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Product datasheet for SC122943

HOXB9 (NM_024017) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXB9 (NM_024017) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXB9
Synonyms:	HOX-2.5; HOX2; HOX2E
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_024017 edited
GGCACGAGGCCGGTCCGGGTGCCACCTCTCCCTGCTTGGGCGCCGCCGCGCGAGCGCTTC
CCTTCCCCCTGCAAGCGCCCGGATAATGTCTGAGAATGTCCATTTCTGGGACGCTTAGCA
GCTATTATGTCGACTCGATCATAAGTCACGAGAGTGAGGACGCGCCTCCAGCCAAGTTTC
CTTCTGGCCAGTACGCGAGCTCGCGGCAGCCGGGCCACGCGGAGCACCTGGAGTTCCCCT
CGTGCAGCTTCCAGCCCAAAGCGCCGGTGTTCGGCGCCTCCTGGGCGCCGCTGAGCCCGC
ACGCGTCCGGGAGCCTGCCGTCCGTCTACCACCCTTACATCCAGCCCCAGGGCGTCCCGC
CGGCCGAGAGCAGGTACCTCCGCACCTGGCTGGAGCCGGCGCCGCGCGGCGAAGCGGCCC
CGGGGCAGGGCCAGGCGGCGGTGAAGGCGGAGCCGCTGCTGGGCGCGCCTGGGGAGCTGC
TCAAACAGGGCACGCCCGAGTACAGTTTGGAAACTTCGGCGGGCAGGGAGGCCGTGCTGT
CTAATCAAAGACCCGGCTACGGGGACAATAAAATTTGCGAAGGAAGCGAGGACAAAGAGA
GGCCGGATCAAACCAACCCCTCCGCCAACTGGCTGCACGCTCGCTCTTCCCGGAAAAAGC
GCTGTCCCTACACCAAATACCAGACGCTGGAGCTAGAGAAGGAGTTTCTGTTCAATATGT
ACCTCACCAGGGACCGTAGGCACGAAGTGGCCAGACTCCTCAATCTGAGTGAGAGACAAG
TCAAAATCTGGTTTCAGAACCGGCGGATGAAAATGAAGAAAATGAATAAGGAGCAGGGCA
AAGAGTAAAGATTAAAGATTACCCCCAGTCCTCCCTAGCTCTTCCCCATCTCACTCTTAG
TTATGTGACGACTGCAAAGCCAGTGCTGTCTGGGATGTATTCAAGTGAATGGGGAAGGGA
GTCTCTCTTCCAAGTCCTTTATCTGCACCTAGAACCTCCCTCCTTTCCTTTGCCCTTACC
TGTCTCTCTCTTCTCTCTAGGTGTCAGCCCTCAGACTGTCAGGCAAGCCCGGGTTCTACC
CCTAATGCAAATACCCACCAGGGAGATGTCTAGAGGCAGACTCCTGAGTGAGGTGTTGCA
GCCCAAAGGCTGCAGCATTGCCATACCATTCCCATGGAGTTGCCAACTATTCTCAGGCCA
AGGGCCATGGGGAAGATGGAGCAAACCTAGCCCCCAAGCCGGTGGGCTAGAAAGTACAAG
AAAAGGCAGCACGTGGTTTTATGAAGGTATCTTAGGTGGAGCTACTCCCCACCTCCCACC
AACATATACATTTTGTTGCAGGAAATGTTTAATTCCGCATGATGTTTCCCTCTCCTTCCA
ACAAAAGAAGGTCAAACTGTGGGTCGTAGAGCCTTGACAATGTTGTCCTCCTGTTCATCT
GTGCACCACTTGACAGACTGTAGCTTCTCTTGCTCTCGACCGGCCCTGCATTCTTCCGCA
CCCTCCCTAGCTCTGAAATCAACTCTCTTCGGTCGTATCCACCTTGCACCCGCAAGTCAA
GCCGCCCCTTGTAGAAAAATCCCTCCACCTTCCGTTCCCCGCTAGGTCAACCCCACTGTA
GACAGGAAAGCCAGGCCAGGAGAGTCCGAATGAGAATTTATTGTGAATCGATTCCCAAGC
TCCCTTCCGGGACAAGTGGTCTGGGACAGGGAGGAGCAACGGCCCCAGCGCGCAACGCTC
TGCGCGTTCCTCCGAATCCCGTCGGCTTCTCGACCCACGCAGAGAAGCCCCGGGCTTGGC
GGCTCTAGCCCCAGCGCCAAAGGAGACCCGCCCCAGGGCCGGGCTTGGCCTCCTGCTTCA
TGGGCCTGGATGCAGATCTGCGTGGCTGGTGCGTGCGCGCGCTTCTGGGAAACAGTCCCG
CGTGCAAAGGAAAGGGGCAAAATGGCACCTAAGCATCAGATGGAAGCTTACTCTCTGCTT
CCGTTCCTCCCCCTGCTCCCCTACTTCTCAGTCCCCTTCAATTTGTAGACTCTTGCTCCT
GCTTCTCCTGATCCTGCAAGGGGACATTCCAGTAGAAGTTTTTTGCTTTGTCGGTGGCTG
TCGTGAAATTGTGCTTGTGTTTCGTGATTTCTTTGGGGGTGATTGTCTCGCTTGTTTTCA
GTTGTCGATTATATGGGAGGGTTCTGGGTGGGAGTGGGGAGGGCGAGGGGCCTAGAGCTC
TAATTGTTTGTTTTGGAAGAAAAAAAGAAAAAGAACAAAAAATATATATCACTCTAGAAA
ATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024017 unedited
ATTAAAAAACCTTTACGGGATTTGTACCACTTTTACTATAGGCGGCCGCGNAATTCGCAC
GAGGCCGGTCCGGGTGCCACCTCTCCCTGCTTGGGCGCCGCCGCGCGAGCGCTTCCCTTC
CCCCTGCAAGCGCCCGGATAATGTCTGAGAATGTCCATTTCTGGGACGCTTAGCAGCTAT
TATGTCGACTCGATCATAAGTCACGAGAGTGAGGACGCGCCTCCAGCCAAGTTTCCTTCT
GGCCAGTACGCGAGCTCGCGGCAGCCGGGCCACGCGGAGCACCTGGAGTTCCCCTCGTGC
AGCTTCCAGCCCAAAGCGCCGGTGTTCGGCGCCTCCTGGGCGCCGCTGAGCCCGCACGCG
TCCGGGAGCCTGCCGTCCGTCTACCACCCTTACATCCAGCCCCAGGGCGTCCCGCCGGCC
GAGAGCAGGTACCTCCGCACCTGGCTGGAGCCGGCGCCGCGCGGCGAAGCGGCCCCGGGG
CAGGGCCAGGCGGCGGTGAACGCGGAGCCGCTGCTGGGCGCGCCTGGGGAGCTGCTCAAA
CAGGGCACGCCCGAGTACAGTTTGGAAACTTCGGCGGGCAGGGAGGCCGTGCTGTCTAAT
CAAAGACCCGGCTACGGGGACAATAATATTTGCGAACGAAGCGAGGACAAAGAGAGGCCG
GATCAAACCAACCCCTCCGCCAACTGGCTGCACGCTCGCTCTTACCGGAAAAAGCGCTGT
CCCTACACCAAATACCAGACGCTGGAGCTAGAGAATGAGTTTCTGTTCAATATGTACCTC
ACCAGGTACCGTAGGCACGAAGTGGCCAGACTCCTCAATCTGAGTGAGAGACAAGTCAAA

Restriction Sites: Please inquire

ACCN: NM_024017

Insert Size: 2340 bp

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

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_024017.3, NP_076922.1

RefSeq Size: 2583 bp

RefSeq ORF: 753 bp

Locus ID:	3219
UniProt ID:	P17482
Cytogenetics:	17q21.32
Protein Families:	Transcription Factors
Gene Summary:	This gene is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded nuclear protein functions as a sequence-specific transcription factor that is involved in cell proliferation and differentiation. Increased expression of this gene is associated with some cases of leukemia, prostate cancer and lung cancer. [provided by RefSeq, Jul 2008]