

Product datasheet for **MG223869**

Hoxb7 (NM_010460) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Hoxb7 (NM_010460) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Hoxb7
 Synonyms: AI325018; Hox-2.3
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG223869 representing NM_010460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTCATTGTATTATGCGAATGCTTTATTTTCTAAATATCCAGCCGCAAGTTCGGTTTTCGCTCCAG
 GAGCCTCCCGAACAACCTTCTGCGCCTTTCCTTCCAACCCAGCGCCGGGCTATGGAGCAGGTCC
 GGGCGCTCCTTCTCCGCTCGGTGCAGGGTCTGTACTCCGGCGGGGGCCATGGCGGCCAGAGCGCG
 GCTGGCGTCTATGCGCCGGCTACGGGCTCGAACCAGTTCCTTCAACATGCACTGCGCGCCTTTGAGC
 AGAACCTCTCCGGGTGTGTCCGGGCGACCCCGCAAGGCGGCTGGCGCCAAGGAGCAGAGGGACTCGGA
 CTGGCGGCCGAGAGTAACCTCCGGATCTACCCCTGGATGCGAAGCTCAGGGCCTGACCGAAAGCGAGGC
 CGCCAGACCTACACGCGTACCAGACCCTGGAGCTGGAGAAAGAATTTCACTACAATCGCTACCTGACTC
 GGCGGAGGCGCATCGAGATCGCGCACACGCTCTGCCTCACCGAAAGACAGATCAAGATCTGGTTTCAGAA
 CCGGCGCATGAAGTGAAAAAGGAGAACAACCTCAGGACCGGGAAACCACCGGCCAGGACAAGGCGGAA
 GCGGAGGAGGAGGAGGAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223869 representing NM_010460
 Red=Cloning site Green=Tags(s)

MSSLYYANALFSKYPAASSVFAPGAFPEQTSCAFASNPQRPGYGAGPGAPFSASVQGLYSGGGAMAGQSA
 AGVYAAGYGLEPSSFNMHCAPFEQNL SGVCPGDPAKAAGAKEQRDSLAAESNFR IYPWMRSSGPDRKRG
 RQTYTRYQTLELEKEFHYNRYL TRRRRIEIAHTLCL TERQIKIWFQNRMRKWKKENKTS GP GTTGDQKAE
 AEEEEEE

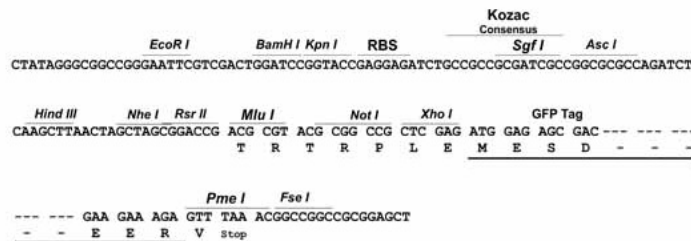
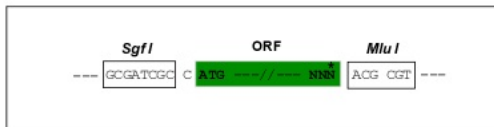
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3024_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_010460

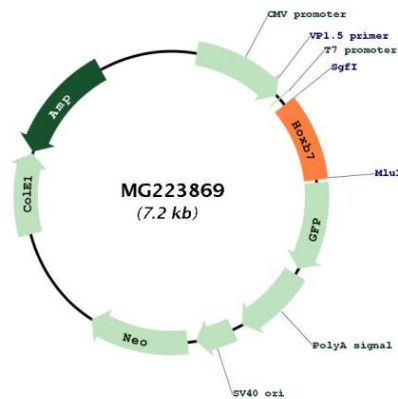
ORF Size: 651 bp

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 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:	<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:	<u>NM_010460.2, NP_034590.2</u>
RefSeq Size:	1269 bp
RefSeq ORF:	654 bp
Locus ID:	15415
UniProt ID:	<u>P09024</u>
Cytogenetics:	11 59.82 cM
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 MG223869