

Product datasheet for **MG226933**

Hoxa2 (NM_010451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa2 (NM_010451) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hoxa2
Synonyms:	AI324701; Hox-1.1; Hox-1.11; HOX1.11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226933 representing NM_010451 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTACGAATTTGAGCGAGAGATTGGTTTTATCAATAGCCAGCCGTCGCTCGCTGAGTGCCTGACAT
 CTTTTCCCTGTGCTGATACATTTCAAAGTTCATCAATCAAGACCTCGACGCTTTCACACTCGACACT
 GATTCTCTCTCTTTGAGCAGACCATTCAGCCTGAACCCGGGCAGTCACCCTCGCCACGGCGCTGGC
 GTTGGCGGCCGCCCAAGTCGAGCCCCGCGGCAGTCGCGGCAGCCGGTGCCTGCCGGCGCCCTGCAGC
 CGCCTGAGTATCCCTGGATGAAGGAGAAGAAGGCGGCCAAGAAAACCGCGCTGCCGCCGCCGCCGCTC
 CACGGGCCCTGCCTGCCTCGGCCACAAAGAATCCCTGGAAATAGCTGATGGCAGCGCGGGGATCCAGG
 CGTCTGAGAACC CGGTACACCAACTCAGCTTTTGGAGCTGGAAAAGGAATTTCAATTTCAACAAGTACC
 TTTGCAGACCCCGCAGGGTGAAATCGCCGCGCTGCTGGATTTGACCGAGAGACAAGTGAAGTGTGGTT
 TCAGAACCGGAGAATGAAGCATAAGAGGCAAACCCAGTGAAGGAGAACCAACAGCGAAGGGAATTT
 AAAACCTGGAGGACTCGGACAAAGTGGAGGAAGACGAGGAAGAGAAGTCACTCTTTGAGCAAGCCCTCA
 GTGTCTCCGGGGCCCTTCTGGAGAGGAAGGTACACTTTTCAGCAAAATGCGCTCTCTCAACAGCAGGC
 TCCCAATGGACACAATGGCGACTCCCAACTTTCCAGTTTCGCTTTAACCAGTAATGAGAAAAATTTG
 AAACATTTTCAGCACCAGTCACCACTGTTCTAACTGCTTGTCAACAATGGGCCAGAAGTGTGGAGCTG
 GCCTAAACAATGACAGTCCCGAGGCCATCGAGGTCCCCTTTTGAGGACTTCAATGTTTCTCCACAGA
 TTCTGCTGCAGCTTTGAGATGCACTGTCGCCAGCTTGCCTGGCTCCCTGGACAGTCTGTAGATATC
 TCAGCTGACAGCTTTGACTTTTTTACAGACACTCACCACAATCGACCTACAGCATCTGAATTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG226933 representing NM_010451
 Red=Cloning site Green=Tags(s)

MNYEFEREIGFINSQPSLAELTSFPPVADTFQSSSIKTSTLSHSTLIPPPFEQTIPSLNPGSHPRHGAG
 VGGRPKSSPAGSRGSPVAGALQPPEYPMKEKKAAKKTALPPAASTGPACLGHKESLEIADGSGGGSR
 RLRTAYTNTQLLELEKEFHFNKYLCPRRVEIAALLDLTERQVKVWFQNRMRMKHRQTQCKENQNSEGKF
 KNLEDSDKVEEDEEEKSLFEQALSVSGALLEREGYTFQQNALSQQAPNGHNGDSQTFPVSPLTSNEKNL
 KHFAQHSPTVPNCLSTMGQNCGAGLNNDSPAEIEVPSLQDFNVFSTDCLQLSDALSPSLPGSLDSPVDI
 SADSFDFFDTLTTIDLQHLNY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010451

ORF Size: 1116 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_010451.1](#), [NP_034581.1](#)

RefSeq Size: 1692 bp

RefSeq ORF: 1119 bp

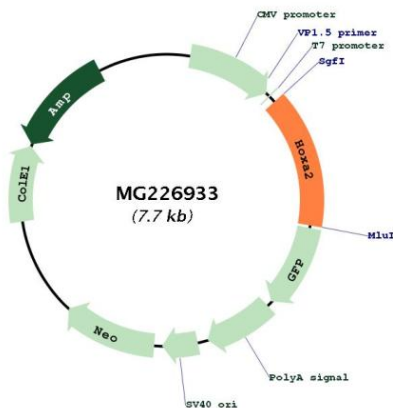
Locus ID: 15399

UniProt ID: [P31245](#)

Cytogenetics: 6 25.4 cM

Gene Summary: This gene is located in a cluster of developmentally and temporally regulated genes on chromosome 6 encoding proteins involved in pattern formation. These proteins contain a characteristic DNA-binding motif called a homeodomain and function in transcriptional regulation. There are four distinct clusters of related genes on chromosomes 2, 6, 11, and 15. The protein encoded by this gene is expressed in rhombomere 2 and is important for hindbrain formation in the early embryo. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MG226933