

Product datasheet for **TP309647L**

HMBOX1 (NM_024567) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human homeobox containing 1 (HMBOX1), transcript variant 1, 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC209647 protein sequence
Red=Cloning site **Green**=Tags(s)

MLSSFPVWLETMSHYTDEPRFTIEQIDLLQRLRRTGMTKHEILHALETLDRLDQEHSDKFGRRSSYGGG
SYGNSTNNVPASSSTATASTQTQHSGMSPSPNSYDTSPQPCTTNQNGRENNERLSTSNKGKMSPTRYHAN
SMGQRSYSFEASEEDLDVDDKVEELMRRDSSVIKKEIKAFANRRISQAWAQVTGISQSRISHWLLQQG
SDLSEQKKRAFWRWYQLEKTNPGATLSMRPAPIEDPEWRQTPPPVSATSGTFRLRRGSRFTWRKECLA
VMESYFNENQYPDEAKREEIANACNAVIQKPGKLSLDERVTSKLVYNWFANRRKEIKRRANIEAAILES
HGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMA AVNHTILALARQGANEIKTEALDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

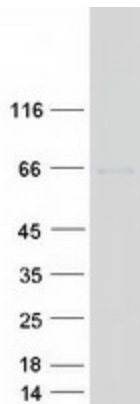
Tag: C-Myc/DDK
Predicted MW: 47.1 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity 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.
RefSeq: [NP_078843](#)
Locus ID: 79618



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| | |
|-------------------|---|
| UniProt ID: | Q6NT76 |
| RefSeq Size: | 3233 |
| Cytogenetics: | 8p21.1-p12 |
| RefSeq ORF: | 1260 |
| Synonyms: | HNF1LA; HOT1; PBHNF; TAH1 |
| Summary: | Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA (PubMed:23813958, PubMed:23685356). Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation (PubMed:23685356). Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (By similarity). Also plays a role in the alternative lengthening of telomeres (ALT) pathway in telomerase-negative cells where it promotes formation and/or maintenance of ALT-associated promyelocytic leukemia bodies (APBs) (PubMed:23813958). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination (PubMed:23813958). Might also be involved in the DNA damage response at telomeres (PubMed:23813958).[UniProtKB/Swiss-Prot Function] |
| Protein Families: | Transcription Factors |

Product images:



Coomassie blue staining of purified HMBOX1 protein (Cat# [TP309647]). The protein was produced from HEK293T cells transfected with HMBOX1 cDNA clone (Cat# [RC209647]) using MegaTran 2.0 (Cat# [TT210002]).