Recombinant Mouse Hmbox1 Protein, Myc/DDK-tagged

Cat. No. Hmbox1-3409M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length homeobox containing 1 (cDNA clone MGC:56991 IMAGE:6398463), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA. Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation. Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres. 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). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination. Might also be involved in the DNA damage response at telomeres.
Molecular Mass	45.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Hmbox1 homeobox containing 1 [Mus musculus (house mouse)]
Official Symbol	Hmbox1
Synonyms	Hmbox1; homeobox containing 1; AI451877; AI604847; F830020C16Rik; homeobox-containing protein 1
Gene ID	219150
mRNA Refseq	NM_177338
Protein Refseq	NP_796312
UniProt ID	Q8BJA3

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