

## Product datasheet for **MR226304L4V**

### **Kcnk18 (NM\_207261) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Kcnk18 (NM_207261) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Kcnk18
Synonyms:	Gm781; Tresk; Tresk-2; Trik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_207261
ORF Size:	1182 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226304).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_207261.3</a> , <a href="#">NP_997144.1</a>
RefSeq Size:	3032 bp
RefSeq ORF:	1185 bp
Locus ID:	332396
UniProt ID:	<a href="#">Q6VV64</a>
Cytogenetics:	19 D3



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**Gene Summary:**

Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. May function as background potassium channel that sets the resting membrane potential. Channel activity is directly activated by calcium signal. Activated by the G(q)-protein coupled receptor pathway. The calcium signal robustly activates the channel via calcineurin, whereas the anchoring of 14-3-3/YWHAH interferes with the return of the current to the resting state after activation. Inhibited also by arachidonic acid and other naturally occurring unsaturated free fatty acids. Channel activity is also enhanced by volatile anesthetics, such as isoflurane. Appears to be the primary target of hydroxy-alpha-sanshool, an ingredient of Schezuan pepper. May be involved in the somatosensory function with special respect to pain sensation.[UniProtKB/Swiss-Prot Function]