

Product datasheet for **MC217202**

Fgd4 (NM_139234) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd4 (NM_139234) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgd4
Synonyms:	9030023J02Rik; 9330209B17Rik; Frabp; ZFYVE6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217202 representing NM_139234
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGAGGAGTCTAATCCGGCCCCTACTTCTGTACCTCAAAGGGAAGCATAGTAAGGTATCGGATCTCA
 TCAGCCACTTTGAAGGAGGCAGTGTTCCTCAAGTTACATTGATTGCAGAAAGATTCTACTATGAACCT
 CAATATTCCTCAAACCTAGGACAGCCTGGGTTAACCTCCTCACCTCCAGGAAATTTCTGCCCCAGCAC
 TCTCCACAGAAGCAGGAAACGACCCAGATCAGACTCAGGGGCAACATGGTTGTTTGCCCAATGGTGTAG
 TGGCTGCACAAAACCAGATGGAATGTGAAGATGAGAAGGAGACTACTCTAGCCAGAGATGGCTATTCA
 GACTGCTGCCGCTCTCCTGATACACATGTGCTGAATGGAGAAAGAAATGAAACCATCACAGATTCTGCA
 TCATCCATAGCCAATAGTCATGATGAAATGCTTCTGACAGCAGCTGCAGGACTCCAGGGACGGACTTAG
 GGCTTCCCTCAAAGAAGGGGAGCCAGGGATGGACGCTGAGCTCCAAGAGAGGGGAAATGGGGTGAACAC
 CATGGGATTGGATACGTTGGACCAGCACCATGAAGTGAAGGAGACTAATGAACAGAACTTCACAAAATA
 GCCACTGAACTTTTACTTACAGAAAGAGCTTATGTGACCCGGCTCGACCTCCTAGATCAGGTATTTTATT
 GCAAATATTAGAAGAAGCAAACCGAGGCTCATTTCCTGCAGAGATGGTGAATAAAATCTTTTCTAACAT
 TTCATCAATAAATGCCTTCCATAGTAAATTCCTATTACCTGAGCTGGAGAAACGAATGCAAGAATGGGAA
 ACTACACCCGAAATTGGAGATATCCTGCAAAAGTTGGCGCCATTCTTAAGATGTATGGAGAATACGTGA
 AGGGATTTGATAATGCAGTGGAAGTGGTTAAAACCATGACAGAGCGTGTCCCCAGTTTAAATCAGTGAC
 TGAAGAGATTGAGAAACAGAAGATCTGTGGAAGCTTACGCTGCAGCATCACATGCTGGAGCCTATTCAG
 CGCATTCCTCGCTATGAGATGCTCCTGAAGGACTACCTGAAGAAGTTGTCTCTGACTCCCAGACTGGA
 ATGATGCAAAAAAGTCACTTGAAATTATCTACAGCAGCAAGCCATTCTAATAGTGAATAAGAAAAAT
 GGAGAACCTGAAGAACTTTTAGAAATTTATGAGATGTTGGGAGAAGAAGAGGATATTGTAAATCCCTCA
 AATGAACTAATAAAAGAAGGACAAATCCTCAAACCTAGCAGCTCGGAACACATCAGCACAAGAGCGCTACC
 TCTTCTTATTCAACAACATGTTGCTATATTGTGTGCCAGATTGAGCTTGGTTGGCTCAAAATTCACAGT
 TCGAACCCAGATTGGCATTGATGGAATGAAATTTGGGAGACTCACAATGAAGAATATCCACACACTTTC
 CAGATATCTGGGAAAGAAAGAACCTGGAGCTGCAGGCCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_139234

Insert Size: 1515 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none"> 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:	<u>NM_139234.2, NP_631980.1</u>
RefSeq Size:	2406 bp
RefSeq ORF:	1515 bp
Locus ID:	224014
Cytogenetics:	16 A2- A3
Gene Summary:	<p>This gene is a member of the FYVE, RhoGEF and PH domain containing (FGD) family. The encoded protein is a Cdc42-specific guanine nucleotide exchange factor (GEF) that plays an essential role in regulating the actin cytoskeleton and cell morphology. Disruption of the gene in mouse causes abnormal nerve development and dysmyelination. Mutations in a similar gene in human can cause Charcot-Marie-Tooth disease type 4H (CMT4H), a disorder of the peripheral nervous system. Alternative splicing results in multiple transcript variants.</p> <p>[provided by RefSeq, Sep 2014]</p>