

## OriGene Technologies, Inc.

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## Product datasheet for RC219442L3V

## FGD4 (NM\_139241) Human Tagged ORF Clone Lentiviral Particle

## **Product data:**

| Product Type:                | Lentiviral Particles  |
|------------------------------|---|
| Product Name:                | FGD4 (NM_139241) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                      | FGD4  |
| Synonyms:                    | CMT4H; FRABP; ZFYVE6  |
| Mammalian Cell<br>Selection: | Puromycin   |
| Vector:                      | pLenti-C-Myc-DDK-P2A-Puro (PS100092)  |
| Tag:                         | Myc-DDK   |
| ACCN:                        | NM_139241   |
| ORF Size:                    | 2298 bp   |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(RC219442).  |
| 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. <u>More info</u> |
| OTI Annotation:              | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| RefSeq:                      | <u>NM 139241.1</u>  |
| RefSeq Size:                 | 2931 bp   |
| RefSeq ORF:                  | 2301 bp   |
| Locus ID:                    | 121512  |
| UniProt ID:                  | <u>Q96M96</u>   |
| Cytogenetics:                | 12p11.21  |
| Domains:                     | RhoGEF, FYVE, PH  |
| MW:                          | 86.4 kDa  |
|                              |   |



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Gene Summary:This gene encodes a protein that is involved in the regulation of the actin cytoskeleton and<br/>cell shape. This protein contains an actin filament-binding domain, which together with its<br/>Dbl homology domain and one of its pleckstrin homology domains, can form microspikes.<br/>This protein can activate MAPK8 independently of the actin filament-binding domain, and it is<br/>also involved in the activation of CDC42 via the exchange of bound GDP for free GTP. The<br/>activation of CDC42 also enables this protein to play a role in mediating the cellular invasion<br/>of Cryptosporidium parvum, an intracellular parasite that infects the gastrointestinal tract.<br/>Mutations in this gene can cause Charcot-Marie-Tooth disease type 4H (CMT4H), a disorder of<br/>the peripheral nervous system. Multiple alternatively spliced transcript variants encoding<br/>different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

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