

Product datasheet for **SC215367**

HMBOX1 (NM_024567) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	HMBOX1 (NM_024567) Human 3' UTR Clone
Symbol:	HMBOX1
Synonyms:	HNF1LA; HOT1; PBHNF; TAH1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_024567
Insert Size:	2000 bp



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Insert Sequence: >SC215367 3'UTR clone of NM_024567
 The sequence shown below is from the reference sequence of NM_024567. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ATCAAGACAGAGGCCCTGGATGATGACATCAGGGAGGTTAAACATGACAAGTTAACTTAGTTAGAC
GTAGCACCTTAGCAGACTTTCCTCGTCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTGTA
TGTGAGGTAGCTGTTAGGGTCTTGTCTGTGAAGATGGCATGGTGCCTCAGCCTTTCATATACTCTC
TCAGTATAACTCCCAGTAAATAATAACCAACCAACCAACCAACTTCCCTCTCCAGCCCCGAGGCT
AGAAAATCTTGCTGCTCCGTCTTAGCATTCCAAGAAAGTGCTCCAGGTATTTAGATAGCCCTCAGTTC
TCAAAATATTAGACTACGTGTAATAATCTGGGTACCTTTAGATTCTGTAACTAGTCTGTACTCCCTT
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TAAGCCGTGCCTCATTATAGCCACACTGTGGCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAATGTC
AATGGA AAAAGCCGATCTCAGATTTTGTGTTGAAGTTAACATGCCTGACACAGACATCCTTTCCTCTCAC
AAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTTGGGACCATGATTA AAAACAAAGACAAA
AACCAAAAGTCATTA AAAAAAAAAAAAAAAAAAAAAACCCAGCTTGAGAGCATTGGAAAAAAAAAATATGAG
CTGAATGTCTAATGGATGCTAAGTCCAGTTTTCAGAACCACTGTACATCCACGGCACAGTTAGCAGTG
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CCATTAACGGAAAGCCCCCTCACTCTGAGAGTCACTAGAGGACTCATAGTGGGGTTGTGCTGCTTAT
CACAGATGCAGACACTTGCCAGATAGGAGCAGAGAAAAGCAGGGGACGTTTCTACTCACATTGTGGC
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ACTTGCACTTAAAGTCAACCTGTGATCACCTGTGATCTAGTAGCAAAATGATGAACTATTCATGCAT
CAAAGAAAATTACATCTGCTGGCCTGTATGAAAATGATCTCTTGGCATCCCGATTAATGACACACTG
TCACTGTGGGTAAGAGGAAAGAGCCTTCAATGTAGCAGCACAGGGTGGCCTGAAAGAGGCACA ACTGC
TGTGGATTTTCTGCCTCGCTCCATCTCTCTATGTATAATGAAGCCTTGTTAAAGGGGCATGTGGGGC
TGGATGTTAAGCACGGCTTCTTTTTGTCCGTTACCTGAAAACAATTTCTAAGATAAAAAGGAAGGTGCCA
TTTCCTTACCTCTTACCCATCCTCCTCCACCAATGTATTCAACTTAAA ACTGTGAGAGAGAGAGACT
GAATGACCTTCTCAGTTTTCCCTTTCATTCAGGAGATACTGAATATCCGCCAGTTTGTAGTTGGTT
TCCTTCCACTTAAGGCACACGCTGACTGCATCATTTCTTATCTGTTAATCCTGCTTATGTGAGTGTG
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_024567.4](#)

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]

Locus ID: 79618

MW: 75.9