

## Product datasheet for **SC126297**

### HOXA1 (NM\_005522) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA1 (NM_005522) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXA1
Synonyms:	BSAS; HOX1; HOX1F
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_005522 edited
AGGAAGTGAGAAAAGTTGGCACAGTCACGCCGGGCTTCGCAGGACCAGGTCACTCAGTGAC
AGATGGACAATGCAAGAAATGAACTCCTTCTGGAATACCCCATACTTAGCAGTGGCGACT
CGGGGACCTGCTCAGCCCCGAGCCTACCCCTCGGACCATAGGATTACAACCTTCCAGTCGT
GCGCGGTACAGCCCAACAGTTGCGGGCGGACGACCGCTTCTAGTGGGCAGGGGGTGC
AGATCGGTTCCGCCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACC
ACCAGACTTCCGGGAACCTGGGGGTGCTCTACTCCCACTCAAGTTGTGGTCCAAGCTATG
GCTCACAGAACTTCAGTGCCTTACAGCCCTACGCGTTAAATCAGGAAGCAGACGTAA
GTGGTGGGTACCCCCAGTGCGCTCCCGCTGTTTACTCTGAAATCTCTCATCTCCCATGG
TCCAGCATCACCACCACCACCAGGGTTATGCTGGGGGCGCGGTGGGCTCGCCTCAATACA
TTCACCACTCATATGGACAGGAGCACCAGAGCCTGGCCCTGGCTACGTATAATAACTCCT
TGTCCTCTCCACGCCAGCCACCAAGAAGCCTGTCGCTCCCCGCATCGGAGACATCTT
CTCCAGCGCAGACTTTTGACTGGATGAAAGTCAAAGAAACCTCCCAAAACAGGGAAAG
TTGGAGAGTACGGCTACCTGGGTCAACCAACGCGGTGCGCACCAACTTCACTACCAAGC
AGCTCACGGAACGGAGAAGGAGTTCCACTTCAACAAGTACCTGACGCGCGCCCGCAGGG
TGAGATCGCTGCATCCCTGCAGCTCAACGAGACCCAAGTGAAGATCTGGTTCAGAAC
GCCGAATGAAGCAAAAGAAACGTGAGAAGGAGGGTCTCTTGCCCATCTCTCCGGCCACCC
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GCCCCAGACAACAGCCAGGCATCTCCTTGGGCTGGGACTTCTTACCAAAGCACATGCT
TAGCTTATCTTTTCCATTTACAGTCTTTTCTTCTTCTAATCCTATCTGGGGAGC
TCCTGGCCAGGATAATATATTTGCAGATAATTCTGGACCAGAGACTTGGTGGGGGTTAA
CACCTTCATCCAGATTGGGTGCCAGCATACATTTCTGGTGGGCCTTAACATCCCTCG
CTTTTAGGAGAATTCACAGAACCTACTGTTCTTCTTTCAGATGACCTTTTGAAAATAGTTC
CCTTTGCCAACAGAAACATGCCAGAAGGAATCTTCTCATCTTTTATCTAACTATATGTAC
AGCTCTCCCTCCCTTGCTTGAAGTAGGATATAGCGAAAGCGAGTCCAGGAGCTCA
GGAAGAAGAGATGCACTATATGTTTACACAATTAATTCATCCCTTAATTTAAGTCATTTT
CATGTGTGTGAGTTTGTGTTGTAATACTTTGTCTAAGAGATTTATCTTTATACAGA
TTTTCTAGAAATGTTTAGGTTACTAAAACAGGGTGGGCAAACTCTCTAACTGGTACAAT
TTTATAGGTGAAAGAAAAATCCCTCATTTAAACCAATCAGATGCCTCAGAGGGTAGC
CTTGATTTGTTCTTACAGTTAAGAAGCCCTGCAGAGCACAACTCAGAAACCCGGCTTC
CTGTGCTAAGTCTTCCCAATCTTACCCTTTCTTCTCGGGCCACCCTCTGTTTAAAT
TTGTGCTGGGTATTTCAGAACCTAAAAGTATTATTCAAACCAATTTCTTCTCCACAGT
TATCTTAGCTGGATATAATGTATTTTTCAGCTCAATTGTTAATGTGATGGATGGCACAATG
AATGTATATTTTGTGTTATTCGTGAATAGTCTTTTGCATGTCGCACAATGTTTGTATGTC
CCAAAGTACCACACTGAGTTCTATCAGTTATCCTTTGTGAGCCTATGATATCCCATTT
CCTGTACAATCATGAACAGCTCTGAGATCCTGGAGTGATATGATCCAGAGCAGAGTTTAC
GGGTCTTAGGATGTCTGTAATAAATAAATACTCAAGTTTTCAGGTATGCTTAAGCATCC
GTGATTTTGGCTGGGCTACAATTTGTTAATTCTATGAAGTTGGCACATTTTCATGAGGGG
AAAGGGAGAAGGGTGGTAAATATTTTCAAAGAGATGGGCCTTTTCTTGAATAAAAGTTAA
TAACAGCTCCTTTATTATAATCAAAGCTCATAATGGAAAAAAGACTGATGAAGAAATTT
ATGAAGCAGATTTATTTTGAACAACATGGATACTTCTGGGTCAAGTGTAACTTTT
TCACCTCAAAGTGGATGTTGACGTATATATAAACAGAACTCCCTTCAAAGCCAAAAAAA
AAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005522 unedited GTATTTGTATACGACTCATATAGCGCGCCGTAATCAAATCTGGTACCGGTCCGGAATT CCCGGGATATCGTCGACCCACGCGTCCGCCACGCGTCCGAGGAAGTGAGAAAGTTGGCAC AGTCACGCCGGGCTTCGCAGGACCAGGTCACTCAGTGACAGATGGACAATGCAAGAATGA ACTCCTTCTGGAATACCCATACTTAGCAGTGGCGACTCGGGGACCTGCTCAGCCCGAG CCTACCCTCGGACCATAGGATTACAACCTTCCAGTCGTGCGCGGTCAGCGCCAACAGTT GCGGCGGCGACGACCGCTTCTAGTGGGCAGGGGGTGCAGATCGGTTTCGNCCACCACC ACCACCACCACCACCATACCACCCCGCCGGCTACCTACCAGACTTCCGGGAACCTGG GGGTGTCTACTCCCACTCAAGTTGTGGTCCAAGCTATGGCTCACAGAACTTCAGTGCGC CTTACAGCCCCTACGCTTTAAATCAGGAAGCAGACGTAAGTGGTGGGTACCCCCAGTGCG CTCCCGCTGTTACTTCGAAAAATCTTTATCTCCCATGGTCANCTTCCCCCCCCCCCCNG GTTATCTGGGGCCCCGGGGGCTTCCCCAAAACCTTTTCCCCCTTTTTTGGCCGGGG ACCCCCAAACCCGGGCCCGGGGAAAAATAAAAAACCTTTTGGCCCTTTTTCCCCCCC CCCCCAAAAAACGTGGGGTCCCCCGAGGGGAAAAATTTTTTCCCCGAAAAATTT TTGGGGGGGAAGAAAAAACCACCCCAACAAAAAATTGGGGGAGGGGG CCCTTTGTTTGGAAAAACCGGGGGGGGCCACGACTAT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005522
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005522.3</a> , <a href="#">NP_005513.1</a>
<b>RefSeq Size:</b>	2530 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	3198
<b>UniProt ID:</b>	<a href="#">P49639</a>
<b>Cytogenetics:</b>	7p15.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors

**Gene Summary:**

In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. The encoded protein may be involved in the placement of hindbrain segments in the proper location along the anterior-posterior axis during development. Two transcript variants encoding two different isoforms have been found for this gene, with only one of the isoforms containing the homeodomain region. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).