

Product datasheet for MR222907

Hoxa11 (NM_010450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa11 (NM_010450) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa11
Synonyms:	Hox-1.; Hox-1.9; Hoxa-; Hoxa-11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222907 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGATTTTGATGAGCGTGGTCCCTGCTCCTAACATGTATTTGCCAAGTTGTACTIONACTACGTCT
CGGGTCCAGATTTCTCCAGCCTCCCTTCTTTTTGCCCCAGACCCCGTCTTCGCGCCAATGACATACTC
CTACTCTCCAACCTGCCCCAGGTCCAACCCGTGCGCGAAGTGACCTTCAGAGAGTACGCCATTGAGCCC
GCCACTAAATGGCACCCCGCGCAATCTGGCCACTGCTACTCCGCGGAGGAGCTCGTGCACAGAGACT
GTCTGCAGGCGCCAGCGCGGCCGGCTGCTGGCGACGTGCTGGCCAAGAGCTCGGCCAACGTCTACCA
CCACCCACCCCGCGCTCTCGTCCAATTTCTATAGCACGGTGGGACGGAACGGCGTTCTGCCACAGGCT
TTCGACCAGTTTTTCGAGACGGCTTACGGCACCCCGAAAACCTCGTTCTCCGACTACCCGGGGACA
AGAACGCCGAGAAGGGGCCCAAGCAGCAGCTGCGACCTCCGCTGCGGCGGTGGCGGCGGCCACGGG
CGCGCCGGCAACTTCAAGTTCGGACGGCGGGTGGCGGCGGTGTGAGGAGCGGCGGCCGAGGAGAAG
GAGCGACGGCGGCGACCCGAGAGCAGCAGCAGCCCGAGTCTGCTTCCGGCCACTGAGGACAAGGCCG
GTGGCTCCGGTGGCCAACGCACCCGAAAAAGCGCTGCCCTTATACCAAATACCAGATCCGAGAGCTGGA
GCGAGAGTTCTTCTCAGCGTCTACATCAACAAAGAGAAGCGTCTGCAACTGTCCCGCATGCTCAACCTC
ACCGACCGTCAAGTCAAAATCTGGTTTCAGAACAGAAGAATGAAGGAAAAAAGATTAACAGAGACCGGT
TACAGTACTACTCAGCTAATCCACTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222907 protein sequence
 Red=Cloning site Green=Tags(s)

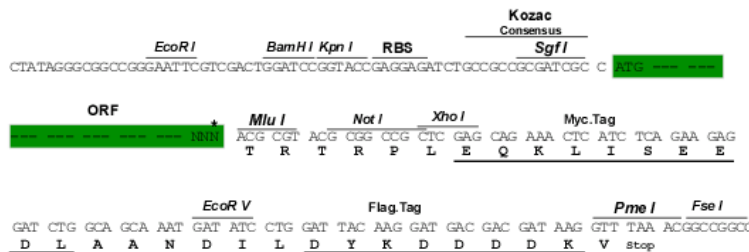
MMDFDERGPCSSNMYLPCTYYVSGPDFSSLPSFLPQTPSSRPMTYSYSSNLPQVQPVREVTFREYAIEP
 ATKWHPRGNLAHCYSAEELVHRDCLQAPSAAGVPGDVLAKSSANVYHHPTPAVSSNFYSTVGRNGVLPQA
 FDQFFETAYGTPENLASSDYPGDKNAEKGPQAAAAATSAAAVAAAAATGAPATSSSDGGGGGCQEAEEEEK
 ERRRRPESSSSPESSSGHTEDKAGSGGQRTTRKKRCPYTKYQIRELEREFFFSVYINKEKRLQLSRMLNL
 TDRQVKIWFQNRMRKEKKINRDRLQYYSANPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010450

ORF Size: 942 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:

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_010450.3](#)

RefSeq Size: 2288 bp

RefSeq ORF: 942 bp

Locus ID: 15396

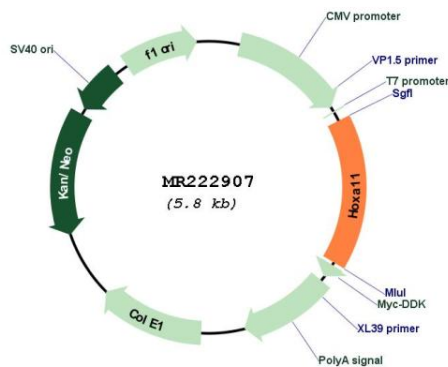
UniProt ID: [P31311](#)

Cytogenetics: 6 25.4 cM

MW: 34.5 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 important in the development of the skeleton, limbs, and urogenital tract. Expression of this gene may be regulated by overlapping transcription from an adjacent locus on the opposite strand (GenelD: 15397). [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR222907