

## Product datasheet for PH319806

### POLK (NM\_016218) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	POLK MS Standard C13 and N15-labeled recombinant protein (NP_057302)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219806
Predicted MW:	98.6 kDa
Protein Sequence:	>RC219806 representing NM_016218 Red=Cloning site Green=Tags(s)
	<p>MDSTKEKCD SYKDDL LRLMGLNDNKAGMEGLDKEKINKIIMEATKGSRYGNE LKKEKQVNQRIENMMQQ            KAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYAAVEMRDNP ELKDKPIAVGSM SMLSTSN            YHARRFGVRAAMPGFI AKRLCPQLIIVPPNFDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEE            RQNWPEDKRRYFIKMGSSVENDNPGKEVNKLSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQIL            QNSVVFGTSAQEYVVEIRFRIEQKTTLTASAGIAPNTMLAKVCS DKNKPNQYQILPNRQAVMDFIKDLP            IRKVSGIGKVTEKMLKALGIITCTEL YQQRALLSLLFSETSWHYFLHISLGLGSTHLTRDGERKSMSVER            TFSEINKAEEQYSLCQELCSELAQDLQKERLKGRTVTIKLKNVNFVKT RASTVSSVSTAEEIFAIAKE            LLKTEIDADFPHPLRLRMGVRISSFPNEEDRKHQQRSIIGFLQAGNQALSATECTLEKTDKDFVKPLE            MSHKKSFFDKRSERKWSHQDTFKCEAVNKQSFQTSQPFQVLKKKMNENLEI SENSDDCQILTCPVCFRA            QGCISLEALNKHVDECLDGP SISENFKMFSCSHVSATKV NKKENVPASSLCEKQDYEAHPKIKEISSVDC            IALVDTIDNSSKAESIDALSNKHSKEECSSLPKSFNIEHCHQNSSTV SLENEVDVGSFRQYRQPYLCE            VKTGQALVCPVCNVEQKTSDLTLFNVHVDVCLNKSF IQELRKDKFNPVNQPKESSRSTGSSSGVQKAVTR            TKRPGLMTKYSTSKKIKPNNPKHTLDIFFK</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</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.



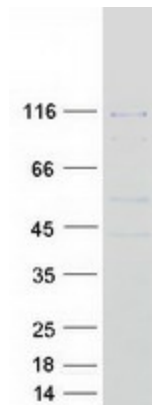
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RefSeq:	<a href="#">NP_057302</a>
RefSeq Size:	4074
RefSeq ORF:	2610
Synonyms:	DINB1; DINP; POLQ
Locus ID:	51426
UniProt ID:	<a href="#">Q9UBT6</a> , <a href="#">A0A024RAP4</a>
Cytogenetics:	5q13.3

**Summary:** This gene encodes a member of the DNA polymerase type-Y family of proteins. The encoded protein is a specialized DNA polymerase that catalyzes translesion DNA synthesis, which allows DNA replication in the presence of DNA lesions. Human cell lines lacking a functional copy of this gene exhibit impaired genome integrity and enhanced susceptibility to oxidative damage. Mutations in this gene that impair enzyme activity may be associated with prostate cancer in human patients. [provided by RefSeq, Sep 2016]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified POLK protein (Cat# [TP319806]). The protein was produced from HEK293T cells transfected with POLK cDNA clone (Cat# [RC219806]) using MegaTran 2.0 (Cat# [TT210002]).