

Product datasheet for **SC325078**

HMBOX1 (NM_001135726) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMBOX1 (NM_001135726) Human Untagged Clone
Tag: Tag Free
Symbol: HMBOX1
Synonyms: HNF1LA; HOT1; PBHNF; TAH1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001135726 edited
 ATGCTTAGTTCCTTTCCAGTGGTTTTGCTGGAAACCATGTCTCATTATACAGATGAACCC
 AGATTTACCATAGAGCAGATAGATCTGCTTCAGCGACTTCGGCGTACTGGAATGACTAAA
 CATGAAATTCTCCATGCCTTGGAAACTTTGGACCGTCTTGATCAAGAGCATAAGTACAAG
 TTTGGAAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCA
 GCATCTTCTCTACAGCTACAGCTTCCACACAGACGCAGCATTTCGGGAATGTCCCGTCA
 CCTAGCAACAGTTATGATACTTCCCCACAGCCTTGCACTACCAATCAAAATGGGAGGGAG
 AATAATGAGCGATTATCTACATCCAATGGAAAGATGTCACCAACTCGCTACCATGCAAAC
 AGCATGGGTCAGAGGTCATACAGTTTTGAAGCCTCAGAAGAGGACCTAGATGTAGATGAT
 AAAGTGAAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTT
 CTTGCCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGC
 CGGATCTCTCATTGGCTGTTGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCA
 TTTTACCGATGGTATCAACTTGAGAAGACAAACCCTGGCGCTACACTAAGTATGAGACCA
 GCCCCATTCCAATAGAGGACCCCTGAATGGAGACAAACGCCTCCCCCAGTCTCTGCCACA
 TCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCT
 GTTATGGAAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATT
 GCAAACGCTTGAATGCAGTTATACAGAAGCCAGGCAAAAAGCTGTCAGATCTGGAAAGA
 GCCAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGAGTCCAGGAGGC
 CACTCAAACAGTGATGATGTCGACGGAATGACTACTCTGAGCAGGATGACAGTACGAGC
 CATAGTGACCACCAAGACCCCATCTCATTAGCTGTGAAATGGCAGCAGTCAACCACT
 ATCTTGGCATTGGCCGACAAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGAC
 TGA

Restriction Sites: NotI-NotI
ACCN: NM_001135726



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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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001135726.1.
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_001135726.1 , NP_001129198.1
RefSeq Size:	3175 bp
RefSeq ORF:	1263 bp
Locus ID:	79618
UniProt ID:	Q6NT76
Cytogenetics:	8p21.1-p12
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>