

## Product datasheet for **TR317152**

### KCNK4 Human shRNA Plasmid Kit (Locus ID 50801)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	KCNK4 Human shRNA Plasmid Kit (Locus ID 50801)
Locus ID:	50801
Synonyms:	FHEIG; K2p4.1; TRAAK; TRAAK1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	KCNK4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 50801). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001317090</a> , <a href="#">NM_016611</a> , <a href="#">NM_033310</a> , <a href="#">NM_033311</a> , <a href="#">NR_133660</a> , <a href="#">NR_133661</a> , <a href="#">NM_033310.1</a> , <a href="#">NM_033310.2</a> , <a href="#">NM_016611.2</a> , <a href="#">BC033577</a> , <a href="#">BC067791</a> , <a href="#">BC110327</a> , <a href="#">BC160128</a>
UniProt ID:	<a href="#">Q9NYG8</a>
Summary:	This gene encodes a member of the TWIK-related arachidonic acid-stimulated two pore potassium channel subfamily. The encoded protein homodimerizes and functions as an outwardly rectifying channel. This channel is regulated by polyunsaturated fatty acids, temperature and mechanical deformation of the lipid membrane. This protein is expressed primarily in neural tissues and may be involved in regulating the noxious input threshold in dorsal root ganglia neurons. Alternate splicing results in multiple transcript variants. Naturally occurring read-through transcripts also exist between this gene and the downstream testis expressed 40 (TEX40) gene, as represented in GeneID: 106780802. [provided by RefSeq, Nov 2015]
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 <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).