

Product datasheet for TP309647M

HMBOX1 (NM_024567) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human homeobox containing 1 (HMBOX1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209647 protein sequence Red=Cloning site Green=Tags(s)

MLSSFPVWLETMSHYTDEPRFTIEQIDLLQRLRRTGMTKHEILHALETLDRLDQEHSDKFGRRSSYGGG
SYGNSTNNVPASSSTATASTQTQHSGMSPSPSNSYDTSPQPCTTNQNGRENNERLSTSNKGKMSPTRYHAN
SMGQRSYSFEASEEDLDVDDKVEELMRRDSSVIKKEIKAFLANRRISQAWAQVTGISQSRISHWLLQQG
SDLSEQKKRAFWRWYQLEKTNPGATLSMRPAPIEDPEWRQTPPPVSATSGTFRLRRGSRFTWRKECLA
VMESYFNENQYPDEAKREEIANACNAVIQKPGKLSLDERVTSKLVYNWFANRRKEIKRRANIEAAILES
HGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMA AVNHTILALARQGANEIKTEALDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

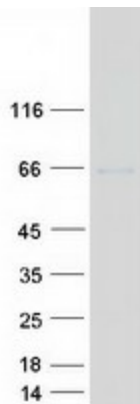
Tag:	C-Myc/DDK
Predicted MW:	47.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity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