

Active Recombinant Human POLR2C, His-tagged

Cat. No. POLR2C-8462H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLR2C, fused with His tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	hRPB3 (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 . RPB3 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 (RPB3-mediating protein). Therefore, RPB3 is facilitating the communication between the pol II core and a variety of basal and gene-specific transcription factors. In the pol II complex, RPB3 interacts with RPB5 and the RPB3–RPB5 interaction is intensified in the presence of three subunits, RPB7, RPB8 and RPB11 . RPB3 also makes direct contacts with both RPB1 and RPB2, the two large subunits of the polymerase complex.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	1 unit equals 1 ng of purified protein. 100 units are sufficient for a protein-protein interaction assay.
AA Sequence	MPYANQPTVR ITELTDENVK FIIENTDLAV ANSIRRVFIA EVPIIAIDWV QIDANSSVLH DEFIAHRLGL IPLISDDIVD KLQYSRDCTC EEFCPECSVE

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FTLDVRCNED QTRHVTSRDL ISNSPRVIPV TSRNRDNDPN DYVEQDDILI
VKLRKGQELR LRAYAKKGFG KEHAKWNPTA GVAFEYDPDN ALRHTVYPKP
EEWPKSEYSE LDEDESQAPY DPNGKPERFY YNVESCGSLR PETIVLSALS
GLKKKLSDLQ TQLSHEIQSD VLTIN

Purity >95% as determined by SDS-PAGE

Storage -80 °C

Concentration 350 µg/ml

Shipping Dry Ice

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

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MIM	180663
UniProt ID	P19387
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;