

Product datasheet for **SC104864**

FGD2 (AK092732) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGD2 (AK092732) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGD2
Synonyms:	ZFYVE4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK092732, the custom clone sequence may differ by one or more nucleotides

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AGAACAGATTTCATGGGTGATTTAGCCTATCTGTCCCAGGCCAGCGTGGCTGAGTGTGCTGGCTGGAGGCC
TCTCTCTCTGCTTCGAGGGTAGCTGAGATCCACCCCGAAACCGGCAGGATGAAGGGGGCAAGTGAGGAG
AAGCTGGCATCTGTGTCCAACCTGGTCACTGTGTTTGAGAATAGCAGGACCCAGAACAGCAGCCAGAG
GCCAGAGGCTAGAGGACGTGCATCACCGCCTGAGTGCAGGCCTCCCAGTCCCCAGACCACGGGAGAA
GACGAATGTCGGGGAGGCCGTGGGGTCTGAGCCAGGACAGTCAAGAGGAGGTACCTGAACCTCCCTGAAG
AACAAAGCTGTCCAGCAAGCCTGGAGGAAATCTTGCCAGCCTGTGACCCTCTCAGGATCGGGGACGCAGG
AGCCAGAGAAGAAGATCGTCCAGGAGCTGCTGGAGACAGAGCAGGCCTATGTGGCGCGCCTCCACCTGCT
AGACCAGTGTGTTTCCAGGAGCTGCTGAAGACAGCCCGCAGCAGCAAGGCCTTCCAGAGGATGTGGTC
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GGCGCCTGGACGACTGGACAGCTAACCCCGCATCGGTGACGTGATCCAGAAGCTGGCCCCCTTCTGAA
GATGTACAGTGTATGTCAAGAACTTTGAGCGAGCGGCTGAGCTGCTGGCCACCTGGACCGACAAGTCT
CCTCTTCCAGGAGTTCTCACTCGCATCCAGGTGAGGCTGGGGGAGGGCTGGAGTCAAGTCCACT
CCCAGCATGCAGTGGCTCAGTTGCCTTGAAGTATCCGGGCATCTCCCAGGCTCAGTGTCCATAGG
CCCCTGCCTACTCGTCCGGCCCTCAGGAGCAGCCTGACCCACCTCCCTTCTCACCCCTCTCCGTGTTGC
TCCCCATCCCTCCCAAGAGCAGCGAGGCTTCGGGCAGCCTGACCCTGCAGCACCACATGCTGGAACCA
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CTTTTCTGTTCAACAACATGCTGCTCTACTGTGTGCCAGGGTATCCAGGTGGGCGCCAGTTCCAGG
TGAGGACCCGCATCGATGTGGCCGGATGAAGGTGCGGGAGCTGATGGATGCTGAGTTTCCCACTCCTT
CCTGGTGTCTGGGAAGCAGCGCACCCCTGGAGCTGCAAGCCCGGTCCAGGAGGAAATGATTTCTGGATG
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CTGAGGGAGACATCCAGGAGCAGGAGCTGCAGTCTGAGGAGCTGGGCCTCCGGGCACCGCAGTGGTCCG
GGACAAGATGGTGACCATGTGCATGCGCTGCCAGGAGCCCTTCAACGCTCTGACGCGCCGTGCCACCAC
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ACAGGCCCAACCGAGTCTGCCTCCACTGTACGATTCTCACTGGAAATGTGCTGCCTGAGGCCAAGGA
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CTGCAGCTCATCGGGGACAAGTGGGGCAAGAGCGGCCCCCGGGGCTGGTGTGTGATCCCTCGGGATGACC
CCCTCGTGCTCTATGTCTATGCTGCCCTCAGGACATGAGGGCTCACACCTCCATCCCCCTGCTGGGCTA
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TTCAAGGCCGAGACGGAGGAGCTGAAGGGCCGCTGGGTGAAGGCCATGGAGCGGGCGGCCAGTGGCTGGA
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TTTCAGAGAATTGATTCAGCCATCTGCGCCAGGCCACGTGTCCGATCTGGGATTAGAAAATATGGGTG
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CATTTGTATCTCCTGGGGAGCTTTTAAAGAGTACTGGTAAAAACACATAGTAAATTAATTTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK092732 unedited
 GCTCCTATTTGTAACGACTTACTATAGGCGGCCGCGCANAATGCCGTGGAAAGTTTGCTT
 TGGGGGATTTCAGGGAGCCTGGCCTCACCTGGCCCTATCTAGAGTCGAGAGGAGGTCTCTA
 GGCTGAGGGCAATCCCTGTGCCCTCCTGCAGGACAGCTAACCCCGCATCGGTGACGTG
 ATCCAGAAGCTGGCCCCCTTCTGAAGATGTACAGTGAGTATGTCAAGAACTTTGAGCGA
 GCGGCTGAGCTGCTGGCCACCTGGACCGACAAGTCTCCACTCTCCAGGAGGTTCTCACT
 CGCATCCAGCGAGGCTTCGGGCAGCCTGACCCTGCAGCACCACATGCTGGAACCACTGCA
 GAGAAATCCACGTTACGAGCTGCTGCTCAAGGAGTACATCCAGAAGCTGCCAGCCAGGC
 CCCAGACCAGGCCGATGCCCAGAAAGCCCTGGACATGATCTTCTCAGCTGCCCAGCACTC
 CAATGCAGCCATCACTGAGATGGAGCGGCTGCAGGACCTGTGGGAGGTGTACCAGCGCCT
 GGGCCTCGAGGACGACATAGTAGACCCCTAACACCCTGCTCCGTGAGGGCCCGGTCTCT
 CAAGATCTCCTCCGCCCAACGACCCCATGGAGCGCTACCTTTTCTTNGTCACAACATG
 CTGCTCTACTGTGTGCCANGGTGATCCAGGTGGGCGCCAGTTCAGGTGAGGACCCGC
 ATCGATGTGGCCCGNATGAAAGTGCGGGAGCTGATGGATGCTGAGTTTTCCCACTCCTT
 CCTGGTGTCCGGGAAGCAGCGCACCCCTGGAGCTGCAAGCCCGTTCAGGAGAAAATGAT
 TTCTGGGTTGCAGCCCTTCAAGCAGCCCTTTGACAAATCGAGNAAGCGGATGAAAACCT
 CAGGCTGCGGCCAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for AK092732 unedited
 GACGCTAACTGTGTTGTTCCCTCATCCTANGTTCNGTTTTATTTTTTTTTTTTTTTTTCAC
 AAAGCCTGTCCCAATAAATGTTTATTATTATTACTACTATCATGACTGGCACTTGAC
 AGGGGCTCAACCATTGGTTGTGGTAgTTTGTCTCTTTATTCTTCATCCCAGGTAACCCA
 GGCTATATATTAGACTCCAGTGGTACTCTTAAAAAATATGCATGCGCCAGGTATGGTGG
 CTCACGCCTGTAATCCCAGCACTTTGGGAGGTGGAGGTGGGAGCATCGCTTGAGGCTGGG
 AGTTTGAGACCAGCCTGAGTAACATGGTGAATCCCATCTCTACAAAAATAAAAAAATT
 AGCTTGGCACAGTGGCACACACCTATAATCCCAGTACTTTGGGAGGCTGAGGCGGGAGGA
 TCACTGGAGCCCGGGAGAGCGAGGCTGTAGTGAGCCATGTTTGTGCACTCCAGCCTGGGA
 AACAGAGTAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAGACCCCATGCCTCCCCAACTCA
 GCCCATTTAAATCGGTGGTGGTACTTTCAGTACAGGCATTGTTTTTTTACATTTTTAAAAAT
 AATTTACTATGTGTTTTTCACCAGTACTTTTAAAAGCTCCCCAGGAGATACAAATGAAA
 AACCATACTATGGTGACCACAGTCCGGGTTACCTGGGGCTTTCCAGTTTTAGCACTG
 GAAGTCCCATGGCCATGAGCCCTCCCGCAAGGCAAAGTGGAGACTTGGTTTGTC
 CCTTTCTAGAAAGGAATGGACCCATATTTTCTAACCCAGATCGGGACACGTGGCCTGGG
 CGCANATGGCTGAATCATTCC

Restriction Sites:

NotI-NotI

ACCN:

AK092732

Insert Size:

2500 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:

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: [AK092732.1](#)

RefSeq Size: 2723 bp

RefSeq ORF: 2723 bp

Locus ID: 221472

Cytogenetics: 6p21.2

Domains: FYVE, PH

Gene Summary: The protein encoded by this gene belongs to a family of guanine nucleotide exchange factors (GEFs) which control cytoskeleton-dependent membrane rearrangements by activating the cell division cycle 42 (CDC42) protein. This gene is expressed in B lymphocytes, macrophages, and dendritic cells. The encoded protein may play a role in leukocyte signaling and vesicle trafficking in antigen-presenting cells in the immune system. [provided by RefSeq, Oct 2016]