

Product datasheet for **MC229108**

Fgd4 (NM_001301817) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd4 (NM_001301817) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgd4
Synonyms:	9030023J02Rik; 9330209B17Rik; Fr; Frabp; ZFYVE; ZFYVE6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229108 representing NM_001301817
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACAGCGAGAGCGACCATAACTTCAGGCGGGTGGCCATCCGGCGGAAGTCAGGCTCCTACCTGCCGC
 CCGGGATCCCCGGCCCTGGAGCAGGCCTTCGCCGCAATTGCGGGCCTTGACCGTGTGCGCAACCCAG
 CCAGGCCGAGGCATCAATACTTGTGCAAGGTTACTCCACCTTGTACGACAAGCAACACACCACAGAA
 GCTCAGGGAATAAATGGGAGGACACCAGCAAAACGCTCCACTGCAAGTCAAAGCCACAAGTGCCTCCAA
 AACATTATATCTGCAGAATTCACCTTCATCCCATATCCCAAGTCCCCAGGCATAAAGCTTTACCTAG
 TGCAAAGCCAAGGATGGAGGAGTCTAATCCGGCCCTACTTCTGTACCTCAAAGGGAAGCATAGTAAG
 GTATCGGATCTCATCAGCCACTTGAAGGAGGCAGTGTGTTGTCAGTTACATTGATTTGCAGAAAGATT
 CTAATATGAACCTCAATATTCCTCAAACCTAGGACAGCCTGGGTTAACCTCCTCACCTCCACGAAAATT
 TCTGCCACGACTCTCCACAGAAGCAGGAAAACGACCCAGATCAGACTCAGGGGCAACATGGTTGTTTG
 GCCAATGGTGTAGTGGTGCACAAAACAGATGGAATGTGAAGATGAGAAGGAGACTACTCTTAGCCAG
 AGATGGCTATTACAGACTGCTGCCGCTCTCCTGATACACATGTGCTGAATGGAGAAAAGAAATGAAACCAT
 CACAGATTCTGCATCATCCATAGCCAATAGTCATGATGAAAATGCTTCTGACAGCAGCTGCAGGACTCCA
 GGGACGGACTTAGGGCTTCCCTCAAAGAAGGGGAGCCAGGATGGACGCTGAGCTCCAAGAGAGGGAAA
 ATGGGGTGAACACCATGGGATGGATACGTTGGACCAGCACCATGAAGTGAAGGAGACTAATGAACAGAA
 ACTTCACAAAATAGCCACTGAACTTTTACTTACAGAAAGAGCTTATGTCAGCCGGCTCGACCTCCTAGAT
 CAGGTATTTTATTGCAAACCTATTAGAAGAAGCAAACCCAGGCTCATTTCCTGCAGAGATGGTGAATAAAA
 TCTTTTCAACATTTTCAATAAATGCCTTCCATAGTAAATTCCTATTACCTGAGCTGGAGAAACGAAT
 GCAAGAATGGGAAACTACACCCAGAATTGGAGATATCCTGCAAAAGTTGGCGCCATTCTTAAGATGTAT
 GGAGAATACGTGAAGGGATTTGATAATGCAAGTGGAACTGGTAAAAACCATGACAGAGCGTGTCCCCAGT
 TAAATCAGTGAAGGAGATTGAGAAACAGAAAGATCTGTGGAAGCTTAAACGCTGCAGCATCACATGCT
 GGAGCCTATTACAGCGCATTCTCGCTATGAGATGCTCCTGAAGGACTACCTGAAGAAGTTGCTCCTGAC
 TCCCCAGACTGGAATGATGCAAAAAGTCACTTGAATTTATCTACAGCAGCAAGCCATTCTAATAGTG
 CAATAAGAAAAATGGAGAACCTGAAGAACTTTTAGAAATTTATGAGATGTTGGGAGAAGAAGGATAT
 TGTAATCCCTCAATGAACTAATAAAAAGAGGACAAATCCTCAAACAGCAGCTCGGAACACATCAGCA
 CAAGAGCGCTACCTCTTCTTATTCAACAACATGTTGCTATATTGTGTGCCAGATTACAGCTTGGTTGGCT
 CAAAATTCACAGTTCGAACCAGAGTTGGCATTGATGGAATGAAAATTGTGGAGACTCACAATGAAGAATA
 TCCACACACTTCCAGATATCTGGGAAAGAAAGAACCTGGAGCTGCAGGCCAGTTCTGAACAAGACAAG
 GAAGAATGGATCAAGGCCCTTCAAGAAAGTATTGATGCTTTTCATCAAAGGCATGAAACTTTTCAGAAATG
 CAATCGCAAAGGAAAAATGACATTCCTAGAAAGTTTCTACTGCTGAGCTGGGAAAACGAGCTCCAAGATG
 GATACGTGATAATGAAGTGACCATGTGTATGAAGTCAAAGAGTCTTCAATGCACTGACCAGAAGGCGG
 CATCACTGCCGGGCATGTGGACATGTGGTTTGTGGAAATGTTCTGACTACAAAGCTCAGCTTGAATG
 ATGGTGAAGATTGAACAAGTTTGTAAAGACTGTTACCAGATAATAAGTGGATTACAGACAGTGAAGA
 AAAGAAAAGAAGGGCATTTTAGAGATTGAATCAGCAGAAGTATCAGGAAATAGTGAAGTGTGAGTTTC
 CTTCAAGTACATGGAAAAGTCAAAGCCTTGGCAGAAAATCTGGTGTGTGATCCCAAGCAAGACCCCTTG
 TGCTGTACATGTATGGCGCTCCTCAGGATGTCAGAGCCCAAGCGACCATACCCCTCCTGGGCTACGTTGT
 GGATGATATGCCTAAGAGTGCAGATCTGCCACATAGTTTCAAGCTGACCCAGTCCAAGTCTGTGCATAGC
 TTTGCTGCAGACAATGAGGAACTGAAACAGAAATGGCTGAAAATCATCCTTCTAGCTGTACAGGTGAGA
 CACCAGATGGCCCAAGTGAAGTCTAGCCACCTTGAACAATCTCCTGGACCCAAGAAAAGTCAAGATG
 C**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001301817

Insert Size:	2664 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001301817.1</u> , <u>NP_001288746.1</u>
RefSeq Size:	8362 bp
RefSeq ORF:	2664 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. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>