

# Recombinant human RNA polymerases I and III subunit RPAC1/POLR1C protein

Catalog Number: ATGP2753

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-349aa

### UniProt No.

O15160

### NCBI Accession No.

NP\_976035

### Alternative Names

DNA-directed RNA polymerases I and III subunit RPAC1, RP3-337H4.4, RPA39, RPA40, RPA5, RPAC1, TCS3

## PRODUCT SPECIFICATION

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### Molecular Weight

41.6 kDa (369aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 80% 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

POLR1C is a subunit of both RNA polymerase I and RNA polymerase III complexes. The encoded protein is part of the Pol core element. Defects in this gene have been associated with Treacher Collins syndrome (TCS). Recombinant human POLR1C protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMAASQAV EEMRSRVVLG EFGVRNVHTT DFPGNYSGYD DAWDQDRFEK

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NFRVDVVHMD ENSLEFDMVG IDAAIANAFR RILLAEVPTM AVEKVLVYNN TSIVQDEILA HRLGLIPIHA DPRLFYRNQ  
GDEEGTEIDT LQFRLQVRCT RNPAAKDSS DPNELYVNHK VYTRHMTWIP LGNQADLFPE GTIRPVHDDI LIAQLRPGQE  
IDLLMHCVKG IGKDHAKFSP VATASYRLLP DITLLEPVEG EAAEELSRFC SPGVIEVQEV QGKKVARVAN PRLDTFSREI  
FRNEKLLKVV RLARVRDHYI FSVESTGVLP PDVLVSEAIK VLMGKCRRFL DELDAVQMD

## General References

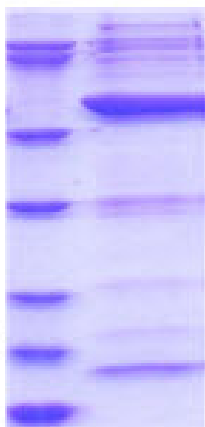
Hu P., et al (2002). Mol. Cell. Biol. 22:8044-8055  
Dauwerse J.G., et al (2011). Nat. Genet. 43:20-22

## DATA

### SDS-PAGE

(kDa)

70  
57  
40  
28  
18  
13.5  
8.5



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

15% SDS-PAGE (3ug)