

Product datasheet for RC233663

HOXD8 (NM_001199746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD8 (NM_001199746) 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:	>RC233663 representing NM_001199746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAGTTCGTACTTCGTGAACCCGCTGTAAGTACAAGGCGGGCTGCGGCGGGCGGGCGGGCGGCGGAGGCCATCAATCCCCTTACTACGACTGTCACTTCGCGCCCGAGGTCGGCGGGCGTCACGCCCGCGCAGCAGCCCTGCAGCTCTATGGCAACAGCGCCCGGGCTTCCCGCACGCGCCCGCAGGCGCACGCGCACCCGCACCCGTCCCCGCGCCCTCCGGACTGGTGCGGCGGTAGGGAAGCCGGGGCCAGGAGTACTTCCACCCGCGGGGGCAGCCCGCGCTGCCTACCAGGCGCCCCCTCCTCCTCCGCATCCTCCGCCGCCCGCCACCTCCCCCTGCGGCGGGATTGCCTGTACGGGGAGCCCGAAGTTTTACGGATACGATAACTTACAGAGACAGCCGATTTTACGACCCAGCAAGAGCGCGAGCTGGTACAATATCCTGACTGTAATCGTCCAGTGGTAATATTGGCGAGGACCCAGACCACTTAAATCAGAGCTCGTCTCCTTCTCAAATGTTTCCGTGGATGAGACCAAGCTCCTGGTAGACGAAGAGGAAGACAACTACAGTCGCTTCCAACTCTAGATTGAAAAGGAATTTCTTTTAAACCCTATCTGACCAGGAAAAGAAGAATCGAGGTTTCCACGCCCTAGCCCTACCGAGAGACAGGTAAAAATCTGGTTCAGAACAGGAGAATGAAATGGAAAAGGAAAACAAGGACAAATTTCCCGTTTCCCGCAGGAGGTGAAGGACGGGAAACGAAAAGGAAGCCCAAGAGCTGGAGGAAGACAGAGCCGAAGGCCTGACAAAT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233663 representing NM_001199746
 Red=Cloning site Green=Tags(s)

MSSYFVNPLYSKYKAAAAAAAAAAGEAINPTYDYDCHFAPEVGGRRHAAAAAALQLYGNAAAGFPHPAPPQAHA
 HPHPPSPPPSGTGCGGREGRGQYFHPGGGSPAAAYQAAPPPPHPPPPPPPPPCGGIACHGEPAKFYGYD
 NLQRQPIFTTQQAELVQYDCKSSSGNIGEDPDHLNQSSSPSQMFPWMPRPQAPGRRRRGRQTYSRFQTL
 LEKEFLFNPYLTKRRRIEVSHALALTRQYKIWFQNRMKWKKENNKDKFPVSRQEVKDGGETKKEAQELE
 EDRAEGLTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001199746

ORF Size: 867 bp

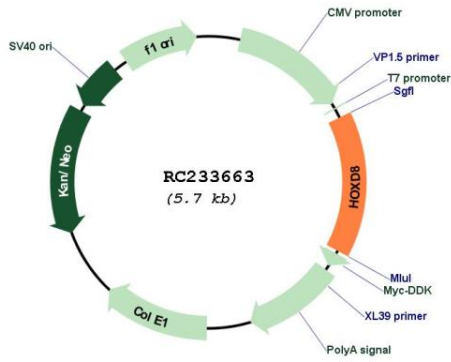
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001199746.2
RefSeq Size:	2596 bp
RefSeq ORF:	870 bp
Locus ID:	3234
UniProt ID:	P13378
Cytogenetics:	2q31.1
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
MW:	32.3 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC233663