

Product datasheet for **RC206492**

HOXD9 (NM_014213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD9 (NM_014213) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXD9
Synonyms:	Hox-4.3; Hox-5.2; HOX4; HOX4C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206492 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCCAGTGGCACCCCTCAGCAACTACTACGTGGACTCGCTTATAGGCCATGAGGGCGACGAGGTGT
TCGCGGGCGCTTCGGCCGCGGGGCCAGGCGCGCAGGGCCGGCCTGCAGGTGTGGCTGATGGCCCGGC
CGCCACCGCCGCGAGTTCGCTCGTGTAGTTTGGCCCCAGATCGGCCGTGTTCTCTGCCTCGTGGTCC
GCGGTGCCCTCCAGCCCCGGCAGCGGGCGGATGAGCGGCTCTACCACCGTACGTTCCCCCGCCG
CCCTGGCCGCTCTGCCTCCGAGCCCGCCGCTACGTGCGCTCCTGGATGGAGCCGCTGCCCGGCTTCCC
GGCGGTGCGGGCGGTGGCGGTGGTGGAGGCGCGGTCCGGCCGGTCCCAGCCCTGGCCCCAGCG
GCCAGCCAACGGGCTGCCACTACGGGATTAAGCCTGAAACCCGAGCGGCCCGCCCGCCACCGCCG
CCTCCACCACCTCCTCCTCCTCCACTTCTTATCCTCCTCCTCCAAACGGACTGAGTGCTCCGTGGCCCCG
GGAGTCCCAGGGGAGCAGCGGCCCGAGTTCTCGTGCAACTCGTTCCTGCAGGAGAAGGCGGCAGCGCG
ACGGGGGAACCGGGCTGGGGCAGGATCGGGCCCGGACTGGGACGGGCGGCTCGTGGAGCCCTCAG
CTTGCAGCAGCACCCGATCCCAGGCTGTTTCGCTGAAGGAGGAGGAGAAGCAGCATTGCGAGCCGAGCA
GCAGCAACTTGACCAAACAACCCCGCCGGAAGTCCACGCTCGCTCCACCCGAAAAAGCGCTGT
CCCTACACCAAATACCAGACGCTTGAGCTGGAGAAAGAATTCCTTCAACATGTACCTCACCCGGGACCC
GGCGTACGAGGTGGCCAGGATTCTCAACCTAACAGAGAGACAGGTCAAATCTGGTTTCAGAACCGTAG
GATGAAAATGAAAAAGATGAGCAAGGAGAAATGCCCAAAGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206492 protein sequence
Red=Cloning site Green=Tags(s)

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MSSSGTLSNYYVDSLIGHEGDEVFAARFGPPGPGAQGRPAGVADGPAATAAEFASCSFAPRSVAVFSASWS
AVPSQPPAAAAMSGLYHPYVPPPLAASASEPGRYVRSWMEPLPGFPGGAGGGGGGGGGPGRVPALAPA
AQPTGCHYGIKPETRAAPAPATAASTTSSSSTLSSSSKRTECSVARESQGSSGPEFSCNSFLQEAAAA
TGGTGPAGIGAATGTGGSSEPSACSDHIPGCSLKEEEKQHSQPQQQLDPNNPAANWIHARSTRKKRC
PYTKYQTLLEKEFLFNMYLTRRRRYEVARILNLTERRQVKIWFQNRMRMKMKMSKEKCPKGD
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_014213

ORF Size: 1026 bp

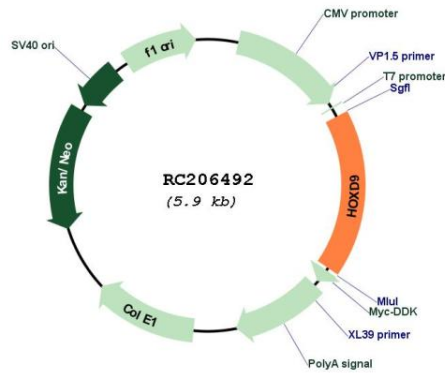
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA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

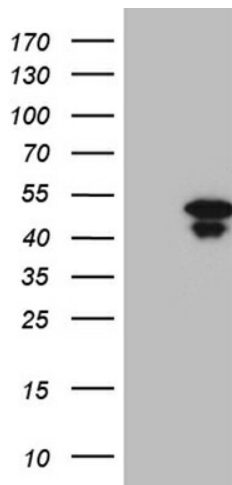
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_014213.4</u>
RefSeq Size:	1902 bp
RefSeq ORF:	1059 bp
Locus ID:	3235
UniProt ID:	<u>P28356</u>
Cytogenetics:	2q31.1
Protein Families:	Transcription Factors
MW:	35.6 kDa
Gene Summary:	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]

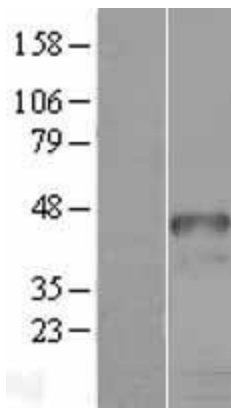
Product images:



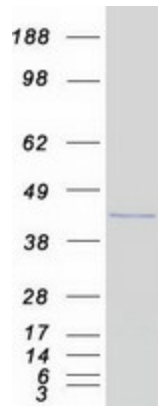
Circular map for RC206492



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOXD9 (Cat# RC206492, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOXD9 (Cat# [TA809673])(1:2000). Positive lysates [LY415428] (100ug) and [LC415428] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415428]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HOXD9 protein (Cat# [TP306492]). The protein was produced from HEK293T cells transfected with HOXD9 cDNA clone (Cat# RC206492) using MegaTran 2.0 (Cat# [TT210002]).