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Product datasheet for TL501896

Rgl1 Mouse shRNA Plasmid (Locus ID 19731)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Rgl1 Mouse shRNA Plasmid (Locus ID 19731)
Locus ID:	19731
Synonyms:	mKIAA0959; R; Rgl
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Rgl1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 19731). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC017678, NM_016846, NM_016846.1, NM_016846.2, NM_016846.3
UniProt ID:	Q60695
Summary:	This gene encodes a member of the Ras-like (Ral) -selective guanine nucleotide exchange factor (RalGEF) family of small GTPase activators which function both as downstream effectors of activated Ras GTPase and as regulators of certain Ral GTPases in the RalGEF - Ral GTPase signaling pathway. The encoded protein, like other RalGEFs, has an N-terminal ras exchanger motif domain, a catalytic CDC25 homology domain, and a C-terminal ras binding domain that stimulates guanine nucleotide exchange when bound to a Ral GTPase. RalGEF family members bridge the Ras and Ral signaling pathways and are thought to play a role in oncogenic transformation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]
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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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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).