

Recombinant Full Length Human POLG2 Protein, C-Flag-tagged

Cat. No. POLG2-293HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human POLG2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.7 kDa
AA Sequence	MRSRVAVRACHKVCRCLLSGFGGRVDAGQPPELLTERSSPKGGHVKSHAELEGNGE HPEAPGSGEGSEALL EICQRRHFLSGSKQQLSRDSLLSGCHPGFGPLGVLRKNLA AEWWTSVVVFREQVFPVDALHHKPGPLLP GDSAFRLVSAETLREILQDKELSKEQL VAFLENVLKTSGKLRENLLHGALEHYVNCLDLVNKRLPYGLAQ IGVCFHPVFDTKQI RNGVKSIGEKTEASLVWFTPPRTSNQWLDFWLRHRLQWWRKFAMSPSNFSSSDC QD EEGRKGNKLYNFPWVGKELIETLWNLGDHELLHMYPGNVSKLHGRDGRKNVV PCVLSVNGDLDRGMLAYL YDSFQLTENSFTRKKNLHRKVLKLHPCLAPIKVALDVGR

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GPTLELRQVCQGLFNELLENGISVWPAYLET MQSSLEQLYSKYDEMSILFTVLVTET
TLENGLIHLRSRDTTMKEMMHISKLKDFLIKYISSAKNVTRTRPLEQKLISEEDLAANDI
LDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Stem cell - Pluripotency
Protein Pathways	Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	POLG2 DNA polymerase gamma 2, accessory subunit [Homo sapiens (human)]
Official Symbol	POLG2
Synonyms	HP55; POLB; PEOA4; POLGB; MTPOLB; MTDPS16; MTDPS16A; MTDPS16B; POLG-BETA

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Gene ID	11232
mRNA Refseq	NM_007215.4
Protein Refseq	NP_009146.2
MIM	604983
UniProt ID	Q9UHN1



Coomassie blue staining of purified POLG2 protein.