

# Recombinant strain 168 polA

## Protein Product Manual

### 1. Product Basic Information

**Product No.:** REP07832

**Protein Name:** Dna Polymerase I (polA)

**Aliases:** polA; pol1; DNA polymerase I; thermostable; EC 2.7.7.7

**UniProt ID:** P19821

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P19821/entry>

**Species Source:** Bacillus subtilis (strain 168)

**Expression System:** E.coli

**Protein Length:** Partial (297-880aa)

**Molecular Weight:** 72.8 kDa

**Protein Tag:** C-terminal 6xHis-tagged

### 2. Amino Acid Sequence (297-880aa)

DQSLEDINVKTVTDVTSDILVSPSAFVVEQIGDNYHEEPILGFSIVNETGAYFIPKDI  
AV ESEVFKEWVENDEQKKWVFDSKRAVVALRWQGIELKGAEFDTLLAAYIINPGNSYD  
DVASVAKDYGLHIVSSDES VYGKAKRAVPS EDVLSEHLGRKALAIQSLREKLVQEL  
ENNDQLELFEELEMP LALILGEMESTGVKVDVDR LKRMGEELGAKLKEYE EKIHEIA  
GEPFNINSPKQLGVILFEKIGLPVVKTKTGYSTSADVLEKLADKH DIVDYILQYRQIG  
KLQSTYIEGLLKVTRPDSHKVHTRFNQALTQTGR LSSTDPNLQNIPIRLEEGRKIRQA  
FVPSEKDWLIFAADYSQIELRVLAHISKDENLIEAFTNDMDIHTKTAMDVFHVAKDEV  
TSAMRRQAKAVNFGIVYGISDYGLSQNLGITRKEAGAFIDRYLESFQGVKAYMEDSV  
QEAKQKGYVTTLMHRRRYIPELTSRNFNIRSFAERTAMNTPIQGSAA DIKKAMIDMA  
AKLKEKQLKARLLLQVHDELIFEAPKEEIEILEKLVPEVMEHALALDVPLKVDFASGPS  
WYDAK

### 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 strain 168 polA partial protein (297-880aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. polA, also known as polA or pol1 or DNA polymerase I, 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.