

## Product datasheet for **TP303462L**

### **POLG2 (NM\_007215) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human polymerase (DNA directed), gamma 2, accessory subunit (POLG2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203462 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRSRVAVRACHKVCRCLLSGFGGRVDAGQPELLTERSSPKGGHVKSHAELEGNGEHPEAPGSGEGSEALL  
EICQRRHFLSGSKQQLSRDSSLGCHPGFGPLGVELRKNLAAEWWTSSVVFREQVFPVDALHHKPGPLLP  
GDSAFRLVSAETLREILQDKELSKEQLVAFLNVLKTSGKLRNLLHGALEHYVNCLDLVNKRLPYGLAQ  
IGVCFHPVFDTKQIRNGVKSIGEKTEASLVWFTPPRTSNQWLDFWLRHRLQWWRKFAMSPSNFSSDCQD  
EEGRKGNKLYNFPWKGKELIETLWNLGDHELLHMYPGNVSKLHGRDGRKNVWPCVLSVNGDLDRGMLAYL  
YDSFQLTENSFTRKKNLHRKVLKLPCLAPIKVALDVGRGPTLELRQVCQGLFNELLENGISVWPAYLET  
MQSSLEQLYSKYDEMSILFTVLVTETTLENGLIHLRSRDTTMKEMMHISKLKDFLIKYISSAKNV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	54.7 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\\_009146](#)

Locus ID: 11232

UniProt ID: [Q9UHN1](#), [E5KS15](#)

RefSeq Size: 1607

Cytogenetics: 17q23.3

RefSeq ORF: 1455

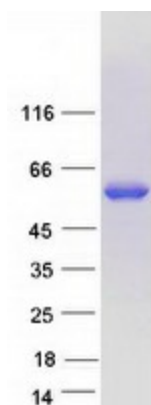
Synonyms: HP55; MTDP516; MTPOLB; PEOA4; POLB; POLG-BETA; POLGB

**Summary:** This gene encodes the processivity subunit of the mitochondrial DNA polymerase gamma. The encoded protein forms a heterotrimer containing one catalytic subunit and two processivity subunits. This protein enhances DNA binding and promotes processive DNA synthesis. Mutations in this gene result in autosomal dominant progressive external ophthalmoplegia with mitochondrial DNA deletions.[provided by RefSeq, Sep 2009]

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Metabolic pathways

### Product images:



Coomassie blue staining of purified POLG2 protein (Cat# [TP303462]). The protein was produced from HEK293T cells transfected with POLG2 cDNA clone (Cat# [RC203462]) using MegaTran 2.0 (Cat# [TT210002]).