

Product datasheet for **RG235651**

HOXD8 (NM_001199747) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOXD8 (NM_001199747) 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: >RG235651 representing NM_001199747.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTCCGTGGATGAGACCACAAGCAGCTCCTGGTAGACGAAGAGGAAGACAAACCTACAGTCGCTTC
CAAACCTAGAGTTGGAAAAGGAATTTCTTTTAAACCCCTATCTGACCAGGAAAAGAAGAATCGAGGTT
TCCACGCGCTAGCCCTACCGAGAGACAGGTAAAAATCTGGTTCAGAACAGGAGAATGAAATGGAAA
AAGGAAAACAACAAGGACAAATTTCCCGTTTCCCGGCAGGAGGTGAAGGACGGGAAACGAAAAAGGAA
GCCAAGAGCTGGAGGAAGACAGAGCCGAAGGCCTGACAAAT
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235651
Blue=ORF Red=Cloning site Green=Tag(s)

```
MFPWMPQAAPGRRRGRQTYSRFQTLELEKEFLFNPYL TRKRRIEVSHALAL TERQVKIWFQNRMKWK
KENNKDKFPVSRQEVKDGETKKEAQELEEDRAEGLTN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001199747

ORF Size: 318 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).

RefSeq: [NM_001199747.2](#)

RefSeq Size: 1624 bp

RefSeq ORF: 321 bp

Locus ID: 3234

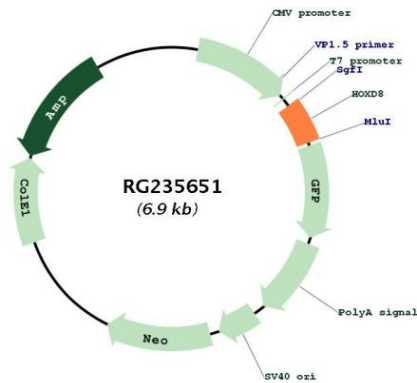
Cytogenetics: 2q31.1

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

MW: 13.4 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 RG235651