

## Product datasheet for **TP318588L**

### **POLR3E (NM\_018119) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (RNA) III (DNA directed) polypeptide E (80kD) (POLR3E), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218588 representing NM_018119 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MANEEDDPVVQEIDVYLAKSLAEKLYLFQYPVRPASMTYDDIPHLSAKIKPKQKQVELEMAIDTLNPNYC  
RSKGEQIALNVDGACADETSTYSSKLMQKQTFCSSTTSNTSRYAAALYRQGELHTPLHGILQLRPSFS  
YLDKADAKHREREAANEAGDSSQDEAEDDVKQITVRFSPSESEQARQRRVQSYEFLLQKKHAEPPWVHLHY  
YGLRDSRSEHERQYLLCPGSSGVENTELVKSPSEYLMMLMPPSQEEEDKPKVAPSNVLSMAQLRTLPLAD  
QIKILMKNVKVMPFANLMSLLGPSIDSVAVLRGIQKVAMLVQGNWVVKSDILYPKDSPPHSGVPAEVL  
RGRDFVMWKFTQSRWVVRKEVATVTKLCAEDVKDFLEHMAVVRINKGWEIFLPYDGEFIKKHPDVQRQ  
H  
MLWTGIQAKLEKVYNLVKETMPKKPDAQSGPAGLVCGDQRIQVAKTKAQQNHALLERELQRRKEQLRVP  
A  
VPPGVRIKEEPPVSEEGEEDDEEQAEPEPMDTSPSGLHSLKLANGLPLGRAAGTDSFNHPPQGCASTPVAR  
ELKAFVEATFQRQFVLTSELKRLFNHLASLPPGHTLFSGISDRMLQDTVLAAGCKQILVPFPPTAAS  
PDEQKVFALWESGDMSDQHRQVLLIFSKNYRVRNMIQSRLTQECGEDLSKQEVKVLKDCCVSYGGM  
W  
YLKGTQVS

**TRRLEQKLISEEDLAANDILDYKDDDDKV**

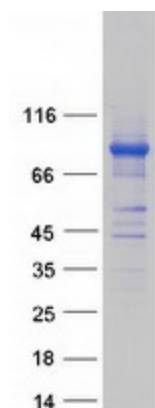
Tag:	C-Myc/DDK
Predicted MW:	79.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_060589</u>
<b>Locus ID:</b>	55718
<b>UniProt ID:</b>	<u>Q9NVU0</u>
<b>RefSeq Size:</b>	2640
<b>Cytogenetics:</b>	16p12.2
<b>RefSeq ORF:</b>	2124
<b>Synonyms:</b>	C37; RPC5; SIN
<b>Summary:</b>	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. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. 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]
<b>Protein Families:</b>	Transcription Factors

### Product images:



Coomassie blue staining of purified POLR3E protein (Cat# [TP318588]). The protein was produced from HEK293T cells transfected with POLR3E cDNA clone (Cat# [RC218588]) using MegaTran 2.0 (Cat# [TT210002]).