

## 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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGATGGATTTTGATGAGCGTGGTCCCTGCTCCTAACATGTATTTGCCAAGTTGTACTTACTACGTCT  
CGGGTCCAGATTTCTCCAGCCTCCCTTCTTTTTGCCCCAGACCCCGTCTTCGCGCCCAATGACATACTC  
CTACTCTCCAACCTGCCCCAGGTCCAACCCGTGCGCGAAGTGACCTTCAGAGAGTACGCCATTGAGCCC  
GCCACTAAATGGACCCCCGCGCAATCTGGCCCACTGCTACTCCGCGGAGGAGCTCGTGCACAGAGACT  
GTCTGCAGGCGCCAGCGCGGCCGCGTGCCTGGCGACGTGCTGGCCAAGAGCTCGGCCAACGTCTACCA  
CCACCCACCCCGCCGTCTCGTCCAATTTCTATAGCACGGTGGGAGGAACGGCGTTCTGCCACAGGCT  
TTCGACCAAGTTTTTCGAGACGGCTTACGGCACCCCGGAAAACCTCGCTTCTCCGACTACCCGGGGACA  
AGAACGCCGAGAAGGGGCCCCAAGCAGCAGCTGCGACCTCCGCTGCGGCGGTGGCGGCGCGGCCACGGG  
CGCGCCGGCAACTTCAAGTTCGGACGGCGGCGGTGGCGGCGGCTGTGAGGAGCGCGCGGAGGAGAAG  
GAGCGACGGCGGCGACCCGAGAGCAGCAGCCCCGAGTCTGCTTCCGGCCACACTGAGGACAAGGCCG  
GTGGCTCCGGTGGCCAACGCACCCGAAAAAGCGCTGCCCTTATACCAATACCAGATCCGAGAGCTGGA  
GCGAGAGTTCTTCTTCAGCGTCTACATCAACAAAGAGAAGCGTCTGCAACTGTCCCGCATGCTCAACCTC  
ACCGACCGTCAAGTCAAAATCTGGTTTCAGAACAGAAGAATGAAGGAAAAAAGATTAACAGAGACCGGT  
TACAGTACTACTCAGCTAATCCACTTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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

MMDFDERGPCSSNMYLPCTYYVSGPDFSSLPSFLPQTPSSRPMTYSYSSNLPQVQPVREVTFREYAIEP  
 ATKWHPRGNLAHCYSAEELVHRDCLQAPSAAGVPGDVLAKSSANYHHPTPAVSSNFYSTVGRNGVLPQA  
 FDQFFETAYGTPENLASSDYPGDKNAEKGPAQAAATSAAAVAAAATGAPATSSSDGGGGGCGQEAEEK  
 ERRRRPESSSSPESSSGHTEDKAGSGGQRTKKRCPTYKYQIRELEREFFFSVYINKEKRLQLSRMLNL  
 TDRQVKIWFQNRMRKEKKINRDLQYYSANPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010450

**ORF Size:** 939 bp

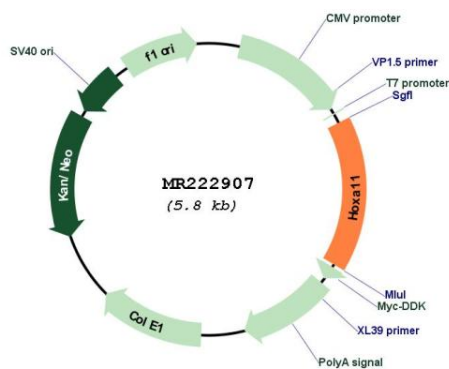
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_010450.3</a></u>
<b>RefSeq Size:</b>	2288 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	15396
<b>UniProt ID:</b>	<u><a href="#">P31311</a></u>
<b>Cytogenetics:</b>	6 25.4 cM
<b>MW:</b>	34.5 kDa
<b>Gene Summary:</b>	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 (GeneID: 15397). [provided by RefSeq, Mar 2013]

## Product images:



Circular map for MR222907