

Product datasheet for **MG222088**

Foxd1 (NM_008242) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxd1 (NM_008242) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Foxd1
Synonyms:	AI385632; BF-2; FREAC4; Hfh10; Hfhbf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG222088 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGACACTGAGTACAGAAATGAGTGACGCCTCTGGACTTGCCGAAGAAACAGACATAGATGTGGTGGGCG
 AAGGAGAGGATGACGAAGAAGAAGAGGATGATGACGATGAGGGAGGAGGTGGGAGAGGGGGCGCGGCAG
 CAGACTCCCTTCTCCGCACAGAGGCGGCAGATCTTACGCCGTGAGGACGACCTGGAAGACTTGAA
 GAGGAGGACGACGACGACCTCTTGTGGGTCCAGACCTGCAGCAAGCCCTGCTCCTCCAGTCCCAC
 CAGCTCCCGCACTGGGAGCGGTGTTGTTCTGGAGCTGGGGCGGGGGGGTCCCGAGGGGGGACCGG
 CGCTGGAACAGGTGGAGGTGCAAAAAATCCACTCGTCAAGCCGCCTTACAGCTATATCGCTTTGATCACA
 ATGGCCATCCTGCAAAGCCAAAAAAGAGACTCACCTTTCCGAAATCTGCGAGTTCATATCCAGCCGCT
 TTCCATACTATCGGGAGAAGTTCCTGCCTGGCAGAACTCCATCCGCCACAATCTGAGTCTCAATGACTG
 CTTCTGTAAGATCCCCAGAGAACCAGGCAACCCCGAAAGGAACTATTGGACCCTCGACCCCGAGTCT
 GCAGATATGTTGATAATGGCTCCTTTTGAGGCGCAGAAAAGATTTAAGAGACAGCCACTGCTGGCCC
 CTCACGCCGTCGAGAAGCCCTTCTGCTGAGGGCGCTGGCCCGCCGCTGGTGTGTGACCCGGGCGC
 AGCTCTCTTTCCCCCCCCACCCCGCCCTGTGGTACGGCGCATACGTTGCGCCTACGGTCTT
 CAGCTGCCCCCTGCGCTCCTCCAGTGCCTGTTTCGCGCGGGCGCCGCTGCTGCTGCAGCCGCTTTC
 ATCCACATAGTCTCCACCTCCCTCCTCCACCCACCTCCACCAGGGGCCGAGCTGAGTTGGCCAG
 GACCGCTTTGGGTATAGATCACATGCATTGGCAGCCGCCTTCCAGGCCCTGCAGGCGGCTGCTGTA
 AAGGCAGGGGTCGCGGAGCCGAGCTCTGGCTCGAAGTCTTTCTCAATAGAGAGTCTGATCGGTGAA
 CGCGGGGCGCGGCTGCCGCGGAGCACATGTCTTAGCGGAGCAGCTTCCGGCACTGCCCCAGGACCCGG
 CGGTGGCGGATGCGCGTGCAGGACGTCAGGCCCGCCGCTGGCTGACTAGATCCCTCGTGGTCCGC
 GCTGCTGCTGCTCCTTCCGTGTCTAGTAGCGCAGCCTTGGGCACACTTACCAGGGGACGGCTGT
 CCTCCGTGGAGAATTCACGGCACGGATTCCAATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222088 representing NM_008242
 Red=Cloning site Green=Tags(s)

MTLSTEMSDASGLAEETDIDVVGEGEDDEEEEDDDDEGGGRGGGSRPSSAQRRRRSYAGEDDLE
 EEDDDLLLASRPAASPAPPGPAPPGTSGGCSGAGAGGGAGGTGAGTGGAKNPLVKPPYSYIALIT
 MAILQSPKKRLTSEICEFISSRFYREKFPWQNSIRHNLNLNDCFVKIPREPNGPKGNYWTLDPES
 ADMFDNGSFLRRRKRFRQPLLAHAAEALLLRGAGPAAGADPGAALFPPPPPPACGYGAYGCAYGL
 QLPPCAPPALFAAAAAAAAAAFHPSPPPPPPPPPGAAELARTAFGYRSHALAAALPGPLQAAAV
 KAGGPAALARSFIESLIGRTRGPAAGAHVSSGAASGTAPGPGGGCAVQAAAGPAVALTRSLVVA
 AAAAASSVSSAALGTLHQGTALSSVENFTARISNC

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja3403_f05.zip

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 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_008242.2](#), [NP_032268.2](#)

RefSeq Size: 2461 bp

RefSeq ORF: 1371 bp

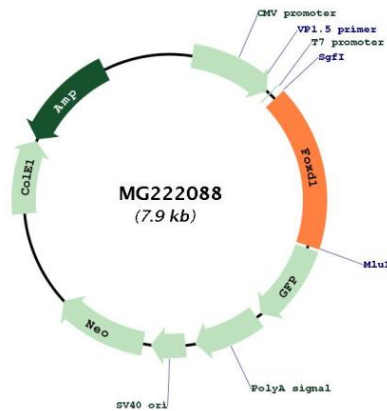
Locus ID: 15229

UniProt ID: [Q61345](#)

Cytogenetics: 13 51.96 cM

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 MG222088