

## Product datasheet for TP309566M

### DNA Primase (PRIM2) (NM\_000947) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human primase, DNA, polypeptide 2 (58kDa) (PRIM2), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC209566 protein sequence  
Red=Cloning site Green=Tags(s)

MEFSGRKWRKRLLAGDQRNASYPHCLQFYLPPESENISLIEFENLAIDRVKLLKSVENLGVSIVKGTQY  
QSKLESELRKLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQQEMDLLRFRFSILPKDKI  
QDFLKDSQLQFEAISDEEKTREQEIVASSPSLSGLKGFESIYKIPFADALDLFRGRKVYLEDGFAYVP  
LKDIVAIIINEFRAKLSKALALTARSLPAVQSDERLQPLLNHLSHSYTGQDYSTQGNVNGKISLDQIDLLS  
TKSFPPCMRQLHKALRENHHLRHGGRMQYGLFLKIGILTLEQALQFWKQEFIKGMDPDKFDKGYSYNIR  
HSFGKEGKRTDYTPFSCLKIILSNPPSQGDYHGCPFRHSDPELLKQKLQSYKISPGGISQILDVKGTHY  
QVACQKYFEMIHNVDCCGFSLNHPNQFFCESQRILNNGGKDIKKEIQPETPQPKPSVQKTKDASSALASL  
NSSLEMDMEGLEDYFSEDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 58.6 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000938](#)

Locus ID: 5558

UniProt ID: [P49643](#)

RefSeq Size: 2322

Cytogenetics: 6p11.2

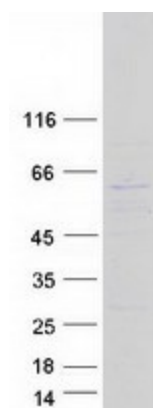
RefSeq ORF: 1527

Synonyms: p58; PRIM2A

**Summary:** This gene encodes the 58 kilodalton subunit of DNA primase, an enzyme that plays a key role in the replication of DNA. The encoded protein forms a heterodimer with a 49 kilodalton subunit. This heterodimer functions as a DNA-directed RNA polymerase to synthesize small RNA primers that are used to create Okazaki fragments on the lagging strand of the DNA. Alternative splicing of this gene results in multiple transcript variants. This gene has a related pseudogene, which is also present on chromosome 6. [provided by RefSeq, Apr 2014]

**Protein Pathways:** DNA replication, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

### Product images:



Coomassie blue staining of purified PRIM2 protein (Cat# [TP309566]). The protein was produced from HEK293T cells transfected with PRIM2 cDNA clone (Cat# [RC209566]) using MegaTran 2.0 (Cat# [TT210002]).