

Product datasheet for **MR227615**

Hoxb1 (NM_008266) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxb1 (NM_008266) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxb1
Synonyms:	Hox-2.9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227615 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTATAATAGGATGAGTTCCTTTTAGAGTACCCACTTTGTAACCGGGGACCCAGCGCCTACAGCG
CCCCAACCTCTTTTCCCCCTGCTCAGCTCCGGCCGTTGACAGCTACGCAGGGGAGAGCCGCTATGGTGG
AGGGCTGCCTAGCTCAGCGCTCCAACAACTCGGGGTATCCTGTCCAGCAGCCGCGTCATCCCTGGG
GTGTCTTTCCAGCCCCGCTCCCTCGGGGTACGCCCCAGCCGCTGCAACCCAGCTATGGCCTTCTC
AGTATTATTCTGTGGGTAGTCGGAAGGAGATGGAAGCTATTTTCATCCGTCGAGCTACGGAGCCAGCT
AGGGGGGTTGCCGACAGCTATGGAGCGGTGGAGTCGGCTCAGGGCCATATCCTCCGCCGAGCCCCA
TACGGAAGTGAAGCAGACCGCAACCTTTGCATCAGCCTACGACCTCCTCTGAGGACAAGGAATCGCCTT
GCTCGTCAGAACCAGCACTCTCACTCCCCGACCTTCGACTGGATGAAGGTCAAGAGAAACCCACCTAA
GACAGCGAAGGTGTCCGAGCTGGGACTGGGCGCTCCCGGCGGTCTCCGCACAAATTCACCACGCGCCAG
CTGACGGAGCTGGAGAAGGAATTTCAATTTCAACAAATACCTGAGCCGTGCCCGGAGGGTGGAGATCGCCG
CCACCCTGGAGCTCAATGAAACGCAGGTGAAGATCTGGTTCCAGAACCGGCGCATGAAGCAGAAGAAACG
CGAGCGAGAGGGGGCAGGATGCCTGCAGGCCCCCAGGTTGCCCAAAGGAAGCCGCTGGAGATGCCTCT
GACCAGTCCGCGTGCACCTCCCAGAAGCCTCGCCAGTTCATCACCTCT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227615 protein sequence
 Red=Cloning site Green=Tags(s)

MDYNRMSSFLEYPLCNRGPSAYSAPTSFPPCSAPAVDSYAGESRYGGGLPSSALQQNSGYVPVQPPSSLG
 VSFPSPAPSGYAPACNPSYGPSQYYSVGQSEGDGSYFHPSSYGAQLGGLPDSYGAGVGSGPYPPPQPP
 YGTEQTATFASAYDLLSEDKESPCSEPSTLTPRTFDWMKVKNPPKTAKVSELGLGAPGGLRTNFTTRQ
 LLEKEFHFNKYL SRARRVEIAATLELNETQVKIWFQNRMRMKQKKREREGRMPAGPPGCPKEAAGDAS
 DQSACTSPASPSITS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008266

ORF Size: 891 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008266.5](#), [NP_032292.3](#)

RefSeq Size: 2077 bp

RefSeq ORF: 894 bp

Locus ID: 15407

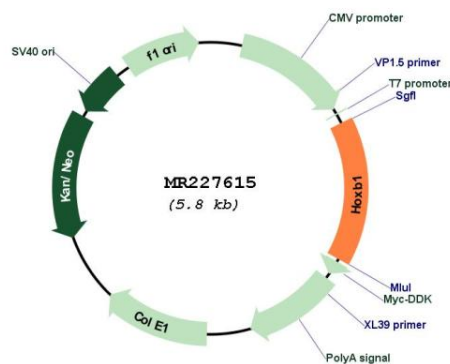
UniProt ID: [P17919](#)

Cytogenetics: 11 59.86 cM

MW: 31.7 kDa

Gene Summary: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Acts on the anterior body structures.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227615