

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: None Constituents: 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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