

Product datasheet for **RG204912**

HOXD1 (NM_024501) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD1 (NM_024501) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXD1
Synonyms:	Hox-4.7; HOX4; HOX4G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204912 representing NM_024501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCTACCTGGAGTACGTGTTCATGCAGCAGCAGCGGGGGTCCGGCGGACGTGCTCAGCTTGG
CACCCAAGTTCTGCCGCTCCGACGCCCGGCCGTGGCTCTGCAGCCGCCTTCCCTCTGGGCAACGGCGA
CGGCGCCTTCGTCAGCTGTCTGCCCTGGCCGCCGCCGACCCTCGCCTTCGCCCCGGCCGCCCGCG
CGGCCGTCCGTACCGCTCCGGCCGCCGCCAGTACGCGCAGTGCACCCTGGAGGGGGCTACGAACCTG
GTGCCGACCTGCCGCGCAGCTGGGGCGCGGACTACGGCTTCTGGGGTCCGGCCGGCGTACGACTT
CCCGGGCGTGCTGGGGCGGGCGCCGACGACGGCGGGTCTCACGTCCACTACGCCACCTCGGCCGTCTT
TCGGGGCGCGGCTCTTCTCCTCAGCGGCCAGGTGGATTACGCGGCCTTCGGCGAACCCGGCCCTTTT
CGGCTTGTCTCAAAGCGTCAGCCGACGGCCACCCTGGTGCTTCCAGACCGCATCCCGGCCCGAGGCAC
CTACCCCAAGTCCGTCTCTCCCGCTCCGGCTCCCTGCCGCTTCAGCACGTTCCGAGTGGATGAAAGTG
AAGAGGAATGCCTCTAAGAAAGGCAAACTCGCCGAGTATGGGGCCGCTAGCCCTCCAGCGCGATCCGCA
CGAATTTAGCACCAAGCAACTGACAGAAGTGGAAAAAGAGTTTCATTTCAATAAGTACTTAACTCGAGC
CCGGCGCATCGAGATAGCCAACCTGCTTGCACCTGAATGACACGCAAGTCAAAATCTGTTCCAGAACC
AGGATGAAACAGAAAGAAAAGGGAACGAGAAGGGCTTCTGGCCACGGCCATTCTGTGGCTCCCTCCAAC
TTCCCTCTCTGGAACAACCCCACTAAGTTTATCAAGAACCCCGCAGCCCTTCTCAGTCCCAAGAGCC
TTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204912 representing NM_024501
 Red=Cloning site Green=Tags(s)

MSSYLEYVSCSSSGVGGDVLSLAPKFCRSDARPVALQPAFPLGNGDGAFVSCPLAAARPSPSPAAPA
 RPSVPPPAAPQYAQCTLEGAYEPGAAPAAAAGGADYGFLGSGPAYDFPGVLGRAADDGGSHVHYATSAVF
 SGGGSFLLSGQVDYAAFGEPPFSACLKASADGHPGAFQTASPAPGTYPKSVSPASGLPAAFSTFEWMKV
 KRNASKKGLAEYGAASPSSAIRTNFSTKQLTELEKEFHFNKYLTRARRIEIANCLHLNDTQVKIWFQNR
 RMKQKKREREGLLATAIPVAPLQLPLSGTTPTKFIKPNPSPSPSQSEPS

TRTRPLE - GFP Tag - V

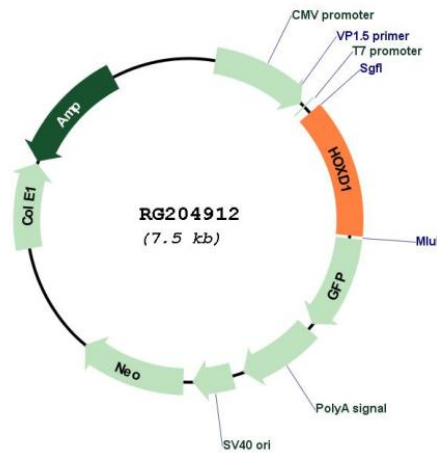
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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:	NM_024501.1 , NP_078777.1
RefSeq Size:	1991 bp
RefSeq ORF:	987 bp
Locus ID:	3231
UniProt ID:	Q9GZZ0
Cytogenetics:	2q31.1
Domains:	homeobox
Protein Families:	Transcription Factors
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]