

Product datasheet for **TP309992M**

POLD4 (NM_021173) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (DNA-directed), delta 4 (POLD4), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209992 protein sequence Red =Cloning site Green =Tags(s)
	 MGRKRLITDSYPVVKRREGPAGHSGELAPELGEEPQPRDEEEAELELLRQFDLAWQYGPCTGITRLQRW CRAKHMGLEPPPEVWQVLKTHPGDPRFQCSLWHLPL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	12.3 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.
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_066996
Locus ID:	57804
UniProt ID:	Q9HCU8 , A0A024R5D7 , Q6NSD7
RefSeq Size:	1751
Cytogenetics:	11q13.2



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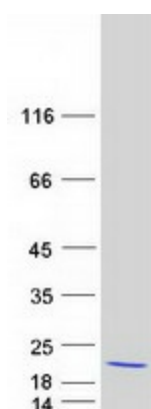
RefSeq ORF: 321

Synonyms: p12; POLDS

Summary: This gene encodes the smallest subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The encoded protein enhances the activity of DNA polymerase delta and plays a role in fork repair and stabilization through interactions with the DNA helicase Bloom syndrome protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Protein Pathways: Base excision repair, DNA replication, Homologous recombination, Metabolic pathways, Mismatch repair, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified POLD4 protein (Cat# [TP309992]). The protein was produced from HEK293T cells transfected with POLD4 cDNA clone (Cat# [RC209992]) using MegaTran 2.0 (Cat# [TT210002]).