

Product datasheet for **MR222218**

Foxd3 (NM_010425) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxd3 (NM_010425) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxd3
Synonyms:	CWH3; Genesis; Hfh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222218 representing NM_010425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCTCTCCGGCAGCGGCAGCGCCAGCGATATGTCCGGCCAGACGGTGTGACGGCCGAGGACGTGG
 ACATCGATGTGGTGGGCGAGGGCGACGACGGGCTGGAGGAGAAGGACAGCGACGCCGGTGCACAGCCC
 CCGGGGCTCCGGACCTGCGCCTGGACGAGGCGGACGAAGGGCCACCGGTGAGCGCTCATCACGGCCAG
 TCTCAACCGCAAGCCCTGGCACTGCCACCGAGGCGACCGGGCCGGGAACGACACGGGAGCTCCGGAGG
 CCGACGGTGCAGGGCGGCGAGGACGCGGTGACAGGCGCGGTGGGCCCGGCGCGGGCAGCGGGCGAC
 GGGAGGTCTGACCCGAACAAGCCCAAGAACAGCCTGGTGAAGCCACCCTACTCTTACATCGCGCTCATC
 ACCATGGCCATCCTGCAGAGCCCGAGAAGAAGCTGACCTGAGCGGCATCTGCGAGTTCATCAGCAACC
 GTTTCCGTACTACCGGAGAAGTTCCTCCGCTGGCAGAACAGCATCCGCCACAACCTGTCGCTCAACGA
 CTGCTTCGTCAAGATCCCCGCGAGCCGGGCAACCGGGCAAGGGCAACTACTGGACCCTGGACCCCGAG
 TCCGAGGACATGTTTCGACAACGGCAGCTTCTGCGGCGCCGGAAGCGCTTCAAGCGCCACCAAGCAGGAGC
 ACCTGCGCGAGCAGACGGCGCTGATGATGCAGAGCTTCGGAGCCTACAGCCTGGCGGGCGGCGGGGCGC
 AGGACCCTACGGCCGCCCTACGGCCTGCACCCCGCGCGGCTGCGGGCGCCTACTCGCACCCCGCGGCG
 GCGGGCGGCGCGGCTGCTGCGGCGCTCCAGTACCCGTACGCGCTACCACCGTGGCTCCCGTGTCTGC
 CGCCCGCAGTGCCCTGCTGCCCTCGGGCGAGCTGGGCCGCAAAGCGGCCCTTCGGCTCGCAGCTCGG
 TCCGAGCTGCAGCTACAGCTCAACACCCTGGGCGCCCGCGGGCAGCCGCGGGCAGCGGGCGGCGGGG
 GGCACCACGTGCTCATCAAGTCCGAGCCAGTGCAGCGCCGCTGTTGAGCATCGAGAACATCATAGGCG
 CGGGTCCGCGGCGCCCGGGGCTCGGCTGGGGTGGTGGGAGCGGCGGGGAGCCGGGGTGGCGGGG
 CAGTGGGGCGGCGGCGCGCAGTCTTCTGCGGCGCCCGGACTGTGAGTCCGGTGGCTGCGCTCATG
 GCCACGCACCAGCCCTGTCGCTGAGCCGAGCAGTGCACCATCGCGCCATTCTGAGCGTGGCGTGT
 CTGGACAGTTCCTGCAGCCCGCAGCCTCAGCCGACGGCTGCGGCCCGCCGCTGCAAGCCAAGTGGCC
 CGCTCAA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222218 representing NM_010425
 Red=Cloning site Green=Tags(s)

MTLSGSGSASDMSGQTVLTAEDVDIDVVGEGDDGLEEKSDAGCDSPAGPPDLRLDEADEGPPVSAHHGQ
 SQPQALALPTEATGPGNDTGAPEADGCKGGEDAVTGGGGPGAGSGATGGLTPNPKNSLVKPPYSYIALI
 TMAILQSPQKLLTSGICEFISNRFPYREKFPWQNSIRHNLNLNDCFVKIPREPGNPGKGNYPWLDPO
 SEDMFDNGSFLRRRKRFRHQEHLREQTALMMQSF GAYSLAAAAGAGPYGRPYGLHPAAAAGAYSHPA
 AAAAAAAAAALQYPYALPPVAVPLPPAVPLLPSELGRKAAAFGSQGLPSLQLQLNTLGAAGAAAGTAGAA
 GTTSLIKSEPSARPSFSIENIIGAGSAAPGGSAGGGSGGGAGGGGGSGGGGAQSFLRPPGTVQSAALM
 ATHQPLSLSRRTATIAPILSVPLSGQFLQPAASAAAAAAAAAVQAKWPAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9036_h08.zip

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

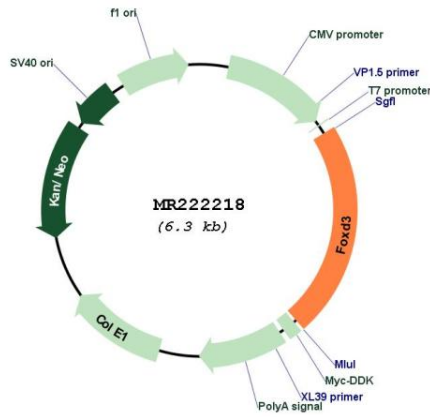
UniProt ID: [Q61060](#)

Cytogenetics: 4 45.71 cM

MW: 47.3 kDa

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 MR222218