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Product datasheet for MR223043

Hoxa10 (NM_001122950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa10 (NM_001122950) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa10
Synonyms:	Hox-1.8; Hoxa-10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR223043 representing NM_001122950 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTCAAGGCAGTTCCAAAGGCGAAAATGCAGCCAACTGGCTCACAGCAAAGAGCGGCCGGAAGAAAC GCTGCCCTTACACGAAGCACCAGACGCTGGAGCTGGAGAAGGAGTTTCTATTCAACATGTACCTTACTCG AGAGCGGCGCCTAGAGATCAGCCGTAGCGTCCACCTCACGGACAGACAAGTGAAAATCTGGTTTCAGAAT CGCAGGATGAAACTGAAGAAAATGAACCGAGAAAACCGAATCCGGGAGCTCACAGCCAACTTTAATTTTT CC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR223043 representing NM_001122950 Red=Cloning site Green=Tags(s) MSQGSSKGENAANWLTAKSGRKKRCPYTKHQTLELEKEFLFNMYLTRERRLEISRSVHLTDRQVKIWFQN RRMKLKKMNRENRIRELTANFNFS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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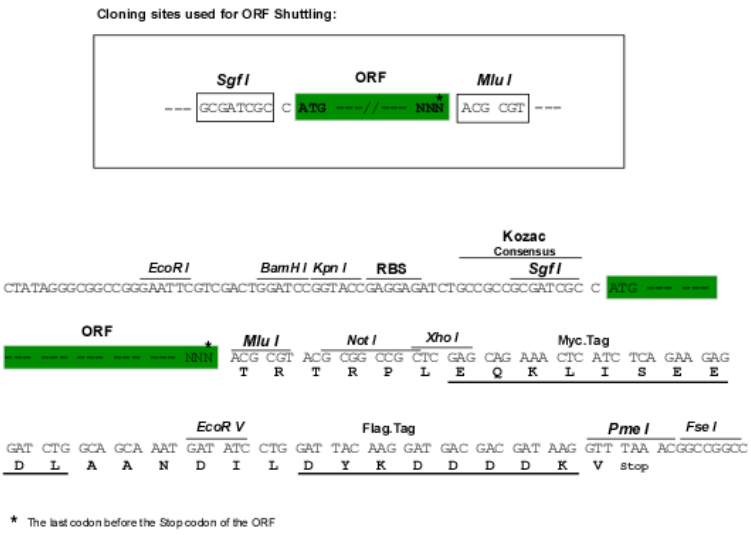
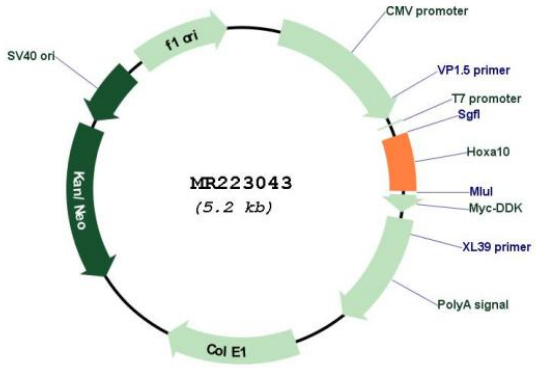
Cloning Scheme:



Plasmid Map:



ACCN: NM_001122950

ORF Size: 282 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_001122950.2, NP_001116422.1
RefSeq Size:	2177 bp
RefSeq ORF:	285 bp
Locus ID:	15395
UniProt ID:	P31310
Cytogenetics:	6 25.4 cM
MW:	11.9 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]