

Product datasheet for **MG222218**

Foxd3 (NM_010425) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxd3 (NM_010425) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Foxd3
Synonyms:	CWH3; Genesis; Hfh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222218 representing NM_010425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCTCTCCGGCAGCGGCAGCGCCAGCGATATGTCCGGCCAGACGGTGTGACGGCCGAGGACGTGG
 ACATCGATGTGGTGGGCGAGGGCGACGACGGGCTGGAGGAGAAGGACAGCGACGCCGGGTGCGACAGCCC
 CCGGGGGCCTCCGGACCTGCGCCTGGACGAGGCGGACGAAGGGCCACCGGTGAGCGCTCATCACGGCCAG
 TCTCAACCGCAAGCCCTGGCACTGCCACCGAGGCGACCGGGCCGGGAACGACACGGGAGCTCCGGAGG
 CCGACGGTGCAGAGGGCGGCGAGGACGCGGTGACAGGCGCGGTGGGCCCGGCGCGGGCAGCGGGCGAC
 GGGAGGTCTGACCCGAACAAGCCCAAGAACAGCCTGGTGAAGCCACCCTACTCTTACATCGCGCTCATC
 ACCATGGCCATCCTGCAGAGCCCGAGAAGAAGCTGACCCTGAGCGGCATCTGCGAGTTCATCAGCAACC
 GTTTCCGTACTACCGGAGAAGTTCCTCCGCTGGCAGAACAGCATCCGCCACAACCTGTCGCTCAACGA
 CTGCTTCGTCAAGATCCCCGCGAGCCGGCAACCGGGCAAGGGCAACTACTGGACCCTGGACCCCGAG
 TCCGAGGACATGTTTCGACAACGGCAGCTTCTGCGGCGCCGGAAGCGCTTCAAGCGCCACCGAGCAGGAGC
 ACCTGCGCGAGCAGACGGCGCTGATGATGCAGAGCTTCGGAGCCTACAGCCTGGCGGGCGGCGGGCGC
 AGGACCCTACGGCCGCCCTACGGCCTGCACCCCGCGGGGCTGCGGGCGCCTACTCGCACCCCGCGGGC
 GCGGGCGGCGCGCGGTGCTGCGGGCGTCCAGTACCCGTACGCGCTACCACCGTGGCTCCCGTGTGTC
 CGCCCGCAGTGCCCTGCTGCCCTCGGGCGAGCTGGGCCGCAAAGCGGCCGCTTCGGCTCGCAGCTCGG
 TCCGAGCTGCAGCTACAGCTCAACACCCTGGGCGCCCGCGGGCAGCCGCGGGCAGCGGGCGGCGGGC
 GGCACCACGTGCTCATCAAGTCCGAGCCAGTGCAGCGCCGTCGTTAGCATCGAGAACATCATAGGCG
 CGGGATCCGCGGGCGCCGGGGCTCGGCTGGGGTGGTGGGAGCGGCGGGGAGCCGGGGTGGCGGGG
 CAGTGGGGCGGCGGGCGCGCAGTCTTCTGCGGCCCGGACTGTGCAGTCGGCTGCGCTCATG
 GCCACGCACCGCCCTGTCGCTGAGCCGAGCAGTGCACCATCGCGCCATTCTGAGCGTGCCGCTGT
 CTGGACAGTTCCTGCAGCCCGCAGCCTCAGCCGACGGCTGCGGCCCGCCGCTGCAAGCCAAGTGGCC
 CGCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222218 representing NM_010425
 Red=Cloning site Green=Tags(s)

MTLSGSGSASDMSGQTVLTAEDVDIDVVGEGDDGLEEKSDAGCDSPAGPPDLRLDEADEGPPVSAHHGQ
 SQPQALALPTEATGPGNDTGAPEADGCKGGEDAVTGGGGPGAGSGATGGLTPNPKNSLVKPPYSYIALI
 TMAILQSPQKKLTLSGICEFISNRFPYYREKFPWQNSIRHNSLNDKCFVKIPREPGNPGKGNWTLDPQ
 SEDMFDNGSFLRRRKRFRHQEHLREQTALMMQSFAYSLAAAAGAGPYGRPYGLHPAAAAGAYSHPA
 AAAAAAAAAALQYPYALPPVAPVLPVAVPLLPSELGRKAAAFGSQLGPSLQLQLNLTGAAAAAAGTAGAA
 GTTSLIKSEPSARPSFSIENIIGAGSAAPGGSAGGGGSGGGAGGGGSGGGGAQSFLRPPGTVQSAALM
 ATHQPLSLSRRTATIAPILSVPLSGQFLQPAASAAAAAAAAAVQAKWPAQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010425

ORF Size: 1407 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_010425.3](#), [NP_034555.3](#)

RefSeq Size: 2373 bp

RefSeq ORF: 1410 bp

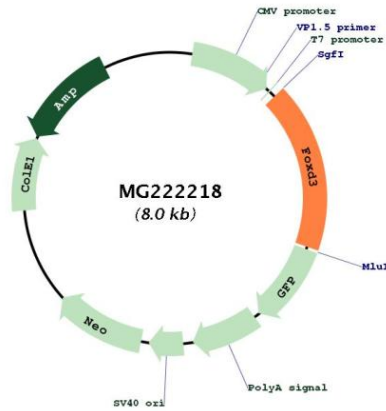
Locus ID: 15221

UniProt ID: [Q61060](#)

Cytogenetics: 4 45.71 cM

Gene Summary: Binds to the consensus sequence 5'-A[AT]T[AG]TTTGTTT-3' and acts as a transcriptional repressor. Also acts as a transcriptional activator. Promotes development of neural crest cells from neural tube progenitors. Restricts neural progenitor cells to the neural crest lineage while suppressing interneuron differentiation. Required for maintenance of pluripotent cells in the pre-implantation and peri-implantation stages of embryogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222218