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Product datasheet for MC208679

Hoxa2 (NM_010451) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Hoxa2 (NM_010451) Mouse Untagged Clone

Tag: Tag Free

Symbol: Hoxa2

Synonyms: AI324701; Hox-1.1; Hox-1.11; HOX1.11

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF:

>MC208679 representing NM_010451
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTACGAATTTGAGCGAGAGATTGGTTTTATCAATAGCCAGCCGTCGCTCGCTGAGTGCCTGACAT
CTTTTCCCCCTGTCGCTGATACATTTCAAAGTTCATCAATCAAGACCTCGACGCTTTCACACTCGACACT
GATTCCTCCTCCTTTTGAGCAGACCATTCCCAGCCTGAACCCGGGCAGTCACCCTCGCCACGGCGCTGGC
GTTGGCGGCCGCCCCAAGTCGAGCCCCGCGGGCAGTCGCGGCAGCCCGGTGCCTGCCGGCGCCCTGCAGC
CGCCTGAGTATCCCTGGATGAAGGAGAAGAAGGCGGCCAAGAAAACCGCGCTGCCGCCCGCCGCCGCCTC
CACGGGCCCTGCCTGCCTCGGCCACAAAGAATCCCTGGAAATAGCTGATGGCAGCGGCGGGGGATCCAGG
CGTCTGAGAACCGCGTACACCAACACTCAGCTTTTGGAGCTGGAAAAGGAATTTCATTTCAACAAGTACC
TTTGCAGACCCCGCAGGGTGGAAATCGCCGCGCTGCTGGATTTGACCGAGAGACAAGTGAAAGTGTGGTT
TCAGAACCGGAGAATGAAGCATAAGAGGCAAACCCAGTGCAAGGAGAACCAAAACAGCGAAGGGAAATTT
AAAAACCTGGAGGACTCGGACAAAGTGGAGGAAGACGAGGAAGAGAAGTCACTCTTTGAGCAAGCCCTCA
GTGTCTCCGGGGCCCTTCTGGAGAGGGAAGGGTACACTTTTCAGCAAAATGCGCTCTCTCAACAGCAGGC
TCCCAATGGACACAATGGCGACTCCCAAACTTTCCCAGTTTCGCCTTTAACCAGCAATGAGAAAAATTTG
AAACATTTTCAGCACCAGTCACCCACTGTTCCTAACTGCTTGTCAACAATGGGCCAGAACTGTGGAGCTG
GCCTAAACAATGACAGTCCCGAGGCCATCGAGGTCCCCTCTTTGCAGGACTTCAATGTTTTCTCCACAGA
TTCCTGCCTGCAGCTTTCAGATGCACTGTCGCCCAGCTTGCCTGGCTCCCTGGACAGTCCTGTAGATATC
TCAGCTGACAGCTTTGACTTTTTTACAGACACACTCACCACAATCGACCTACAGCATCTGAATTACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010451

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Insert Size:	1119 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_010451.2, NP_034581.1
RefSeq Size:	1775 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]