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# Recombinant human RNA polymerase III subunit RPC8/POLR3H protein

Catalog Number: ATGP1755

### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-204aa

#### UniProt No.

O9Y535

#### **NCBI Accession No.**

NP 612211

#### **Alternative Names**

DNA-directed RNA polymerase III subunit RPC8, RPC22.9, RPC8

# PRODUCT SPECIFICATION

## **Molecular Weight**

25.3 kDa (227aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% 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**

POLR3H, also as known as A1665 and RPC8, belongs to the eukaryotic RPB7/RPC8 RNA polymerase subunit family. POLR3H is DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. It plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3H acts as nuclear and cytosolic DNA sensor involved in innate immune response. Recombinant human POLR3H protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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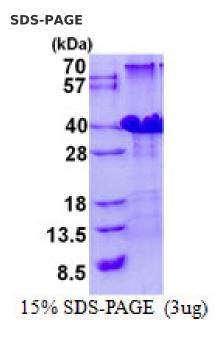
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMFVLVEM VDTVRIPPWQ FERKLNDSIA EELNKKLANK VVYNVGLCIC LFDITKLEDA YVFPGDGASH TKVHFRCVVF HPFLDEILIG KIKGCSPEGV HVSLGFFDDI LIPPESLQQP AKFDEAEQVW VWEYETEEGA HDLYMDTGEE IRFRVVDESF VDTSPTGPSS ADATTSSEEL PKKEAPYTLV GSISEPGLGL LSWWTSN

#### **General References**

Ablasser A., et al. (2009) Nat. Immunol. 10:1065-1072 Hu P., et al. (2002) Mol. Cell. Biol. 22:8044-8055

# **DATA**



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

