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Product datasheet for RG207569

HOXA1 (NM_005522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA1 (NM_005522) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXA1
Synonyms:	BSAS; HOX1; HOX1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207569 representing NM_005522
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAATGCAAGAATGAACTCCTTCCTGGAATACCCCATACTTAGCAGTGGCGACTCGGGGACCTGCT
CAGCCCGAGCCTACCCCTCGGACCATAGGATTACAACTTTCCAGTCGTGCGCGGTCAGCGCCAACAGTTG
CGGCGGCGACGACCGCTTCCTAGTGGGCAGGGGGGTGCAGATCGGTTCGCCCCACCACCACCACCACCAC
CACCATCACCACCCCCAGCCGGCTACCTACCAGACTTCCGGGAACCTGGGGGTGTCCTACTCCCACTCAA
GTTGTGGTCCAAGCTATGGCTCACAGAACTTCAGTGCGCCTTACAGCCCCTACGCGTTAAATCAGGAAGC
AGACGTAAGTGGTGGGTACCCCCAGTGCGCTCCCGCTGTTTACTCTGGAAATCTCTCATCTCCCATGGTC
CAGCATCACCACCACCACCAGGGTTATGCTGGGGGCGCGGTGGGCTCGCCTCAATACATTCACCACTCAT
ATGGACAGGAGCACCAGAGCCTGGCCCTGGCTACGTATAATAACTCCTTGTCCCCTCTCCACGCCAGCCA
CCAAGAAGCCTGTCGCTCCCCCGCATCGGAGACATCTTCTCCAGCGCAGACTTTTGACTGGATGAAAGTC
AAAAGAAACCCTCCCAAAACAGGGAAAGTTGGAGAGTACGGCTACCTGGGTCAACCCAACGCGGTGCGCA
CCAACTTCACTACCAAGCAGCTCACGGAACTGGAGAAGGAGTTCCACTTCAACAAGTACCTGACGCGCGC
CCGCAGGGTGGAGATCGCTGCATCCCTGCAGCTCAACGAGACCCAAGTGAAGATCTGGTTCCAGAACCGC
CGAATGAAGCAAAAGAAACGTGAGAAGGAGGGTCTCTTGCCCATCTCTCCGGCCACCCCGCCAGGAAACG
ACGAGAAGGCCGAGGAATCCTCAGAGAAGTCCAGCTCTTCGCCCTGCGTTCCTTCCCCGGGGTCTTCTAC
CTCAGACACTCTGACTACCTCCCAC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

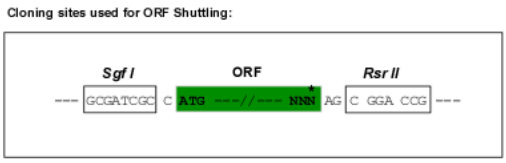
>RG207569 representing NM_005522
Red=Cloning site Green=Tags(s)

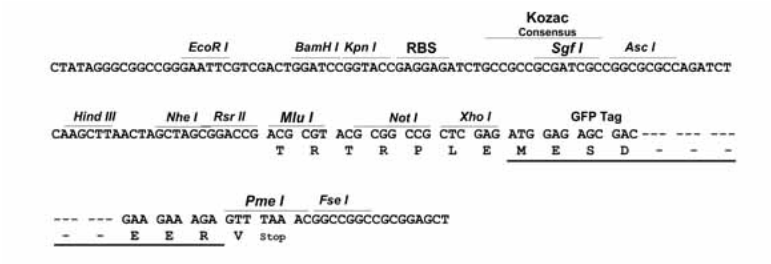
MDNARMNSFLEYPILSSGDSGTCSARAYPSDHRITTFQSCAVSANSCGGDDRFLVGRGVQIGSPHHHHHH
HHHHPQPATYQTSGNLGVSYSHSSCGPSYGSQNFSAPYSPYALNQEADVSGGYPQCAPAVYSGNLSSPMV
QHHHHHQGYAGGAVGSPQYIHHSYGQEHQSLALATYNNSLSPLHASHQEACRSPASETSSPAQTFDWMKV
KRNPPKTGKVGEYGYLGQPNAVRTNFTTKQLTELEKEFHFNKYLTRARRVEIAASLQLNETQVKIWFQNR
RMKQKKREKEGLLPISPATPPGNDEKAEESSEKSSSSPCVPSPGSSTSDTLTTSH

SGPTRTRRLE – GFP Tag – V

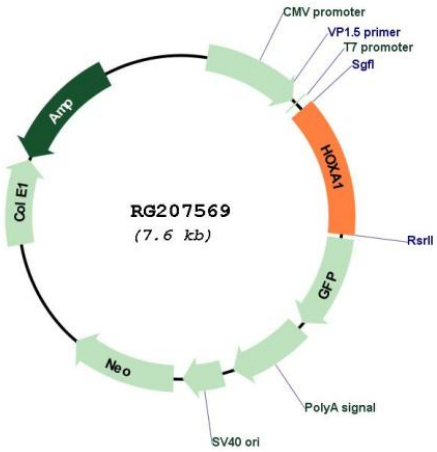
Restriction Sites: SgfI-RsrII

Cloning Scheme:





Plasmid Map:



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:	2530 bp
RefSeq ORF:	1008 bp
Locus ID:	3198
UniProt ID:	P49639
Cytogenetics:	7p15.2
Protein Families:	Druggable Genome, Transcription Factors
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]