

Product datasheet for **MC220172**

Fgd2 (NM_013710) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd2 (NM_013710) 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: >MC220172 representing NM_013710
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCGAGCCTGTGAGAAGCAGGACTCAGTGTGCAACCTGGTGGCTGTGTTTGAACAACAGGACTC
 CGGGAGAAGCACCTGGATCCCATAGCCTTGAGGACCAGCCCATAGCCCTGAACACCAGCTGCCCTGTC
 CCCAGAGCCTTGGGAGGCACCCCTGTCAAGGAGGCCTTGAAGTCTGAATTCGGGCCAGTGAGCAGGACA
 TATCTGAGTTCCTCAAGAACAAAGTTATCGAGTGGGGCTTGGAGGAGATCCTGTCAGCCTGGGGTCAACC
 CGGGGCCAGAGACACAGGAACCTGAGGAGAAGAGGGTCTGCGAGAGCTTCTGGAGACGGAGCAGGCCTA
 TGTGGCTCGCCTGCACCTGCTTGACCAGGTGTTCTTCCAGGAGCTGCTGAGGGAGGCAGGCCGAGCAAG
 GCCTTCCCTGAGGACGTGGTGAAGCTCATTTTCTCCAACATCTCCTCCATCTATCGTTTCCACGCCAGT
 TCTTCTTCCCGAGCTGCAGCGGCGTGGATGACTGGGCAGCCACGCCCGCATTGGGGATGTGATCCA
 GAAGCTGGCCCGTTTCTGAAAATGTACAGCGAGTACGTGAAGAACTTTGAGCGGGCCGCGGAAGTCTG
 GCCACGTGGATGGACAAGTCTCAGCCCTCCAGGAGGTGGTACCCTGCATCCAGTGCAGCGAGGCCCTCCA
 GCAGCCTGACCCTGCAGCACCACATGTTGGAGCCTGTGCAAGAATCCCGCGGTACGAACTGCTGCTCAA
 GGAATATGTGCAGAAGCTGCCAGCCAGGCCAGACCTCGAAGATGCCAGAGAGCACTGGACATGATC
 TTCTCAGCTGCACAGCACTCCAATGCAGCCATTGCAGAGATGGAGCGGCTGCAGGGCCTGTGGGATGTGT
 ACCAGCGCCTGGGCTTGGAGGATGACATCGTGGACCCCTCCAACACCCTGCTCCGAGAGGGCCCTGTTCT
 CAAGATCTCTTCCGCCGACGACCCAATGGAACGCTACCTGGTTTTGTTCAACAACATGCTTCTGTAT
 TGTGTACCCCGAGTCTCCAAGTGGTGGCCAGTTCAGGTGCGGACTCGCATCGATGTGGCCGGCATGA
 AGGTGCGGGAGCTGACCGATGCTGAGTCCCACACTCTTCTGGTGTCCGAAAGCAGGCACACTGGA
 GCTGCAGGCCCGGTCCCGAGATGAAATGGTTTCTGGATGCAGGCCTGCCAGGCAGCCATTGACCAGGTT
 GAGAAGCGGAGTGAGACCTTCAAGGCTGCTGTCCAGGGACCTCAGGGGGACACGCAGGAGCCCAAGCCAC
 AGGTAGAGGAGCTGGTCTCCGAGCGCCTCAGTGGTCCGGGACAAGATGGTGACCATGTGCATGCGCTG
 CCAGGAGCCCTTCAATGCCCTGACTCGTCCGGCCACCACTGCCGGGCTTCCGGCTATGTAGTGTGCTG
 AAGTGTCTGACTACCGTCCGGAGCTGAAATATGACAGCAACAGGCCCAACCGAGTCTGCCTGACCTGCT
 ACACATTTCTCACTGAAACGTAATCCCTCAAGGCAAGGAGGACAAGAGGCGGGCATCTTGGAGAAAGA
 GGCCTCAGCAGCACCCGAGCAGAGTCTGGTGTGCAGCTTCTGCAGCTCATAGGGGACAAGTGCAGCAGG
 AGCCTTCCCGGAGCTGGTGTGATCCCCGGGATGACCCCTTGTCTGTATGTCTATGCAGCCCCC
 AGGACACAAAGGCTCACACCTCCATCCCCCTACTGGGCTATCAGGTGATTCAGGGCCCCAGGGGACCC
 TCGGGTTTTCCAGCTGCAACAGTCAGGCCAGCAGTACACCTTCAAGGCCGAGTCTGTGGAGCTGCAGGGC
 CGCTGGGTGACAGCTATCAAGCGTGCAGCCAGTGGCCGACCCCTGAGGGACCTGACGAAGAAGATGTGT
 CTGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013710

Insert Size: 1968 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:	NM_013710.4 , NP_038738.2
RefSeq Size:	2631 bp
RefSeq ORF:	1968 bp
Locus ID:	26382
UniProt ID:	Q8BY35
Cytogenetics:	17 A3.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of a coding exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.</p>