

Product datasheet for **MC222827**

Fgd1 (NM_008001) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd1 (NM_008001) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgd1
Synonyms:	ZFYVE; ZFYVE3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222827 representing NM_008001
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATGGCCACCGAGTCCCGGGGGCCCTGGGCCTTCGGATCCCGAACGCTCAGCGGCAATACCCCCG
 GTGCCGCTCCGCTGGCCTGTGCCGACTCGGACCTGGAGCCTTGAACCCGGGCTGCCGGTGAGCAGGGG
 CTCAGGCACGGCTCTTGAGGCCCTTTGGATCCTCAGTTTGTGGACCCTCGGATGCCAGCCTGGGAGCG
 CCTCCAAGCTCCCGGTCTTACCCTGCGGCCCTAGTCCTCAGCACCACCGGGCCCTGCGCTTCTCTACC
 ACCTGGAGGGCTCGCAGCCTCGGCTGGACTGCACCAGGAAACCGGATCCTGGTTAAAAGTTTGTCCCT
 TGACCCTGGCCAGAGCCTTGAGCCTCATCCAGAAGGTCCCAACGGCTTCGCTCAGATCCAGGCCCTCCC
 ACTGAAATCCCTGGCCACGTCTTACCCTGAAGCGGGCACCGGGCCAAAGCCACAGGTTCCCCCAA
 AGCCAGTACCTGCAGATGCCCGGGTCTTCTCTCTGAGCCATTCTCCACCACCATCACGCC
 TCTGCCTGCAGACCCTAGAGTGGCAAGGACTCGTCCCAGAGCTGAGGCCAGCACTAGTTCTGCAGCA
 GTATCATATTGATTGAGAAGTTTGAAGAGAGCCTGTGATTGTTGCCTCGGATAGGCCAGCCCCCTGGCC
 CCTGCCAGTTCCCCCAGAGCCAGCCATGTTGCCACAGCCACCCCGCAGCCAACAGGGTCCCAGCTCCC
 TGAGGGTGAAGCTTCTCGCTGCCTGTTCTGCTGGCTCCTGGGCCCGGGATGGTGAAGGTGCCTAAC
 CGGGACAGCGCATTGACAGCATCAGCTCGCCATCCAACAGTGAAGAGACCTGCTTCGTCACTGATGATG
 GGCCCCCATCCACAGCCTCTGTCTGGGCCCGCCCTGGCTAGTAGCCAGTAGCTTTGGCCGACCC
 CCACCGGCTGGTCCCAGGAGTTGACAGTGAAGAGGAAGAGGAAGAAGAAGAGGAGGAAAAAG
 GAAAGATAAATCCAGTCCCCCGATGGAGAGACAGGAGTCTGTGGAGCTGACTGTGCAGCAGAAGGTGT
 TCCATATTGCCAATGAGCTCTGCAAACTGAGAAGCCATGTTTCCAGGCTCCATCTCTGGATCAGGT
 ATTCTGTGCCCGCTGCTGGAAGAAGCTCGGAACCGCAGTTCTTCCCGCAGATGTTGTCCACGGCATC
 TTCTCTAACATCTGCTCCATCTATTGCTTCCACCAGCAGTTCTGCTGCCTGAGCTAGAGAAGCGCATGG
 AGGAATGGGACCCTACCCACGCATTGGTGACATTCTCAGAAGTTGGCACCCCTTCTCAAGATGTATGG
 CGAGTATGTAAAAAATTCGACCGGGCGGTAGAGCTGGTCAACACATGGACAGAGCGGTCTACCCAGTTT
 AAAGTCATCATCCATGAAGTACAGAAGGAGGAAGCCTGTGGCAACCTGACCTGCAGCACCACATGCTGG
 AGCCCGTGCAGCGTATCCCCGCTATGAACTTCTTCTCAAGGACTATCTGTTAAAGTGCCTCATGGCTC
 CCCGGACAGCAAGGATGCCAGAAGTCTTTGGAGCTGATAGCCACAGCAGCAGAACACTTAATGCTGCC
 ATCCGGAAAAATGGAACGAATGCACAAGTCTGAAGGTGTATGAGCTGCTAGGGGTGAGGAGGACATTG
 TCAGTCCCACAAAGAGCTCATAAAGGAAGGCCATATCCTTAAGCTGTCAGCAAAGAATGGGACCACTCA
 AGATCGATACCTCATATTATTCAACGACCGCCTCTTTACTGCGTGCCAGGCTGCGGCTCCTTGGTTCAG
 AAGTTTAGCGTGCGGGCACGCATTGATGTAGATGGCATGGAGCTAAAGGAGAGCTCCAACCTCAACATGC
 CTCGGACCTTCTGGTGTGAGGAAAGCAGCGCTCTCTGAACTGCAGGCCAGGACTGAGGAGGAGAAGAA
 AGACTGGGTCCAGGCCATCAATTCACCCTCCTGAAGCATGAACAGACCTGGAGACTTTCAAACTGTTG
 AACTCAACAAACAGGGATGATGAAGATACTCCCCCTAACTCTCCAACCTGGATCTTGGGAAGAGGGCAC
 CTACGCCATCCGGGAAAAGGAAGTACCATGTGCATGCGCTGCCAGGAGCCCTCAATTCATCACCAA
 ACGCAGGCACCACTGCAAGGCCTGTGGCATGTGGTTTGTGGAAATGCTCTGAGTCCGAGCCCGACTC
 ATCTATGACAACAATCGTTCCAACCGTGTGTGCACTGATTGCTATGTGGCCTGCATGGAGCACCTGGGA
 GCAGTCCAGCCTGTAGCCAGCATACACCCAGCGCAGGAGGTCCATCCTAGAGAAACAGGCCTCGGTGCG
 TGCTGAGAACAGCGTCATCTGCAGTCTCTGCACTACATGGAGAAGGGTGGGAAAGGATGGCACAAGGCA
 TGGTTTGTGGTCTGAGAATGAACCTTGGTGTGTACATCTATGGAGCCCTCAGGATGTGAAAGCCC
 AGCGCAGCCTGCCCTCATTGGCTTTGAGGTGGGGCTCCTGAGGAGGAGAGCGCCAGACAGGAGGCA
 TGTCTTCAAGATCACAAAAGCCACCTAAGCTGGTACTCAGCCCAGAGACAGAAGAACTCCAGCGGCGC
 TGGATGGCTGTTCTCGGACGGCGGGCCGTGGGACACATTCTGCCAGGGCCACACTGTCTGAGGACA
 AGGAGATGGAGGAGACACCAAGTGGCAGCCTCAGGAGCCACTGCTGAACCTCCTGAAGCCTCCAGACCCG
 AGACAAGACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_008001
Insert Size:	2883 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:	<u>NM_008001.4</u> , <u>NP_032027.2</u>
RefSeq Size:	4166 bp
RefSeq ORF:	2883 bp
Locus ID:	14163
UniProt ID:	<u>P52734</u>
Cytogenetics:	X 68.46 cM
Gene Summary:	This gene encodes a member of family of Rho-specific guanine nucleotide exchange factors. Rho-specific guanine nucleotide exchange factors catalyze the exchange of GDP for GTP and activate small GTPases, which function as molecular switches in signaling. This protein specifically binds cell division cycle 42, a Rho (Ras homology) GTPase. Investigations in mouse suggest that this protein is important for skeletal mineralization and for regulating the actin cytoskeleton. In humans, mutations in this gene are associated with faciogenital dysplasia, also known as Aarskog-Scott syndrome. [provided by RefSeq, Mar 2014]