

Product datasheet for PH300279

RPC62 (POLR3C) (NM_006468) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	POLR3C MS Standard C13 and N15-labeled recombinant protein (NP_006459)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200279
Predicted MW:	60.6 kDa
Protein Sequence:	>RC200279 protein sequence Red=Cloning site Green=Tags(s)

MTQAEIKLCSLLLQEHFGEIVEKIGVHLIRTGSQPLRVI AHDGTSLDQVKKALCVLVQHNLVSYQVHKR
GVVEYEAQCSRVLRLRYPRYIYTTKTLYSDTGELIVEELLNGKLTMSAVVKKVADRLTETMEDGKTMD
YAEVSNFVRLADTHFVQRCPSVPTTENS DPGPPPPAPT LVINEKDMYLVPKLSLIGKGRRRSSDEDA
GEPKAKRPKYTTDNKEPIPDGIIYWQANLDRFHQFRDQAI VSAVANRMDQTSSEIVRTMLRMSEITTS
SAPFTQPLSSNEIFRSLPVGYNISQVLDQYL TLLADDPLEFVGKSGDSGGGMYVINLHKALASLATL
ESVVQERFGSRCARIFRLVLQKKHIEQKQVEDF AMIPAKEAKDMLYKMLSENFMSLQEIPKTPDHAPSRT
FYLYTVNILSAARMLLHRCYKSIA NLIERRQFETKENKRLL EKSQRVEAIIASMQATGAEEAQLQEIEEM
ITAPERQQL ETLKRNVNKLDASEIQVDETIFLLESYIECTMKRQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_006459</u>
RefSeq Size:	1888
RefSeq ORF:	1602



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Synonyms: C82; RPC3; RPC62

Locus ID: 10623

UniProt ID: [Q9BUI4](#)

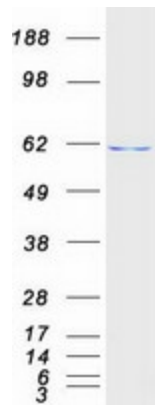
Cytogenetics: 1q21.1

Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the subcomplex RNA Pol III binding to the TFIIB-DNA complex via the interactions between TFIIB and POLR3F. May be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. 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. Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner (PubMed:21358628).[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 POLR3C protein (Cat# [TP300279]). The protein was produced from HEK293T cells transfected with POLR3C cDNA clone (Cat# [RC200279]) using MegaTran 2.0 (Cat# [TT210002]).