

Product datasheet for **RG202456**

HOXD3 (NM_006898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HOXD3
Synonyms:	Hox-4.1; HOXD1D; HOXD4; HOXD4A
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202456 representing NM_006898
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTATTTGAGCAGGGTCAGCAGGCCCTGGAGCTTCCTGAGTGCACAATGCAGAAGGCTGCTTACTATG
AAAACCCAGGACTGTTTGGAGGCTATGGCTACAGCAAACTACGGACACTTACGGCTACAGCACCCCCCA
CCAGCCCTACCCACCCCTGCTGCTGCCAGCTCCCTGGACACTGACTATCCAGGTTCTGCCTGCTCCATC
CAGAGCTCTGCCCTCTGAGAGCCCCAGCCACAAAGGAGCTGAATCAATGGCAGCTGCATGCGGCCGG
GCACTGGGAACAGCCAGGGTGGGGGTGGTGGCAGCCAGCCTCCTGGTCTGAATCAGAGCAGCAGCCACC
ACAACCCCTCCTCCACCACCGACCCTGCCCATCTTACCCACCAATCCTGGAGGTGGAGTGCCTGCC
AAGAAGCCAAAGGTGGGCCAATGCTTCTAGCTCCTCAGCCACCATCAGCAAGCAGATCTTCCCTGGA
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CGGAACGCCAGATCAAGATCTGGTTCCAGAACCGGCGCATGAAGTACAAGAAGGACCAGAAGGCCAAGGG
CATCTGCACTCGCCGGCTAGCCAGTCCCCTGAGCGCAGCCACCGCTCGGCGGCCGCTGGCCACGTG
GCCTACTCCGGCCAGCTGCCGCCAGTGCCCGGCTGGCTACGACGCGCCCTCGCCGCTGCTTTCCGCA
AATCAGGCCAATATGTACGGCTGGCCGCTACACGGCGCCACTCAGCAGCTGCCTGCCACAACAGAA
GCGCTACGACGCGCGGAGTTCGAGCCCCATCCATGGCGAGCAACGGCGGCGCTTCGCCAGCGCCAAC
CTGCAGGGCAGCCGGTGTACGTGGCGGCAATTCGTGAGTCCATGGCGCCGCGTCCGGGCTGTCT
TCAACCTGGGCCACCTCTCGCACCCGTCGTGGCCAGCGTGGACTACAGTTGCGCCGCGCAGATTCCAGG
CAACCACCATGACCTTGGACCTTACCCACCTACACAGATCTCTCGGCCACCACTCGTCTCAG
GGACGACTGCCGGAGGCTCCAAACTGACGCATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



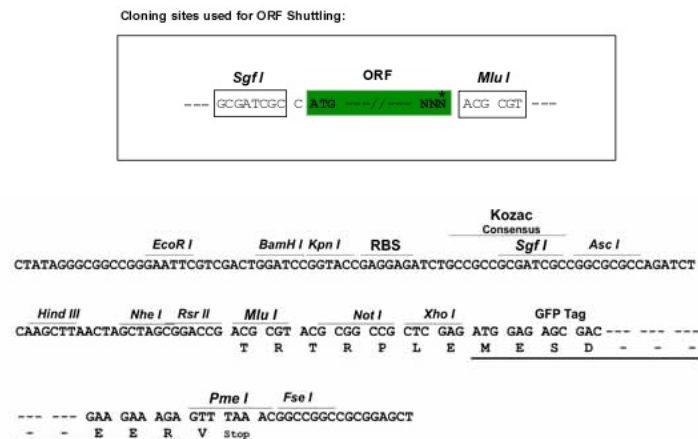
Protein Sequence: >RG202456 representing NM_006898
Red=Cloning site Green=Tags(s)

MLFEQQQALELPECTMQKAAYYENPGLFGGYGYSKTTDTYGYSTPHQYPPPPAAASSLDTDYPGSACSI
QSSAPLRAPAHKGAELNGSCMRPGTGNSQGGGGGSGPPGLNSEQQPPPPPPPTLPPSSPTNPGGGVPA
KKPKGGPNASSSSATISKQIFPWMKESRQNSKQKNSCATAGESCEDKSPGPASKRVRTAYTSAQLVELE
KEFHFNRYLCRPRRVEMANLLNLTERQIKIWFQNRMMKYKDKQAKGILHSPASQSPERSPLGGAAGHV
AYSGQLPPVPGLAYDAPSPPAFAKSPNMYGLAAYTAPLSSCLPQKRYAAPEFEPHPMASNGGGFASAN
LQGSPVYVGGNFVESMAPASGPVFNGLGHLSHPPSSASVDYSAAQIPGNHHHGCDPHPTYTDL SAHSSQ
GRLPEAPKLTHL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006898

ORF Size: 1296 bp

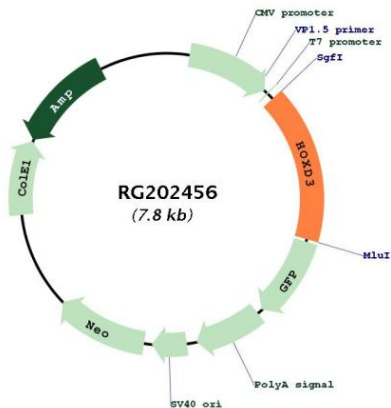
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_006898.3</u>
RefSeq Size:	2319 bp
RefSeq ORF:	1299 bp
Locus ID:	3232
UniProt ID:	<u>P31249</u>
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 the regulation of cell adhesion processes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202456