

Product datasheet for PH309566

DNA Primase (PRIM2) (NM_000947) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PRIM2 MS Standard C13 and N15-labeled recombinant protein (NP_000938)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209566
Predicted MW:	58.8 kDa
Protein Sequence:	>RC209566 protein sequence Red=Cloning site Green=Tags(s)

MEFSGRKRWRKLRLAGDQRNASYPHCLQFYLQPPSENISLIEFENLAIDRVKLLKSVENLGVSYVKGTEQY
QSKLESELRKLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQQEMDLLRFRFSILPKDKI
QDFLKDSQLQFEAISDEEKTREQEIVASSPSLSGLKLGFEISYKIPFADALDLFRGRKVVYLEDGFAYVP
LKDIVAIIILNEFRAKLSKALALTARSLPAVQSDERLQPLLNHLSHSYTGQDYSTQGNVGIISLDQIDLLS
TKSFPPCMRQLHKALRENHHLRHGGRMQYGLFLKGIQLTLEQALQFWKQEFIKGKMDPKDFDKGYSYNIR
HSFGKEGKRTDYTPFSCLKIILSNPPSQGDYHGCPFRHSDPELLKQKLQSYKISPGGISQILDLVKGT
HYQVACQYFEMIHNVDCCGFSLNHPNQFFCESQRILNCGKDIKKEPIQPETPQPKPSVQTKDASSALASL
NSSLEMDMEGLEDYFSEDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000938</u>
RefSeq Size:	2322
RefSeq ORF:	1527



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Synonyms: p58; PRIM2A

Locus ID: 5558

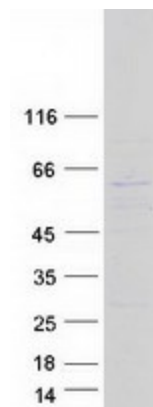
UniProt ID: [P49643](#)

Cytogenetics: 6p11.2

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]).