

## Product datasheet for **RG212479**

### **KCNQ1 (NM\_181798) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNQ1 (NM_181798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNQ1
Synonyms:	ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; LQT; LQT1; RWS; SQT2; WRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG212479 representing NM\_181798  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTCTCATCGTCTGGTCTGCCTCATCTTCAGCGTGTCCACCATCGAGCAGTATGCCGCC  
 TGGCCACGGGACTCTCTTCTGGATGGAGATCGTGTGGTGGTGTCTTCGGGACGGAGTACGTGGTCCG  
 CCTCTGGTCCGCCGGCTGCCGACGAAAGTACGTGGGCCTCTGGGGCGGCTGCGCTTTGCCCGGAAGCCC  
 ATTTCCATCATCGACCTCATCGTGGTCTGGCCTCCATGGTGGTCTCTGCGTGGCTCCAAGGGGAGG  
 TGTTTCCACGTGGCCATCAGGGGCATCCGCTTCTGCAGATCCTGAGGATGCTACACGTGACCCGCCA  
 GGGAGGCACCTGGAGGCTCCTGGGCTCCGTGGTCTTATCCACCGCCAGGAGCTGATAACCACCTGTAC  
 ATCGGCTTCTGGGCTCATCTTCTCCTCGTACTTTGTGTACCTGGCTGAGAAGGACGCGGTGAACGAGT  
 CAGGCCGCGTGGAGTTCGGCAGCTACGCAGATGCGCTGTGGTGGGGGTGGTACAGTACCACCATCGG  
 CTATGGGGACAAGGTGCCCCAGACGTGGGTCGGGAAGACCATCGCCTCCTGCTTCTGTCTTTGCCATC  
 TCCTTCTTTGCGCTCCCAGCGGGGATTCTTGGCTCGGGGTTTGCCTGAAGGTGCAGCAGAAGCAGAGGC  
 AGAAGCACTTCAACCGGAGATCCCGGGCGCAGCCTCACTCATTAGACCGCATGGAGGTGCTATGCTGC  
 CGAGAACCCGACTCCTCCACCTGGAAGATCTACATCCGGAAGGCCCGGAGCCACACTCTGCTGTCA  
 CCCAGCCCAAAACCAAGAAGTCTGTGGTGGTAAAGAAAAAAGTTCAAGCTGGACAAAGACAATGGGG  
 TGACTCCTGGAGAGAAGATGCTCACAGTCCCCATATCACGTGCGACCCCGAGAAGAGCGGGCGCTGGA  
 CCATTCTCTGTGACGGCTATGACAGTCTGTAAAGGAAGAGCCCAACTGTGGAAGTGAAGTATGCC  
 CATTTCATGAGAACCAACAGCTTCGCCGAGGACCTGGACCTGGAAGGGGAGACTGTGACACCCATCA  
 CCCACATCTCACAGCTGCGGGAACACCATCGGGCCACCATTAAGGTCATTGACGCATGCAAGTCTTGT  
 GGCAAGAAGAAAATTCCAGCAAGCGCGGAAGCCTTACGATGTGCGGGACGTCATTGAGCAGTACTCGCAG  
 GGCCACCTCAACCTCATGGTGCATCAAGGAGCTGCAGAGGAGGCTGGACCAGTCCATTGGGAAGCCCT  
 CACTGTTTCTCCGCTCAGAAAAGAGCAAGGATCGCGGCAGCAACACGATCGCGCGCCCGCTGAACCG  
 AGTAGAAGACAAGGTGACGCAGCTGGACCAGAGGCTGGCACTCATCACCGACATGCTTACCAGCTGCTC  
 TCCTTGCACGGTGGCAGCACCCCGGCAGCGGGCCCGCCAGAGAGGGCGGGCCACATCACCCAGC  
 CCTGCGGAGTGGCGGCTCCGTCGACCTGAGCTCTTCTGCCAGCAACACCCTGCCACCTACGAGCA  
 GCTGACCGTGCCAGGAGGGGCCCGATGAGGGGTCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG212479 representing NM\_181798  
 Red=Cloning site Green=Tags(s)

MDFLIVLVCLIFSVLSTIEQYAALATGTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGLWGRLRFARKP  
 ISIIDLIVVASMVVLVCGSKGVFATSAIRGIRFLQILRMLHVDRQGGTWRLGVSFVFIHRQELITTLTY  
 IGFLGLIFSSYFYLAEKDAVNESGRVEFGSYADALWGWVVTVTIYGDVQVPTWVWGTIASCFSVFAI  
 SFFALPAGILGSGFALKVQKQKQKHFNRQIPAAASLIQTAWRCYAAENPDSSTWKIYIRKAPRSHLLS  
 PSPKPKKSVVVKKKFKLDKNGVTPGEKMLTVPHITCDPPEERLDHFSVDGYDSSVRKSPDLLVSM  
 HFMRTNSFAEDLDLEGETLLTPIITHISQLREHHRATIKVIRRMQYFVAKKKFQARKPYDVRDVIEQYSQ  
 GHLNLMVRIKELQRRLDQSIGKPSLFI SVSEKSKDRGSNTIGARLNRVEDKVTQLDQRLALITDMLHQLL  
 SLHGGSTPGSGGPPREGGAHITQPCGSGGSVDPELFLPSNTLPTYEQLTVPRRGPDEGS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



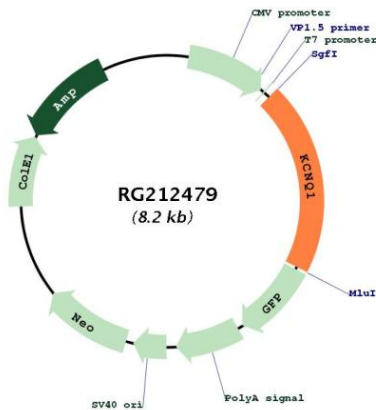
**Cytogenetics:** 11p15.5-p15.4

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

**Protein Pathways:** Vibrio cholerae infection

**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]

**Product images:**



Circular map for RG212479