

Product datasheet for **RG239421**

FGD3 (NM_001286993) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGD3 (NM_001286993) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGD3
Synonyms:	ZFYVE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239421 representing NM_001286993.
 Blue=ORF Red=Cloning site Green=Tag(s)

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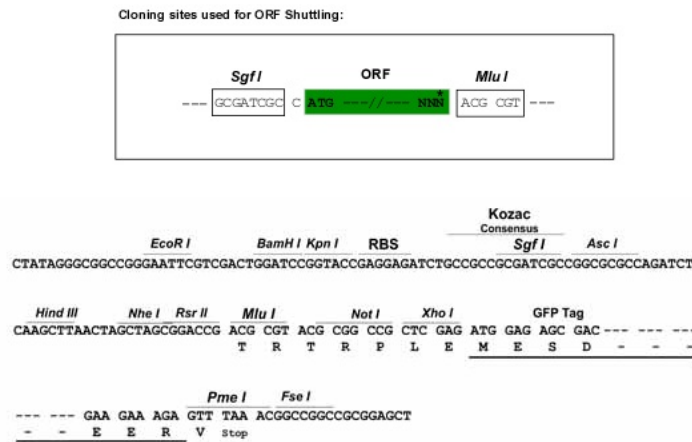
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CAGCAGTGGTGGAAACCTAAGCACTGCTGCCATGGGGACACGGCCAGGACAGCCCGGGGGCCCTG
CAGCTTCAGGTCCTATGGGCGCAGCTGCTCCG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239421
 Blue=ORF Red=Cloning site Green=Tag(s)

MESGRGSSTPPGPIAALGMPDTGPGSSSLGKLQALVGPRAHCGDPVSLAAAGDGGSPDIGPTGELSGSL
 KIPNRDSGIDSPSSSVAGENFPCEEGLEAGPSPTVLGAHAEMALDSQVPKVTPEEADSDVGEEPDSEN
 TPQKADKDALAQHSGPQKLLHIAQELLHTEETYVKRLHLLDQVFCRTLTDAGIPPEVIMGIFSNISSI
 HRFHQFLLPELKRITTEWDTNPRLGDILQKLAPFLKMYGEYVKNFDRAVGLVSTWQRSPLFKDQVH
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 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286993

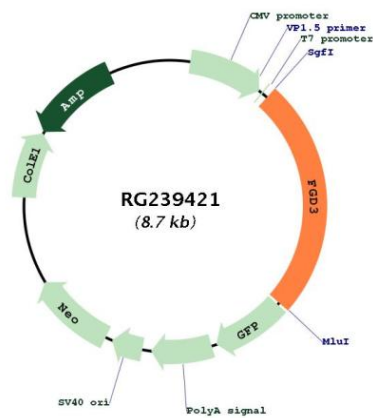
ORF Size: 2172 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).
RefSeq:	<u>NM_001286993.1, NP_001273922.1</u>
RefSeq Size:	3449 bp
RefSeq ORF:	2175 bp
Locus ID:	89846
UniProt ID:	<u>Q5JSP0</u>
Cytogenetics:	9q22.31
Protein Pathways:	Regulation of actin cytoskeleton
MW:	79.7 kDa
Gene Summary:	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]

Product images:



Circular map for RG239421