

Product datasheet for RC206189L2

OriGene Technologies, Inc.

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RAIN (RASIP1) (NM 017805) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RAIN (RASIP1) (NM_017805) Human Tagged Lenti ORF Clone

Tag: mGFP
Symbol: RAIN
Synonyms: RAIN
Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

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

ORF Nucleotide

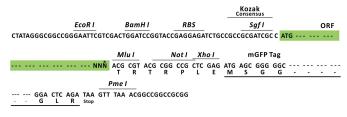
The ORF insert of this clone is exactly the same as(RC206189).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_017805

ORF Size: 2889 bp





RAIN (RASIP1) (NM_017805) Human Tagged Lenti ORF Clone - RC206189L2

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 017805.2</u>, <u>NP 060275.2</u>

 RefSeq Size:
 3311 bp

 RefSeq ORF:
 2892 bp

 Locus ID:
 54922

 UniProt ID:
 Q5U651

 Cytogenetics:
 19q13.33

Domains: DIL

MW: 103.5 kDa

Gene Summary: Required for the proper formation of vascular structures that develop via both vasculogenesis

and angiogenesis. Acts as a critical and vascular-specific regulator of GTPase signaling, cell architecture, and adhesion, which is essential for endothelial cell morphogenesis and blood vessel tubulogenesis. Regulates the activity of Rho GTPases in part by recruiting ARHGAP29 and suppressing RhoA signaling and dampening ROCK and MYH9 activities in endothelial cells (By similarity). May act as effector for Golgi-bound HRAS and other Ras-like proteins. May promote HRAS-mediated transformation. Negative regulator of amino acid starvation-

induced autophagy.[UniProtKB/Swiss-Prot Function]