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Product datasheet for SC212593

KCNQ1 (NM_181798) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Product Name: KCNQ1 (NM_181798) Human 3' UTR Clone

Vector: pMirTarget (PS100062)

Symbol: KCNQ1

Synonyms: ATFB1; ATFB3; JLNS1; KCNA8; KCNA9; Kv1.9; Kv7.1; KVLQT1; LQT; LQT1; RWS; SQT2; WRS

ACCN: NM_181798

Insert Size: 1153 bp

Insert Sequence:

>SC212593 3'UTR clone of NM_181798
The sequence shown below is from the reference sequence of NM_181798. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCCAGGAGGGGCCCCGATGAGGGGTCCTGAGGAGGGGATGGGGCTGGGGGATGGGCCTGAGTGAGAGGG
GAGGCCAAGAGTGGCCCCACCTGGCCCTCTCTGAAGGAGGCCACCTCCTAAAAGGCCCAGAGAGAAGAG
CCCCACTCTCAGAGGCCCCAATACCCCATGGACCATGCTGTCTGGCACAGCCTGCACTTGGGGGCTCAG
CAAGGCCACCTCTTCCTGGCCGGTGTGGGGGCCCCGTCTCAGGTCTGAGTTGTTACCCCAAGCGCCCTG
GCCCCCACATGGTGATGTTGACATCACTGGCATGGTGGTTGGGACCCAGTGGCAGGGCACAGGGCCTGG
CCCATGTATGGCCAGGAAGTAGCACAGGCTGAGTGCAGGCCCACCCTGCTTGGCCCAGGGGGCTTCCTG
AGGGGAGACAGAGCAACCCCTGGACCCCAGCCTCAAATCCAGGACCCTGCCAGGCACAGGCAGGGCAGG
ACCAGCCCACGCTGACTACAGGGCCGCCGGCAATAAAAGCCCAGGAGCCCATTTGGAGGGCCTGGGCCT
GGCTCCCTCACTCTCAGGAAATGCTGACCCATGGGCAGGAGACTGTGGAGACTGCTCCTGAGCCCCCAG
CTTCCAGCAGGAGGGACAGTCTCACCATTTCCCCAGGGCACGTGGTTGAGTGGGGGGAACGCCCACTTC
CCTGGGTTAGACTGCCAGCTCTTCCTAGCTGGAGAGGAGCCCTGCCTCTCCGCCCCTGAGCCCACTGTG
CGTGGGGCTCCCGCCTCCAACCCCTCGCCCAGTCCCAGCAGCCAGCCAAACACACAGAAGGGGACTGCC
ACCTCCCCTTGCCAGCTGCTGAGCCGCAGAGAAGTGACGGTTCCTACACAGGACAGGGGTTCCTTCTGG
GCATTACATCGCATAGAAATCAATAATTTGTGGTGATTTGGATCTGTGTTTTAATGAGTTTCACAGTGT
GATTTTGATTATTAATTGTGCAAGCTTTTCCTAATAAACGTGGAGAATCACAGGCTGGGCTGGGCACTG
CTCTCACCTTGGTTCCTGGGGCATCCATGGGGTCTCTCACAGACAGGACCCCTGCAGTTCCCCTGGAAG
CAGTGCCCAGGTGGCTGTGGAATAGGAACGCTAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

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OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_181798.1

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]

Locus ID: 3784

MW: 41.8

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