

Product datasheet for PH318588

POLR3E (NM_018119) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | POLR3E MS Standard C13 and N15-labeled recombinant protein (NP_060589) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC218588 |
| Predicted MW: | 79.7 kDa |
| Protein Sequence: | >RC218588 representing NM_018119 Red =Cloning site Green =Tags(s) |

MANEEDDPVVQEIDVYLAKSLAEKLYLFQYPVRPASMTYDDIPHL SAKIKPKQKQKVELEMAIDTLNPNYC
 RSKGEQIALNVDGACADETSTYSSKLMQKQTFCSSTNTSRYAAALYRQGEHLHTPLHGILQLRPSFS
 YLDKADAKHREREANEAGDSSQDEAEDDVQITVRF SRPESEQARQRRVQSYEFLQKKHAEPPWVHLHY
 YGLRDSRSEHERQYLLCPGSSGVENTELVKSPSEYLMMLPPSQEEKDKPVAPSNVLSMAQLRTLPLAD
 QIKILMKNVVKMPFANLMSLLGPSIDSVAVLRGIQKVAMLVQGNWVVKSDILYPKDSSSPHSGVPAEVL
 RGRDFVMWKFTQSRWVRKEVATVTKLCAEDVKDFLEHMAVVRINKGWEFILPYDGEFIKKHPDVVQRQH
 MLWTGIQAKLEKYYNLVKETMPKKPDQSGPAGLVCGDQRIQVAKTKAQNHALLERELQRRKEQLRVPA
 VPPGVRIKEEPPVSEEGEEDEEQEAEPEMDTSPSGLHSLKLANGLPLGRAAGTDSFNHPPQGCASTPVAR
 ELKAFVEATFQRQFVLTSELKRLFNLHLASLPPGHTLFSGISDRMLQDTVLAAGCKQILVPFPQTAAAS
 PDEQKVFALWESGDMSDQHRQVLLLEIFSKNYRVRNMIQSRLTQECGEDLSKQEVKVLKDCCVSYGGMW
 YLKGTVQS

TRRLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_060589</u> |

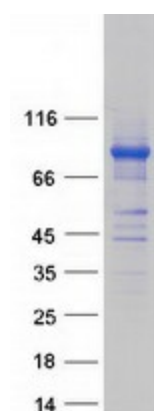

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RefSeq Size: 2640
 RefSeq ORF: 2124
 Synonyms: C37; RPC5; SIN
 Locus ID: 55718
 UniProt ID: [Q9NVU0](#), [Q9NVU0-1](#)
 Cytogenetics: 16p12.2

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. 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]

Protein Families: 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]).