

Product datasheet for RC205062

HOXD8 (NM_019558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD8 (NM_019558) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXD8
Synonyms:	HOX4; HOX4E; HOX5.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205062 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTTCGTACTTCGTGAACCCGCTGTACTCCAAGTACAAGGCGCGGCTGCGGCGGGCGGCGGCGG
GCGAGGCCATCAATCCCCTTACTACGACTGTCACTTCGCGCCCGAGGTCGGCGGCCGTACGCGCCCGC
CGCAGCAGCCCTGCAGCTCTATGGCAACAGCGCCCGCGGCTTCCCGCACGCGCCCCGAGGCGCACGCG
CACCCGCACCCGTCCCCGCGCCCTCCGGGACTGGGTGCGGCGGTAGGGAAGCCGGGGCCAGGAGTACT
TCCACCCGCGGGGGCAGCCCGCGCGTGCCTACCAGGCGCCCCCTCCTCCTCCGCATCCTCCGCC
TCCGCCGCCACCTCCCCCTGCGGCGGGATTGCCTGTACGGGGAGCCCGGAAGTTTTACGGATACGAT
AACTTACAGAGACAGCCGATTTTTACGACCCAGCAAGAGCGCGAGCTGGTACAATATCCTGACTGTAAAT
CGTCCAGTGGTAATATTGGCGAGGACCCAGACCACTTAAATCAGAGCTCGTCTCCTTCTCAAATGTTTCC
GTGGATGAGACCAAGCTCCTGGTAGACGAAGAGGAAGACAACTACAGTCGCTTCCAACTCTAGAG
TTGAAAAGGAATTTCTTTTAAACCCTATCTGACCAGGAAAAGAAGAATCGAGGTTTCCACGCCCTAG
CCCTACCGAGAGACAGGTAAAAATCTGGTTCCAGAACAGGAGAATGAAATGGAAAAGGAAAACAACAA
GGACAAATTTCCCGTTTCCCGCAGGAGGTGAAGGACGGGAAACGAAAAGGAAGCCCAAGAGCTGGAG
GAAGACAGAGCCGAAGGCTGACAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205062 protein sequence
Red=Cloning site Green=Tags(s)

MSSYFVNPLYSKYKAAAAAAAAAAGEA INPTYDCHFAPEVGGRRHAAAAALQLYGN SAAGFPHPQAHA
 HPHPSPPPSGTGCGGREGRGQEYFHPPGGSPAAAYQAAPPPPHPPPPPPPCGGIACHGEPAKFYGYD
 NLQRQPIFTTQQAELVQYDCKSSSGNIGEDPDHLNQSSSPSQMFPWMPQAPGRRRRGRQTYSRFQTL
 LEKEFLFNPYLTRKRRIEVSHALAL TERQVKIWFQNRMMKWKKENNKDKFPVSRQEVKDGETKKEAQELE
 EDRAEGLTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6213_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019558

ORF Size: 597 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_019558.4](#)

RefSeq Size: 2599 bp

RefSeq ORF: 873 bp

Locus ID: 3234

UniProt ID: [P13378](#)

Cytogenetics: 2q31.1

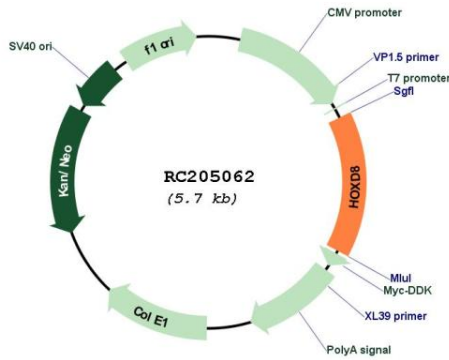
Domains: homeobox

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

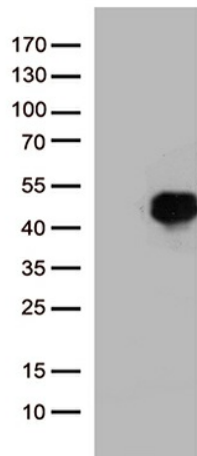
MW: 31.8 kDa

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 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]

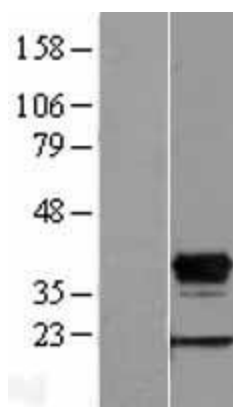
Product images:



Circular map for RC205062



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOXD8 (Cat# RC205062, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOXD8 (Cat# [TA810942])(1:2000). Positive lysates [LY412699] (100ug) and [LC412699] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412699]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205062 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).