

## Product datasheet for **RG206492**

### HOXD9 (NM\_014213) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HOXD9 (NM\_014213) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HOXD9  
**Synonyms:** Hox-4.3; Hox-5.2; HOX4; HOX4C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206492 representing NM\_014213  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGTCCTCCAGTGGCACCCCTCAGCAACTACTACGTGGACTCGCTTATAGGCCATGAGGGCGACGAGGTGT  
 TCGCGGCGCGCTTCGGGCCGCGGGGCCAGGCGCGCAGGGCCGGCCTGCAGGTGTGGCTGATGGCCCGGC  
 CGCCACCGCCGCGAGTTCGCTCGTGTAGTTTGGCCCCAGATCGGCCGTGTTCTCTGCCTCGTGGTCC  
 GCGGTGCCCTCCAGCCCCGGCAGCGGGCGGATGAGCGGCCTCTACCACCCGTACGTTCCCCCGCCG  
 CCCTGGCCGCTCTGCCTCCGAGCCCGGCCCTACGTGCGCTCCTGGATGGAGCCGCTGCCCGGCTTCCC  
 GGGCGGTGCGGGCGGTGGCGGTGGTGGAGGCGGCGGTCCGGGCCGGTCCCAGCCCTGGCCCCAGCG  
 GCCAGCCAACGGGCTGCCACTACGGGATTAAGCCTGAAACCCGAGCGGCCCGGCCCGCCACGGCCG  
 CCTCCACCACCTCCTCCTCCTCCACTTCTTATCCTCCTCCTCCAAACGGACTGAGTGCTCCGTGGCCCCG  
 GGAGTCCCAGGGGAGCAGCGGCCCGAGTTCTCGTGCAACTCGTTCCTGCAGGAGAAGGCGGCAGCGGCG  
 ACGGGGGAACCGGGCTGGGGCAGGATCGGGCCCGGACTGGGACGGGCGGCTCGTCGGAGCCCTCAG  
 CTTGCAGCAGCACCCGATCCCAGGCTGTTTCGCTGAAGGAGGAGGAGAAGCAGCATTGCGAGCCGACGA  
 GCAGCAACTTGACCCAAACAACCCCGCCGGAAGTGGATCCACGCTCGCTCCACCCGAAAAAGCGCTGT  
 CCCTACACCAAATACCAGACGCTTGAGCTGGAGAAAGAATTCCTTCAACATGTACCTACCCGGGACCC  
 GCGCTACGAGGTGGCCAGGATTCTCAACCTAACAGAGACAGGTCAAATCTGGTTTCAGAACCGTAG  
 GATGAAAATGAAAAAGATGAGCAAGGAGAAATGCCCCAAAGGAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206492 representing NM\_014213  
Red=Cloning site Green=Tags(s)

MSSSGTLSNYYVDSLIGHEGDEVFAARFGPPGPGAQGRPAGVADGPAATAAEFASCSFAPRSVFSASWS  
 AVPSQPPAAAAMSGLYHPYVPPPLAASASEPGRYVRSWMEPLPGFPGGAGGGGGGGGGPGRVPALAPA  
 AQPTGCHYGIKPETRAAPAPATAASTTSSSSTLSSSSKRTECSVARESQQSSGPEFSCNSFLQEKAAAA  
 TGGTGPAGIGAATGTGGSSEPSACSDHPIPGCSLKEEEKQHSQPQQQLDPNNPAANWIHARSTRKKRC  
 PYTKYQTLLEKEFLFNMYLTRRRRYEVARILNLTERRQVKIWFQNRMRMKMKMSKEKCPKGD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014213

**ORF Size:** 1026 bp

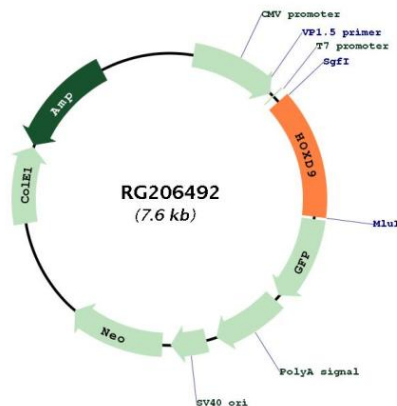
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_014213.2, NP_055028.2</u>
<b>RefSeq Size:</b>	2089 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	3235
<b>UniProt ID:</b>	<u>P28356</u>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5' end of this cluster have been associated with severe limb and genital abnormalities. The exact role of this gene has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206492