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Product datasheet for RG205062

HOXD8 (NM_019558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD8 (NM_019558) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXD8
Synonyms:	HOX4; HOX4E; HOX5.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205062 representing NM_019558
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCGTACTTCGTGAACCCGCTGTACTCCAAGTACAAGGCGGCGGCTGCGGCGGCGGCGGCGGCGG
GCGAGGCCATCAATCCCACTTACTACGACTGTCACTTCGCGCCCGAGGTCGGCGGCCGTCACGCCGCCGC
CGCAGCAGCCCTGCAGCTCTATGGCAACAGCGCCGCCGGCTTCCCGCACGCGCCCCCGCAGGCGCACGCG
CACCCGCACCCGTCCCCGCCGCCCTCCGGGACTGGGTGCGGCGGTAGGGAAGGCCGGGGCCAGGAGTACT
TCCACCCCGGCGGGGGCAGCCCGGCCGCTGCCTACCAGGCCGCCCCCCCTCCTCCTCCGCATCCTCCGCC
TCCGCCGCCACCTCCCCCCTGCGGCGGGATTGCCTGTCACGGGGAGCCCGCGAAGTTTTACGGATACGAT
AACTTACAGAGACAGCCGATTTTTACGACCCAGCAAGAGGCCGAGCTGGTACAATATCCTGACTGTAAAT
CGTCCAGTGGTAATATTGGCGAGGACCCAGACCACTTAAATCAGAGCTCGTCTCCTTCTCAAATGTTTCC
GTGGATGAGACCACAAGCTCCTGGTAGACGAAGAGGAAGACAAACCTACAGTCGCTTCCAAACTCTAGAG
TTGGAAAAGGAATTTCTTTTTAACCCCTATCTGACCAGGAAAAGAAGAATCGAGGTTTCCCACGCCCTAG
CCCTCACCGAGAGACAGGTAAAAATCTGGTTCCAGAACAGGAGAATGAAATGGAAAAAGGAAAACAACAA
GGACAAATTTCCCGTTTCCCGGCAGGAGGTGAAGGACGGGGAAACGAAAAAGGAAGCCCAAGAGCTGGAG
GAAGACAGAGCCGAAGGCCTGACAAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

View online »

Protein Sequence:

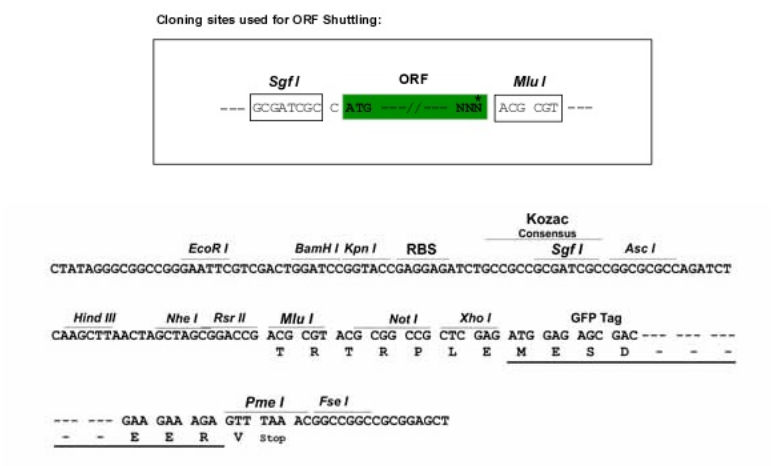
>RG205062 representing NM_019558
Red=Cloning site Green=Tags(s)

MSSYFVNPLYSKYKAAAAAAAAAGEAINPTYYDCHFAPEVGGRHAAAAAALQLYGNSAAGFPHAPPQAHA
HPHPSPPPSGTGCGGREGRGQEYFHPGGGSPAAAYQAAPPPPPHPPPPPPPPPCGGIACHGEPAKFYGYD
NLQRQPIFTTQQEAELVQYPDCKSSSGNIGEDPDHLNQSSSPSQMFPWMRPQAPGRRRGRQTYSRFQTLE
LEKEFLFNPYLTRKRRIEVSHALALTERQVKIWFQNRRMKWKKENNKDKFPVSRQEVKDGETKKEAQELE
EDRAEGLTN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019558

ORF Size: 867 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_019558.2, NP_062458.1

RefSeq Size: 1879 bp

RefSeq ORF: 873 bp

Locus ID: 3234

UniProt ID: P13378

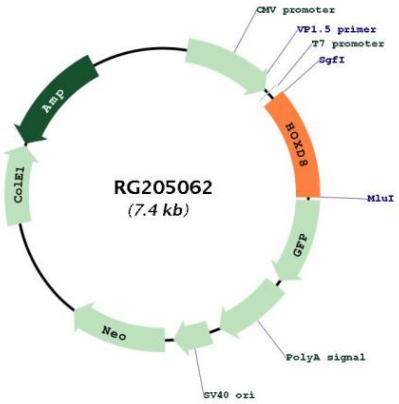
Cytogenetics: 2q31.1

Domains: homeobox

Protein Families: ES Cell Differentiation/IPS, 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 in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. In addition to effects during embryogenesis, this particular gene may also play a role in adult urogenital tract function. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]

Product images:



Circular map for RG205062