

Product datasheet for RC207569

HOXA1 (NM_005522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA1 (NM_005522) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXA1
Synonyms:	BSAS; HOX1; HOX1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207569 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAATGCAAGAATGAACTCCTTCTGGAATACCCATACTTAGCAGTGGCGACTCGGGGACCTGCT
CAGCCCGAGCCTACCCCTCGGACCATAGGATTACAACCTTCCAGTCGTGCGCGGTGAGCGCAACAGTTG
CGGCGGCGACGACCGCTTCTAGTGGGCGAGGGGGTGCAGATCGGTTCCGCCACCACCACCACCACC
CACCATCACCACCCAGCCGGTACCTACCAGACTTCCGGGAACCTGGGGGTGCTCTACTCCCACTCAA
GTTGTGGTCCAAGCTATGGCTCACAGAACTTCAGTGCCTTACAGCCCTACGCGTTAAATCAGGAAGC
AGACGTAAGTGGTGGGTACCCCACTGCGCTCCCGCTGTTTACTCTGAAATCTCTCATCTCCCATGGTC
CAGCATCACCACCACCAGGGTTATGCTGGGGCGCGTGGGCTCGCCTCAATACATTACCACCTCAT
ATGGACAGGAGCACCAGAGCCTGGCCCTGGCTACGTATAATAACTCCTTGTCCCTCTCCAGCCAGCCA
CCAAGAAGCCTGTCGCTCCCGCATCGGAGACATCTTCCAGCGCAGACTTTTGACTGGATGAAAGTC
AAAAGAAACCTCCAAAACAGGAAAGTTGGAGAGTACGGTACCTGGGTCAACCAACGCGGTGCGCA
CCAACCTCACTACCAAGCAGCTCACGGAAGTGGAGAAGGATTCACCTCAACAAGTACCTGACGCGCGC
CCGAGGGTGGAGATCGCTGCATCCCTGCAGCTCAACGAGACCAAGTGAAGATCTGGTCCAGAACC
CGAATGAAGCAAAGAAACGTGAGAAGGAGGCTCTTTGCCATCTCTCCGCCACCCCGCCAGGAAACG
ACGAGAAGGCCGAGGAATCCTCAGAGAAGTCCAGCTCTTCGCCCTGCGTTCCTTCCCGGGGTCTTCTAC
CTCAGACACTCTGACTACCTCCAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC207569 protein sequence
Red=Cloning site Green=Tags(s)

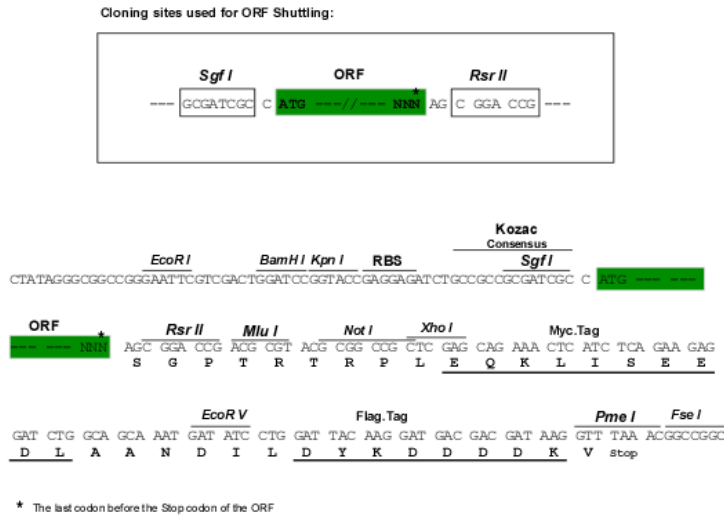
MDNARMNSFLEYPILSSGDSGTCSARAYPSDHRITTFQSCAVSANS CGGDDRFLVGRGVQIGSPHHHHH
 HHHHPQATYQTSGNLGVSYSHSCGPSYGSQNF SAPYSPYALNQEADVSGGYPQCAPAVYSGNLSSPMV
 QHHHHHQGYAGGAVGSPQYIHHSYGQEHQSLALATYNNLSPLHASHQEACRSPASETSSPAQTFDWMKV
 KRNPPTGKVGEGYLGQPNVARTNFTTKQLTELEKEFHFNKYL TRARRVEIAASLQLNETQVKIWFQNR
 RMKQKKREKGLLPI SPATPPGNDEKAEESSEKSSSSPCVPSPGSSTSDTLTTS

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6619_e05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005522

ORF Size: 1005 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_005522.4](#)

RefSeq Size: 2561 bp

RefSeq ORF: 1008 bp

Locus ID: 3198

UniProt ID: [P49639](#)

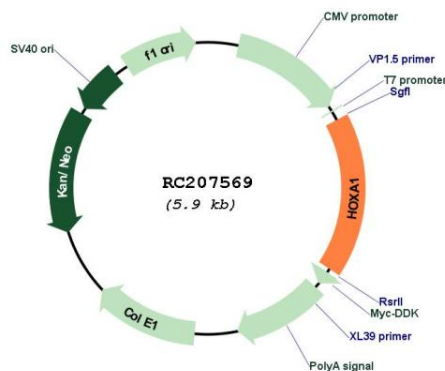
Cytogenetics: 7p15.2

Protein Families: Druggable Genome, Transcription Factors

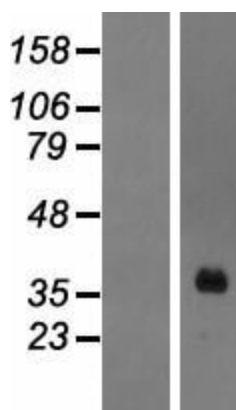
MW: 36.6 kDa

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 the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. The encoded protein may be involved in the placement of hindbrain segments in the proper location along the anterior-posterior axis during development. Two transcript variants encoding two different isoforms have been found for this gene, with only one of the isoforms containing the homeodomain region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC207569



Western blot validation of overexpression lysate (Cat# [LY417249]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207569 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).