

Product datasheet for **SC125778**

HOXB4 (NM_024015) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXB4 (NM_024015) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXB4
Synonyms:	HOX-2.6; HOX2; HOX2F
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_024015 edited
GGAAAACGAGTCAGGGGTCGGAATAAATTTTAGTATATTTTGTGGGCAATCCCAGAAAT
TAATGGCTATGAGTTCTTTTTGATCAACTCAAATATGTGACCCCAAGTCCCTCCAT
GCGAGGAATATTCACAGAGCGATTACCTACCCAGCGACCACTCGCCCGGGTACTACGCCG
GCGGCCAGAGGCGAGAGAGCAGCTTCCAGCCGGAGGCGGGCTTCGGGCGGCGCGGGCGT
GCACCGTGCAGCGCTACGCGGCCCTGCCGGGACCCTGGGCCCGCCGCTCCGCCACCAC
CCCCGCCCGCCCGCCACCGCCCGGTCTGTCCCCTCGGGTCTCTGCGCCGCCACCCGCG
GGGCCCTCTCCCGAGCCCGGCCAGCGCTGCGAGGCGGTGAGCAGCAGCCCGCCGCGC
CTCCCTGCGCCAGAACCCCTGCACCCAGCCGTCCTCCACTCCGCGTGCAAAGAGCCCG
TCGTCTACCCCTGGATGCGCAAAGTTCACGTGAGCACGGTAAACCCCAATTACGCCGGCG
GGGAGCCCAAGCGCTCTCGGACCGCCTACACGCGCCAGCAGGTCTTGGAGCTGGAGAAGG
AATTTCACTACAACCGCTACCTGACACGGCGCCGGAGGGTGGAGATCGCCACGCGCTCT
GCCTCTCCGAGCGCCAGATCAAGATCTGGTTCAGAACCCGGCGCATGAAGTGAAAAAAG
ACCACAAGTTGCCAACACCAAGATCCGCTCGGGTGGTGGCGCAGGCTCAGCCGGAGGGC
CCCTGGCCGGCCCAATGGAGGCCCGCCGCGCTCTAGTCCCCCGCACGCGGGAGCCAC
GAACCTCGGGGTGGGGTGGGCAGTGAGTGCAGGGGATGGGGTGGGGGGACAGGAGGGGG
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AACGCAGAAGAGGGGGAGGGGAAGCTTTATTTATAGAAATGACAAAGAGGGGCCACGGGG
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CCTCGTTTTAGCTTTGGCGAAGATGGATCCACGTTTCATCTTTAATCACGCCAGGTCCA
GGCCCATCTGTCTTGTTCCTCTGCCGAGGAGAAGACGGGCCTCGGTGGCGACCATTACC
TCGACACCCGCTAACAAATGAGGCCCGGCTCGGCCGCTCCGCCCTGCTACTGCCGCTG
CTGGAAGACAGCCTGGATTTCTTTCTTTGTCCCCCACTCCCGATACCCAGCGAAAGCAC
CCTCTGACTGCCAGATAGTGCAGTGTTTTGGTACCGGTAAACACACACACTCTCCCTCA
TCTTTCTGCCCCATTCACTGAGGGCCAGAATGACTGCTCACCCACTTCCACCGTGGGGTT
GGGGTGGGCAACAGAGGAGGGGAGCAAGTAGGGAAGGGGTGGCCTTGACAACTCAGGA
GTGAGCAGGGAATTTAGTCCAAGGAAAAAGAGAGACTCAGAGACCCGGGAGGGCCTTCC
TCTGAAAGGCCAAGCCAAGCCATGCTTGGCAGGGTGGGGCCAGTTGAGTTCTGGGAGC
TGGGCACTACTCTGCCAGTCCAGAGTTGTACAGCAGAAGCCTCTCTCTAGACTGAAAAT
GAATGTGAAACTAGGAAATAAAATGTGCCCTCCAGTCTGGGAGGAGGATGTTGCAGAG
CCCTCTCCATAGTTTATTATGTTGCATCGTTTATTATTATTATTGATAATATTATTATT
ACTATTTTTTTGTGCATGTGAGTCTCTCCTTTTCTTTCTTTGACATTCCAAAACCA
GGCCCTTCTACCTCTGGGGTCTTGTGAGTCTAGAACCCTTCGTATGTGTGAATATCTG
TGTGCTGTACAGAGTGACAATAGAAATAAATGTTTGGTTTCTTGTGAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_024015 unedited GGGACTTTGATTTGTA AACCACTTACTATAGGCGGCCGCGGAATTCNATCTGGTACCGGT CCGGAATCCCGGGATATCGTCGACCCACGCGTCCGCCACGCGTCCGGGAAAACGAGTC AGGGGTCGGAATAAATTTTAGTATATTTTGTGGCAATCCAGAAATTAATGGCTATGA GTTCTTTTTGATCAACTCAAATATGTCGACCCAAAGTCCCTCCATGCGAGGAATATT CACAGAGCGATTACCTACCCAGCGACCACTCGCCCGGTACTACGCCGGCGGCCAGAGGC GAGAGAGCAGCTCCAGCCGGAGCGGGCTTCGGGCGGCCGCGCGCTGCACCGTGCAGC GCTACGCCGCTGCCGGACCTGGGCCCGCCGCTCCGCCACCAACCCCGCCGCC CGCCACCGCCCGGTCTGTCCCTCGGGCTCCTGCGCCGCCACCCGCCGGGCCCTCTCC CGGAGCCCGGCCAGCGCTGCGAGCGGTGAGCAGCAGCCCCCGCCGCTCCCTGCGCCC AGAACCCCTGCACCCAGCCCGTCCCACTCCGCGTGCAAAGAGCCCGTCTACTCCCT GGATGCGCAAAGTTCACGTGAGCAGGTAACCCCAATTACGCCGGCGGGAGCCCAAGC GCTCTCGACCGCTACACGCGCCAGGCTTGGAGCTGGAGAAGGAATTTACTACA ACCGCTACCTGACACGGCGCCGGAGGGTGGANGATCGCCACGCGCTCTGGCTCTNCGAGC GCCAGATCAAGATCTGGTTCCAGAAACCCGCGCATGAAGTGGGAAAAAGACCACAGTTG CCCAACCAAGATCCCGCTCGGTGGTGGCGGCGAGGCTACCCCGAGGGCCCTGGCC GGCCAATG
Restriction Sites:	NotI-NotI
ACCN:	NM_024015
Insert Size:	2000 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).
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_024015.3 , NP_076920.1
RefSeq Size:	2040 bp
RefSeq ORF:	756 bp
Locus ID:	3214
UniProt ID:	P17483
Cytogenetics:	17q21.32
Protein Families:	ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors

Gene Summary:

This gene is a member of the Antp homeobox family and encodes a nuclear protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded protein functions as a sequence-specific transcription factor that is involved in development. Intracellular or ectopic expression of this protein expands hematopoietic stem and progenitor cells in vivo and in vitro, making it a potential candidate for therapeutic stem cell expansion. [provided by RefSeq, Jul 2008]