

Product datasheet for **RG204747**

HOXD4 (NM_014621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD4 (NM_014621) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXD4
Synonyms:	HHO.C13; Hox-4.2; HOX-5.1; HOX4; HOX4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204747 representing NM_014621 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCATGAGTTCGTATATGGTGAACCCAAGTATGTGGACCCCAAGTCCCTCCGTGCGAGGAGTATT
TGCAGGGCGGCTACCTAGGCGAGCAGGGCGCCGACTACTACGGCGGCGGCGCGCAGGGCGCAGACTTCCA
GCCCCGGGGCTCTACCCACGGCCGACTTCGGTGAGCAGCCTTCGGAGGCAGCGGCCCGGGCTGGC
TCGGCGCTGCCTGCGCGGGTACGGACAAGAGCCAGGGCGCCCGCGGTCACTACGCCGCTCCAGGAG
AGCCTTGCCAGCTCCCCGGCGCTCCGCGGCGCCCTGCCTGGCGCCGGGCTACAGTCAGTCCGA
CCCAAGCAGCCGCCCTCCGGGACGGCACTCAAGCAGCCGCGCGTGGTCTACCCCTGGATGAAGAAGGTG
CACGTGAATTCGGTGAACCCCAACTACACCGGTGGGAACCCAAGCGGTCCCGAACGGCCTACACCCGGC
AGCAAGTCCTAGAACTGGAAAAAGAAATTCATTTAACAGGTATCTGACAAGGCGCGTCCGATTGAAAT
CGCTCACACCCTGTGTCTGTGCGGAGCGCCAGATCAAGATCTGGTCCAGAACCGGAGGATGAAGTGGAAA
AAAGATCATAAGCTGCCAACACTAAAGGCAGGTATCGTCCTCATCTTCTCCTCATCTTGCTCCTCCT
CAGTCGCCCCAGCCAGCATTTACAGCCGATGGCCAAAGACCACACGGACCTGACGACCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204747 representing NM_014621
 Red=Cloning site Green=Tags(s)

MVMSSYMVNSKYVDPKFPPEEYLQGGYLGEQGADYYGGGAQGADFQPPGLYPRPDFGEQPFGGSGPGPG
 SALPARGHGQEPGGPGGHYAAPGEPAPPPAPPAPLPGARAYSQSDPKQPPSGTALKQPAVVYPWMKKV
 HVNSVNPNTGGEPKRSRTAYTRQVLELEKEFHFNRYLTRRRRIEIAHTLCLSERQIKIWFQNRMRMKWK
 KDHKLPNTKGRSSSSSSSSSSSSSVAPSQHLQPMADHHTDLTTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014621

ORF Size: 765 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_014621.3](#)

RefSeq Size: 1298 bp

RefSeq ORF: 768 bp

Locus ID: 3233

UniProt ID: [P09016](#)

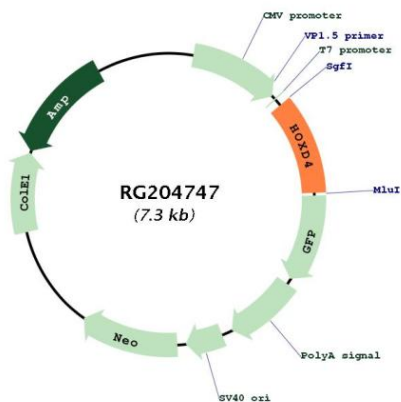
Cytogenetics: 2q31.1

Domains: homeobox

Protein Families: Transcription Factors

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 protein encoded by this gene may play a role in determining positional values in developing limb buds. Alternatively spliced variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204747