

Product datasheet for **SC319800**

HMBOX1 (NM_024567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMBOX1 (NM_024567) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMBOX1
Synonyms:	HNF1LA; HOT1; PBHNF; TAH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024567.2
 CCTCAAGTCTCTTTCTCACTTCTTTCTTCACTTAAAAACAATTTTTTTGGAGGGGTTT
 TGGGGAGGAAGTGAAGCGGACGCTGGGGATGGGTCTCGTAAGCGGCCGGATTGAGAGGAGG
 GAGGAAGCAGGGGGCTCCGAGTGGGTGACCCAGACGCGGGCTGTGGGGTGGGCAGTTC
 GTGGGGTCCGGTCTGAAAGGCGTCACTGCCCCCACTCTTCTGGTTTCTCTACGA
 TGAGCGGAAGGTTGAATCCTGGAGTGGGGTCTCCGGTGTGGAGTTCTGAAACTGTGA
 GGTGATTTGCAGCTGGTGAATGGAACAGTGAAGAAGCATTGGAATGGTAGATAACGCAG
 ATCATCTCTGAAAGGATATTGATCCGCCTCATGTAAAGTATGCTTAGTTCCTTTCCAGT
 GGTTTTGTGAAACCATGTCTCATTATACAGATGAACCCAGATTTACCATAGAGCAGAT
 AGATCTGCTTCAGCGACTTCGGCGTACTGGAATGACTAAACATGAAATTCTCCATGCCTT
 GGAACCTTTGGACCGTCTTGATCAAGAGCATAGTGACAAGTTTGAAGAAGGTCCAGCTA
 TGGAGGAAGTTTATGGAATAGTACTAACAATGTCCCAGCATCTTCTCTACAGCTAC
 AGCTTCCACACAGACGACGATTCGGGAATGTCCCGTCACTAGCAACAGTTATGATAC
 TTCCCCACAGCCTTGCACTACCAATCAAATGGGAGGGAGAATAATGAGCGATTATCTAC
 ATCCAATGAAAGATGTACCAACTCGCTACCATGCAAACAGCATGGGTCAGAGGTCATA
 CAGTTTTGAAGCCTCAGAAGAGGACCTAGATGTAGATGATAAAGTGAAGAATTAAAGAG
 GAGGGACAGCAGTGTGATAAAGAGGAAATCAAAGCCTTTCTTGCCAATCGGAGGATTTT
 CCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGTT
 GCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTCACCGATGGTATCAACT
 TGAGAAGACAAACCTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGA
 CCCTGAATGGAGACAAACGCTCCCCAGTCTCTGCCACATCTGGTACTTCCGACTGCG
 ACGAGGGAGTTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTATGGAAGTTACTTCAA
 TGAGATACAATACCCAGATGAAGCAAAGAGGGAAGAAATGCAAACGCTTGCAATGCAGT
 TATACAGAAGCCAGGCAAAAAGCTGTGAGATCTGGAAGAGTACTCCCTGAAAAGTATA
 TAATTGGTTTGGCTAACAGAAGGAAGGAGATCAAGAGGAGAGCCAATATTGAAGCAGCAAT
 CCTGGAGAGTCATGGGATAGATGTGCAGAGTCCAGGAGGCCACTCAAACAGTGATGATGT
 CGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATAGTGACCACCAAGACCC
 CATCTCATTAGCTGTGGAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGACA
 AGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTGATCAGGGAGGTTAAACAT
 GACAAGTTAACTTAGTTTAGACGTAGCACCTTAGCAGACTTTCCTCGGTCCTTAACATGT
 GTTCTTACAGTAACTTGCAGTTTCTTGTATGTCAGGTAGCTGTAGGGTCTTGTCTGTG
 TGAAGATGGCATGGTGCCTCAGCCTTTGCATATACTCTCAGTATAACTCCCAGTAA
 ATAATAACCAACCAACCAACCAACCAAACTTCCCTCTCCCAGCCCCGAGGCTAGAAAAT
 CTTGCTGCTCCGCTTAGCATTCCAAGAAAGTGCTTCCAGGTATTTAGATAGCCCTCAGT
 TCTCAAATATTAGACTACGTGTAATACTTGGGTACCTTTAGATTCTTGTAACTAGTCT
 TGACTCCCTTTCTTCCCAAGACTGATAGGATGCAAGCTGAGGTCGTGGCACAGGAA
 TGACAGACACCATTTGGGGAGTATCCACAGAGTCAAAGGAACACTAGAATCCCCACCTCA
 GCGTGAGGATAATTGATTTCCAGCTGCAATAAGCCGTGCCTCATTATAGCCCACTGTGG
 CTAGATTATACTTCTTTGGGTGCTGTGCTAAGAATGTCAATGAAAAAGCCGATCTCAGA
 TTTTGTGTTGAAGTTAACATGCCTGACACAGACATCCTTTCTCTACAAGCTGTGTGACT
 TAGTAGATAAAATACTGCCTTCTGCCTTTGGGACCATGATTA AAAACAAAGACAAAAACC
 AAAAGTCATTA AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_024567
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_024567.2 , NP_078843.2
RefSeq Size:	2427 bp
RefSeq ORF:	1263 bp
Locus ID:	79618
UniProt ID:	Q6NT76
Cytogenetics:	8p21.1-p12
Domains:	homeobox, HNF-1_N
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 (1) encodes isoform 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>