

## **Product datasheet for RC205133L3**

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## FGD1 (NM\_004463) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** FGD1 (NM\_004463) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: FGD1

Synonyms: AAS; FGDY; MRXS16; ZFYVE3

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

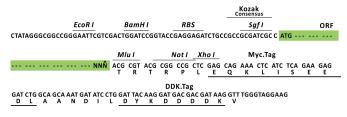
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205133).

Sgfl-Mlul

Sequence:

Restriction Sites: Cloning Scheme:





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_004463

ORF Size: 2883 bp





## FGD1 (NM\_004463) Human Tagged Lenti ORF Clone - RC205133L3

**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).

**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 004463.2</u>

 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

**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]