

Product datasheet for **SC303818**

HOXA2 (NM_006735) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOXA2 (NM_006735) Human Untagged Clone
Tag: Tag Free
Symbol: HOXA2
Synonyms: HOX1K; MCOHI
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_006735 edited
 ATGAATTACGAATTTGAGCGAGAGATTGGTTTTATCAATAGCCAGCCGTCGCTCGCTGAG
 TGCTGACATCTTTTCCCCTGTCGCTGATACATTTCAAAGTTCATCAATCAAGACTCG
 ACGCTTTACACTCGACTGATTCTCCTCCTTTTGAGCAGACCATTCCAGCCTGAAC
 CCCGGCAGTCACCCTCGCCACGGCGCTGGCGGCCGCCCAAGCCGAGCCCGCGGCAGC
 CGCGGCAGCCGGTGCCCGCGGCCTGCAGCCGCCGAGTACCCCTGGATGAAGGAG
 AAGAAGGCGGCCAAGAAAACCGCACTTCTGCCGGCCGCCGCCGCCGCCACCGCCGA
 GCCACCGCCCTGCTTGCTCAGCCACAAAGAATCCCTGGAAATCGCCGATGGCAGCGGC
 GGGGGATCGCGGCCTGAGAACTGCTTACACCAACACACAGCTTCTAGAGCTGGAAAA
 GAATTTCAATTTCAACAAGTACCTTTGCAGACCCGAAGGGTGGAGATTGCAGCGTCTG
 GATTTGACTGAGAGACAAGTAAAAGTGTGGTTTTCAGAACCGGAGGATGAAGCACAAGAGG
 CAGACCCAGTGCAAGGAAAACAAAACAGCGAAGGAAATGTAAAAGCCTTGAGGACTCC
 GAGAAAGTAGAGGAGGACGAGGAAGAGAAGACGCTCTTTGAGCAAGCCCTTAGCGTCTCT
 GGGGCCCTTCTGGAGAGGGAAGGCTACACTTTTCAGAAAATGCCCTCTCTCAGCAGCAG
 GCTCCCAATGGACACAATGGCGACTCCCAAAGTTTCCAGTCTCGCCTTTAACCGCAAT
 GAGAAAAATCTGAAACATTTTTCAGCACCAGTACCCACTGTTCCCAACTGCTTGTCAACA
 ATGGGCCAGAAGTGTGGAGCTGGCCTAAACAATGACAGTCTGAGGCCCTTGAGGTCCCC
 TCTTTGCAGGACTTTAGCGTTTTCTCCACAGATTCCCTGCCTGCAGCTTTTCAGATGCAGTT
 TCACCCAGTTTGCCAGGTTCCCTCGACAGTCCCGTAGATATTTTCAGCTGACAGCTTAGAC
 TTTTTTACAGACACTCACCACAATCGACTTGCAGCATCTGAATTACTAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006735 unedited CCATATCGTCCATTTCAACCTGTCTCCTGGATTATAGTTTATAGTAGCGCGTCCCCAT ACGGCTGTAATCAGTGAATTAGAAAAAACACCTAGCAGCGATATTCTATGATAGATT TTTTTCTCTGCGCTCGCTTTTTCTAGGCCTTGCCCCCAAAGCCCTCCAAAAGA GGGAACTTTTCTCTGAGGGGCTCCAAGGAGAAGGCCATGAATTACGAATTTGAGCGAG AGATTGGTTTTATCAATAGCCAGCCGCTCGCTGAGTGCCTGACATCTTTCCCCCTG TCGCTGATACATTTCAAAGTTCATCAATCAAGACCTCGACGCTTTCACACTCGACTGA TTCCTCCTCCTTTTGAGCAGACCATCCAGCCTGAACCCCGGCAGTACCCTCGCCACG GCGCTGGCGGCCGCCCAAGCCGAGCCCGGGCAGCCGCGGCAGCCCGGTGCCGCCG GCGCCTCGACCCGCCGAGTACCCTGGATGAAGGAGAAGAAGGCGGCCAAGAAAACCG CACTTCTGCCGGCCGCCGCCGCCACCGCCGAGCCACCAGCCCTGCTTGCTCA GCCACAAAGAATCCCTGGAAATCGCCGATGGCAGCGCGGGGATCGGGCGCTGAGAA CTGCTTACACCAACACAGCTTCTAGAGCTGAAAAAAGAATTTCAATTTCAACAAGTAC CTTTGCAGACCCGAAGGGTGGAGATTGCAGCGCTGCTGGATTTTGACTGAGAGACAAG TGAAGTGTGGTTTCAGACCCGGAGGATGAGCCACAAGAGGG
3' Read Nucleotide Sequence:	>Forward primer walk for NM_006735 unedited CCAAGATTTCCCATNCTCGCTTTAACCGAATGANAAAACTGAAACATTTAGCACCA GTCACCCACTGTTCCCACTGCTGTCAACAATGGGCCAGAACTGTGGAGCTGGCCTAAA CAATGACAGTCTGAGGCCCTTGGAGTCCCTCTTTGCAGGACTTTAGCGTTTTCTCCAC AGATTCCTGCCTGCAGCTTTCAGATGCAGTTTACCCAGTTTGCCAGTTCCCTCGACAG TCCCGTAGATATTTAGCTGACAGCTTAGACTTTTTTACAGACACTCACCACAATCGA CTTGACAGCATCTGAATTAATAAAACATTAAGCAAAACAAAGCATCACCACAAAAAAC TCCAAAAAATAAAAAAAAAAACTCGAGGAACTGAAAAACAGAAAGTTAATCCCTATA GTGAGTGTATTAATTCGTAATCATGTATAGCTGTTTCTGTGTGAAATTTGTTATCCG CTCACAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAA TGAGTGAGCTAACTACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAAC CTGTGTCGCCAGCTGCATTAATGAATCGGCCAACGCGCCGGGAGAGGGCGTTTGCATTT GGGCGCTCTTTGCTTCTCGCTCACTGACTCGCTGCGCTCGTTGTTGCGCTGCCGCGA GCGGTATCAGCTCACTCAAAGGCGGTAATACCGTTATCCACAGAATCAGGGGATAACGCA GGAAAGACATGTGAGCAAAGCCCGCCAAAAGCCAGAAACCTAAAAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_006735
Insert Size:	2500 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:

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_006735.3](#), [NP_006726.1](#)

RefSeq Size: 1791 bp

RefSeq ORF: 1131 bp

Locus ID: 3199

UniProt ID: [O43364](#)

Cytogenetics: 7p15.2

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. [provided by RefSeq, Jul 2008]