

Recombinant Human POLR3F, His-tagged

Cat. No. POLR3F-7115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLR3F protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-316aa
Description	POLR3F, also known as RPC39 and RPC6, belongs to the eukaryotic RPC34/RPC39 RNA polymerase subunit family. POLR3F is one of more than a dozen subunits forming eukaryotic RNA polymerase III (RNA Pol III), which transcribes 5S ribosomal RNA and tRNA genes. This protein has been shown to bind both TFIIIB90 and TBP, two subunits of RNA polymerase III transcription initiation factor IIIB (TFIIIB). It is DNA-dependent RNA polymerase that catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	38.1kDa (339aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAEVKVK VQPPDADPVE IENRIELCH QFPHGITDQV IQNEMPHIEA QQRAVAINRL LSMGQLDLLR SNTGLLYRIK DSQNAGKMKG SDNQEKLVYQ IIEDAGNKGI WSRDIRYKSN LPLTEINKIL

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KNLESKKLIK AVKSVAASKK KVMYMLYNLQP DRSVTGGAWY SDQDFESEFV
 EVLNQQCFKF LQSKAETARE SKQNPMIQRN SSFASSHEVW KYICELGISK
 VELSMEDIET ILNTLIYDGK VEMTIIAAKE GTVGSVDGHM KLYRAVNPII
 PPTGLVRAPC GLCPVFDDCH EGGEISPSNC IYMTEWLEF

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name POLR3F polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa [Homo sapiens]

Official Symbol POLR3F

Synonyms POLR3F; polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa; polymerase (RNA) III (DNA directed) polypeptide F (39 kDa); DNA-directed RNA polymerase III subunit RPC6; RNA polymerase III C39 subunit; RPC6; RPC39; RNA polymerase III subunit C6; RNA polymerase III 39 kDa subunit; DNA-directed RNA polymerase III subunit F; DNA-directed RNA polymerase III 39 kDa polypeptide; DNA-directed RNA polymerases III 39 kDa polypeptide; MGC13517;

Gene ID 10621

mRNA Refseq NM_006466

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Protein Refseq	NP_006457
UniProt ID	Q9H1D9
Chromosome Location	20p11.23
Pathway	Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Epstein-Barr virus infection, organism-specific biosystem; Epstein-Barr virus infection, conserved biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Purine metabolism, organism-specific biosystem;
Function	DNA binding; DNA-directed RNA polymerase activity; protein binding;