

Product datasheet for **SC318556**

FGD5 (NM_152536) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGD5 (NM_152536) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGD5
Synonyms:	ZFYVE23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318556 representing NM_152536. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
ATGTTTCAGGGGTCCGAAGCCCCCATTGCCCAAGCCAGGCTGACTGCCCCAAACGAGTGGAGAGCC
AGTGTGTACCTGAATGACAGCTTGAACAAATGCAGCAACGGGCGGCTGCCCTGTGTAGACAGGGGCTT
GATGAGGGGCCCGGTCCATCCCAAAGTCTCTGAGTCGGAGACCGACGAGGATTACATCGTGGTCCCC
AGGGTTCGCTGAGGGAGGATGAACCAAGGACGAGGGCAGTGTGGGAACAAAGCCCTGGTGTCTCCC
GAGTCTCTCGGAAGAGGAAGAGGAGCGTGAAGAGGGAGGCGAGGCATGTGGCCTGGAGGGTACAGGA
GCTGGTGAAGATTCACTGGCCCCCTGCTGCTCCGGTGCAGGAGCGCTGAGCAGGGAGGGTGAAGAGGC
ACAGACCTTGCTCTTGAGGATGAAGGGGAGGGCTGCGCTGATGAGCCAGGGACACTGGAGCAGGTGTCC
AGAAGTGAGGAGGAAGAGAAGCTAGTGCAGCCACACAGGGAGTGCAGCCTGGAGGACAGTGGGCCTTGG
GCTGGAGAGGGGGTCTTCCAGAGCGACCTCCTCCTGCCTCACATCCATGGAGAGGACCAGGAGCCCCC
GACACCCCGGGGAGGCAGAGGAGGATGATGAGGAAGGCTGTGCCAGCACAGACCCAGCAGGGGCAGAT
GAGGGTTCGGGTCTGACAGGCCACGGAGGACATGGGACAGGATGCTGAGGACACCACTGAGGAGCCC
CCTGAGAAGGAGGAGCTGGCCGGGGTCCAGGAGGCAGAGACAGCCACAGACTGCCCTGAAGTTCTTGAG
GAGGGATGTGAAGAGGCCACGGGTGTACAGGTGGGGAACAGTTGACCTCAGTGAACCACTGACCAC
GAGAAGAAAACCAACCAAGAAGTGGCAGCCGCCACCCTGGAGGACCATGCACAGGATGATCCGCCGAG
GAGAGCTGCCAGATTGTCCCTTTTGAGAAATGACTGCATGGAGGACTTCGTGACTTCCCTCACAGGAAGC
CCCTATGAGTTCTTCCCAACTGAGAGCACCTCTTTTGCAGCGAGAGCTGTTCTCCTCTTCTGAATCA
GCGAAAGGTTTAGAATCAGAGCAGGCACCAAGCTGGGGCTGCGTGCGGAGGAGAACCCCATGGTGGGG
GCTTTGTGTGGCAGTGTGGCTCCCTACAGGTGGAGCGGCCGAGGGTCCCGCAGCCCCTGATGTGGTG
GTCGTGCTGGAGGAGGAGCCTTGATGATGCACTGGCCAACCCCTATGTGATGGAGTGGGCTGCC
GGTCAGGCGGCCCTGGAGAAGGAGGGCAGGCTGCATCGACGCCCTGGGTGGTTATGGCTCGAAAGAA
GAATTGAAGTGTGAGGCAGAGGGTGGCCTGGTTCCCGCGACAGGAAGAACACACGACGAGGGTCCGG
CCCCACTCTGGGAAGGTGGCCGGCTATGTCCAGAAACCGTCCCTGAAGAAACCGGACCTGAGGCGGGC



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TCGTCAGCCCCTGGCATTGGAGGTGCCGAGAGGAGGTGGGAAAGACGCTTTTGTATTGGAGGGGAAG
CCCTTGGAAGCCAGCAGGGCCTTGCCAGCAAAGCCCAGGGCCTTTACTTTATACCCTCGGTCTCTCC
GTGGAAGGCCGAGAGATTCCAGTGTCCGTGTACCAGGAGCCTGAGGGGTGAGGTTGGATGACCACAGG
ATAAAGAGGAAAGAGGACAATCTCTCTGTGTGTAAATTGGCTCCTCTGGGAGTTTCTCCAGAGA
AACCACCTTCCGTCCAGCGGCACCTCCACGCCTTCTCCATGGTCGACATCCCACCTCCTTCGACCTG
GCCTGCATCACCAGAAGCCCATCACAAGAGCTCTCCCTCACTCCTGATCGAGAGCGACTCCCCGGAC
AAGTACAAGAAGAAGAGTCATCCTTTAAGCGCTTCTGGCACTGACGTTTAAGAAGAAGACGGAGAAC
AAATTGCATGTGGATGTGAACGTGTCTTCTCTAGGTCTCTTCAGAGTCCAGCTACCACGGGCCTTCC
AGGATTCTGGAAGTTGACCGGAGAAGCCTCAGCAACTCCCCTCAGCTTAAGTCTCGGACTGGGAAGCTC
CGGGCTTCTGAATCCCCCTCCTCCCTCATCTTTTATAGAGATGGCAAGAGGAAAGGTGTCCCTTCAGC
AGGACGGTGTCCAGAGTGGAGTCTTTGAAGACCGCTCCCGGCCGCCCTTCTGCCCTTGCCACTGACC
AAGCCACGGTCCATCTCCTTCCCAGCGCTGACACTTCAGACTATGAGAACATTCAGCCATGAACTCG
GACTATGAGAATATCCAGATTCCACCCGGAGACCTGCCAGGGCTGGCGGTTACGAAGCTGTTTGAA
GATCAGAGCAGAGCCCTGTCCACAGCAAACGAAATGATGGCTACGTGGACATGAGCAGCTTCAACGCC
TTTGAGAGCAAACAGCAGAGTGCAGACCAGGACGCAGAAAGCGCTACACAGAGCCCTACAAAGTCTGT
CCCATCTCGTCGGCAGCCCCAAAGAGGACCTTACGTGGATGAAGAGCAGAGAAGCTCGGAGGAGGAG
GACAGTGCTTCAAGAGACCCAGTGTACCCACAAGGTGGAAGGACAGTCCAGAGCCCTGTCTATCGCA
CAGGAAGTGTATCTTCAGAGAAAGCATACGTGGAGATGTCCAGCACTTAAATCTGGATTTCCATGGA
GCTGTCTAGAGGCCCTTGGATGACATGGACATGAAGGCAGAGACACATTGGCCCGGAGGAGCTGAGG
CAGGGCCTGAGTGAATCCCAGCCATCCACGACCTTCAAGGCATCCTGGAGGAGCTGGAGGAAAGG
CTGTCAAATTGGGAGAGCCAGCAGAAGGTAGCTGACGCTTCTGGCCCGGAGCAGGGGTTTGATCAC
CACGCCACTCACATCTGCAGTTCGACAGGTACCTAGGTCTGCTCAGTGAGAATTGCCTCCACTCTCCC
CGGCTGGCAGCTGCTGTCCGTGAATTTGAGCAGAGTGTACAAGGAGGCAGCCAGACTGCGAAGCATCGG
CTGCTGCGGGTGGTTCAACGCCTTCTCCAGTACCAAGTGCTCCTCACAGACTATTTAAACAACCTTTGT
CCGGACTCCGCCGAGTACGACAACACAGGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
AACGACAGCATGGAGCAAGGGGAAAACCTGCAGAAGCTGGTCCACATTGAGCACAGCGTCCGGGGCCAA
GGGGATCTCCTCCAGCCAGGAAGGGAGTTTCTGAAGGAAGGGACGCTGATGAAAGTAACAGGAAAAAC
AGACGGCCCCGGCACCTATTTCTGATGAACGATGTGCTCCTGTACACCTATCCCCAGAAGGATGGGAAG
TACCGGTGAAGAACACATTGGCTGTGGCAACATGAAGGTGAGCCGCCCTGTGATGGAGAAAGTGCCC
TACGCTCTAAAGATTGAGACTTCCGAGTCTGCCTGATGCTGTCTGCGAGCTCCTGTGCAGAGAGGGAC
GAGTGGTATGGCTGTCTGAGCAGAGCCCTCCCTGAGGACTACAAGGCCAGGCGCTGGCTGCATTCCAC
CATAGCGTGGAGATACGAGAGAGGCTGGGGTTAGCCTTGGGGAGAGGCCCCCACCTGGTGCCTGTC
ACACACGTGATGATGTGATGAAGTGGGCTGCGACTTCTCCCTCACCTGCGGGCTCATCACTGTAC
GCCTGTGGCAAGATCGTGTGCCGGAAGTGTTCGCGGAACAAGTACCCGCTGAAGTACCTGAAGGACAGG
ATGGCCAAAGTGTGCGACGGCTGCTTCGGGGAGCTGAAGAAGCGGGGAGGGCTGTCCCGGGCTGATG
AGAGAGCGGCTGTGAGCATGAGCTTCCCGCTGTCTTACCCCGCTTCTCGGGCAGTGCCTTTTCATCC
GTCTTCCAGAGCATTAAACCCCTCGACCTTCAAGAAGCAGAAGAAAGTCCCTTCAGCCCTGACAGAGGTG
GCTGCCTCTGGAGAGGGCTCTGCCATCAGTGGCTATCTCAGCCGGTGAAGAGGGGCAAGCGGCACTGG
AAGAAGCTCTGGTTTGTATCAAAGGCAAGTTCTTACACCTACATGGCCAGTGAGGACAAAGTGCC
TTGGAGAGTATGCCTCTGCTAGGCTTACCATTTGCTCCAGAAAAGGAAGGGGACGAGTGAAGTAGGA
CCTATTTTACCTTTACCACAAGAAAACCTATTTTATAGCTTCAAAGCAGAAGATACCAATTCAGCT
CAGAGGTGGATCGAGGCCATGGAAGATGCGAGTGTGTTA**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI
ACCN: NM_152536
Insert Size: 4389 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).
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:	<u>NM_152536.3</u>
RefSeq Size:	5897 bp
RefSeq ORF:	4389 bp
Locus ID:	152273
UniProt ID:	<u>Q6ZNL6</u>
Cytogenetics:	3p25.1
Domains:	RhoGEF, FYVE, PH
MW:	159.9 kDa
Gene Summary:	Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Mediates VEGF-induced CDC42 activation. May regulate proangiogenic action of VEGF in vascular endothelial cells, including network formation, directional movement and proliferation. May play a role in regulating the actin cytoskeleton and cell shape.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.