

Product datasheet for TL309939

OriGene Technologies, Inc.

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Epac1 (RAPGEF3) Human shRNA Plasmid Kit (Locus ID 10411)

Product data:

Product Type: shRNA Plasmids

Product Name: Epac1 (RAPGEF3) Human shRNA Plasmid Kit (Locus ID 10411)

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Synonyms: bcm910; CAMP-GEFI; EPAC; EPAC1; HSU79275

Vector: pGFP-C-shLenti (TR30023)

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

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Components: RAPGEF3 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID =

10411). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 001098531, NM 001098532, NM 006105, NM 006105.1, NM 006105.2, NM 006105.3,

NM 006105.4, NM 006105.5, NM 001098531.1, NM 001098531.2, NM 001098532.1, NM 001098532.2, BC017728, BC040534, BC068477, BC092404, NM 001098531.3

UniProt ID: 095398

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 Rho-

mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress

fibers and junctional actin.[UniProtKB/Swiss-Prot Function]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).