

Product datasheet for **MR226933**

Hoxa2 (NM_010451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa2 (NM_010451) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa2
Synonyms:	AI324701; Hox-1.1; Hox-1.11; HOX1.11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226933 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTACGAATTTGAGCGAGAGATTGGTTTTATCAATAGCCAGCCGTCGCTCGCTGAGTGCCTGACAT
 CTTTTCCCTGTGCTGATACATTTCAAAGTTCATCAATCAAGACCTCGACGCTTTCACACTCGACACT
 GATTCTCTCTCTTTGAGCAGACCATCCAGCCTGAACCCGGGCAGTCACCCTCGCCACGGCGCTGGC
 GTTGGCGCCGCCCAAGTCGAGCCCCGCGGGCAGTCGCGGCAGCCGGTGCCTGCCGGCGCCCTGCAGC
 CGCCTGAGTATCCCTGGATGAAGGAGAAGAAGGCGGCCAAGAAAACCGCGCTGCCGCCCGCCGCCCTC
 CACGGGCCCTGCCTGCCTCGGCCACAAAGAAATCCCTGGAAATAGCTGATGGCAGCGCGGGGATCCAGG
 CGTCTGAGAACC CGGTACACCAACTCAGCTTTTGGAGCTGGAAAAGGAATTTCAATTTCAACAAGTACC
 TTTGCAGACCCCGCAGGGTGAAATCGCCGCGCTGCTGGATTTGACCGAGAGACAAGTGAAGTGTGGTT
 TCAGAACCGGAGAATGAAGCATAAGAGGCAAAACCCAGTGCAAGGAGAACCACAGCAAGGGAATTT
 AAAACCTGGAGGACTCGGACAAAGTGGAGGAAGACGAGGAAGAGAAGTCACTCTTTGAGCAAGCCCTCA
 GTGTCTCCGGGGCCCTTCTGGAGAGGAAGGTACACTTTTCAGCAAAATGCGCTCTCTCAACAGCAGGC
 TCCCAATGGACACAATGGCGACTCCCAACTTTCCAGTTTCGCTTTAACCAGTAATGAGAAAAATTTG
 AAACATTTTCAGCACCAGTCACCACTGTTCTAACTGCTTGTCAACAATGGGCCAGAAGTGTGGAGCTG
 GCCTAAACAATGACAGTCCCGAGGCCATCGAGGTCCCCTTTTGAGGACTTCAATGTTTCTCCACAGA
 TTCTGCTGCAGCTTTGAGATGCACTGTCGCCAGCTTGCTGGCTCCCTGGACAGTCTGTAGATATC
 TCAGCTGACAGCTTTGACTTTTTTACAGACACACTCACCACAATCGACCTACAGCATCTGAATTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR226933 protein sequence
 Red=Cloning site Green=Tags(s)

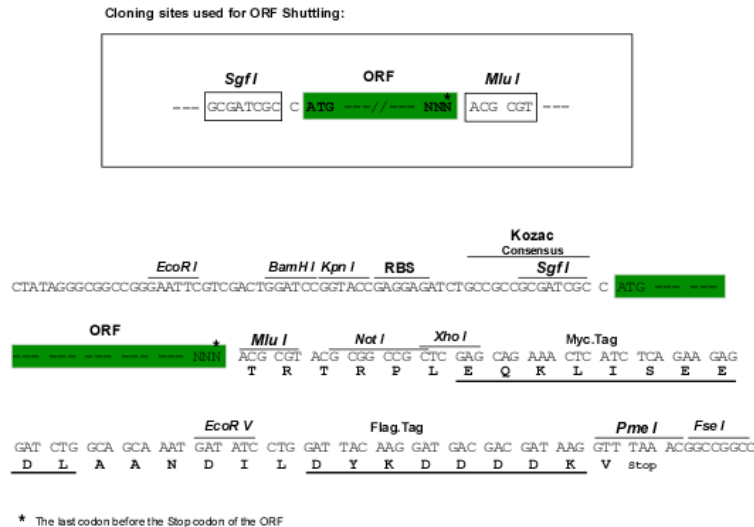
MNYEFEREIGFINSQPSLAECLTSFPPVADTFQSSSIKTSTLSHSTLIPPPFEQTIPSLNPGSHPRHGAG
 VGGRPKSSPAGSRGSPVAGALQPPEYPMKEKKAAKKTALPPAASTGPACLGHKESLEIADGSGGGS
 RLRTAYTNTQLLELEKEFHFNKYLCPRRVEIAALLDLTERQVKVWFQNRMMKHKRQTQCKENQNSEGKF
 KNLEDSKVEEDEEEKSLFEQALSVSGALLEREGYTFQQNALSQQAPNGHNGDSQTFPVSPLTSNEKNL
 KHQHQSPPTVPNCLSTMGNQCGAGLNNDSPETAEVPSLQDFNVFSTDSCLQLSDALSPSLPGSLDSPVDI
 SADSDFDFTDLTTIDLQHLNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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](#), [NM_010451.2](#), [NP_034581.1](#)

RefSeq Size: 1775 bp

RefSeq ORF: 1119 bp

Locus ID: 15399

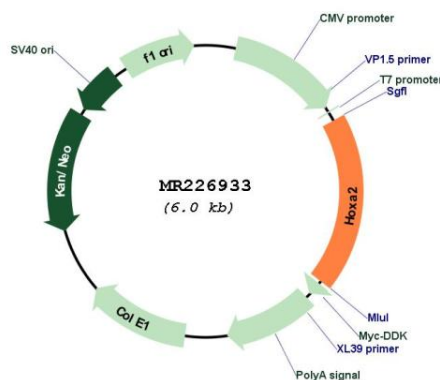
UniProt ID: [P31245](#)

Cytogenetics: 6 25.4 cM

MW: 40.8 kDa

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 MR226933