

Product datasheet for **SC321224**

HOXA9 (NM_152739) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA9 (NM_152739) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXA9
Synonyms:	ABD-B; HOX1; HOX1.7; HOX1G
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_152739.3
 AGTTTCATAATTTCCGTGGGTCCGGGCCGGGCGGGCCAGGCGCTGGGCACGGTGATGGCCA
 CCACTGGGGCCCTGGGCAACTACTACGTGGACTCGTTCCTGCTGGGCGCCGACGCCGCGG
 ATGAGCTGAGCGTTGGCCGCTATGCGCCGGGACCCTGGGCCAGCCTCCCCGGCAGGCGG
 CGACGCTGGCCGAGCACCACCCGACTTCAGCCCGTGCAGCTTCCAGTCCAAGGCGACGGTGT
 TTGGCCCTCGTGAACCCAGTGCACGCGGGCGGCCAACGCTGTACCCGCTGCGGTGT
 ACCACCACCATCACCACCACCCCTACGTGCACCCCAAGGCGCCGTTGGCGGCGGCGGCGC
 CGGACGGCAGGTACATGCGCTCCTGGCTGGAGCCACGCCCGGTGCGCTCTCCTTCGCGG
 GCTTGCCCTCCAGCCGGCCTTATGGCATTAAACCTGAACCGCTGTGCGCCAGAAGGGGTG
 ACTGTCCCACGCTTGACACTCACACTTTGTCCCTGACTGACTATGCTTGTGGTTCTCCTC
 CAGTTGATAGAGAAAAACAACCCAGCGAAGGCGCCTTCTCTGAAAAAATGCTGAGAATG
 AGAGCGGCGGAGACAAGCCCCCATCGATCCCAATAACCCAGCAGCCAACCTGGCTTCATG
 CGCGCTCCACTCGAAAAAGCGGTGCCCTATACAAAACACCAGACCCTGGAACCTGGAGA
 AAGAGTTTCTGTTCAACATGTACCTCACCAGGGACCGCAGGTACGAGGTGGCTCGACTGC
 TCAACCTCACCGAGAGGCAAGTCAAGATCTGGTCCAGAACCGCAGGATGAAAATGAAGA
 AAATCAACAAAGACCGAGCAAAAGACGAGTGATGCCATTTGGGGCTATTTAGAAAAAAGG
 GTAAGCTAGAGAGAAAAAGAAAGAACTGTCCGTCCCCCTTCCGCCTTCTCCCTTTTCTCA
 CCCCCACCTAGCCTCCACCATCCCCGCACAAAGCGGCTCTAAACCTCAGGCCACATCTT
 TTCCAAGCAAACCTGTTTCCAGGCTGGCTCGTAGGCTGCGCCTTTGATGGAGGAGGTAT
 TGTAAGCTTTCCATTTTCTATAAGAAAAAGGAAAAAGTTGAGGGGGGGGCATTAGTGCTGA
 TAGCTGTGTGTGTAGCTTGATATATATATTTTTAAAAAATCTACCTGTTCTGACTAAAA
 CAAAAGGAAAGAACTACCTTTTTATAATGCACAACTGTTGATGGTAGGCTGTATAGTTT
 TTAGTCTGTGTGTTAATTTAATTTGAGTTTGTGCGGCAGATTGCTCTGCCAAGATACT
 TGAACACTGTGTTTTATTGTGGTAATTATGTTTTGTGATTCAAACCTTCTGTGACTGGGT
 GATGCACCCATTGTGATTGTGGAAGATAGAATTCAATTTGAACTCAGGTTGTTTATGAGG
 GGAAAAAACAGTTGCATAGAGTATAGCTCTGTAGTGGAATATGCTTCTGTATAACTAG
 GCTGTTAACCTATGATTGTAAGTAGCTGTAAGAATTTCCAGTGAAATAAAAAAATTT
 TTAAGTGTCTCGGGATGCATAGATTCATTTTTCTCCACCTAAAAATGCGGGCATT
 TAAGTCTGTCCATTATCTATATAGTCTGTCTTGTCTATTGTATATATAATCTATATGAT
 TAAAGAAAATATGCATAATCAGACAAGCTTGAATATTGTTTTTGCACCAGACGAACAGTG
 AGGAAATTCGGAGCTATACATATGTGCAGAAGTTACTACCTAGGTTTTATGCTTAATTT
 TAATCGGAGGAAATGAATGCTGATTGTAACGGAGTTAATTTTATTGATAATAAATTATAC
 ACTATGAAACCGCCATTGGGCTACTGTAGATTTGTATCCTTGATGAATCTGGGGTTTCCA
 TCAGACTGAACCTTACACTGTATATTTTGAATAGTTACCTCAAGGCTACTGACCAAATT
 GTTGTGTTGAGATGATATTTAACTTTTTGCCAAATAAAATATATTGATTCCTTTTCTAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_152739

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_152739.3](#), [NP_689952.1](#)

RefSeq Size: 2076 bp

RefSeq ORF: 819 bp

Locus ID: 3205

UniProt ID: [P31269](#)

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. This gene is highly similar to the abdominal-B (Abd-B) gene of Drosophila. A specific translocation event which causes a fusion between this gene and the NUP98 gene has been associated with myeloid leukemogenesis. Read-through transcription exists between this gene and the upstream homeobox A10 (HOXA10) gene.[provided by RefSeq, Mar 2011]