

## Recombinant Human Polymerase (RNA) III (DNA Directed) Polypeptide H (22.9kD), His-tagged

**Cat. No.** POLR3H-7187H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human POLR3H protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 25.3kDa.                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-204aa                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 25.3kDa (227aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMFVLVEM VDTVRIPPWQ FERKLNSIA                                                                                                                                                                                                                                                                                                                                                                                          |

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EELNKKLANK VVYNVGLCIC LFDITKLEDA YVFPGDGASH TKVHFRCVVF  
 HPFLDEILIG KIKGCSPEGV HVSLGFFDDI LIPPESLQQP AKFDEAEQVW  
 VWEYETEEGA HDLYMDTGEE IRFRVVDESF VDTSPTGPSS ADATTSSEEL  
 PKKEAPYTLV GSISEPGLGL LSWWTSN

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**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.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** POLR3H polymerase (RNA) III (DNA directed) polypeptide H (22.9kD) [ Homo sapiens ]

**Official Symbol** POLR3H

**Synonyms** POLR3H; polymerase (RNA) III (DNA directed) polypeptide H (22.9kD); DNA-directed RNA polymerase III subunit RPC8; KIAA1665; RPC8; RNA polymerase III subunit C8; RNA polymerase III subunit RPC8; DNA-directed RNA polymerase III subunit H; RNA nucleotidyltransferase (DNA-directed); RNA polymerase III subunit 22.9 kDa subunit; DNA-directed RNA polymerase III subunit 22.9 kDa polypeptide; RPC22.9; MGC29654; MGC111097;

**Gene ID** 171568

**mRNA Refseq** NM\_001018050

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_001018060                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | Q9Y535                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 22q13                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Epstein-Barr virus infection, organism-specific biosystem; Epstein-Barr virus infection, conserved biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; |
| <b>Function</b>            | DNA binding; DNA-directed RNA polymerase activity;                                                                                                                                                                                                                                                                                                                                             |

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