

Product datasheet for MC212703

Hmbox1 (NM_177338) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmbox1 (NM_177338) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hmbox1
Synonyms: AI451877; AI604847; F830020C16Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212703 representing NM_177338
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCAGCTCCTTTCCAGTGGTTTTGCTGGAACCATGTCTCACTACACAGATGAACCCAGATTTACCA
 TAGAACAGATAGACCTGCTCCAGCGTCTTCGGCGTACCGGGATGACCAAACATGAAATCCTTCATGCATT
 AGAAACTTTGGACCGTCTTGATCAAGAGCATAGTGATAAATTTGGAAGGAGGTCCAGCTACGGGGGAAGC
 TCATATGGGAACAGTACCAACAACGTTCCAGCATCTTCCTCTACAGCCACAGCTTCCACGCAGACCCAGC
 ACTCGGGAATGTCCCATCACCCAGCAACAGTTACGATACCTCCCACTGCCTTGCACTACCAATCAAAA
 TGGGAGGGAGAACAATGATCGATTGTCCACATCCAATGGGAAGATGTCACCATCTCGCTACCATGCAAAAC
 AGCATGGGTGAGAGGTATATAGCTTTGAGGCCTCAGAAGAGGACCTAGATGTAGATGATAAAGTGGAGG
 AATTAATGAGGAGGGACAGCAGTGTGATAAAGAGGAAATCAAAGCCTTTCTTGCCAATCGGAGGATTTCC
 CCAAGCAGTTGTTGCACAGGTAACAGGAATCAGTCAGAGTCGAATCTCTCACTGGCTGCTGCAGCAGGGA
 TCAGATCTGAGTGAGCAGAAGAAAAGGGCGTTCTACCGATGGTATCAACTTGAGAAGACAAACCCCTGGGG
 CTACGCTAAGTATGAGACCTGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACACCTCCCCAGT
 CTCCGCCACACCTGGAACCTTCGGCTTCGACGAGGGAGTAGATTTACCTGGAGAAGGAGTGCCCTAGCT
 GTCATGGAAGTTACTTCAATGAGAACCAGTACCCAGATGAAGCAAGAGAGAAGAAATTGCCAATGCTT
 GCAATGCAGTCATACAGAAGCCAGGCAAAAAGCTGTCTGACCTGGAACGAGTTACCTCTCTGAAAGTATA
 TAATTGGTTTGCTAATCGACGGAAGGAGATCAAGAGAAGAGCCAAATATCGCAGCAATCCTGGAGAGTCAT
 GGGATAGATGTACAGAGTCCAGGAGGCCATTCCAACAGTGACGATGTGGACGGGAACGACTACTCCGAGC
 AGGATGACAGCACCAGCCATAGTGACCACCAAGATCCCATCTCGTAGCTGTGGAGATGGCGCCGTCAA
 CCACACTATCTTGGCATTGGCCCGCAGGGAGCCAATGAAATCAAGACAGAGGCCCTGGATGATGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_177338
Insert Size:	1260 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_177338.5 , NP_796312.2
RefSeq Size:	2931 bp
RefSeq ORF:	1260 bp
Locus ID:	219150
UniProt ID:	Q8BJA3
Cytogenetics:	14 D1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) has the same N- and C-termini, but is one aa shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>