

# Recombinant human RNA polymerase III subunit RPC6/POLR3F protein

Catalog Number: ATGP1897

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-316aa

### UniProt No.

Q9H1D9

### NCBI Accession No.

NP\_006457

### Alternative Names

DNA-directed RNA polymerase III subunit RPC6, RPC39, RPC6

## PRODUCT SPECIFICATION

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### Molecular Weight

38.1 kDa (339aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 30% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMAEVKVK VQPPDADPVE IENRIIELCH QFPHGITDQV IQNEMPHIEA QQRAVAINRL  
LSMGQLDLLR SNTGLLYRIK DSQNAGKMKG SDNQEKLVYQ IIEDAGNKG I WSRDIRYKSN LPLTEINKIL KNLESKKLIK  
AVKSVAASKK KVMYLYNLQP DRSVTGGAWY SDQDFESEFV EVLNQQCFKF LQSKAETARE SKQNPMIQRN SSFASSHEVW  
KYICELGISK VELSMEDIET ILNTLIYDGK VEMTIIAAKE GTVGSVDGHM KLYRAVNPII PPTGLVRAPC GLCPVFDDCH  
EGGEISPSNC IYMTEWLEF

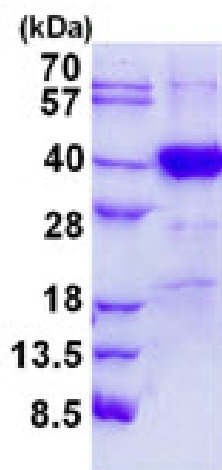
## General References

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

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

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)