

## Product datasheet for TP309992

### POLD4 (NM\_021173) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (DNA-directed), delta 4 (POLD4), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209992 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MGRKRLITDSYPVVKRREGPAGHSGELAPELGEEPQPRDEEEAELELLRQFDLAWQYGPCTGITRLQRW CRAKHMGLEPPPEVWQVLKTHPGDPRFQCSLWHLPL
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
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:	<a href="#">NP_066996</a>
Locus ID:	57804
UniProt ID:	<a href="#">Q9HCU8</a> , <a href="#">A0A024R5D7</a> , <a href="#">Q6NSD7</a>
RefSeq Size:	1751
Cytogenetics:	11q13.2



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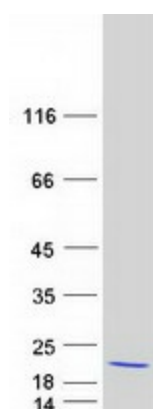
RefSeq ORF: 321

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]).