

## Product datasheet for **RG233663**

### HOXD8 (NM\_001199746) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HOXD8 (NM\_001199746) 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:** >RG233663 representing NM\_001199746  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTTCGTA<sup>CTTCGTGAACCCGCTGTA</sup>CTCCAAGTACAAGGCGGGCTGCGGCGGGCGGGCGGCGG  
 GCGAGGCCATCAATCCCAC<sup>TTACTACGACTGTCACTTCGCGCCCGAGGTCGGCGGCCGT</sup>CACGCCCGCG  
 CGCAGCAGCCCTGCAGCTCTATGGCAACAGCGCCCGGGCTTCCCGCACGCGCCCCGAGGCGCACGG  
 CACCCGCACCCGTCCCCGCGCCCTCCGGGACTGGGTGCGGCGGTAGGGAAGCCGGGGCCAGGAGTACT  
 TCCACCCGCGGGGGCAGCCCGCGCTGCCTACCAGGCGCCCCCTCCTCCTCCGCATCCTCCGCC  
 TCCGCCGCCACCTCCCCCTGCGGCGGGATTGCCTGTACGGGGAGCCCGAAGTTTTACGGATACGAT  
 AACTTACAGAGACAGCCGATTTTTACGACCCAGCAAGAGCGCGAGCTGGTACAATATCCTGACTGTAAT  
 CGTCCAGTGGTAATATTGGCGAGGACCCAGACCACTTAAATCAGAGCTCGTCTCCTTCTCAAATGTTTCC  
 GTGGATGAGACCACAAGCTCCTGGTAGACGAAGAGGAAGACAAACCTACAGTCGCTTCCAACTCTAGAG  
 TTGAAAAGGAATTTCTTTTAAACCCTATCTGACCAGGAAAAGAAGAATCGAGGTTTCCACGCCCTAG  
 CCCTACCGAGAGACAGGTAAAAATCTGGTTCAGAACAGGAGAATGAAATGGAAAAGGAAAACAACAA  
 GGACAAATTTCCCGTTTCCCGCAGGAGGTGAAGGACGGGGAAACGAAAAGGAAGCCCAAGAGCTGGAG  
 GAAGACAGAGCCGAAGGCTGACAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233663 representing NM\_001199746  
 Red=Cloning site Green=Tags(s)

MSSYFVNPLYSKYKAAAAAAAAAAGEA INPTYYDCHFAPEVGGRRHAAAAAALQLYGN SAAGFPHPAPQAHA  
 HPHPSPPPSGTGCGGREGRGQ EYFHPGGGSPAAAYQAAPPPPHPPPPPPPPPCGGIACHGEPAKFYGYD  
 NLQRQPIFTTQQEAE L VQYDCKSSSGNIGEDPDHLNQSSSPSQMFPWMPQAPGRRRRGRQTYSRFQ TLE  
 LEKEFLFNPYL TRKRRIEVSHALAL TERQVKIWFQNRMMKWKKENNKDKFPVSRQEVKDG ETKKEAQELE  
 EDRAEGLTN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:**

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

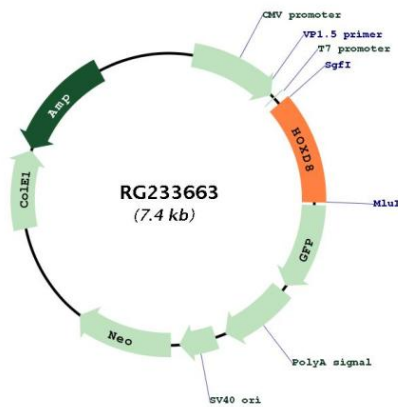
**UniProt ID:** [P13378](#)

**Cytogenetics:** 2q31.1

**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors

**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 RG233663