

Product datasheet for **TP319806M**

POLK (NM_016218) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (DNA directed) kappa (POLK), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219806 representing NM_016218 Red =Cloning site Green =Tags(s)

MDSTKEKCDYKDDLLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRYFGNELKKEKQVNQRIENMMQQ
KAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYAAVEMRDNPDKPIAVGSMMLSTSN
YHARRFGVRAAMPGFIAKRLCPQLIIVPPNFDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEE
RQNWPEDKRRYFIKMGSSVENDNPGKEVNLSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQIL
QNSVFGTSAQEVVKEIRFRIEQKTTLTASAGIAPNTMLAKVCSDKNKPNGQYQILPNRQAVMDFIKDLP
IRKVSIGIGKVTEKMLKALGIITCTELYQQRALLSLLFSETSWHYFLHISLGLGSTHLTRDGERKSMSVER
TFSEINKAEEQYSLCQELCSELAQDLQKERLKGRTVTIKLKNVNFVKTRASTVSSVSTAEEIFAIKE
LLKTEIDADFPPLRLRLMGVRISSFPNEEDRKHQQRSIIGFLQAGNQALSATECTLEKTDKDKFVKPLE
MSHKKSFFDKKRSEKWSHQDTFKCEAVNKQSFQTSQPFQVLKMMNENLEISENSDDCQILTCPVCFRA
QGCISLEALNKHVDECLDGPSENFKMFSCSHVSATKVNKKENVPASSLCEKQDYEAHPKIKEISSVDC
IALVDTIDNSSKAESIDALSNKHSKEECSSLPKSFNIEHCHQNSSTVLENEVDVGSFRQYRQPYLCE
VKTGQALVCPVCNVEQKTSDLTLFNVHVDVCLNKSFIQELRKDKFNPVNQPKESSRSTGSSSGVQKAVTR
TKRPGMLTKYSTSKKIKPNNPKHTLDIFFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

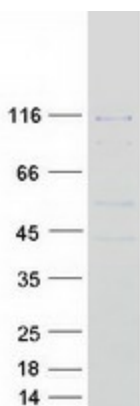
Tag:	C-Myc/DDK
Predicted MW:	98.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_057302
Locus ID:	51426
UniProt ID:	Q9UBT6 , A0A024RAP4
RefSeq Size:	4074
Cytogenetics:	5q13.3
RefSeq ORF:	2610
Synonyms:	DINB1; DINP; POLQ
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]).