

## Recombinant Human POLI protein, GST-tagged

**Cat. No.** POLI-1835H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human POLI protein (1-340aa) was fused to GST-tag and expressed in E.coli.                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-340 a.a.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | The protein encoded by this gene is an error-prone DNA polymerase involved in DNA repair. The encoded protein promotes DNA synthesis across lesions in the template DNA, which other polymerases cannot do. The encoded polymerase inserts deoxynucleotides across lesions and then relies on DNA polymerase zeta to extend the nascent DNA strand to bypass the lesion. |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). 5% trehalose and 5% mannitol are added as protectants before lyophilization.                                                                                                                                    |
| <b>Molecular Mass</b>   | 63 kDa                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MELADVGAASSQGVHDQVLPTPNASSRVIVHVDLDCFYAQVEMISNPELKDKPLG<br>VQQKYLVTTCNYEARKLGVKKLMNVRDAKEKCPQLVLVNGEDLTRYREMSYKVTEL<br>LEEFSPVVERLGFDENFVDLTEMVEKRLQQQLQSDELSAVTVSGHVVYNNQSINLLDVL<br>HIRLLVGSQIAAEMREAMYNQLGLTGCAVASNKLLAKLVSGVFKPNQQQTVLLPESC                                                                                                                          |

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QHLIHSLNHIKEIPGIGYKTAKCLEALGINSVRDLQTFSPKILEKELGISVAQRIQKLSFG  
EDNSPVILSGPPQSFSEEDSFKKCSSEVEAKNKIEELLASLLNRVCQDGRKPH

**Purity**

95%, by SDS-PAGE with Coomassie Brilliant Blue staining.

**Storage**

Short-term storage: Store at 2-8°C for (1-2 weeks).  
Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.  
Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage.  
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).  
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

**Gene Name**

POLI

**Official Symbol**

POLI

**Synonyms**

eta2; RAD30B; RAD3OB

**Gene ID**

11201

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**mRNA Refseq** [NM\\_007195.2](#)

**Protein Refseq** [NP\\_009126.2](#)

**MIM** [605252](#)

**UniProt ID** [Q9UNA4](#)

**SDS-PAGE of POLI-1835H**



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