

# Recombinant Human POLG2 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP07836

**Protein Name:** Polymerase (Dna) Gamma 2, Accessory Subunit (POLG2)

**Aliases:** HP55; PEOA4; POLGB; MTPOLB; MTDPS16; MTDPS16A; MTDPS16B; POLG-BETA; polymerase (DNA) gamma 2, accessory subunit; DNA polymerase subunit gamma-2, mitochondrial; mitochondrial DNA polymerase, accessory ...

**UniProt ID:** Q9UHN1

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q9UHN1/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Full Length (1-485aa)

**Molecular Weight:** 70.9kDa

**Protein Tag:** N-terminal 6xHis-SUMO-tagged

## 2. Amino Acid Sequence (1-485aa)

MRSRVAVRACHKVCRCLLSGFGGRVDAGQPELLTERSSPKGGHVKSHAELEGNG  
EHPEAPGSSEGEALLEICQRRHFLSGSKQQLSRDLSLLSGCHPGFGPLGVELRKNL  
AAEWWTSSVVVFREQVFPVDALHHKPGPLLPGDSAFRLVSAETLREILQDKELSKEQ  
LVAFLENVLKTSGLRENLLHGALEHYVNCLDLVKNRLLPYGLAQIGVCFHPVFDTKQ  
IRNGVKSIGEKTEASLVWFTPPRTSNQWLDFWLRHRLQWWRKFAMSPSNFSSSDC  
QDEEGRKGNKLYNFPWKGELIETLWNLGDHELLHMYPGNVSKLHGRDGRKNVV  
PCVLSVNGDLDRGMLAYLYDSFQLTENSFTRKKNLHRKVLKLHPCLAPIKVALDVGR  
GPTLELRQVCQGLFNELLENGISVWPGYLETMQSSLEQLYSKYDEMSILFTVLVTET  
TLENGLIHLRSRDTTMKEMMHISKLKDFLIKYISSAKNV

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human POLG2 full length protein (1-485aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. POLG2, also known as HP55 or PEOA4 or POLGB, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.