

## Product datasheet for **MC217772**

### **Fgd2 (BC021845) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgd2 (BC021845) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgd2
Synonyms:	Tcd-2; Tcd2; tcs-2; tcs2; ZFYVE4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC021845  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACAGCGAGTACGTGAAGAAGTTTGTAGCGGGCCGGAAGTCTGGCCACGTGGATGGACAAGTCTC  
 AGCCCTTCCAGGAGGTGGTACCACCGCATCCAGTGCAGCGAGGCCTCCAGCAGCCTGACCCTGCAGACCA  
 CATGTTGGAGCCTGTGCAAAGAATCCCAGCGGTACGAAGTCTGCTCAAGGAATATGTGCAGAAGCTGCCA  
 GCCCAGGCCCCAGACCTCGAAGATGCCAGAGAGCACTGGACATGATCTTCTCAGCTGCACAGCACTCCA  
 ATGCAGCCATTGCAGAGATGGAGCGGCTGCAGGGCCTGTGGGATGTGTACCAGCGCCTGGGCTTGGAGGA  
 TGACATCGTGGACCCCTCAACACCCCTGCTCCGAGAGGGCCCTGTTCTCAAGATCTCTTCCGCCGAGC  
 GACCCAATGGAACGCTACCTGGTTTTGTTCAACAACATGCTTCTGTATTGTGTACCCCGAGTCTCCAAG  
 TGGGTGCCAGTCCAGGTGCGGACTCGCATCGATGTGGCCGGCATGAAGGTGCGGGAGCTGACCGATGC  
 TGAGTTCCACACTCCTTCTGGTGTCCGAAAGCAGCGCACACTGGAGCTGCAGGCCCGGTCCCGAGAT  
 GAAATGGTTTTCTGGATGCAGGCCCTGCCAGGCAGCCATTGACCAGGTTGAGAAGCGGAGTGAGACCTTCA  
 AGGCTGTGTCCAGGGACCTCAGGGGGACAGCAGGAGCCCAAGCCACAGGTAGAGGAGCTGGGTCTCCG  
 AGCGCCTCAGTGGGTCCGGGACAAGATGGTGACCATGTGCATGCGCTGCCAGGAGCCCTTCAATGCCCTG  
 ACTCGTCGGCGCCACCACTGCCGGGCTTGGCGTATGTAGTGTGTGCAAGTGTCTGACTACCGTGGCGG  
 AGCTGAAATATGACAGCAACAGGCCCAACCGAGTCTGCCTGACCTGTACACATTTCTACTGGAACCGT  
 ACTCCCTCAAGGCAAGGAGGACAAGAGGGGGGCATCTTGGAGAAAGAGGCCTCAGCAGCACCCGAGCAG  
 AGTCTGGTGTGCAGCTTCTGCAGCTCATAGGAGACAAGTGCAGCAGGAGCCTTCCCGGAGTTGGTGTG  
 TGATCCCCGGGATGACCCCTTGTCTGTATGTCTATGCAGCCCCCAGGACACAAGGCTCACACCTC  
 CATCCCCCTACTGGGCTATCAGGTGATTTCAAGGGCCCCAGGGGGACCCTCGGGTTTTCCAGCTGCAACAG  
 TCAGGCCAGCAGTACACCTTCAAGGCCGAGTCTGTGGAGCTGCAGGGCCGCTGGGTGACAGCTATCAAGC  
 GTGCGGCCAGTGGCCGACCCCTGAGGGACCTGACGAAGAAGATGTGTCTGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** BC021845

**Insert Size:** 1386 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:** [BC021845](#), [AAH21845](#)

**RefSeq Size:** 2094 bp

**RefSeq ORF:** 1385 bp

**Locus ID:** 26382

**Cytogenetics:** 17 A3.3

**Gene Summary:** Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Activates JNK1 via CDC42 but not RAC1. Binds to phosphatidylinositol 4,5-bisphosphate, phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 5-monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate.[UniProtKB/Swiss-Prot Function]