

## Product datasheet for **MC224333**

### **Fgd5 (NM\_172731) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fgd5 (NM\_172731) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fgd5  
**Synonyms:** C330025N11Rik; mFLJ00274; ZFYVE23  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224333 representing NM\_172731  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCACAGAGCAGATTACCAAAGCCACCACTTGCTCCCAAGCCAAAGGTTGCTACCAACCCTTATGCAC  
CGGCAGCCAAGTTTCCCCTTACAGAGGCCTGACAGCTTCCCCAGTCCCACTCCATGTCCAGGGGCC  
CAAGCCCCCTATCGCTCCTAAGCCAGACTGACTGGCCCCAGTGAGTACCTGAACAACAGCCTCGGCAAA  
TGCAGCAATGGGAGGCTGCTCTGTGAGGACCGGGCCTGTACGACGGACACCACTCCACCCTGAATTGCT  
TGGAGTTGGAGCCTGATGAGCAGTATATCATGGTTCCCAGGGCTCCACAGAAAGAAGATACTCCCCTGGA  
TGGGGCTACCGAGGAGCCGGGGTTTGGGGGAAGTCCAGGAGCATGGTACAGAGCAGACAGGAAGTGGAG  
GGGACCTGGAAGCTCCAGATGAAGAGGCCAAGTAGAGACAGTGAGGAAGGCATGGTCCACGCTCTGG  
AAGATGAAGACTGTGATCACGATCCAGAGACGGATGGGACCCCAACATCGCCAGATGAAGGGCACC  
CAGAGACAGTGAAGAGGTGAGGAGGACTGTGATCAGGGCCAGGTATGGAGGAGCATCCCATGAGTGAA  
GAGGAGGGAGAAGAGGAGGAGTGAAGGAGCACGTGTACAACAGTGATAACAGGGCACCCCTGGGATGGAG  
AGGAGCCCTTCCCAATGAGGTCTTCTCACACATGTCCGCTCTCAGTCCCCTGAAGTTCCCTGTTGGGA  
GCCAGGCCCTCTGAGACTCCTGGAGAGGCAGAAGAGGATTGTGAAGACATCTGTAACAACACAGAACCT  
GGGAAACCAATCAGGACTGGTCAGGACACAGAGGATGCCGGCATGGGATCCCCTGAGAGTGAGGTGT  
CCCCAGATGTCCAGGAGCAAGAGGCAGCAACGGACAACCCTGAGGTCTTTGAGGAGGACTCTGCAGATGC  
TGCAGAAGGTGAGGATCAGATAGAGCAGGAGGAACCCCAATTGTGACGAGGAAGCCTATAATAGAGAT  
GCCGCAGCAGCCACCATGCAGGTGGGAGAGGACCTCGGAGAGGAGGGAGACCATGTGCAGGAGGACCCTG  
CTGAGGAAAGCTGCCAGATCATTCCCTTTGAGAGCGACAGTGTGGAGGAGGATTTCTCACCTACACTCAC  
AGAGAATCCCTATGAGATTTTCCCAACCGAGAGCACTTCTTCTGCAATAACACCTATTCCCTTGACGAG  
TCAGCCAATGGGCACGAGCCAGTGTGCGAGATCTGTGTAGAGGAGGTTCTGGTGTGGCCCTCCACTTA  
ACCAGCATGATCCCTGCCAGATGGATCTGGAGAGGACTCCCCGGTGGTCCCTGATGTGGTGGTCCGTGCC  
AGAGAATGAGGGGCCCTGGATGATGCACTCAGCAGTCCATACGTGATGGGAGTTGGCTTCTGAGCCTT  
GGAGAGGGAGCGCAGTCAGACCCAGGCTGCATCAGGCACTCTGAGTGGGTACAGTACATGGGAGGAAG



GGGACTCTGAGGGAGGGCAGGTCCCAGTGGATAGGAAGAATATTGCCACAAGGGCCCGCCTCACTCTGG  
 GAAGGTGGCTGGTCATGTTCCAGAACTGTTCTAGAAGAAACGGGACCAGAAACCTGTTTCATCAGGCATG  
 GGCATCAGAGATACCAGTGTGAAGTGAGGAAGATAGGTATATTGCCAGAGGGAAAGCCTCCCGAGTGTG  
 TTCGGGCTTGCCGGCCAAGCCAGAGCATTACTCTCTACCCAAGGTCTTCTCTGTAGAAGGCCGGGA  
 GAGTCCCTGTCCATGTTCCGGGAGCCAGAGGGAGCCGGGCTGGACAGCCACCGTGAAGGAGGAAAGAG  
 GACAACCTCTCTGCCGGGCGCCATCGGCTCCTCCGGTAGCTTCTCACAGCCAGCCACCTGCCTTCCA  
 GTGGCACCTCCACACCATCCTCTGTGGTGCATCCCACCCCTTTTGACTTGGCTGCATACGAAGAA  
 ACCCATCACTAAAAGCTCACCTCACTCCTGATAGACGGAGACACCCTGGAAAAAGCCTCTAAGAAGAAG  
 AAGTCTCCTTCAAACGCTTCTGGAGTGACGTTGAGGAAGAAGACAGAGCAAGGTGCACGTGGACA  
 TGAACCTGTCGTCTCCAGGTCTTCTCTGAGTCCAGCTACCATGGTCCAGCCAGGGTACTGGAACCTGA  
 CCGCAGAAGCCTCAGCAACTCGCCCAGCTCAAGTGTGCGACTGGAAAGCTCCGGGCTCTGACTCCCCG  
 GCCGCCCTCATCTTACAGGGACAGCAAGAGGAAAGGCGTCCCCTTCCAGCAGGACGGTGTCCAGAGTGG  
 AGTCTTCAAGACCGCTCCCGGCCCTTCTGCTCTGCCCTCACCAAGCCACGGTCCATCTCATT  
 CCCAATGCCGACTTCGGACTATGAGAACATCCAGCCATGAACTCAGACTATGAGAATCCAGATC  
 CCCCTCGCAGGCCGGTGAAGTGGACTGGCACTTTCACAAAGCTGTTGAAGAAGCAGAGCCGAGCCCTGTCCA  
 CCGCAAATGAAAAAGACGGCTACGTGGACATGAGCAGCTTCAATGCCTTCGAGAGCAAGCAGCAGAGTTC  
 AGAGCAGGAAGCTGAGAGCGCCTACACTGAGCCCTACAAGGTCTGTCCCATCTCAGCGGCTCCCAGAGAG  
 GACCTCACATCAGACGAAGAACAAGGAAGCTCCGAGGAGGAGGACAGTGCTTCAAGAGACCCAGCCTCT  
 CACACAAGGGTGAAGGACAGTCTAGAGCCCTTGTTCATCGCTCAGGAGCTGCTGTCTTCCAGAGAAAGCATA  
 TGTGCAGATGTTGCAGCACTTAAGCCTGGATTTCCATGGAGCCGCTCCTGAGGGCTTGGAGAAGCTAGAG  
 CAAGAGGGCAGAGAGCCACTGGCCAGGAGGAGCTGCGGACGGGCTGCGGGAGCTCCAGCTATCTGTG  
 ACCTTACCAGGGCATCCTGGAGAGCTGGAGCAGAGGCTGGGGATTGTGGGAGGGCCAGCCGAGCTGAGC  
 GGCCGACATCTTCTGGCCAGGAACAGGAGTTCGAGCATCATGCCGACACATCTGCAATTTGACAGG  
 TACCTGGGGCTGCTCGCTGAGAGCTGCCTGCTCTCACCCGGCTAGCCACCAGGTCCGGGAGTTGAGC  
 AGAGTTCACAAGGGGTGGCCAGAGCATGAAGCATCGTATGCTGCGTGTGGTCCAGCGCCTTCCAGTA  
 CCAAGTGTGCTCACTGATTATTTAAATAACCTGTGCCGGACTCAGCAGAGTACGACAACACTCAGAGT  
 GCTCTGACTCTCATCTCTAAAGTACAGACCGTGCACGAAAGCATGGAACAGGGGGAAAACTGCAGA  
 AGCTGGTCCACATCGAGTACAGTGTACGAGGCCAAGGGGACCTCCTCCAGCCAGGAAGGGAGTTCCTGAA  
 GGAAGGGACACTGATGAGGGTGAAGGGAAAAGCCGACACCCCGCCACCTGTTCTGATGAATGACACA  
 CTCCTGTACACACATCCCAGAAGGATGGGAAGTACCGGCTGAAGAGCTCGTGCAGTGGCCAACATGA  
 AGGTCAGCCGCCCTGTGATGGACAAAGTGCCTATGCTCTGAAGATCGAAACTCCTGAGTCTTGTCTGAC  
 ACTGTCTGCAAGCTCCTGCGCGGAGCGGACGAGTGGCACTACTGTCTGAGCAGAGCCCTCCCGGAGGAT  
 TACAAGACTCAGGCCCTGGTGCCTTCCACCACAGTGTGGAGATCCGGGAAAGGCTGGGGATCAGCCTCG  
 GTGAGAGGCTCCCCACCCTGGTGCCTGTCACTCATGCCATGATGTGCATGAACTGCGGCTGTGACTTCTC  
 CCTCACCGTGAGGCGCCACCCTGCCATGCCTGCGGCAAGATTGTGTGCCGGAAGTCTCTCGAAACAAG  
 TACCCATTGAAGTGCCTCAAGAACAGGATGGCCAAAGTCTGTGATGGCTGCTCCGGGAGCTGAAGTTGA  
 GGAATGGGCTGTCCAGGCTCCATGAGAGAGCGTCCAGTCAAGTATGAGCTTCCACTGTCTCGTCCCG  
 CTTTTCTCGGGCAGCGCCTTGTCTCTGCTTCCAGAGTATTAGCCCTCAACTTCAAGAAGCAGAAA  
 AAAGTCCCTTCGGCTCTGTCCGAGTGGCCGCTCAGGAGAGGGCTTCCATCAGCGGCTACTTGAGCC  
 GCTGTAAGAGTGGCAAGCGGCGCTGGAAGAACTCTGGCTCGTCAAGGGCAAAGTACTCTACACCTA  
 CTTGGCCAGCAGGACAAAGTGGCCATGGAGAGCATACTCTGCTGGGTTTTACTATTGCCCCAGAAAAG  
 GAGGAGGGCAGCAGCAAGTGGCCCTGTTTTTTCATTTTATCACAAGAAAACCTGTTTTACAGCTTCA  
 AAGCAGAGGACAGCAATTCTGCTCAGAGATGGATGGAGGCCATGGAAGATGCCAGTGTGTTA**TAG**

**ACGGT**ACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_172731  
**Insert Size:** 4545 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172731.3</a> , <a href="#">NP_766319.3</a>
<b>RefSeq Size:</b>	6023 bp
<b>RefSeq ORF:</b>	4545 bp
<b>Locus ID:</b>	232237
<b>UniProt ID:</b>	<a href="#">Q80UZ0</a>
<b>Cytogenetics:</b>	6 D1
<b>Gene Summary:</b>	Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Mediates VEGF-induced CDC42 activation. May regulate proangiogenic action of VEGF in vascular endothelial cells, including network formation, directional movement and proliferation. May play a role in regulating the actin cytoskeleton and cell shape (By similarity).[UniProtKB/Swiss-Prot Function]