

Product datasheet for **SC321463**

FGD2 (NM_173558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGD2 (NM_173558) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGD2
Synonyms:	ZFYVE4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_173558.2
 CTTTCTCACTCTGAAGCCAAGAGCCGACCTTCTGAGCCCTCAAGAAAGATCAGAACAGA
 TTCATGGGTGATTTAGCCTATCTGTCCCAGGCCAGCGTGGCTGAGTGTGCTGGCTGGAGG
 CCTCTCTCTGCTTCGAGGGTAGCTGAGATCCACCCGAAACCGGCAGGATGAAGGGG
 GCAAGTGAGGAGAAGCTGGCATCTGTGTCCAACCTGGTCACTGTGTTTGAGAATAGCAGG
 ACCCCAGAAGCAGCACCCAGAGGCCACAGGCTAGAGGACGTGCATCACCGCCCTGAGTGC
 AGGCTCCCGAGTCCCAGGACCACGGGAGAAGACGAATGTCGGGGAGGCCGTGGGGTCT
 GAGCCCAGGACAGTCAGCAGGAGGTACCTGAACTCCCTGAAGAACAAGCTGTCCAGCGAA
 GCCTGGAGGAAATCTTGCCAGCCTGTGACCCTCTCAGGATCGGGGACGCAGGAGCCAGAG
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 CTAGACCAGGTGTTTTCCAGGAGCTGCTGAAGACAGCCCGCAGCAGCAAGGCCCTCCCA
 GAGGATGTGGTCAGGGTCATCTTCTCCAACATCTCCTCCATCTATCAGTTCATTCTCAG
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 TTCAACAACATGCTGCTACTGTGTGCCAGGGTATCCAGGTGGCGCCAGTTCCAG
 GTGAGGACCCGCATCGATGTGGCCGGATGAAGGTGCGGGAGCTGATGGATGCTGAGTTT
 CCCCACTCTTCTGGTGTCCGGGAAGCAGCGCACCTGGAGCTGCAAGCCCGTCCCAG
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 AATGAAACCTTCAAGGCTGCGGCCAGGGCCTGAGGGAGACATCCAGGAGCAGGAGCTG
 CAGTCTGAGGAGCTGGGCTCCGGGCACCGCAGTGGTCCGGGACAAGATGGTGACCATG



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TGCATGCGCTGCCAGGAGCCCTTCAACGCTCTGACGCGCCGTCGCCACCACTGCCGGGCC
TGGCGCTATGTGGTGTGTGCCAGGTGCTCCGACTACCGGGCCGAAGTAAAATACGACGAC
AACAGGCCCAACCGAGTCTGCCTCCACTGCTACGCATTCTCACTGGAAATGTGCTGCCT
GAGGCCAAGGAGGACAAGAGGGCGGGGCATCCTGGAGAAAGGGTCTCAGCCACGCCTGAC
CAGAGCCTGATGTGCAGTTCCTGCAGTCTATCGGGGACAAGTGGGGCAAGAGCGGCCCC
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CAGGACATGAGGGCTCACACCTCCATCCCTGCTGGGCTACCAGTGACTGTTGGGGCC
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AACTACCAACAACCAATGTTGAGCCCTGTCAAGTGCCAGTCATGATAGTAAATAATA
ATAATAAACATCTATTGGGCCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM_173558
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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: [NM_173558.2](#), [NP_775829.1](#)

RefSeq Size: 3134 bp

RefSeq ORF: 1968 bp

Locus ID: 221472

UniProt ID: [Q7Z6I4](#)

Cytogenetics: 6p21.2

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]