

## Product datasheet for MR223869

### Hoxb7 (NM\_010460) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Hoxb7 (NM\_010460) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Hoxb7  
 Synonyms: AI325018; Hox-2.3  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR223869 representing NM\_010460  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGAGTTCATTGTATTATGCGAATGCTTTATTTTCTAAATATCCAGCCGCAAGTTCGGTTTTCGCTCCAG  
 GAGCCTTCCCGAACAACTTCTTGCCTTTGCTTCCAACCCAGCGCCGGGCTATGGAGCAGGTCC  
 GGGCGCTCCTTTCTCCGCTCGGTGCAGGGTCTGTACTCCGGCGGGGGCCATGGCGGCCAGAGCGCG  
 GCTGGCGTCTATCGGCGGCTACGGGCTCGAACCAGTTCCTTCAACATGCACTGCGCGCCTTTGAGC  
 AGAACCTCTCCGGGTGTGTCCGGGCGACCCCGCAAGGCGGCTGGCGCCAAGGAGCAGAGGGACTCGGA  
 CTGGCGGCCGAGAGTAACCTCCGGATCTACCCCTGGATGCGAAGCTCAGGGCCTGACCGAAAGCGAGGC  
 CGCCAGACCTACACGCGTACCAGACCCTGGAGCTGGAGAAAGAAATTTCACTACAATCGCTACCTGACTC  
 GGCGGAGGCGCATCGAGATCGCGCACACGCTCTGCCTCACCGAAAGACAGATCAAGATCTGGTTTCAGAA  
 CCGGCGCATGAAGTGAAAAAGGAGAACAAAACCTCAGGACCGGGAAACCACCGGCCAGGACAAGGCGGAA  
 GCGGAGGAGGAGGAGGAAGAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223869 representing NM\_010460  
 Red=Cloning site Green=Tags(s)

MSSLYYANALFSKYPAASSVFAPGAFPEQTSCAFASNPQRPGYGAGPGAPFSASVQGLYSGGGAMAGQSA  
 AGVYAAAGYGLEPSSFNMHCAPFEQNL SGVCPGDPAKAAGAKEQRDSDLAAESNFRIYPWMRSSGPDRKRG  
 RQTYTRYQTLELEKEFHYNRYL TRRRRIEIAHTLCL TERQIKIWFQNRMMKWKKNKTS GP GTT GQDKAE  
 AEEEEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9036\\_f01.zip](https://cdn.origene.com/chromatograms/mm9036_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010460

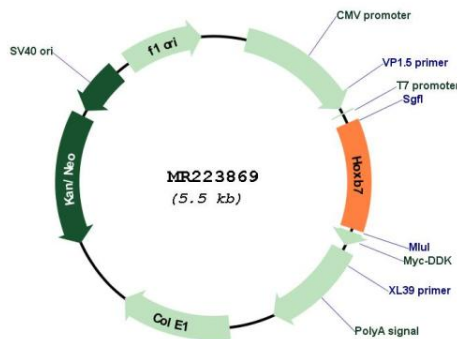
**ORF Size:** 651 bp

**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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_010460.2</a></u> , <u><a href="#">NP_034590.2</a></u>
<b>RefSeq Size:</b>	1269 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	15415
<b>UniProt ID:</b>	<u><a href="#">P09024</a></u>
<b>Cytogenetics:</b>	11 59.82 cM
<b>MW:</b>	24.4 kDa
<b>Gene Summary:</b>	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 MR223869