

Product datasheet for **TP310633M**

POLR3H (NM_001018050) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (RNA) III (DNA directed) polypeptide H (22.9kD) (POLR3H), transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210633 protein sequence Red =Cloning site Green =Tags(s)

MFVLVEMVDTVRIIPWQFERKLNDISIAEELNKKLANKVWYNVGLCICLFDITKLEDAYVFPDGDGASHTKV
HFRCVVFHPFLDEILIGKIKGCSPEGVHVSLGFFDDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDL
YMDTGEEIRFRVDESFDTSPTGPSSADATTSSEELPKKEAPYTLVGSISEPGLGLLSWWTSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	22.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001018060</u>
Locus ID:	171568
UniProt ID:	<u>Q9Y535</u> , <u>A0A024R1P3</u>



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RefSeq Size: 4492

Cytogenetics: 22q13.2

RefSeq ORF: 612

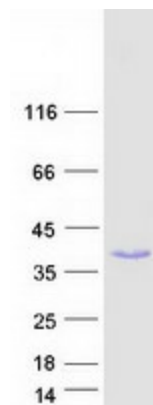
Synonyms: C25; RPC8; RPC22.9

Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families: Transcription Factors

Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Product images:



Coomassie blue staining of purified POLR3H protein (Cat# [TP310633]). The protein was produced from HEK293T cells transfected with POLR3H cDNA clone (Cat# [RC210633]) using MegaTran 2.0 (Cat# [TT210002]).