

Product datasheet for **MG211315**

Fgd1 (NM_008001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd1 (NM_008001) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgd1
Synonyms:	ZFYVE; ZFYVE3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211315 representing NM_008001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATGGCCACCGAGTCCCGGGGGCCCTGGGCCTTCGGATCCCGAACGCTCAGCGGCAATACCCCCG
 GTGCCGCTCCGCTGGCCTGTGCCGACTCGGACCCCTGGAGCCTTGAACCCGGGCTGCCGGTGAGCAGGGG
 CTCAGGCACGGCTCTTGAGGCCCTTTGGATCCTCAGTTTGTGGACCCTCGGATGCCAGCCTGGGAGCG
 CCTCCAAGCTCCCGGTCTTACCCTGCGGCCCTAGTCCTCAGCACCACCGGGCCCTGCGCTTCTCTACC
 ACCTGGAGGGCTCGCAGCCTCGGCTGGACTGCACCAGGAAACCGGATCCTGGTTAAAAGTTTGTCCCT
 TGACCCTGGCCAGAGCCTTGAGCCTCATCCAGAAGGTCCCAACGGCTTCGCTCAGATCCAGGCCCTCCC
 ACTGAAATCCCTGGCCACGTCTTACCCTGAAGCGGGCACCGGGCCAAAGCCACAGGTTCCCCCAA
 AGCCAGTACCTGCAGATGCCCGGGTCTTCTCTCTGAGCCATTCTCCACCACCATCACGCC
 TCTGCCTGCAGACCCTAGAGTGGCAAGGACTCGTCCCAGAGCTGAGGCCAGCACTAGTTCTGCAGCA
 GTATCATATTGATTGAGAAGTTTGAAGAGAGCCTGTGATTGTTGCCTCGGATAGGCCAGCCCCCTGGCC
 CCTGCCAGTTCCCCCAGAGCCAGCCATGTTGCCACAGCCACCCCGCAGCCAACAGGGTCCCAGCTCCC
 TGAGGGTGAAGCTTCTCGCTGCCTGTTCTGCTGGCTCCTGGGCCCGGGATGGTGAAGGTGCCTAAC
 CGGGACAGCGCATTGACAGCATCAGCTCGCCATCCAACAGTGAAGAGACCTGCTTCGTCACTGATGATG
 GGCCCCCATCCACAGCCTCTGTCTGGGCCCGCCCTGGCTAGTATGCCAGTAGCTTTGGCCGACCC
 CCACCGGCTGGTCCCAGGAGTTGACAGTGACCTGGAAGAGGAAGAGGAAGAAGAAGAGGAGGAAAAG
 GAAAGATAAATCCAGTCCCCCGATGGAGAGACAGGAGTCTGTGGAGCTGACTGTGCAGCAGAAGTGT
 TCCATATTGCCAATGAGCTCTGCAAACTGAGAAGGCCATGTTTCCAGGCTCCATCTCCCTGGATCAGT
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 AGGAATGGGACCGCTACCCACGCATTGGTGACATTCTCAGAAGTTGGCACCCCTTCTCAAGATGTATGG
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 AGCCCGTGCAGCGTATCCCCGCTATGAACTTCTTCTCAAGGACTATCTGTTAAAGTGCCTCATGGCTC
 CCCGGACAGCAAGGATGCCAGAAGTCTTGGAGCTGATAGCCACAGCAGCAGAACACTTAATGCTGCC
 ATCCGGAAAAATGGAACGAATGCACAAGTCTGTAAGGTGTATGAGCTGCTAGGGGTGAGGAGGACATTG
 TCAGTCCCACAAAGAGCTCATAAAGGAAGGCCATATCCTTAAGCTGTCAGCAAAGAATGGGACCACTCA
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 AAGTTTAGCGTGCGGGCACGCATTGATGTAGATGGCATGGAGCTAAAGGAGAGCTCCAACCTCAACATGC
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 AGACTGGGTCCAGGCCATCAATTCACCCTCCTGAAGCATGAACAGACCTGGAGACTTTCAAACTGTTG
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 AGCGCAGCCTGCCCTCATTGGCTTTGAGGTGGGGCTCCTGAGGAGGAGAGCGCCAGACAGGAGGCA
 TGTCTTCAAGATCACAAAAGCCACCTAAGCTGGTACTTCAGCCCAGAGACAGAAGAACTCCAGCGGCGC
 TGGATGGCTGTTCTCGGACGGCGGGCCGTGGGACACATTCTGCCAGGGCCACACTGTCTGAGGACA
 AGGAGATGGAGGAGACACCAAGTGGCAGCCTCAGGAGCCACTGCTGAACCTCCTGAAGCCTCCAGACCCG
 AGACAAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211315 representing NM_008001
 Red=Cloning site Green=Tags(s)

MHGHRVPGGPGSPERSAANTPGAAPLACADSDPGALEPGLPVSRSGTALGGPLDPQFVGPSDASLGA
 PPSSRVLPCGSPQHHRALRFSYHLEGSQPRPGLHQGNRILVKSLSLDPGQSLEPHPEGPQRLRSDPGPP
 TEIPGPRPSPLKRAPGPKPQVPPKPSYLMQPRVLPPEPIPPPPSRPLPADPRVAKGLVPRAEASTSSAA
 VSSLIEKFEREPVIVASDRPAPGPCVPPPEAMLQPPPQPTGSQLEPEGEASRCLFLLAPGPRDGEKVPN
 RDSGIDSISSPSNSEETCFVSDDGPPIHSLCPGPPALASMPVALADPHRPGSQEVSDLEEEEEEEEEEEK
 EREIPVPMERQESVELTVQQKVFHIANELLQTEKAYVSRHLHLLDQVFCARLLEEARNRSSFADVVHGI
 FSNICSIYCFHQQLLPELEKRMEEWDYPRIGDILQKLAPFLKMYGEYVKNFDRAVELVNTWTERSTQF
 KVIIEHVQKEEACGNLTLQHMLEPVQRIIPRYELLLKDYLLKLPHGSPDSKDAQSLELIATAAEHSNAA
 IRKMERMHKLLKVVYELLGGEEDIVSPTKELIKEGHILKLSAKNGTTQDRYLILFNDRLLYCVPRLRLGQ
 KFSVRARIDVGMELKESNLNMPRTFLVSGKQRSLELQARTEEEKDQVQAINSTLLKHEQTLETFKLL
 NSTNRDDETPPNSPNVDL GKRAPTP IREKEVTMCMRCQEPFNSITKRRHHCKACGHVVCCKCSEFRARL
 IYDNNRSNRVCTDCYVALHGAGSSPACSQHTPQRRRSILEKQASVAAENSVICSFLHYMEKGGKGWHKA
 WVVVPENEPLVLYIYGAPQDVKAQRSLPLIGFEVGPPEAGERPDRRHVFKITQSHLSWYFSPETEELQRR
 WMAVLGRAGRGDTCFPGPTLSEDKEMEETPVAASGATAEPPEASQTRDKT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

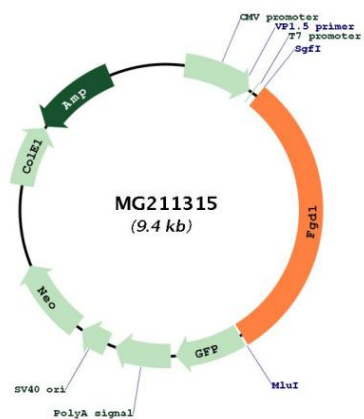


ACCN: NM_008001

ORF Size: 2880 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_008001.2
RefSeq Size:	3516 bp
RefSeq ORF:	2883 bp
Locus ID:	14163
UniProt ID:	P52734
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]

Product images:



Circular map for MG211315