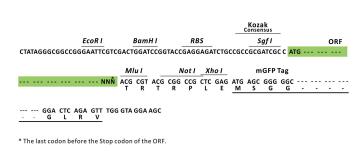


# Product datasheet for RC219869L4

## KCNQ1 (NM\_000218) Human Tagged Lenti ORF Clone

### **Product data:**

#### **Product Type: Expression Plasmids Product Name:** KCNQ1 (NM\_000218) Human Tagged Lenti ORF Clone Tag: mGFP Symbol: KCNQ1 ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; LQT; LQT1; RWS; SQT2; WRS Synonyms: Mammalian Cell Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC219869). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I --- GCG ATC GC C ATG --- //--- NNN ACG CGT ---



ACCN: ORF Size: NM\_000218 2028 bp



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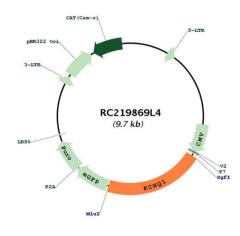
	NQ1 (NM_000218) Human Tagged Lenti ORF Clone – RC219869L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Meth	<ul> <li>od: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ul>
RefSeq:	<u>NM 000218.2</u>
RefSeq Size:	3262 bp
RefSeq ORF:	2031 bp
Locus ID:	3784
UniProt ID:	<u>P51787</u>
Cytogenetics:	11p15.5-p15.4
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Protein Pathways:	Vibrio cholerae infection
MW:	74.7 kDa

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### SCNQ1 (NM\_000218) Human Tagged Lenti ORF Clone – RC219869L4

Gene Summary:This gene encodes a voltage-gated potassium channel required for repolarization phase of<br/>the cardiac action potential. This protein can form heteromultimers with two other potassium<br/>channel proteins, KCNE1 and KCNE3. Mutations in this gene are associated with hereditary<br/>long QT syndrome 1 (also known as Romano-Ward syndrome), Jervell and Lange-Nielsen<br/>syndrome, and familial atrial fibrillation. This gene exhibits tissue-specific imprinting, with<br/>preferential expression from the maternal allele in some tissues, and biallelic expression in<br/>others. This gene is located in a region of chromosome 11 amongst other imprinted genes<br/>that are associated with Beckwith-Wiedemann syndrome (BWS), and itself has been shown to<br/>be disrupted by chromosomal rearrangements in patients with BWS. Alternatively spliced<br/>transcript variants have been found for this gene. [provided by RefSeq, Aug 2011]

### **Product images:**



Circular map for RC219869L4

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