

Product datasheet for **RN214575**

Kcnq1 (NM_032073) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq1 (NM_032073) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq1
Synonyms:	Kvlqt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214575 representing NM_032073
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACGGCTCCTCCCCGCCAATGCTGAGAGGAAGCGCGGGTTGGGCGCCTGCTAGGCGCC
 GGCGGGGAAGCGGGACTAGCAAAGAAGTGTCCCTTTTCACTGGAGCTGGCCGAAGGTGGCCCGACGGG
 AGGCACGGTCTACGCGCCATCGACCAACCGGAGCTCCAGGGCTCGCGCCCCCATGTACCCCTGTG
 TCGCCCGTCCCGCCCTGCAGACCTCGGCCACGTCCGCGGGTGAACCTTGACCCGCGCGTCTCCATCT
 ACAGTACGCGTCCCGCTGCTGGCGGCACCCACATCCAGGGCCGCGTCTACAACCTTCTCGAGCGCC
 CACGGGTTGGAAGTGTTCGTGTACCACTTACCGTCTTCTCATTGTTCTGGTCTGCCTCATCTTCAGT
 GTCCTGCCACTATTGAGCAGTATGCCCTCTGGCCACCGGGACCCTTCTGGATGGAGATTGCCTTG
 TGGTGTCTTTGGACAGAGTATGGTCCGTCTGGTCTGCAGGCTGCCGAGCAAGTACGTGGGCAT
 CTGGGGCCGGCTACGCTTTGCCGGAAGCCATTTCCATCATCGACCTCATCGTGGTTGAGCCTCTATG
 GTTGTCTCTGTGTGGTTCCAAAGGGCAAGTGTTCGCCACATCAGCTATCAGGGGTATCCGCTTCTTC
 AGATCCTGCGGATGCTGCATGTTGATCGCCAGGAGGTACCTGGAGGCTCCTGGGCTCTGTAGTCTTCAT
 TCACCGCCAGGAGCTGATCACCACCCTGTACATTGGCTTTCTGGGTCTCATCTTCTCCTACTTTGTC
 TACCTGGCTGAGAAAGATGCAGTGAATGAGTCCGGCCGATCGAGTTGGCAGCTACGCAGATGCTCTGT
 GGTGGGAGTGGTACAGTACACCACATTGGCTACGGGATAAGGTACCCAGACATGGGTTGGGAAGAC
 CATCGCTCCTGTTTCTGTCTTCGCATATCCTTCTTGCCTCCAGCGGCATACTGGCTCTGGG
 TTTGCAGTGAAGTCCAGCAGAAGCAGAGGCAGAAACACTTCAACCGCAGATCCAGCCGCAGCCTCAC
 TCATCCAGACTGCATGGAGGTGCTATGCTGCGGAGAATCCTGACTCATCCACTTGAAGATCTATGTCCG
 GAAGCCTGCTCGGAGCCACACTTTGCTCTCCCCAGCCCCAAGCCTAAAAAGTCTGTATGGTAAAGAAG
 AAGAAGTCAAGCTGGATAAAGGATAACGGGCTGAGTCCCTGGAGAGAAGATATTCAATGTCCCTCACATCA
 CTTGTGATCCCCAGAGGATCGGAGGCCAGACCATTTCTCCATTGATGGCTACGACAGCTCAGTAAGGAA
 GAGCCCTACACTGCTGGAAGTAAGCACACCCCATTTCTTGAGAACAAACAGCTTTGCTGAGGACCTGGAC
 CTGGAAGGGGAGACCCTGCTGACCCCATCACCATGTGTACAGCTGCGGGATCACCATCGGGCCACCA
 TCAAGGTATCAGGCGCATGCAGTACTTTGTAGCCAAGAAGAAATCCAGCAAGCACGGAAGCCCTACGA
 TGTGCGAGATGCATCGAGCAGTACTCCAGGGCCACCTCAACCTTATGGTGCATTAAGAATACAG
 AGAAGGCTGGATCAGTCCATCGGAAGCCATCTTTGTTATCCCATCTCAGAAAAGAGCAAAGACCGTG
 GCAGCAACACCATCGGTGCCCGTTTGAACAGGGTGAAGACAAGGTGACACAACCTGGACCAGAGACTGGT
 GATCATCACAGACATGCTCCACCAACTGCTGTCCCTGCAACAAGGTGGTCCAACCTGCAACAACAGGTCA
 CAAGTCGTAGCCAGTATGAACGTGGCTCCATCAACCCTGAGCTTCTCCTGCCAGCAACAGCCTGCCCA
 CCTATGAACAGCTGACTGTGCCCCAGACAGGCCCTGATGAAGGCTCC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_032073
- Insert Size:** 2010 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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 Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_032073.1](#), [NP_114462.1](#)

RefSeq Size: 3070 bp

RefSeq ORF: 2010 bp

Locus ID: 84020

UniProt ID: [Q9Z0N7](#)

Cytogenetics: 1q42

Gene Summary: pore-forming subunit of potassium channels; mutations in human homolog are associated with both Romano-Ward syndrome and Jervell and Lange-Nielsen syndrome [RGD, Feb 2006]