

Product datasheet for **SC328076**

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:	>SC328076 representing NM_152536. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
ATGTTTCAGGGGTCCGAAGCCCCCATTGCCCAAGCCCAGGCTGACTGCCCCAAACGAGTGGAGAGCC
AGTGTGTACCTGAATGACAGCTTGAACAAATGCAGCAACGGGCGGCTGCCCTGTGTAGACAGGGGCTT
GATGAGGGGCCCGGTCCATCCCAAAGTCTCTGAGTCGGAGACCGACGAGGATTACATCGTGGTCCCC
AGGGTTCGCTGAGGGAGGATGAACCAAGGACGAGGGCAGTGTGGGAACAAAGCCCTGGTGTCTCCC
GAGTCTCTCGGAAGAGGAAGAGGAGCGTGAAGAGGGAGGCGAGGCATGTGGCCTGGAGGGTACAGGA
GCTGGTGAAGATTCACTGGCCCCCTGCTGCTCCGGTGCAGGAGCGCTGAGCAGGGAGGGTGAAGAGGC
ACAGACCTTGCTCTTGAGGATGAAGGGGAGGGCTGCGCTGATGAGCCAGGGACACTGGAGCAGGTGTCC
AGAAGTGAGGAGGAAGAGAAGCTAGTGCAGCCACACAGGGAGTGCAGCCTGGAGGACAGTGGGCCTTGG
GCTGGAGAGGGGGTCTTCCAGAGCGACCTCCTCCTGCCTCACATCCATGGAGAGGACCAGGAGCCCCC
GACACCCCGGGGAGGCAGAGGAGGATGATGAGGAAGGCTGTGCCAGCACAGACCCAGCAGGGGCAGAT
GAGGGTTCGGGTCTGACAGGCCACGGAGGACATGGGACAGGATGCTGAGGACACCACTGAGGAGCCC
CCTGAGAAGGAGGAGCTGGCCGGGGTCCAGGAGGCAGAGACAGCCACAGACTGCCCTGAAGTTCTTGAG
GAGGGATGTGAAGAGGCCACGGGTGTACAGGTGGGGAACAGGTTGACCTCAGTGAACCACTGACCAC
GAGAAGAAAACCAACCAAGAAGTGGCAGCCGCCACCCTGGAGGACCATGCACAGGATGAGTCCGCCGAG
GAGAGCTGCCAGATTGTCCCTTTTGAGAAATGACTGCATGGAGGACTTCGTGACTTCCCTCACAGGAAGC
CCCTATGAGTTCTTCCCAACTGAGAGCACCTCTTTTGCAGCGAGAGCTGTTCTCCTCTTCTGAATCA
GCGAAAGGTTTAGAATCAGAGCAGGCACCAAGCTGGGGCTGCGTGCGGAGGAGAACCCCATGGTGGGG
GCTTTGTGTGGCAGTGTGGCTCCCTACAGGTGGAGCGGCCGAGGGTCCCGCAGCCCCTGATGTGGTG
GTCGTGCTGGAGGAGGAGCCTTGATGATGCACTGGCCAACCCCTATGTGATGGAGTGGGCTGCC
GGTCAGGCGGCCCTGGAGAAGGAGGGCAGGCTGCATCGACGCCCTGGGTGTTATGGCTCGAAAGAA
GAATTGAAGTGTGAGGCAGAGGGTGGCCTGTTCCCGCGACAGGAAGAACACACGACGAGGGTCCGG
CCCCACTCTGGGAAGGTGGCCGGCTATGTCCAGAAACCGTCCCTGAAGAAACCGGACCTGAGGCGGGC



[View online »](#)

TCGTCAGCCCCTGGCATTGGAGGTGCCGAGAGGAGGTGGGAAAGACGCTTTTGTATTGGAGGGGAAG
 CCCTTGGAAGCCAGCAGGGCCTTGCCAGCAAAGCCCAGGGCCTTTACTTTATACCCTCGGTCTCTCC
 GTGGAAGGCCGAGAGATTCCAGTGTCCGTGTACCAGGAGCCTGAGGGGTGAGGGTTGGATGACCACAGG
 ATAAAGAGGAAAGAGGACAATCTCTCTGTGTGTGTAATTGGCTCCTCTGGGAGTTTCTCCAGAGA
 AACCACCTTCCGTCCAGCGGCACCTCCACGCCTTCTCCATGGTCGACATCCCACCTCCTTCGACCTG
 GCCTGCATCACCAGAAGCCCATCACAAGAGCTCTCCCTCACTCCTGATCGAGAGCGACTCCCCGGAC
 AAGTACAAGAAGAAGAGTCATCCTTTAAGCGCTTCTGGCACTGACGTTTAAGAAGAAGACGGAGAAC
 AAATTGCATGTGGATGTGAACGTGTCTTCTCTAGGTCTCTTCAGAGTCCAGCTACCACGGGCCTTCC
 AGGATTCTGGAAGTTGACCGGAGAAGCCTCAGCAACTCCCCTCAGCTTAAGTCTCGGACTGGGAAGCTC
 CGGGCTTCTGAATCCCCCTCCTCCCTCATCTTTTATAGAGATGGCAAGAGGAAAGGTGTCCCTTCAGC
 AGGACGGTGTCCAGAGTGGAGTCTTTGAAGACCGCTCCCGGCCGCCCTTCTGCCCTTGCCACTGACC
 AAGCCACGGTCCATCTCCTTCCCAGCGCTGACACTTCAGACTATGAGAACATTCAGCCATGAACCTG
 GACTATGAGAATATCCAGATTCCACCCCGAGACCTGCCAGGGCTGGCGGTTACGAAGCTGTTTGAA
 GATCAGAGCAGAGCCCTGTCCACAGCAAACGAAATGATGGCTACGTGGACATGAGCAGCTTCAACGCC
 TTTGAGAGCAAACAGCAGAGTGCAGACCAGGACGCAGAAAGCGCTACACAGAGCCCTACAAAGTCTGT
 CCCATCTCGTCGGCAGCCCCAAAGAGGACCTTACGTCCGATGAAGAGCAGAGAAGCTCGGAGGAGGAG
 GACAGTGCTTCAAGAGACCCAGTGTACCCACAAGGTGGAAGGACAGTCCAGAGCCCTGTCTATCGCA
 CAGGAAGTGTATCTTCAGAGAAAGCATACGTGGAGATGTCCAGCACTTAAATCTGGATTTCCATGGA
 GCTGTCTAGAGGCCCTTGGATGACATGGACCATGAAGGCAGAGACACATTGGCCCGGAGGAGCTGAGG
 CAGGGCCTGAGTGAACCTCCAGCCATCCACGACCTTCAAGGCATCCTGGAGGAGCTGGAGGAAAGG
 CTGTCAAATTGGGAGAGCCAGCAGAAGGTAGCTGACGCTTCTGGCCCGGAGCAGGGGTTTGATCAC
 CACGCCACTCACATCTGCAGTTCGACAGGTACCTAGGTCTGCTCAGTGAGAATTGCCTCCACTCTCCC
 CGGCTGGCAGCTGCTGTCCGTGAATTTGAGCAGAGTGTACAAGGAGGCAGCCAGACTGCGAAGCATCGG
 CTGCTGCGGGTGGTTCAACGCCTTCTCCAGTACCAAGTGCTCCTCACAGACTATTTAAACAACCTTTGT
 CCGGACTCCGCCGAGTACGACAACACAGGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
 AACGACAGCATGGAGCAAGGGGAAAACCTGCAGAAGCTGGTCCACATTGAGCACAGCGTCCGGGGCCAA
 GGGGATCTCCTCCAGCCAGGAAGGGAGTTTCTGAAGGAAGGGACGCTGATGAAAGTAACAGGAAAAAC
 AGACGGCCCCGGCACCTATTTCTGATGAACGATGTGCTCCTGTACACCTATCCCCAGAAGGATGGGAAG
 TACCGGCTGAAGAACACATTGGCTGTGGCAACATGAAGGTGAGCCGCCCTGTGATGGAGAAAGTGCCC
 TACGCTCTAAAGATTGAGACTTCCGAGTCTGCCTGATGCTGTCTGCGAGCTCCTGTGCAGAGAGGGAC
 GAGTGGTATGGCTGTCTGAGCAGAGCCCTCCCTGAGGACTACAAGGCCAGGCGCTGGCTGCATTCCAC
 CATAGCGTGGAGATACGAGAGAGGCTGGGGTTAGCCTTGGGGAGAGGCCCCCCACCCTGGTGCCTGTC
 ACACACGTGATGATGTGCATGAAGTGGGCTGCGACTTCTCCCTCACCTGCGGGCTCATCACTGTAC
 GCCTGTGGCAAGATCGTGTGCCGGAAGTGTTCGCGGAACAAGTACCCGCTGAAGTACCTGAAGGACAGG
 ATGGCCAAAGTGTGCGACGGCTGCTTCGGGGAGCTGAAGAAGCGGGGAGGGCTGTCCCGGGCCTGATG
 AGAGAGCGGCTGTGAGCATGAGCTTCCCGCTGTCTTACCCCGCTTCTCGGGCAGTGCCTTTTCATCC
 GTCTTCCAGAGCATTAAACCCCTCGACCTTCAAGAAGCAGAAGAAAGTCCCTTCAGCCCTGACAGAGGTG
 GCTGCCTCTGGAGAGGGCTCTGCCATCAGTGGCTATCTCAGCCGGTGAAGAGGGGCAAGCGGCACTGG
 AAGAAGCTCTGGTTTGTATCAAAGGCAAGTTCTTACACCTACATGGCCAGTGAGGACAAAGTGCC
 TTGGAGAGTATGCCTCTGCTAGGCTTACCATTGCTCCAGAAAAGGAAGGGGCAGCAGTGAAGTAGGA
 CCTATTTTACCTTTACCACAAGAAAACCTATTTTATAGCTTCAAAGCAGAAGATACCAATTCAGCT
 CAGAGGTGGATCGAGGCCATGGAAGATGCGAGTGTGTTA**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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.