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Recombinant human RNA polymerase III subunit RPC6/POLR3F protein

Catalog Number: ATGP1897

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-316aa

UniProt No.

O9H1D9

NCBI Accession No.

NP 006457

Alternative Names

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

PRODUCT SPECIFICATION

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

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. 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

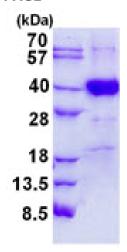
MGSSHHHHHH SSGLVPRGSH MGSMAEVKVK VQPPDADPVE IENRIIELCH QFPHGITDQV IQNEMPHIEA QQRAVAINRL LSMGQLDLLR SNTGLLYRIK DSQNAGKMKG SDNQEKLVYQ IIEDAGNKGI WSRDIRYKSN LPLTEINKIL KNLESKKLIK AVKSVAASKK KVYMLYNLQP DRSVTGGAWY SDQDFESEFV EVLNQQCFKF LQSKAETARE SKQNPMIQRN SSFASSHEVW KYICELGISK VELSMEDIET ILNTLIYDGK VEMTIIAAKE 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



15% SDS-PAGE (3ug)

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

