

Product datasheet for MR206267

Hoxa10 (NM_008263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa10 (NM_008263) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa10
Synonyms:	Hox-1.8; Hoxa-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206267 representing NM_008263 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCAGCCAGAAAGGGCTATCTGCTCCCTTCGCCAAATTATCCCACAACAATGTCATGCTCGGAGAGCC
CTGCCCGAACTCCTTTTTGGTCGACTCGCTCATCAGCTCAGGCAGAGGCGAGGCTGGTGTGGTGGCGG
TAGCGCGGGGGCGGTGGAGGTGGCTACTACGCCACGGTGGGTCTACCTGCCGCTGCCAGCGACCTG
CCCTACGGGCTCAAAGCTGCGGGCTTCCCCGCGTGGGCAGCAAGCGTAATGAAGCGCGCTGCCCCG
GAGGCGGTGGCGTGGTGGCAGCGGGGCTGGTCTGGGACGCATGGCTACGCGCCCGCCCTAG
CCTGTGGCTGGACGCGCCCGCTCCTGCCGGATGGAGCCGCCGACGGGCGCCGCCACCGCAGCCACAA
CCCCAGCAGCAGCAGCAGCAGCCGCGCCGCCGCCGCCGCGCAGCCACTCAACCCAGCCACAGGCCACTT
CGTGTCTTTTGCAGAAATCAAAGAAGAGAGCTCCTACTGCCTCTACGATGCTGCGGACAAATGCC
CAAGGGCTCGGCCGCGCTGATCTGGCCCTTTCCCGGGGGCCGCCGCCGACGGCTGCGCCCTGGG
GCCTCCAGCGGAGTGCCAGTACCGGCTACTTCCGCTGTGCGAGGCTACGGCAGGCCAAGGGCTTCG
GCAGTGGCGGGCGGCAGCAGCAGCTCGTAGTCCCTTTCTGCGAGCCCGGGGCGCGGTTTCGA
CCCGCCCGCCACTGGCCTCTGGCTCGACCGAGGCGGGGAGGAGGAGTCTAGACTCCACGCCA
CCACCCACTCTGTTTGCACCGGTGGCGGGCTCGCAGGGCGACGAGGAGGCACACGCTCATCTCGG
CGGCTGAGGAGCTGTCTCCAGCCCTTCAGAAAACAGTAAAGTTTCGCCGAGAAGGACTCCCTGGGAG
TTCAAAGCGCAAAATGCAGCCAACTGGCTCACAGCAAAGAGCGGCCGGAAGAAACGCTGCCCTACAG
AAGCACAGAGCTGGAGCTGGAGAAGGAGTTTCTATTCAACATGTACCTTACTCGAGAGCGGCGCTAG
AGATCAGCCGTAGCGTCCACCTCACGGACAGACAAGTAAAAATCTGGTTTCAGAAATCGCAGGATGAACT
GAAGAAAATGAACCGAGAAAACCGAATCCGGGAGCTCACAGCCAACTTTAATTTTTCC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206267 representing NM_008263
 Red=Cloning site Green=Tags(s)

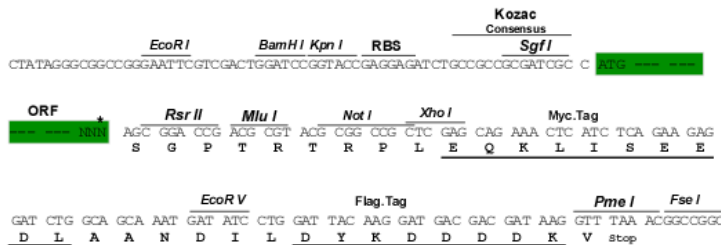
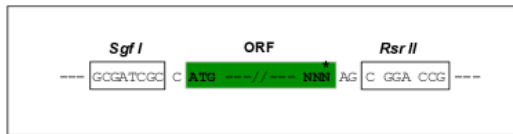
MSARKGYLLPSPNYPTTMSCESPAANSFLVDSLISGRGEAGVGGGSAGGGGGYAHGGVYLPASDL
 PYGLQSCGLFPALGSKRNEAPSPGGGGGGSGGLGPGTHGYAPAPLDLWLDAPRSCRMEPPDGPQQPQ
 PQQQQQPPPPPPQPPQPPQATSCSFAQNIKEESSYCLYDAADKCPKGSAAADLAPFRGPPPDGCALG
 ASSGVVPVPGYFRLSQAYGTAKFGSGGGGTQQLASPFPAQPPGRGFDDPPPALASGSTEAAKERVLDSTP
 PPTLVCTGGGGSQGDDEEAHASSAAEELSPAPSENSKASPEKDSLGSKGENAANWLAKSGRKKRCPYT
 KHQTLLELEKEFLFNMYLTRRRLEISRSVHLTDRQVKIWFQNRMKLKKMNRENRIREL TANFNFS

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_008263

ORF Size: 1248 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_008263.3](#), [NP_032289.2](#)

RefSeq Size: 2581 bp

RefSeq ORF: 1251 bp

Locus ID: 15395

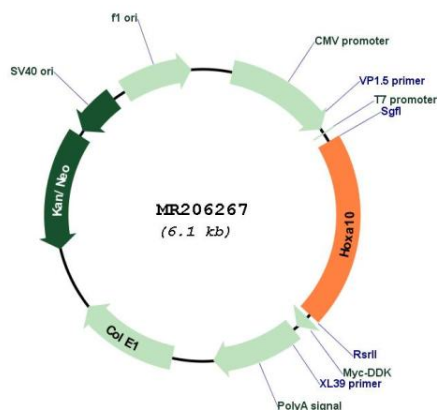
UniProt ID: [P31310](#)

Cytogenetics: 6 25.4 cM

MW: 43.3 kDa

Gene Summary: In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of a cluster on chromosome 6 and encodes a DNA-binding transcription factor that may regulate gene expression, morphogenesis, and differentiation. More specifically, it may function in fertility, embryo viability, and regulation of hematopoietic lineage commitment. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR206267