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Product datasheet for RC205133L4V

FGD1 (NM_004463) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	FGD1 (NM_004463) Human Tagged ORF Clone Lentiviral Particle
Symbol:	FGD1
Synonyms:	AAS; FGDY; MRXS16; ZFYVE3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004463
ORF Size:	2883 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205133).
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.
RefSeq:	NM_004463.2
RefSeq Size:	4291 bp
RefSeq ORF:	2886 bp
Locus ID:	2245
UniProt ID:	P98174
Cytogenetics:	Xp11.22
Protein Pathways:	Regulation of actin cytoskeleton
MW:	106.4 kDa

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Gene Summary: This gene encodes a protein that contains Dbl (DH) and pleckstrin (PH) homology domains and is similar to the Rho family of small GTP-binding proteins. The encoded protein specifically binds to the Rho family GTPase Cdc42Hs and can stimulate the GDP-GTP exchange of the isoprenylated form of Cdc42Hs. It also stimulates the mitogen activated protein kinase cascade leading to c-Jun kinase SAPK/JNK1 activation. Defects in this gene are the cause of the faciogenital dysplasia in Aarskog-Scott syndrome and a syndromatic form of X-linked cognitive disability. [provided by RefSeq, Jul 2017]