

# Product information



## POLR3F, 1-316aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1897

**Full name:** DNA-directed RNA polymerase III subunit RPC6

**NCBI Accession No.:** NP\_006457

**Synonyms:** RPC39, RPC6

**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 TFIIB90 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. Recombinant human POLR3F protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT</p> <p><b>Molecular Weight:</b> 38.1kDa (339aa), confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MGSSHHHHH SSGLVPRGSH MGSMAEVKVK VQPPDADPVE IENRI IELCH QFPHGITDQV IQNEMPHIEA QGRAVAINRL LSMGQLDLLR SNTGLLYRIK DSNAGKMKG SDNQEKL VYQ I IEDAGNKGI WSRDIRYKSN LPLTEINKIL KNLESKLIK AVKVAASKK KVMYMLNQLP DRSVTGGAWY SDQDFESEFV EVLNQQCFKF LQSKAETARE SKQNPMIQRN SSFASSHEVW KYICELGISK VELSMEDIET ILNTLIYDGK VEMTIIAAKE GTVGSVDGHM KLYRAVNP I I PPTGLVRAPC GLCPVFDDCH EGGEISPSNC IYMTWLEF</p>	

### General references:

Chiu Y.-H., *et al.* (2009) *Cell* 138:576-591

Ablasser A., *et al.* (2009) *Nat. Immunol.* 10:1065-1072

**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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)