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# Product datasheet for RC212479L4V

## KCNQ1 (NM_181798) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | KCNQ1 (NM_181798) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | KCNQ1 |
| **Synonyms:** | ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; LQT; LQT1; RWS; SQT2; WRS |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_181798 |
| **ORF Size:** | 1647 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC212479).` |
| **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. More info |
| **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:** | NM_181798.1, NP_861463.1 |
| **RefSeq Size:** | 3029 bp |
| **RefSeq ORF:** | 1650 bp |
| **Locus ID:** | 3784 |
| **UniProt ID:** | P51787 |
| **Cytogenetics:** | 11p15.5-p15.4 |
| **Protein Families:** | Druggable Genome, Ion Channels: Potassium, Transmembrane |
| **Protein Pathways:** | Vibrio cholerae infection |

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**MW:** 61.5 kDa

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