

Product datasheet for **TP506358**

Hmbox1 (BC051457) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse homeobox containing 1 (cDNA clone MGC:56991 IMAGE:6398463), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR206358 protein sequence
Red=Cloning site **Green**=Tags(s)

MLSSFPVWVLEETMSHYTDEPRFTIEQIDLLQRLRRTGMTKHEILHALETLDRLDQEHSDKFGRRSSYGGS
SYGNSTNNVPASSSTATASTQTQHSGMSPSPNSYDTSPLPCTTNQNGRENNDRLLSTSNGKMSPSRYHAN
SMGQRSYSFEASEEDLDVDDKVEELMRRDSSVIKKEIKAFANRRISQAVVAQVTGISQSRISHWLLQQG
SDLSEQKKRAFYRWYQLEKTNPGATLSMRPAPIEDPEWRQTPPPVSATPGTFRLRRGSRFTWRKECLA
VMESYFNENQYPDEAKREEIANACNAVIQKPGKLSDLERVTSLKVYNWFANRRKEIKRRANIEAAILES
HGIDVQSPGGHSNSDDVDGNDYSEQSSFAGALIQLERQKGGPPGCQQLPVLSGLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 45.4 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

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 after receiving vials.

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

Locus ID: 219150

UniProt ID: [Q8BJA3](#)



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RefSeq Size: 3435

Cytogenetics: 14 D1

RefSeq ORF: 1212

Synonyms: AI451877; AI604847; F830020C16Rik

Summary: Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA (By similarity). Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation (By similarity). Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (PubMed:23685356). 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) (By similarity). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination (By similarity). Might also be involved in the DNA damage response at telomeres (By similarity).[UniProtKB/Swiss-Prot Function]