

## Product datasheet for PH310633

### POLR3H (NM\_001018050) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	POLR3H MS Standard C13 and N15-labeled recombinant protein (NP_001018060)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210633
Predicted MW:	22.9 kDa
Protein Sequence:	<p>&gt;RC210633 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MFVLVEMVDTVRIPPWQFERKLNDISIAEELNKKLANKVYVNVGLCICLFDITKLEDAYVFPDGDASHTKV            HFRCVVFHPFLDEILIGIKIGCSPEGVHVSLGFFDDILIPPELQPAKFDEAEQVWVWEYETEEGAHDL            YMDTGEEIRFRVDESFDTSPTGPSSADATTSEELPKKEAPYTLVGSISEPGLGLLSWTSN</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001018060</a>
RefSeq Size:	4492
RefSeq ORF:	612
Synonyms:	C25; RPC8; RPC22.9
Locus ID:	171568
UniProt ID:	<a href="#">Q9Y535</a> , <a href="#">A0A024R1P3</a>


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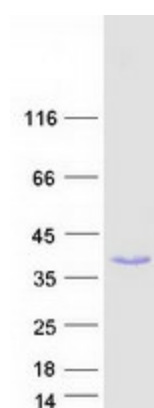
**Cytogenetics:** 22q13.2

**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. 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]).