

Product datasheet for **RG200559**

HOXA9 (NM_152739) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA9 (NM_152739) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXA9
Synonyms:	ABD-B; HOX1; HOX1.7; HOX1G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200559 representing NM_152739 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCCTGGGGCCCTGGGCAACTACTACGTGGACTCGTTCCTGCTGGGCGCCGACGCCGCGGATG
AGCTGAGCGTTGGCCGCTATGCGCCGGGGACCCTGGGCCAGCCTCCCGGCAGGCGGCGACGCTGGCCGA
GCACCCCGACTTCAGCCCGTGCAGCTTCCAGTCCAAGGCGACGGTGTGGCGCCTCGTGAACCCAGTG
CACGCGGCGGGCCCAACGCTGTACCCGCTGCGGTGTACCACCACCATCACCACCACCCCTACGTGCACC
CCCAGGCGCCCGTGGCGGCGGCGCGCCGACGGCAGGTACATGCGCTCCTGGCTGGAGCCACGCCCGG
TGCCTCTCCTTCGCGGGCTTGCCCTCCAGCCGCTTATGGCATTAAACCTGAACCGCTGTCGGCCAGA
AGGGGTGACTGTCCCACGCTTGACACTCACACTTTGTCCCTGACTGACTATGCTTGTGGTTCTCCTCCAG
TTGATAGAGAAAAACAACCCAGCGAAGGCGCTTCTCTGAAAACAATGCTGAGAATGAGAGCGGCGGAGA
CAAGCCCCCATCGATCCCAATAACCCAGCAGCCAACCTGGCTTATGCGCGCTCCACTCGAAAAAGCGG
TGCCCTATACAAAACACCAGACCCTGGAAGTGGAGAAAGAGTTTCTGTTCAACATGTACCTCACCAGGG
ACCGCAGGTACGAGGTGGCTCGACTGCTCAACCTCACCAGAGGCGAGTCAAGATCTGGTTCCAGAACCG
CAGGATGAAAATGAAGAAAATCAACAAAGACCGAGCAAAAGACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200559 representing NM_152739
 Red=Cloning site Green=Tags(s)

MATTGALGNYYVDSFLLGADAADEL SVGRYAPGTLGQPPRQAATLAEHPDFSPCSFQSKATVFGASWNPV
 HAAGANAVPAAVYHHHHHPYVHPQAPVAAAAPDGRYMRSWLEPTPGALSFAGLPSSRPYGIKPEPLSAR
 RGDCTPLDTHLTLSDYACGSPVDREKQPSGAF SENNAENESGGDKPPIDPNNPAANWLHARSTRKKR
 CPYTKHQTLELEKEFLFNMYLTRDRRYEVARLLNLERQVKIWFQNRMMKMKKINKDRAKDE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152739

ORF Size: 816 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_152739.4](#)

RefSeq Size: 2076 bp

RefSeq ORF: 819 bp

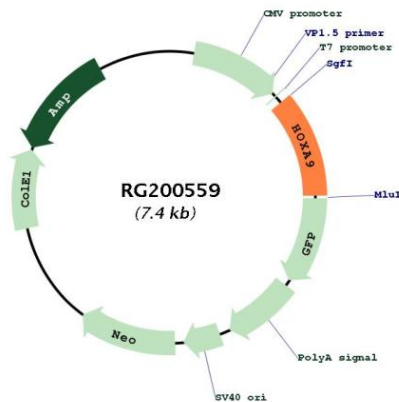
Locus ID: 3205

UniProt ID: [P31269](#)

Cytogenetics: 7p15.2

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. This gene is highly similar to the abdominal-B (Abd-B) gene of Drosophila. A specific translocation event which causes a fusion between this gene and the NUP98 gene has been associated with myeloid leukemogenesis. Read-through transcription exists between this gene and the upstream homeobox A10 (HOXA10) gene.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RG200559