

## 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAATGCAAGAATGAACTCCTTCTGGAATACCCATACTTAGCAGTGGCGACTCGGGGACCTGCT  
CAGCCCGAGCCTACCCCTCGGACCATAGGATTACAACCTTCCAGTCGTGCGCGGTGAGCGCAACAGTTG  
CGGCGGCGACGACCGCTTCTAGTGGGCAGGGGGTGCAGATCGGTTGCCCCACCACCACCACCACC  
CACCATCACCACCCAGCCGGTACCTACCAGACTTCCGGGAACCTGGGGGTGCTCTACTCCCACTCAA  
GTTGTGGTCCAAGCTATGGCTCACAGAACTTCAGTGCCTTACAGCCCCTACGCGTTAAATCAGGAAGC  
AGACGTAAGTGGTGGGTACCCCACTGCGCTCCGCTGTTTACTCTGAAATCTCTCATCTCCCATGGTC  
CAGCATCACCACCACCAGGGTTATGCTGGGGCGCGTGGGCTCGCCTCAATACATTACCACCTCAT  
ATGGACAGGAGCACCAGAGCCTGGCCCTGGCTACGTATAATAACTCCTTGTCCCCTCTCCAGCCAGCCA  
CCAAGAAGCCTGTCGCTCCCCGCATCGGAGACATCTTCTCCAGCGCAGACTTTTGACTGGATGAAAGTC  
AAAAGAAACCTCCAAAACAGGAAAGTTGGAGAGTACGGTACCTGGGTCAACCAACGCGGTGCGCA  
CCAACCTCACTACCAAGCAGCTCACGGAAGTGGAGAAGGAGTTCCACTTCAACAAGTACCTGACGCGCGC  
CCGAGGGTGGAGATCGCTGCATCCCTGCAGCTCAACGAGACCAAGTGAAGATCTGTTCCAGAACC  
CGAATGAAGCAAAGAAACGTGAGAAGGAGGTTCTTTGCCATCTCTCCGCCCACCCCGCCAGGAAACG  
ACGAGAAGGCCGAGGAATCCTCAGAGAAGTCCAGCTCTTCGCCCTGCGTTCCTTCCCGGGGTCTTCTAC  
CTCAGACTCTGACTACCTCCAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

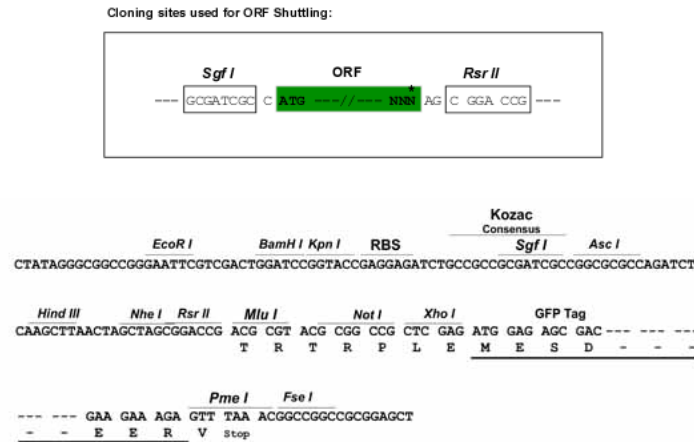
**Protein Sequence:** >RG207569 representing NM\_005522  
Red=Cloning site Green=Tags(s)

MDNARMNSFLEYPILSSGDSGTCSARAYPSDHRITTFQSCAVSANS CGGDDRFLVGRGVQIGSPHHHHH  
 HHHHPQATYQTSNGLVSYSHSSCGPSYGSQNF SAPYSPYALNQEADVSGGYPQCAPAVYSGNLS SPMV  
 QHHHHHQYAGGAVGSPQYIHHSYGQEHQSLALATYNNLSPLHASHQEACRSPASETSSPAQTFDWMKV  
 KRNPPTGKVGVEYGLGQPNAVRTNFTTKQLTELEKEFHFNKYL TRARRVEIAASLQLNETQVKIWFQNR  
 RMKQKKREKGLLPI SPATPPGNDEKAEESSEKSSSSPCVSPGSSTSDTLTTS

SGPTRRRLE - GFP Tag - V

**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:** 2530 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 3198

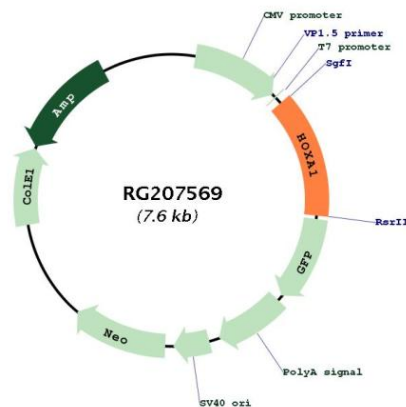
**UniProt ID:** [P49639](#)

**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]

### Product images:



Circular map for RG207569