

Recombinant Human POLR2C, His-tagged

Cat. No. POLR2C-231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLR2C, 1-275aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-275aa
Description	POLR2C is the third largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a cysteine rich region and exists as a heterodimer with another polymerase subunit, POLR2J. These two subunits form a core subassembly unit of the polymerase. A pseudogene has been identified on chromosome 21. Recombinant human POLR2C protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl
Molecular Mass	33.8 kDa (298aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPLYANQP TVRITELTDE NVKFIIENTD LAVANSIRRV FIAEVPIAI DWVQIDANSS VLNDEFIAHR LGLIPLISDD IVDKLQYSRD CTCEEFCEPEC SVEFTLDVRC NEDQTRHVTS RDLISNSPRV IPVTSRNRDN DPNDYVEQDD ILIVKLRKGQ ELRLRAYAKK GFGKEHAKWN PTAGVAFEYD PDNALRHTVY PKPEEWPKE YSELDEDESQ APYDPNGKPE

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RFYYNVESCG SLRPETIVLS ALSGLKKKLS DLQTQLSHEI QSDVLTIN

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name POLR2C polymerase (RNA) II (DNA directed) polypeptide C, 33kDa [Homo sapiens]

Official Symbol POLR2C

Synonyms POLR2C; polymerase (RNA) II (DNA directed) polypeptide C, 33kDa; polymerase (RNA) II (DNA directed) polypeptide C (33kD); DNA-directed RNA polymerase II subunit RPB3; RNA polymerase II subunit 3; RPB3; RPB33; RNA polymerase II subunit B3; DNA-directed RNA polymerase II subunit C; DNA-directed RNA polymerase II 33 kDa polypeptide; RPB31; hRPB33; hsRPB3;

Gene ID 5432

mRNA Refseq NM_032940

Protein Refseq NP_116558

MIM 180663

UniProt ID P19387

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Chromosome Location	16q13-q21
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem;
Function	DNA binding; DNA-directed RNA polymerase activity; protein dimerization activity; contributes_to protein kinase activity;

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