

## Product datasheet for MR217602

### Hoxd4 (NM\_010469) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxd4 (NM_010469) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxd4
Synonyms:	6030436D05Rik; Hox-4.2; Hox-5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217602 representing NM_010469 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGAGTTCGTATATGGTGAACCTAAAGTACGTGGACCCCAAGTTTCCTCCGTGCGAGGAATATT  
TGCAGGGTGGCTACCTAGGCGAGCAGGGAGCCGACTACTACGGCAGCGGTGCACAGGGCGCCGACTTCCA  
GCCCTCGGGCTCTACCCACGGCCCGACTTCGGCGAGCAACCCTTCGGAGGCGGGCCCGGGCCTGGC  
TCAGCGCTGCCCGGAGGGGTACGGACAGGAGCCGAGCGGCCCGGAAGTCATTACGGTCCCCGGGAG  
AGCGGTGCCAGCGCCCGCCTGCGCCCTGCCTGGCGCTCGGGCTGCAGCCAGCCACCGGCCCAA  
GCAGCCGCCCCCGGGACAGCACTCAAGCAGCCCGCTGTGGTCTACCCTTGGATGAAGAAGTGCACGTG  
AATTCGGTGAACCCCAACTACCCGCGGGGAGCCCAAGCGCTCCCGGACGGCCTACACCAGACAGCAAG  
TCCTAGAACTGGAAAAGGAATTTCAATTTAACAGGTATCTGACCAGGCGCCGTCGGATTGAAATCGCTCA  
CACCTGTGTCTGTCTGAGCGCCAGATCAAGATCTGGTTCCAGAACCGGAGGATGAAGTGGAAAAAGAC  
CACAACCTGCCAACCAAGGGCAGGTCTTCTCCTCATCTTCTGCTCCTCTTCAGCTGCCCGGGCC  
AGCATTTGCAGCCAATGGCCAAGGACCACCATACGGACCTGACGACCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR217602 representing NM\_010469  
 Red=Cloning site Green=Tags(s)

MAMSSYMNISKYVDPKFPPEEYLQGGYLGEQGADYYGSGAQGADFQPSGLYPRPDFGEQPFGGGGPGPG  
 SALPARGHGQEPSPGSGHYGAPGERCPAPPPAPLPGARACSQPTGPKQPPPPTALKQPAVVYPWMKKVHV  
 NSVNPNYTGGEPKRSRTAYTRQQVLELEKEFHFNRYLTRRRRIEIAHTLCLSERQIKIWFQNRMRMKWKKD  
 HKLPNTKGRSSSSSSCSSAAPGQHLQPMADHHTDLTTL

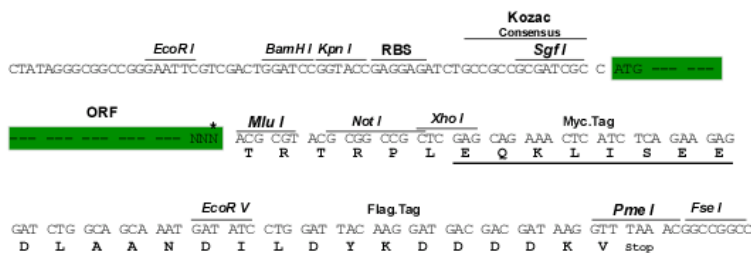
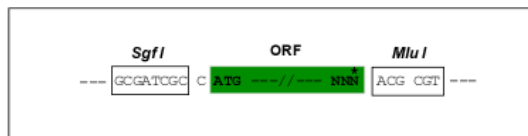
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010469

**ORF Size:** 750 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\\_010469.2](#), [NP\\_034599.2](#)

**RefSeq Size:** 2560 bp

**RefSeq ORF:** 753 bp

**Locus ID:** 15436

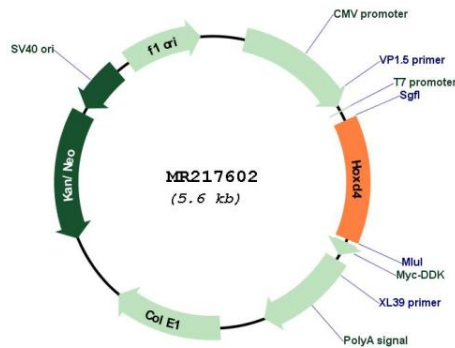
**UniProt ID:** [P10628](#)

**Cytogenetics:** 2 44.13 cM

**MW:** 27.4 kDa

**Gene Summary:** Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR217602