

## Product datasheet for **MR222088**

### **Foxd1 (NM\_008242) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxd1 (NM_008242) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxd1
Synonyms:	AI385632; BF-2; FREAC4; Hfh10; Hfhbf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222088 representing NM\_008242, **codon optimized**.  
**Due to the complexity of NM\_008242, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACACTGAGTACAGAAATGAGTGACGCCTCTGGACTTGCCGAAGAAACAGACATAGATGTGGTGGGCG  
 AAGGAGAGGATGACGAAGAAGAAGAGGATGATGACGATGAGGGAGGAGGTGGGAGAGGGGGCGCCGCGAC  
 CAGACTCCCTTCTCCGCACAGAGGCGGCGCAGATCTTACGCCGGTGAGGACGACCTGGAAGACTTGGAA  
 GAGGAGGACGACGACGACCTCTTGTGGGTCCAGACCTGCAGCAAGCCCTGCTCCTCCAGTCCCAGC  
 CAGCTCCCGCACTGGGAGCGGTGGTGTCTGGAGCTGGGGCGGGGGGGTCCCGAGGGGGGACCGG  
 CGCTGGAACAGGTGGAGGTGCAAAAAATCCACTCGTCAAGCCGCCTTACAGCTATATCGCTTTGATCACA  
 ATGGCCATCCTGCAAAGCCAAAAAAGAGACTCACCTTTCCGAAATCTGCGAGTTCATATCCAGCCGCT  
 TTCCATACTATCGGGAGAAGTCCCTGCCTGGCAGAACTCCATCCGCCACAATCTGAGTCTCAATGACTG  
 CTTCTGTAAGATCCCCAGAGAACCAGGCAACCCCGAAAGGAACTATTGGACCTCGACCCCGAGTCT  
 GCAGATATGTTGATAATGGCTCCTTTTGGAGCGCAGGAAAAGATTTAAGAGACAGCCACTGCTGGCCC  
 CTCACGCCGCTGCAGAAGCCCTTCTGCTGAGGGCGCTGGCCCCGCCGCTGGTGTGGTACCCGGGCGC  
 AGCTCTCTTTCCCCCCCCACCCCCCCCCCCCTGTGGTACGGCGCATACGGTTGCGCCTACGGTCTT  
 CAGCTGCCCCCCCTGCGCTCCTCCAGTGCCTGTTTCGCGGCGGGCGCGCTGCTGCTGCAGCCGCCTTTC  
 ATCCACATAGTCTCCACCTCCCCCTCCTCCACCCACCTCCACCAGGGGCCGAGCTGAGTTGGCCAG  
 GACCGCTTTGGGTATAGATCACATGCATTGGCAGCCGCCCTTCCAGGCCCTGCAGGCGGCTGCTGTA  
 AAGGCAGGGGTCGCGGAGCCGAGCTCTGGCTCGAAGTCTTTCTCAATAGAGAGTCTGATCGGTGAA  
 CGGGGGCCCGGCTGCCGCCGAGCACATGTCTTAGCGGAGCAGCTCCGGCACTGCCCCAGGACCCGG  
 CGGTGGCGGATGCGCCGTCAGGACGCTGCAGGCCCGCCGCTGGCTGACTAGATCCCTCGTGGTCCGC  
 GCTGCTGCTGCTCTTCCGTGTCTAGTAGCGCAGCCTTGGGCACACTTACCAGGGGACGGCTGCTGT  
 CCTCCGTGGAGAATTTACGGCACGGATTCCAATTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222088 representing NM\_008242  
 Red=Cloning site Green=Tags(s)

MTLSTEMSDASGLAEETDIDVVEGEDDEEEEDDDDEGGGRGGGSRPLPSSAQRRRRSYAGEDDLEDLE  
 EEDDDLLLASRPAASPAPPGPAPPGTSGGCSGAGAGGGAGGGTGAGTGGAKNPLVKPPYSYIALIT  
 MAILQSPKKRLTLSEICEFISSRFYREKFPWQNSIRHNLNLNDFVKIPREPNGPKGNWYTLDPES  
 ADMFDNGSFLRRRKRFRQPLLAHAAAEALLRGAGPAAGADPGAALFPPPPPPACGYGAYGAYGL  
 QLPPCAPPALFAAAAAAAAAAFHPHSPPPPPPPPPPPGAAELARTAFGYRSHALAAALPGPLQAAAV  
 KAGGPAAALARSFIESLIGRTRGPAAGAHVSSGAASGTAPGPGGGCAVQAAAGPAVALTRSLVVA  
 AAAASSVSSAALGTLHQGTALSSVENFTARISNC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_008242

**ORF Size:** 1368 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

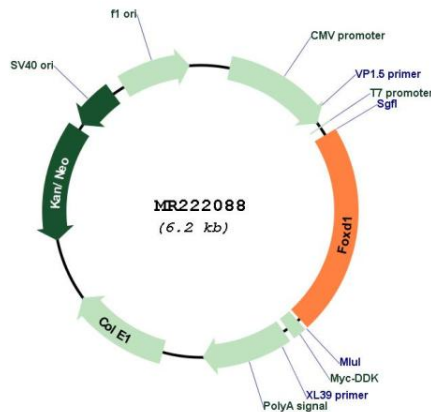
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_008242.1](#), [NM\\_008242.2](#), [NP\\_032268.2](#)  
**RefSeq Size:** 2461 bp  
**RefSeq ORF:** 1371 bp  
**Locus ID:** 15229  
**UniProt ID:** [Q61345](#)  
**Cytogenetics:** 13 51.96 cM  
**MW:** 45.4 kDa

**Gene Summary:** Transcription factor involved in regulation of gene expression in a variety of processes including formation of positional identity in the developing retina, regionalization of the optic chiasm, morphogenesis of the kidney, and neuralization of ectodermal cells (PubMed:15509772, PubMed:15634693, PubMed:9811586). Involved in transcriptional activation of PGF and C3 genes (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR222088