

Product datasheet for MR227374L3

OriGene Technologies, Inc.

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Rapgef3 (NM_001177810) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rapgef3 (NM_001177810) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Rapgef3

Synonyms: 2310016P22Rik; 9330170P05Rik; Epac; Epac1

Mammalian Cell Puromycin

Selection:

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

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

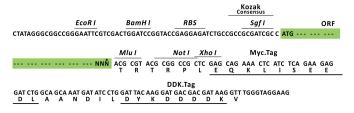
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR227374).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



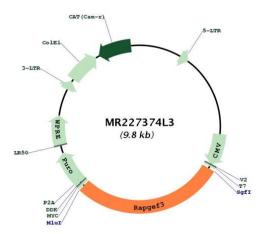


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001177810

ORF Size: 2778 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).

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 001177810.1, NP 001171281.1</u>

RefSeq Size: 3825 bp **RefSeq ORF:** 2781 bp



Rapgef3 (NM_001177810) Mouse Tagged Lenti ORF Clone - MR227374L3

 Locus ID:
 223864

 UniProt ID:
 Q8VCC8

 Cytogenetics:
 15 F1

Gene Summary: Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is

activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rhomediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress

fibers and junctional actin (By similarity).[UniProtKB/Swiss-Prot Function]