

Product datasheet for **TR303829**

KCNG4 Human shRNA Plasmid Kit (Locus ID 93107)

Product data:

Product Type:	shRNA Plasmids
Product Name:	KCNG4 Human shRNA Plasmid Kit (Locus ID 93107)
Locus ID:	93107
Synonyms:	KV6.3; KV6.3, KV6.4, MGC4558, MGC129609; KV6.4; MGC4558; MGC129609; potassium voltage-gated channel, subfamily G, member 4; potassium voltage-gated channel, subfamily G, member 4, isoform 1; voltage-gated potassium channel Kv6.3
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	KCNG4 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 93107). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_133490 , NM_172347 , NM_133490.1 , NM_133490.2 , NM_172347.1 , NM_172347.2 , BC109203 , BC008969
UniProt ID:	Q8TDN1
Summary:	Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily G. This member functions as a modulatory subunit. The gene has strong expression in brain. Multiple alternatively spliced variants have been found in normal and cancerous tissues. [provided by RefSeq, Jul 2008]
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).