

Product datasheet for MR203609

Hoxa9 (NM_010456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa9 (NM_010456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa9
Synonyms:	D6a; D6a9; Hox-1.; Hox-1.7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203609 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCACCGGGCCCTGGGCAACTACTATGTGGACTCCTTCTGCTGGGCGCCGACGCTGCTGATG
AGCTGGGTGCGGGACGCTACGCTCCAGGGACCCTGGGTCAACCCCAAGGCAGGCGGCAGCTCTTGCCGA
ACACCCCGACTTCAGTCTTGCAGCTTCCAGTCCAAGGCGCGGTGTTTGGTGCCTCGTGAACCCAGTG
CACGCGCGGGCCCAATGCGGTGCCTGCTGCAGTGTATCATCACCACCACCACCCCTACGTGCATCCCC
AGGCGCCCGTGGCGGCGGCGCGCCGGACGGCAGGTATATGCGCTCCTGGCTGGAACCCAGCCCGGTGC
GCTCTCCTTCGCGGGCTTACCCTCCAGCCGGCCTTATGGCATTAAACCTGAACCGCTCTCGCCAGAAGG
GGTGAAGTGTCCACGCTTGACACTCACACTTTGTCCCTGACTGACTATGCTTGTGTTTCTCCTCCAGTTG
ATAGAGAAAAACAACCCAGCGAAGGCGCCTTCTCCGAAAAAATGCCGAGAATGAGAGCGGCGGAGACAA
GCCCCCATCGATCCCAATAACCCGGCTGCCAAGTGGCTACATGCTCGCTCCACTCGGAAGAAGCGATGC
CCCTACACAAAACACCAGACGCTGGAAGTGGAGAAGGAGTTTCTGTTTAAACATGTACCTCACACGGGACC
GCAGGTACGAGGTGGCCCGGCTGCTCAACCTCACCGAAAGGCAGGTCAAGATCTGTTCCAGAACCCGAG
GATGAAAATGAAGAAAATCAACAAGGACCGAGCAAAAAGACGAG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR203609 protein sequence
 Red=Cloning site Green=Tags(s)

MATTGALGNYYVDSFLLGADADELGAGRYAPGTLGQPPRQAAALAEHPDFSPCSFQSKAAVFGASWNPV
 HAAGANAVPAAVYHHHHHPYVHPQAPVAAAAPDGRYMRSWLEPTPGALSFAGLPSSRPYGIKPEPLSARR
 GDCPTLDTHTLSTLDYACGSPVDREKQFSEGAFFENNAENESGGDKPPIDPNNPAAANWLHARSTRKKRC
 PYTKHQTLLEKEFLFNMYLTRRRYEVARLLNLERQVKIWFQNRMRMKMKKINKDRAKDE

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_010456

ORF Size: 816 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.

RefSeq: [NM_010456.1](#), [NM_010456.2](#), [NM_010456.3](#), [NP_034586.1](#)

RefSeq Size: 3229 bp

RefSeq ORF: 816 bp

Locus ID: 15405

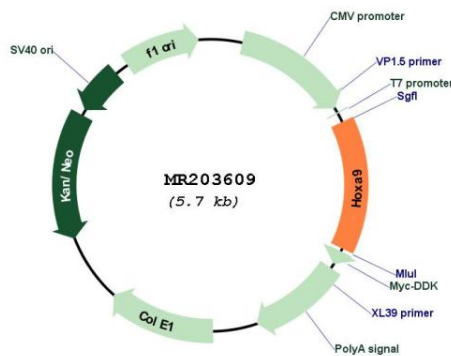
UniProt ID: [P09631](#)

Cytogenetics: 6 25.4 cM

MW: 29.9 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 similar genes on chromosomes 2, 6, 11, and 15. The protein encoded by this gene is important for hematopoiesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR203609