

## Product datasheet for **SC316067**

### FGD3 (NM\_001083536) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGD3 (NM_001083536) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGD3
Synonyms:	ZFYVE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



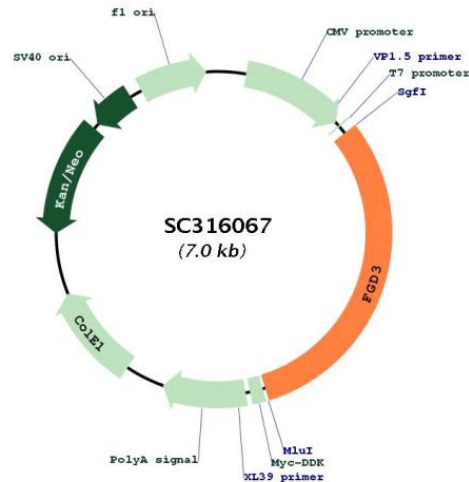
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**Fully Sequenced ORF:** >SC316067 representing NM\_001083536.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001083536

**Insert Size:** 2178 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:** [NM\\_001083536.1](#)

**RefSeq Size:** 3470 bp

**RefSeq ORF:** 2178 bp

**Locus ID:** 89846

**UniProt ID:** [Q5JSP0](#)

<b>Cytogenetics:</b>	9q22.31
<b>Protein Pathways:</b>	Regulation of actin cytoskeleton
<b>MW:</b>	79.4 kDa
<b>Gene Summary:</b>	<p>Promotes the formation of filopodia. May activate CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 2, and 4 all encode the same isoform (a).</p>