

## Product datasheet for **MC220171**

### **Fgd2 (NM\_001159538) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgd2 (NM_001159538) 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:** >MC220171 representing NM\_001159538  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGCGAGCCTGTGAGAAGCAGGACTCAGTGTCAACCTGGTGGCTGTGTTTGAACAACAGCAGGA  
 CTCGGGAGAAGCACCTGGATCCCATAGCCTTGAGGACCAGCCCATAGCCCTGAACACCAGCTGTCCCT  
 GTCCCCAGAGCCTTGGGAGGCACCCCTGTCAAGGAGGCCTTGAAGTCTGAATCCGGCCAGTGAGCAGG  
 ACATATCTGAGTTCCTCAAGAACAAGTTATCGAGTGGGGCTTGAGGAGATCCTGTGAGCCTGGGGTCA  
 GCCCGGGCCAGAGACACAGGAACCTGAGGAGAAGAGGGTCGTGCGAGAGCTTCTGGAGACGGAGCAGGC  
 CTATGTGGCTCGCTGCACCTGCTTGACCAGGTGTTCTCCAGGAGCTGTGAGGGAGGCAGGCCGAGC  
 AAGGCCTCCCTGAGGACGTGGTGAAGCTATTTCTCCAACATCTCTCCATCTATCGTTCCACGCC  
 AGTTCTTCTTCCCGAGCTGCAGCGCGCTGGATGACTGGGCAGCCACGCCCGCATTGGGGATGTGAT  
 CCAGAAGCTGGCCCCGTTTCTGAAAATGTACAGCGAGTACGTGAAGAATTTGAGCGGGCCGCGAACTG  
 CTGGCCACGTGGATGGACAAGTCTCAGCCCTCCAGGAGGTGGTACCCGCATCCAGTGCAGCGAGGCC  
 CCAGCAGCCTGACCTGCAGCACCATGTTGGAGCCTGTGAAAAGAATCCCGCGGTACGAACTGTGCT  
 CAAGGAATATGTGCAGAAGCTGCCAGCCAGGCCCCAGACCTCGAAGATGCCAGAGAGCACTGGACATG  
 ATCTTCTCAGCTGCACAGCACTCCAATGCAGCCATTGCAGAGATGGAGCGGCTGCAGGGCCTGTGGGATG  
 TGTACCAGCGCCTGGGCTTGAGGATGACATCGTGGACCCTCCAACACCCTGCTCCGAGAGGGCCCTGT  
 TCTCAAGATCTTTCCGCCGACGACCCAATGGAACGCTACCTGGTTTTGTTCAACAACATGCTTCTG  
 TATTGTACCCCGAGTCTCCAAGTGGTGGCCAGTTCAGGTGCGGACTCGCATCGATGTGGCCGGCA  
 TGAAGGTGCGGGAGCTGACCGATGCTGAGTCCACACTCCTTCTGGTGTCCGAAAGCAGCGCACACT  
 GGAGCTGCAGGCCCGGTCCCGAGATGAAATGGTTTCTGGATGCAGGCCCTGCCAGGCAGCCATTGACCAG  
 GTTGAGAAGCGGAGTGAGACCTCAAGGCTGCTGCCAGGACCTCAGGGGACACGCAGGAGCCCAAGC  
 CACAGGTAGAGGAGCTGGGTCTCCGAGCGCCTCAGTGGTCCGGGACAAGATGGTGACCATGTGCATGCG  
 CTGCCAGGAGCCCTCAATGCCCTGACTCGTCCGGCCACCCTGCCGGGCTTCCGGCTATGTAGTGTG  
 GCCAAGTGTCTGACTACCGTCCGGAGCTGAAATATGACAGCAACAGGCCCAACCGAGTCTGCCTGACCT  
 GCTACACATTTCTACTGGAAACGTAATCCCTCAAGGCAAGGAGGACAAGAGGGGGGCATCTGGAGAA  
 AGAGCCCTCAGCAGACCCGAGCAGAGTCTGGTGTGCAGCTTCTGCAGCTCATAGGGGACAAGTGCAGC  
 AGGAGCCTTCCCGGAGCTGGTGTGATCCCCGGGATGACCCCTTGTCTGTATGTCTATGCAGCCC  
 CCAGGACACAAAGGCTCACACCTCCATCCCCCTACTGGGCTATCAGGTATTTCAAGGGCCAGGGGGA  
 CCCTCGGGTTTTCCAGCTGCAACAGTCAAGGCAAGGAGTACACCTTCAAGGCCGAGTCTGTGGAGCTGCAG  
 GGCCGCTGGGTGACAGCTATCAAGCGTGCAGCCAGTGGCCGACCCTGAGGGACCTGACGAAGAAGATG  
 TGTCTGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001159538

**Insert Size:** 1971 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\\_001159538.1](#), [NP\\_001153010.1](#)

**RefSeq Size:** 2634 bp

**RefSeq ORF:** 1971 bp

**Locus ID:** 26382

**UniProt ID:** [Q8BY35](#)

**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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).