

Datasheet for ABIN7555047  
**POLI Protein (AA 1-740) (His tag)**



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## Overview

Quantity:	1 mg
Target:	POLI
Protein Characteristics:	AA 1-740
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLI protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant POLI Protein expressed in mammalian cells.
Sequence:	MEKLGVEPEE EGGGDDDEED AEAWAMELAD VGAAASSQGV HDQVLPTPNA SSRVIVHVDL DCFYAQVEMI SNPELKDKPL GVQQKYLWVT CNYEARKLGV KKLMNVRDAK EKCPQLVLVN GEDLTRYREM SYKVTELLEE FSPVVERLGF DENFVDLTEM VEKRLQQLQS DELSAVTVSG HVYNNQSINL LDVLHIRLLV GSQIAAEMRE AMYNQLGLTG CAGVASNKLL AKLVSGVFKP NQQTVLLPES CQHLIHSLNH IKEIPGIGYK TAKCLEALGI NSVRDLQTFS PKILEKELGI SVAQRIQKLS FGEDNSPVIL SGPPQSFSEE DSFKKCSSEV EAKNKIEELL ASLLNRVCQD GRKPHTVRLI IRRYSSEKHY GRESRQCPIP SHVIQKLG TG NYDVMTMPVD ILMKLFNMV NVKMPFHLTL LSVCFCNLKA LNTAKKGLID YYLMPSLSTT SRSGKHSFKM KDTHMEDFPK DKETNRDFLP SGRIESTRTR ESPLDTTNFS KEKDINEFPL CSLPEGVDQE VFKQLPVDIQ EEILSGKSRE KFQKGGSVSC PLHASRGVLS FFSKKQMQDI PINPRDHLSS SKQVSSVSPC EPGTSGFNSS SSSYMSSQKD YSYLDNRLK DERISQGPKE PQGFHFTNSN PAVSAFHSP NLQSEQLFSR NHTTDSHKQT VATDSHEGLT ENREPDSVDE KITFPSDIDP QV FYELPEAV

## Product Details

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QKELLAEWKR AGSDFHIGHK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** POLI

**Alternative Name:** POLI ([POLI Products](#))

**Background:** DNA polymerase iota (EC 2.7.7.7) (Eta2) (RAD30 homolog B),FUNCTION: Error-prone DNA polymerase specifically involved in DNA repair (PubMed:11013228, PubMed:11387224). Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:11013228, PubMed:11387224, PubMed:14630940, PubMed:15199127). Favors Hoogsteen base-pairing in the active site (PubMed:15254543). Inserts the correct base with high-fidelity opposite an adenosine template (PubMed:15254543). Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine (PubMed:11013228). May play a role in hypermutation of

## Target Details

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immunoglobulin genes (PubMed:12410315). Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (PubMed:11251121, PubMed:14630940). {ECO:0000269|PubMed:11013228, ECO:0000269|PubMed:11251121, ECO:0000269|PubMed:11387224, ECO:0000269|PubMed:12410315, ECO:0000269|PubMed:14630940, ECO:0000269|PubMed:15199127, ECO:0000269|PubMed:15254543}.

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Molecular Weight: 83.0 kDa

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UniProt: [Q9UNA4](#)

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Pathways: [DNA Damage Repair](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months