

## Product datasheet for **TL514491V**

### **Kcnp2 Mouse shRNA Lentiviral Particle (Locus ID 80906)**

#### **Product data:**

<b>Product Type:</b>	shRNA Lentiviral Particles
<b>Product Name:</b>	Kcnp2 Mouse shRNA Lentiviral Particle (Locus ID 80906)
<b>Locus ID:</b>	80906
<b>Synonyms:</b>	KChI; KCHIP2
<b>Vector:</b>	pGFP-C-shLenti (TR30023)
<b>Format:</b>	Lentiviral particles
<b>Components:</b>	Kcnp2 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
<b>RefSeq:</b>	<a href="#">BC132215</a> , <a href="#">NM_001276358</a> , <a href="#">NM_030716</a> , <a href="#">NM_145703</a> , <a href="#">NM_145704</a> , <a href="#">NM_145703.1</a> , <a href="#">NM_145703.2</a> , <a href="#">NM_145704.1</a> , <a href="#">NM_145704.2</a> , <a href="#">NM_030716.1</a> , <a href="#">NM_030716.2</a> , <a href="#">NM_030716.3</a> , <a href="#">NM_001276358.1</a> , <a href="#">BC048756</a> , <a href="#">BC056434</a> , <a href="#">BC138496</a>
<b>UniProt ID:</b>	<a href="#">Q9J169</a>
<b>Summary:</b>	<p>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]</p>
<b>shRNA Design:</b>	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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](mailto: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).