directed RNA polymerase II subunit RPB9; hRPB14.5; RPB9;
Gene ID	5438
mRNA Refseq	NM_006233
Protein Refseq	NP_006224
MIM	180662
Uniprot ID	P36954
Chromosome Location	19q12
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem;

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Function	DNA binding; DNA-directed RNA polymerase activity; metal ion binding; contributes_to protein kinase activity; zinc ion binding;

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