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Product datasheet for TG502013

Sgk1 Mouse shRNA Plasmid (Locus ID 20393)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Sgk1 Mouse shRNA Plasmid (Locus ID 20393)
Locus ID:	20393
Synonyms:	Sg; Sgk
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Sgk1 - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 20393). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC005720, BC070401, NM_001161845, NM_001161847, NM_001161848, NM_001161849, NM_001161850, NM_011361, NM_011361.1, NM_011361.2, NM_011361.3, NM_001161845.1, NM_001161845.2, NM_001161847.1, NM_001161847.2, NM_001161848.1, NM_001161848.2, NM_001161849.1, NM_001161849.2, NM_001161850.1, NM_001161850.2, BC002222
UniProt ID:	Q9WVC6
Summary:	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12. [provided by RefSeq, Sep 2009]
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).

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