

Product datasheet for **MR225553**

Hoxb3 (NM_010458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxb3 (NM_010458) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxb3
Synonyms:	Hox-2.7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR225553 representing NM_010458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAAAGCCACCTACTACGACAACACCCGAGCTGCGCTCTTCGGAGGCTACTCCTCGTACCCTGGCA
 GCAATGGTTTCGGCTACGACGGGCTCCCCAGCCCCCTTCAGGCCGCCACGCACCTGGAGGGTACTA
 CCAGCGCTCAGCGTGTCTCTGCACTCCCTGGCAACGCCGCCACATGCCAAGAGCAAGGAGCTCAAT
 GGCAGCTGCATGAGGCCAGGCTGGCCCCAGAGCCCTGCCCGCACCTCCGGGCTCACCCCCACCCAGCG
 CCGCACCTACCAGTACCCTAGCAACAGCAATAACGGGGTGGGCCAGCAAAGCGCCCCCAAGT
 CGGTGCCGGTCCAACCTCACCCCTACCAAAACAGATATCCCTGGATGAAAGAGTCGAGGCAAACGTCC
 AAGCTGAAAAACAGCTCCCCGGCACAGCAGAAGTTGTGGTGGTGGCGGCGGGTGGTGGCGGCGGG
 GCGGGCGTGGCGGCGCAGCAGCGGGGGCGGGCGGGCGGGGGAGGGGACAAGAGCCCCCGGG
 GTCGGCCCGTCCAAGCGGGCGCACGGCGTACACAAGCGCGCAGCTGGTGGAGCTGGAGAAGGAGTTC
 CACTTCAACCGTTATTTGTGCCGCCCGCCGGTTCGAGATGGCCAATCTGCTGAACCTCAGCGAGCGCC
 AGATCAAGATCTGGTCCAGAACCGTCGCATGAAGTACAAGAAAGACCAGAAGGCCAAGGGGCTGGCCTC
 GTCCTCTGGGGTCCCTCTCCGGCCGGAAGCCCCCGCAGCCATGCAGTCCACGGCCGGCTTATGAAC
 GCCTTACTACTCCATGACCCCCAGCTACGACAGCCCGTCCCCACCAGCTTTCGGCAAAGGCCACCAGAATG
 CCTACGCGCTGCCTTCCAACCTACCAGCCCCCTCTTAAGGGTTCGGCGCCCCACAGAAGTACCCCCGAC
 CCCGGCGTCGGAGTATGAGCCCCAGTCTCAAGCTAACGGGGCGCCTACGGGACGCCACCATGCAG
 GGCAGTCCGGTGTATGTGGCGGGGTGGTACGCGGATCCGCTGCCGCCCTGCCGGCCCTCCCTCT
 ACGGCCTCAATCACCTTTCCACCACCCTCGGGGAACCTGGACTACAACGGGGCGGCCCTATGGGCC
 CAACCAGCATCATGGACCTGTGACCTCACCCACGTACACAGACCTCTCTCTACCACGCACCGCCT
 CAGGGTAGAATCCAAGAAGCGCCCAAACCTGACACACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225553 representing NM_010458
 Red=Cloning site Green=Tags(s)

MQKATYYDNTAAALFGGYSSYPGSNGFGYDGPQPFFQAATHLEGDYQRSACSLQSLGNAAPHAKEKLN
 GSCMRPLAPEPLPAPPGSPPPSAAPTSTTSNSNNGGSPKSGPPKCGAGSNSTLTKQIFPWMKESRQTS
 KLNSSPGTAEGCGGGGGGGGGGGGGSSGGGGGGGGGDKSPPGSAASKRARTAYTSAQLVELEKEF
 HFNRYLCRPRRVEMANLLNLSERQIKIWFQNRMKYKDKQKAKGLASSSGPSPAGSPPQPMQSTAGFMN
 ALHSMTPSYDSPPPAFGKGHQAYALPSNYQPPLKCGAPQKYPTPASEYEPHVLQANGGAYGTPTMQ
 GSPVYVGGGYADPLPPAGPSLYGLNHLSHHPGNLDYNGAAMPGNQHHGPCDPHTYTDLSSHHP
 QGRIQEAPKLTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_h11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_010458

ORF Size: 1299 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](#)

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.

RefSeq: [NM_010458.2](#), [NP_034588.2](#)

RefSeq Size: 3313 bp

RefSeq ORF: 1302 bp

Locus ID: 15410

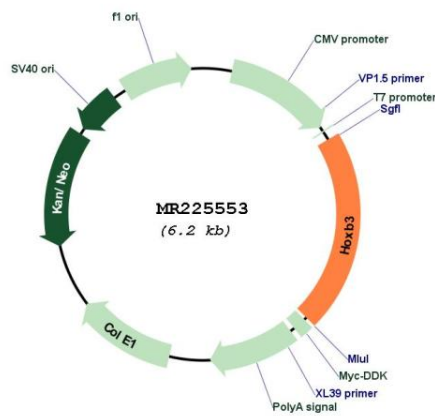
UniProt ID: [P09026](#)

Cytogenetics: 11 59.84 cM

MW: 44.8 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225553