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Product datasheet for TR514491

Kcnip2 Mouse shRNA Plasmid (Locus ID 80906)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Kcnip2 Mouse shRNA Plasmid (Locus ID 80906)
Locus ID:	80906
Synonyms:	KChI; KChIP2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Kcnip2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 80906). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC132215, NM_001276358, NM_030716, NM_145703, NM_145704, NM_145703.1, NM_145703.2, NM_145704.1, NM_145704.2, NM_030716.1, NM_030716.2, NM_030716.3, NM_001276358.1, BC048756, BC056434, BC138496
UniProt ID:	Q9JJ69
Summary:	This gene encodes a member of the voltage-gated potassium channel-interacting protein (KCNIP) family. KCNIP family members are small calcium binding proteins that commonly exhibit unique variation at their N-termini, and which modulate A-type potassium channels. This gene is predominantly expressed in the adult heart, and to a lesser extent in the brain. Disruption of this gene is associated with susceptibility to cardiac arrhythmias and lack of transient outward potassium current in ventricular myocytes, and downregulated expression is associated with cardiac hypertrophy. The encoded protein has also been implicated as a repressor of immune response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]
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).