

Product datasheet for **RN213597**

Kcnq3 (NM_031597) Rat Untagged Clone

Product data:

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|---------------------------|--------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Kcnq3 (NM_031597) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Kcnq3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN213597 representing NM_031597
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTCAAGGCTCGCAGGGCGGGGGCGGCCGGGGCGGGCGGAAGGGGGCGGAGGAGCGG
 GCGGGGGCGCTAACC CGCTGGAGGGGACTCGGCAGTGGCCGGGACGAGGAGCGGAAAGTGGGGCTGGC
 GCCAGGAGACGTGGAGCAAGTCACCTTGCGCTAGGGACCGGAGCCGACAAGACGGGACCTGCTGCTG
 GAGGGCGGTGGCCGGAAGAGGGGCAGAGGAGGACCCCGCAGGGCATCGGGCTCTGGCAAAGACCCCC
 TGAGCCGTCCAGTTAAGAGGAACAACGCCAAGTACAGGCGCATCCAACTTTGATCTATGACGCCCTGGA
 GAGACCGAGGGGCTGGGCGTCTCTACCACGCGCTTGTGTTCTGATTGTCTGGGATGCTTGATTCTG
 GCCGTGCTCACCCTTTCAAGGAGTATGAGACTGTGTCTGGAGACTGGCTTTTGTCTGGAAACATTTG
 CTATTTTCATCTTTGGAGCTGAGTTTGCTTTGAGGATCTGGGCTGCAGGATGTTGCTGTCGATACAAAGG
 CTGGCGTGGACGGCTGAAGTTTCCAGGAAGCCCTGTGCATGTTGGATATCTTCGTGCTGATTGCTTCT
 GTGCCAGTGGTTGCCGTGGGAAACCAGGGCAATGTCTGGCTACCTCTCTGCGAAGCCTCCGCTTCTGTC
 AGATCCTGCGCATGCTTCGAATGGATAGGAGGGGTGGCACCTGGAAGCTCCTGGGCTCAGCTATCTGTGC
 CCACAGCAAAGAACTCATCACCGCTGGTACATCGGCTTCTGACACTCATCTTTCTTCATTTCTGTGC
 TACCTGGTGGAGAAGGATGTGCCAGAGATGGATGCCCAAGGAGAGGAAATGAAAGAGGAGTTTGAGACCT
 ATGCTGATGCCCTGTGGTGGGCGCTGATCACACTGGCCACCATTGGTTATGGAGACAAGACACCTAAAC
 CTGGGAAGGACGCTGATTGCTGCCACCTTTCTTTAATCGGCGTCTCCTTTTTGTCTTCCGGCAGGC
 ATCCTTGGCTCAGGACTGGCATTGAAGTTTCCAGAACAGCACCGTCAGAAGCACTTTGAGAAGAGAAGGA
 AGCCACTGCTGAACTCATCCAGGCTCCTGGAGATATTATGCTACCAACCCCAACAGGCTTGACCTGGT
 GGCAACCTGGAGATTTTATGAATCAGTTGTCTCTTTCCATTCTTCAGGAAAGAACAACCTGGAAGCAGCA
 GCCAGCCAAAAGCTGGTCTCTTGGATCGGGTTCGCCTTTCTAATCCTCGTGGTAGCAATACTAAAGGAA
 AGCTATTTACCCCTCTGAATGTAGATGCCATAGAAGAAAGCCCTTCCAAAGAGCCAAAGCCCGTTGGCTT
 AAACAATAAAGAGCGTTTCCGCACCGCCTTCCGCATGAAAGCCTACGCTTTCTGGCAGAGTTCTGAAGAT
 GCCGGGACAGGAGACCCCATGACAGAAGACAGGGGCTATGGAAATGACTTCTCATTGAAGACATGATCC
 CCACCCTAAAGGCTGCCATCCGAGCTGTCAGAATTCTACAATCCGTCTGTATAAAAAAAATTC AAGGA
 GACATTGAGGCCATTATGATGTAAGATGTAATTGAGCAGTATCCGCTGGACATCTTGACATGCTTTCC
 AGGATAAAGTACCTTCAGACAAGAATAGATATGATTTTACCCCTGGACCTCCATCCACTCCAAAACATA
 AGAAGTCTCAGAAAGGGTCAGCATTACCTACCATCCCAGCAGTCTCCAAGGAATGAACCATATGTAGC
 CAGGGCAGCCACATCAGAAACTGAAGACAAAGCATGATGGGGAAGTTTGTAAAAGTTGAAAGACAGGTT
 CACGACATGGGGAAGAACTGGACTTCTCGTGGACATGCACATGCAGCATATGGAGCGTCTGCAGGTGC
 ACGTCACCGAGTACTACCCAACAAGGGGGCTCCTCCCCAGCAGAAGGGGAGAAGAAAGAGGACAACAG
 GTATTCTGACTTGAAAACCATCATCTGTAATACTCAGAATCAGGCCCCCCGACCCACCCTACAGCTTC
 CACCAGGTGCCATCGACAGAGTTGGTCCCTATGGGTTTTTGCACATGACCCCGTGAAGTACAGGAG
 GGGGACCCAGTTCTACAAAGGCTCAGGCCAACCTTCCCTCCTCGGAAGTACATATGCAGAGAGGGCCAC
 AGTCTGCCATCTTGACTCTTCTGGACTCATGTGTGAGCTACCACTCCAGACAGAACTGCAAGGCCCC
 TATTCGGACCACATCTCACCCCGCAGAGACGCAGCATCACTAGGACAGTGACACACCCTGTCCCTCA
 TGTCCGTCAACCAGGAACTGGAACGGTCTCCAAGTGGCTTACGATCTCCAAGACAGAGATGATTA
 TGTATTTGGCCCCAGTGGGGTTCGAGCTGGATGAGGGAAAAGCGGTACCTGGCAGAAGGAGAAACAGAC
 ACAGATACAGACCCCTTACGCCAGTGGATCCATGCCTATGTCTACTGGAGATGGTATTTAGATT
 CCATATGGACCCCTTCCAACAAGCCACT**TAG**

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2581_a09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_031597

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| Insert Size: | 2622 bp |
| OTI Disclaimer: | <p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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_031597.3 , NP_113785.2 |
| RefSeq Size: | 5798 bp |
| RefSeq ORF: | 2739 bp |
| Locus ID: | 29682 |
| Cytogenetics: | 7q34 |
| Gene Summary: | potassium channel involved in regulating neuronal excitability [RGD, Feb 2006] |