

Product datasheet for **MG207373**

Fgd2 (BC021845) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgd2 (BC021845) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgd2
Synonyms:	Tcd-2; Tcd2; tcs-2; tcs2; ZFYVE4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207373 representing BC021845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACAGCGAGTACGTGAAGAAGTTTGTAGCGGGCCGGAAGTCTGGCCACGTGGATGGACAAGTCTC
 AGCCCTCCAGGAGGTGTCACCCGCATCCAGTGCAGCGAGGCCCTCCAGCAGCCTGACCCTGCAGACCA
 CATGTTGGAGCCTGTGCAAAGAATCCCGCGGTACGAACTGCTGCTCAAGGAATATGTGCAGAAGCTGCCA
 GCCCAGGCCCCAGACCTCGAAGATGCCAGAGAGCACTGGACATGATCTTCTCAGCTGCACAGCACTCCA
 ATGCAGCCATTGCAGAGATGGAGCGGCTGCAGGGCCTGTGGGATGTGTACCAGCGCCTGGGCTTGGAGGA
 TGACATCGTGGACCCCTCAACACCCCTGCTCCGAGAGGGCCCTGTTCTCAAGATCTTTCCGCCGAGC
 GACCCAATGGAACGCTACCTGGTTTTGTTCAACAACATGCTTCTGTATTGTGTACCCCGAGTCTCCAAG
 TGGGTGCCAGTCCAGGTGCGGACTCGCATCGATGTGGCCGGCATGAAGGTGCGGGAGCTGACCGATGC
 TGAGTTCCACACTCCTTCTGGTGTCCGAAAGCAGCGCACACTGGAGCTGCAGGCCCGGTCCCGAGAT
 GAAATGGTTTTCTGGATGCAGGCCCTGCCAGGCAGCCATTGACCAGGTTGAGAAGCGGAGTGAGACCTTCA
 AGGCTGCTGTCCAGGGACCTCAGGGGGACAGCAGGAGCCCAAGCCACAGGTAGAGGAGCTGGGTCTCCG
 AGCGCCTCAGTGGGTCCGGGACAAGATGGTGACCATGTGCATGCGCTGCCAGGAGCCCTTCAATGCCCTG
 ACTCGTCGGCGCCACCACTGCCGGGCTTCCGGCTATGTAGTGTGTGCCAAGTGTCTGACTACCGTCCGG
 AGCTGAAATATGACAGCAACAGGCCCAACCGAGTCTGCCTGACCTGTACACATTTCTACTGGAACGT
 ACTCCCTCAAGGCAAGGAGGACAAGAGGGGGGCATCTTGAGAAAGAGGCCCTCAGCAGCACCCGAGCAG
 AGTCTGGTGTGCAGCTTCTGCAGCTCATAGGAGACAAGTGCAGCAGGAGCCTTCCCGGAGTTGGTGTG
 TGATCCCCGGGATGACCCCTTGTCTGTATGTCTATGCAGCCCCCAGGACACAAAGGCTCACACCTC
 CATCCCCCTACTGGGCTATCAGGTGATTTAGGGCCCCAGGGGGACCCCTCGGGTTTTCCAGCTGCAACAG
 TCAGGCCAGCAGTACACCTTCAAGGCCGAGTCTGTGGAGCTGCAGGGCCGCTGGGTGACAGCTATCAAG
 GTGCGGCCAGTGCCGGACCCCTGAGGGACCTGACGAAGAAGATGTGTCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207373 representing BC021845
 Red=Cloning site Green=Tags(s)

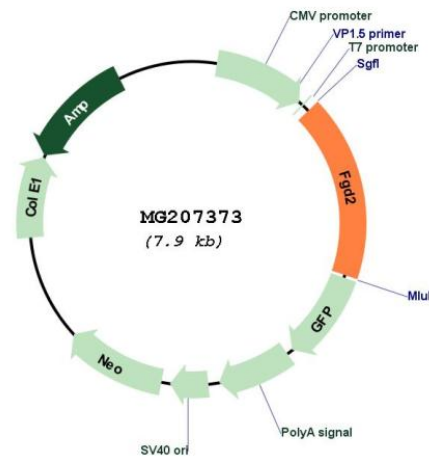
MYSEYVKNFERAAELLATWMDKSQPFQEVVTRIQCSEASSSLTLQHHMLEPVQRIPRYELLLKEYVQKLP
 AQAPDLEDAQRALDMIFSAAQHSNAAIAEMERLQGLWDVYQRLGLEDDIVDPNLTLLREGPVLKISFRRS
 DPMERYLVLFNNMLLYCVPRLVQGAQFQVRTRIDVAGMKVREL TDAEFPHSFLVSGKQRTLELQARSRD
 EMVSWMQACQAAIDQVEKRSETFKAQVQGPQGDTEPKPQVEELGLRAPQWVRDKMVTMCMRCQEPFNAL
 TRRRHHCACGYVVCACSDYRAELKYDSNRPNRVCLTCYTFLTGNVLPQGKEDKRRGILEKEASAAPEQ
 SLVCSFLQLIGDKCSRSLPRSWCVIPRDDPLVLYVYAAPQDTKAHTSIPLLLGYQVISGPQDPRVFLQQ
 SGQYTFKAESVELQGRWVTAIKRAASGRTPGPEDEEDVSD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: BC021845

ORF Size: 1385 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:	<u>BC021845</u> , <u>AAH21845</u>
RefSeq Size:	2094 bp
RefSeq ORF:	1385 bp
Locus ID:	26382
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]