

## Product datasheet for PH303462

### POLG2 (NM\_007215) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	POLG2 MS Standard C13 and N15-labeled recombinant protein (NP_009146)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203462
Predicted MW:	54.9 kDa
Protein Sequence:	>RC203462 protein sequence Red=Cloning site Green=Tags(s)

MRSRVAVRACHKVCRCLLSGFGGRVDAGQPELLTERSSPKGGHVKSHAELEGNGEHPEAPGSSEGSEALL  
EIQRRHFLSGSKQQLSRDSSLGCHPGFGLGVELRKNLAAEWWTSVVVFREQVFPVDALHHKPGPLLP  
GDSAFRLVSAETLREILQDKLSKEQLVAFLENVLKTSGKLRNLLHGALEHYVNCLDLVNKRLPYGLAQ  
IGVCFHPVFDTKQIRNGVKSIGEKTEASLVWFPTPRTSNQWLDLFWLRHRLQWWRKFAMSPSNFSSSDCQD  
EEGRKGNKLYYNFPWGKELIETLWNLGDHELLHMYPGNVSKLHGRDGRKNVVPVCLSVNGDLDRGMLAYL  
YDSFQLTENSFTRKKNLHRKVLKLPCLAPIKVALDVGRGPTLELRQVCQGLFNELLENGISVWPAYLET  
MQSSLEQLYSKYDEMSILFTVLVTETTLENGLIHLRSRDTMKEMMHISKLDFLIKYISSAKNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_009146</u>
RefSeq Size:	1607
RefSeq ORF:	1455
Synonyms:	HP55; MTDPS16; MTPOLB; PEOA4; POLB; POLG-BETA; POLGB



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Locus ID: 11232

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

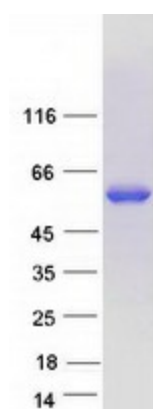
Cytogenetics: 17q23.3

**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]).