

Product datasheet for **RC202456**

HOXD3 (NM_006898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD3 (NM_006898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXD3
Synonyms:	Hox-4.1; HOX1D; HOX4; HOX4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202456 representing NM_006898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTATTTGAGCAGGGTCAGCAGGCCCTGGAGCTTCTGAGTGCACAATGCAGAAGGCTGCTTACTATG
 AAAACCCAGGACTGTTTGGAGGCTATGGCTACAGCAAACTACGGACACTTACGGCTACAGCACCCCA
 CCAGCCCTACCCACCCCTGCTGCTGCCAGCTCCCTGGACTGACTATCCAGGTTCTGCCTGCTCCATC
 CAGAGCTCTGCCCTCTGAGAGCCCAGCCACAAAGGAGCTGAACTCAATGGCAGCTGCATGCGGCCGG
 GCACTGGGAACAGCCAGGGTGGGGTGGTGGCAGCCAGCCTCTGGTCTGAACTCAGAGCAGCAGCCACC
 ACAACCCCTCTCCACCACCGACCTGCCCCATCTTCAACCAATCCTGGAGGTGGAGTGCCTGCC
 AAGAAGCCAAAGGTGGGCCAATGCTTCTAGCTCCTCAGCCACCATCAGCAAGCAGATCTTCCCTGGA
 TGAAAGAGTCTCGACAGAACTCCAAGCAGAAGAACAGCTGTGCCACTGCAGGAGAGAGCTGCGAGGACAA
 GAGCCCGCAGGCCAGCATCCAAGCGGTACGCACGGCATAACAGAGCGCGCAGCTGGTGAATTGGAA
 AAGGAATTCACCTTCAACCGCTACTTGTGCCGGCCGCGCGCTGGAGATGGCCAACCTGCCTGAATCTCA
 CGGAACGCCAGATCAAGATCTGGTTCCAGAACCGCGCATGAAGTACAAGAAGGACCAGAAGGCCAAGGG
 CATCCTGCACTCGCCGGCTAGCCAGTCCCTGAGCGCAGCCACCCTCGGCGGCCGCTGGCCACGTG
 GCCTACTCCGGCCAGTCCCGCCAGTCCCGGCCCTGGCTACGACGCGCCCTCGCCGCTGCTTTCGCCA
 AATCACAGCCCAATATGTACGGCTGGCCGCTACACGGCGCCACTCAGCAGTGCCTGCCACAACAGAA
 GCGCTACGCAGCGCCGGAGTTCGAGCCCATCCATGGCGAGCAACGGCGGGCGCTTCGCCAGCGCCAAC
 TTGCAGGCAGCCGGTGTACGTGGCGGCAACTTCGTCGAGTCCATGGCGCCGCGTCCGGGCTGTCT
 TCAACCTGGCCACCTCTCGACCCGTCGTCGCCAGCGTGGACTACAGTTGCGCCGCGCAGATTCAGG
 CAACCACCACCTGGACCTTGCACCCCTCATCCCACTACACAGATCTCTCGGCCACCACCTCGTCTCAG
 GGACGACTGCCGGAGGCTCCCAAAGTACGCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202456 representing NM_006898
 Red=Cloning site Green=Tags(s)

MLFEQGGQALELPECTMQKAAYENPGLFGGYGYSKTTDTYGYSTPHQPYPYPPAAASSLTDYPGSACSI
 QSSAPLRAPAHKGAELNGSCMRPGTGNSQGGGGSQPPGLNSEQQPPPPPPPTLPPSSPTNPGGGVPA
 KKPKGPNASSSSATISKQIFPWMKESRQNSKQKNSCATAGESCEDKSPPGPASKRVRTAYTSAQLVELE
 KEFHFNRYLCPRRRVEMANLLNLTERQIKIWFQNRMRMYKQKQKAKGILHSPASQSPERSPPLGGAAGHV
 AYSQQLPPVPLAYDAPSPFAKSPQPNMYGLAAYTAPLSSCLPQQKRYAAPEFEPHPMASNGGGFASAN
 LQGSPPVYVGGNFVESMAPASGPVFNLGHLSHPSSASVDYSCAAQIPGNHHHGPCDPHTYTDLSAHHSSQ
 GRLPEAPKLTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8112_d07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006898

ORF Size: 1296 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_006898.5](#)

RefSeq Size: 2319 bp

RefSeq ORF: 1299 bp

Locus ID: 3232

UniProt ID: [P31249](#)

Cytogenetics: 2q31.1

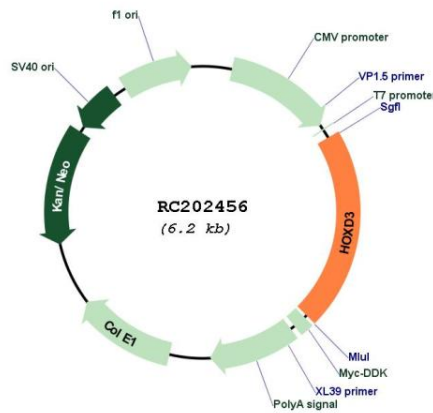
Domains: homeobox

Protein Families: Transcription Factors

MW: 45.5 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 protein encoded by this gene may play a role in the regulation of cell adhesion processes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202456