

Product datasheet for **RN206037**

Kcnq2 (NM_133322) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq2 (NM_133322) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN206037 representing NM_133322
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCAAAAGTCGCGCAACGGTGGCGTGTACCCGGCACCAGCGGGGAAAAAAGCTCAAGGTGGGCT
 TCGTGGGGCTGGACCCCGCGCGCCGACTCCACTCGCGACGGCGCGCTACTCATCGCGGGCTCCGAGGC
 CCCAAGCGCGGACGCTTTTGTAGCAAGCCGCGGACGGCGCGGGAGCCGGGAAAGCCCCAAAGCGC
 AACGCCTTCTACCGCAAGCTGCAGAATTTCTATAACAACGTGCTAGAGCGGCCCGCGGTTGGCGTTCA
 TCTACCACGCCTACGTGTTTCTTTAGTCTTCTCCTGCCTTGTGCTTTCGTGTTTTCCACCATCAAGGA
 GTATGAGAAGAGTTCGAAGGGGCCCTACATCTTGAAATCGTGACCATCGTGGTATTCGGTGTGAG
 TACTTTGTGAGAATCTGGGCTGCAGGCTGCTGCTGCCGGTATCGAGGCTGGAGGGCCGGCTCAAGTTG
 CCAGGAAGCCATTCTGTGTGATCGACATCATGGTGTGATTGCCTCCATTGCTGTGCTGGCTGCTGGCTC
 CCAGGGCAATGTCTTTGCTACGTCTGCACCTTCGGAGCTTTCGGTCTTACAAATCTTACGGATGATCCGT
 ATGGACCGGAGGGGGCGCACCTGGAAGCTCCTGGGATCGGTGGTCTACGCTCACAGCAAGGAGCTGGTGA
 CTGCGTGGTACATTGGCTTCTCTGCTCATCCTGGCCTCGTTTCTGGTGTACTTGGCAGAAAAGGGTGA
 GAATGACCACTTCGACACCTACGCGGATGCACTCTGGTGGGGTCTGATCACCTGACAACCATTTGGCTAC
 GGGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGTTAGCAGCGACGTTTACCCTCATTGGTGTCTCAT
 TCTTCGCTCTTCTGTGGCATTTTGGGATCCGGCTTTCGCCCTGAAAGTCCAAGAGCAGCATCGGCAAAA
 ACACCTTGAGAAACGGCGGAATCCTGCGGCAGGTCTGATCCAGTTCGCTGGAGATTCTATGCTACTAAC
 CTCTCACGCCACCGACCTGCACCTCACGTGGCAGTACTACGAGCGGACAGTCACTGTCCCCATGATCAGCT
 CACAAACTCAAACCTATGGGGCTCCAGACTCATTCCGCTCTGAACCAGCTGGAGATGCTGAGGAATCT
 CAAGAGCAAATCTGGACTCACCTTCAGGAAGGAGCCACAGCCAGAGCCATCACAAAGTCAGAAGGTCAGT
 TTGAAAGATCGTGTCTTCTCCAGCCCCGAGGCGTGGCTGCCAAGGGGAAGGGTCTCCCGAGGCCAGA
 CGGTCCGGCGGTCCCCAGTGGGATCAGAGTCTCGATGACAGCCCAAGCAAGGTGCCAAGAGCTGGAG
 CTTTGGTGACCGCAGCCGTGCACGCCAGGCTTTCGATCAAGGGCGCTGCATCCCGCAGAACTCAGAA
 GAAGCAAGCCTCCCTGGGAGGATATCGTGAGGACAACAAGAGCTGTAAGTGGAGTTTGTGACTGAAG
 ATCTTACCCTGGCTCAAAGTCAAGTCAAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GTTCAAAGAGAGTCTGCGCCCATATGACGTGATGGATGATGATGATGATGATGATGATGATGATGATGAT
 ATGTTGTCCCGAATCAAGAGCCTGCAGTCCAGAGTGGACCAGATTGTTGGGCGGGGCCCCGACAATAACGG
 ACAAGGACCGCACAAAGGCCACGCGGAGACGGAAGTCCCGAAGACCCAGCATGATGGGACGCCTTGG
 GAAGGTGGAAAAACAGGTCTTGTCCATGAAAAAGAAGTACAGTTCCTGGTGAGCATCTACACACAGAGA
 ATGGGCATCCCACCAGCAGAGACAGAGGCCATTTTCGGGGCAAGGAGCCTGAGCCGGCACCACCCTACC
 ACAGCCCGGAGGACAGCCGTGACCATGCAGACAAGCATGGCTGTATTATTAAGATTGTCCGCTCCACCAG
 CTCTACGGGCCAGAGGAAATACGCCGCACCCCAAGTATGCCCCCTGCCGAGTGTCCCCATCCACCTCG
 TGGCAGCAGAGCCACCAGCGCCACGGCACCTCCCCGTGGGAGACCATGGCTCACTGGTACGCATCCCAC
 CACCCCTGCGCACGAGCGCTCACTGTCTGCCTACAGTGGGGCAACAGAGCCAGTACCGAGTCTTGAG
 GCTGGAGGGCACCCAGCCTGCAGGCCCTGAGGCAGCCCTGCCGGATAGCGACACGTCATCTCCATC
 CCTTCGTTGGACCACGAGGAGCTGGAGCGTTCCTTTAGCGGTTTCAGTATCTCCAGTCCAAGGAGAACC
 TGAATGCCTGGCCAGCTGTTATGCAGCTGTGGCGCCGTGCGCCAAGGTACAGCCCTACATTGCAGAGGG
 TGAGTCTGACACAGACTCAGACCTCTGCACACCGTGTGGGCCACCCACGCTCTGCCACTGGTGAAGGC
 CCCTTTGGAGATGTGGCTGGGCAGGGCTAGGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2604_g01.zip
Restriction Sites: SgfI-MluI
ACCN: NM_133322

Insert Size:	2559 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_133322.1 , NP_579856.1
RefSeq Size:	4165 bp
RefSeq ORF:	2559 bp
Locus ID:	170848
UniProt ID:	O88943
Cytogenetics:	3q43
Gene Summary:	potassium channel involved in sympathetic neuronal excitability [RGD, Feb 2006]