

## Product datasheet for TP325794

### DNA polymerase delta p50 (POLD2) (NM\_001127218) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (DNA directed), delta 2, regulatory subunit 50kDa (POLD2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225794 protein sequence Red=Cloning site Green=Tags(s)

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATR LIQMRPFLENRAQ  
QHWGSGVGVKKLCELQPEEKCCVGT LFKAMPLQPSILREVSEEHNLLQPPRSKYIHPDDELVLEDELQ  
RIKLGKGTIDVSKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGLGLGGGGGE  
SLLGTQLLVDWVTGQLGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLT KKTQAASVEAVKMLD  
EILLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVS  
DIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPE  
QTVLLVTVPDFSATQTAACLNLRLSLACQPISFSGFGAEDDDLGLGLGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	51.1 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.



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RefSeq: [NP\\_001120690](#)

Locus ID: 5425

UniProt ID: [P49005](#)

RefSeq Size: 1821

Cytogenetics: 7p13

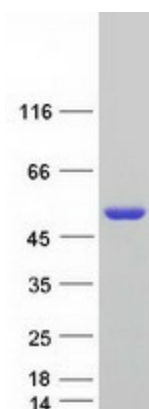
RefSeq ORF: 1407

**Summary:** This gene encodes the 50-kDa catalytic 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 is required for the stimulation of DNA polymerase delta activity by the processivity cofactor proliferating cell nuclear antigen (PCNA). Expression of this gene may be a marker for ovarian carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Mar 2012]

**Protein Families:** Stem cell - Pluripotency

**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 POLD2 protein (Cat# TP325794). The protein was produced from HEK293T cells transfected with POLD2 cDNA clone (Cat# [RC225794]) using MegaTran 2.0 (Cat# [TT210002]).