

## Product datasheet for RC204912

### HOXD1 (NM\_024501) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD1 (NM_024501) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXD1
Synonyms:	Hox-4.7; HOX4; HOX4G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204912 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTCCTACCTGGAGTACGTGTGTCATGCAGCAGCAGCGGGGGTTCGGCGGCGACGTGCTCAGCTTGG  
CACCCAAGTTCTGCCGCTCCGACGCCCGGCCGTGGCTCTGCAGCCGCCTTCCCTCTGGGCAACGGCGA  
CGGCGCCTTCGTCAGCTGTCTGCCCTGGCCGCCGCCGACCCTCGCCTTCGCCCCGGCCGCCCCCGC  
CGGCCGTCGTCACCGCTCCGGCCGCGCCCAAGTACGCGCAGTGCACCCTGGAGGGGGCTACGAACCTG  
GTGCCGACCTGCCGCGCAGCTGGGGGCGGACTACGGCTTCTGGGGTCCGGCCGGCGTACGACTT  
CCCGGGCGTGTGGGGCGGGCGCCGACGACGGCGGGTCTCACGTCCACTACGCCACTCGCCGCTTTC  
TCGGGGCGGCGCTCTTCTCCTCAGCGGCCAGGTGGATTACGCGGCCTTCGGCGAACCCGGCCCTTTT  
CGGCTTGTCTCAAAGCGTCAGCCGACGGCCACCCTGGTGTCTTCCAGACCGCATCCCGGCCCGAGGCAC  
CTACCCCAAGTCCGTCTCTCCCGCTCCGGCCTCCCTGCCGCTTCAGCACGTTTCGAGTGGATGAAAGTG  
AAGAGGAATGCCTCTAAGAAAGGCAAACTCGCCGAGTATGGGGCCGCTAGCCCTCCAGCGCGATCCGCA  
CGAATTTACGACCAAGCAACTGACAGAAGTGGAAAAAGAGTTTCATTTCAATAAGTACTTAACTCGAGC  
CCGGCGCATCGAGATAGCCAATGCTTGCACCTGAATGACACGCAAGTCAAAATCTGGTTCCAGAACC  
AGGATGAAACAGAAAGAAAGGGAACGAGAAGGGCTTCTGGCCACGGCCATTCTGTGGCTCCCCTCAAC  
TTCCCCTCTTGAAACAACCCCACTAAGTTTATCAAGAACCCCGCAGCCCTTCTCAGTCCCAAGAGCC  
TTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204912 protein sequence  
Red=Cloning site Green=Tags(s)

MSSYLEYVSCSSSGGVGGDVL SLAPKFCRSDARPVALQPAFPLGNGDGAFV SCLPLAAARPSPPAAPA  
 RPSVPPPAAPQYAQCTLEGAYEPGAAPAAAAGGADYGF LGGSPAYDFPGVLGRAADDGGSHVHYATSAVF  
 SGGGSFLLSGQVDYAAFGEPPFSACLKASADGHPGAFQTASPAPGTYPKSVSPASGLPAAFSTFEWMKV  
 KRNASKKGLAEYGAASPSSAIRTNFSTKQLTELEKEFHFNKYL TRARRIEIANCLHLNDTQVKIWFQNR  
 RMKQKKREREGLLATAIPVAPLQLPLSGTTPTKF IKNPGSPSQSQEPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6062\\_h09.zip](https://cdn.origene.com/chromatograms/mk6062_h09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024501

**ORF Size:** 984 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\\_024501.3](#)

**RefSeq Size:** 1991 bp

**RefSeq ORF:** 987 bp

**Locus ID:** 3231

**UniProt ID:** [Q9GZZ0](#)

**Cytogenetics:** 2q31.1

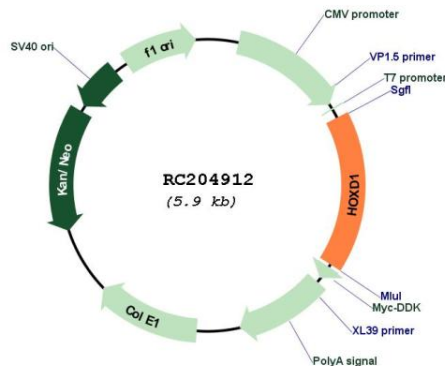
**Domains:** homeobox

**Protein Families:** Transcription Factors

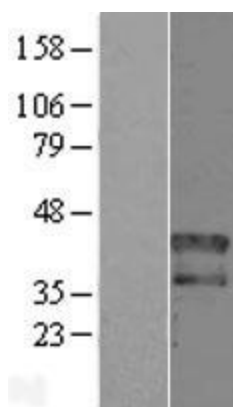
**MW:** 34.1 kDa

**Gene Summary:** This gene is a member of the Antp homeobox family and encodes a protein with a homeobox DNA-binding domain. This nuclear protein functions as a sequence-specific transcription factor that is involved in differentiation and limb development. Mutations in this gene have been associated with severe developmental defects on the anterior-posterior (a-p) limb axis. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC204912



Western blot validation of overexpression lysate (Cat# [LY402994]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204912 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).