

Product datasheet for **RR214214**

Hoxa1 (NM_013075) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa1 (NM_013075) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214214 representing NM_013075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACAATGCAAGAATGAACCTCTTTCTGGAATACCCCATCCTTGGCAGTGGCGATTCTGGACCTGCT
CGGCGCGAGTTTACTCCTCTGACCATGGAATTACAACCTTCCAATCCTGCGCGGTCACTGCCAACAGCTG
CGGCGGCGACACCGCTTCTAGGGGGCAGGGGGTGCAGATCACCTCGCCCCATCACCACCACCAC
CATCACCATCCCCAGCCGCTACTTACCAGACTTCTGGGAACCTTGGGGTTTCTTATTCCCACTCGAGTT
GTGGTCCAAGCTATGGCGCGCAGAACTTCACTGCGCCTTATGGCCCTATGGATTAATCAGGAAGCAGA
CGTAAGTGGTGGGTACCCCCGTGCGCTCCCGCTGTTTACTCTGGAAACCTCTCGTCTCCCATGGTCCAG
CATCACCACCACCAGGGTTATGCTGGGGGCACAGTGGGCTCGCCCCAGTACATTCACTCATATG
GACAAGAGCACCAGAGTCTGGCCCTGGCCACGTATAATAACTCCTTATCCCCTCTCCAGCCAGCCACCA
AGAAGCCTGTCGTTCCCCTGCTTCAAGACGCTTCTCCAGCGCAGACCTTTGACTGGATGAAAGTTAA
AGAAACCTCCCCAAAACAGGGAAAGTTGGAGAGTATGGCTACGTGGTCAACCAACGCAGTGCACCA
ACTTCAACCAAGCAGCTCACAGAGCTGGAGAAGGAGTTCCACTTCAACAAGTACCTAACAGAGCCCG
CAGGGTGGAGATAGCCGGTCCCTGCAACTCAATGAGACCAGGTGAAGATCTGGTTCCAGAATCGCCGC
ATGAAGCAGAAGAAGCGGAGAAAGAGGGGCTCTTGCCATTTCAACCGCCACCCCTCTGGAAGCGATG
AGAAAACCTGAAGAATCATCTGAGAAATCCAGCTCCTCGCCAGCGCCCTTCTCCCGCATCATCTACCT
AGATACTCTGACTACCTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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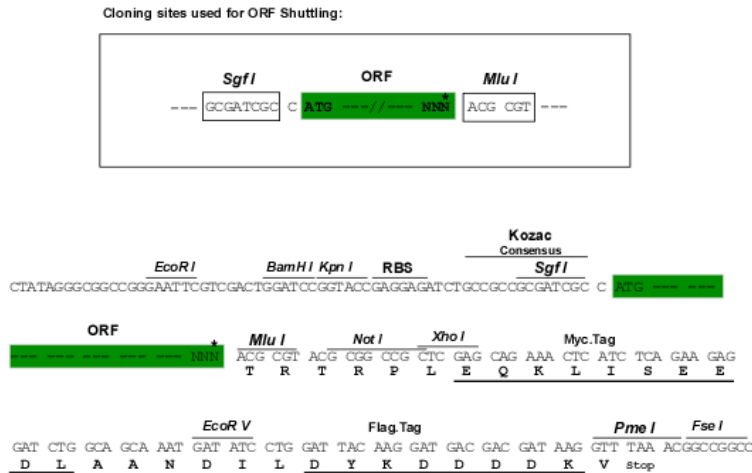
Protein Sequence: >RR214214 representing NM_013075
 Red=Cloning site Green=Tags(s)

MDNARMNSFLEYPILGSGDSGTCSARVYSSDHGITTFFQSCAVSANS CGGDDRFLGGRGVQITSPHHHHH
 HHHHPQATYQTSNGLVSYSHSSCGPSYGAQNF SAPYGPYGLNQEADVSGGYPPCAPAVYSGNLS SPMVQ
 HHHHHQGYAGGTVGSPOYIHHSYGQEHQSLALATYNNLSPLHASHQEACRSPASETSSPAQTFDWMKVK
 RNPPKTGKVGEGYVVGQPNVARTNFTTKQLTELEKEFHFNKYL TRARRVEIAASLQLNETQVKIWFQNR
 MKQKKREKEGLLPISPATPPGSDKTEESSEKSSSSPSAPSASSTDTLTTSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

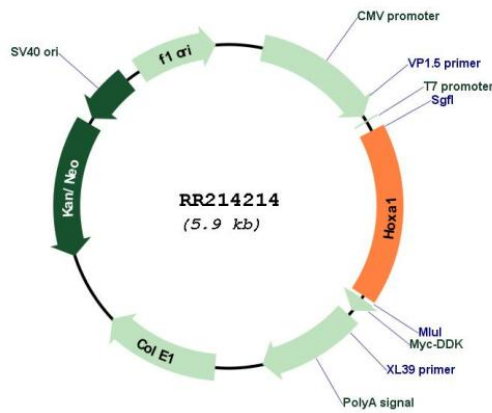
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_013075

ORF Size:	1002 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:	<ol style="list-style-type: none">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_013075.2 , NP_037207.2
RefSeq Size:	1333 bp
RefSeq ORF:	1005 bp
Locus ID:	103690132
Cytogenetics:	4q24
MW:	36.3 kDa
Gene Summary:	sequence specific transcription factor, may regulate positional development along the anterior-posterior axis, may be important for the maintenance and/or development of hindbrain segments [RGD, Feb 2006]