

Product datasheet for PH309647

HMBOX1 (NM_024567) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HMBOX1 MS Standard C13 and N15-labeled recombinant protein (NP_078843)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209647
Predicted MW:	47.3 kDa
Protein Sequence:	>RC209647 protein sequence Red=Cloning site Green=Tags(s)

MLSSFPVVLETM SHYTDEPRFTIEQIDLLQRLRRTGMTKHEILHALETLDRLDQEHSDKFGRRSSYGGG
SYGNSTNNVPASSSTATASTQTQHSQMSPSPNSYDTSQPCTTNQNGRENNERLSTSNKMSPTRYHAN
SMGQRSYSFEASEEDLDVDDKVEELMRRDSSVIKKEIKAFANRRISQAVVAQVTGISQSRI SHWLLQQG
SDLSEQKKRAFYRWYQLEKTNPGATLSMRPAPIEDPEWRQTPPPVSATSGTFRLRRGSRFTWRKECLA
VMESYFNENQYPDEAKREEIANACNAVIQKPGKKLSDLERVTSKVVYNWFANRRKEIKRRANIEAAILES
HGIDVQSPGGHSNDDVDGNDYSEQDDSTSHSDHQDPISLAVEMA AVNHTILALARQGANEIKTEALDDD

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:	NP_078843
RefSeq Size:	3233
RefSeq ORF:	1260
Synonyms:	HNF1LA; HOT1; PBHNF; TAH1
Locus ID:	79618



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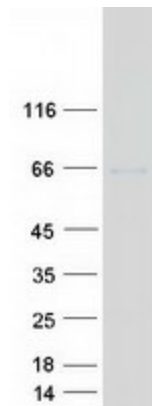
UniProt ID: [Q6NT76](#)

Cytogenetics: 8p21.1-p12

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]).