

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; Frapp; ZFYVE6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGTCTAATCCGGCCCCTACTTCTGTACCTCAAAGGGAAGCATAAGTAAAGGTATCGGATCTCA
 TCAGCCACTTTGAAGGAGGCAGTGTTCCTCAAGTTACATTGATTTGCAGAAAGATTCTACTATGAACCT
 CAATATTCCTCAAACCTAGGACAGCCTGGGTTAACCTCCTCACCTCCACGAAAAATTTCTGCCCCAGCAC
 TCTCCACAGAAGCAGGAAAAACGACCCAGATCAGACTCAGGGGCAACATGGTTGTTTGCCCAATGGTGTAG
 TGGCTGCACAAAACCAGATGGAATGTGAAGATGAGAAGGAGACTACTCTTAGCCAGAGATGGCTATTCA
 GACTGCTGCCCTCCTGATACACATGTGCTGAATGGAGAAAGAAATGAAACCATCACAGATTCTGCA
 TCATCCATAGCCAATAGTCATGATGAAAATGCTTCTGACAGCAGCTGCAGGACTCCAGGGACGGACTTAG
 GGCTTCCCTCAAAGAAGGGGAGCCAGGATGGACGCTGAGCTCCAAGAGAGGGAAAAATGGGTGAACAC
 CATGGGATTGGATACGTTGGACCAGCACCATGAAGTGAAGGAGACTAATGAACAGAACTTCACAAAATA
 GCCACTGAACTTTTACTTACAGAAAGAGCTTATGTGACGCCGCTCGACCTCCTAGATCAGGTATTTTATT
 GCAAACATTAGAAGAAGCAAACCGAGGCTCATTTCCTGCAGAGATGGTGAATAAAATCTTTTCTAACAT
 TTCATCAATAAATGCCTTCCATAGTAAATTCCTATTACCTGAGCTGGAGAAACGAATGCAAGAATGGGAA
 ACTACACCAGAATTGGAGATATCCTGCAAAAGTTGGCGCCATTCCTTAAGATGTATGGAGAATACGTGA
 AGGGATTTGATAATGCAGTGGAACTGGTTAAAACCATGACAGAGCGTGTCCCCAGTTTAAATCAGTGAC
 TGAAGAGATTCAGAAACAGAAGATCTGTGGAAGCTTAAACGCTGCAGCATCACATGCTGGAGCCTATTCAG
 CGCATTCTCGCTATGAGATGCTCCTGAAGGACTACCTGAAGAAGTTGTCTCCTGACTCCCAGAGATGGA
 ATGATGCAAAAAAGTCACTTGAATTATATCTACAGCAGCAAGCCATTCTAATAGTCAATAAGAAAAAT
 GGAGAACCCTGAAGAACTTTTAGAAATTTATGAGATGTTGGGAGAAGAAGAGGATATTGTAATCCCTCA
 AATGAACTAATAAAGAAGGACAATCCTCAAACCTAGCAGCTCGGAACACATCAGCACAAGAGCGCTACC
 TCTTCTTATTCAACAACATGTTGCTATATTGTGTGCCAGATTACAGTTGGTTGGCTCAAAATTCACAGT
 TCGAACCAGAGTTGGCATTGATGGAATGAAAATTTGGGAGACTCACAAATGAAGAATATCCACACACTTTC
 CAGATATCTGGAAAGAAAGAACCCTGGAGCTGCAGGCCAGG**TGA**

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

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:

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_139234.2](#), [NP_631980.1](#)

RefSeq Size: 2406 bp

RefSeq ORF: 1515 bp

Locus ID: 224014

Cytogenetics: 16 A2- A3

Gene Summary: 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. [provided by RefSeq, Sep 2014]