

Product datasheet for **MC208816**

Kcnq2 (NM_001006679) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnq2 (NM_001006679) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnq2
Synonyms: HNSPC; KQT2; Nmf134
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208816 representing NM_001006679
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGCAGAAGTCGCGCAACGGTGGCGTGTACCCCGGCACCAGCGGGGAAAAGAAGCTCAAGTGGGCT
TCGTGGGGCTGGACCCCGCGCGCCGACTCCACACGCGACGGCGCGCTACTCATCGCGGCTCCGAGGC
CCCAAGCGCGCAGCGTTTTGAGCAAGCCGGACGGCGCGGGAGCCGGGAAGCCCCGAAGCGC
AACGCCTTCTACCGCAAGCTGCAGAATTCCTCTACAAGTGCTAGAGCGCCCCGCGGCTGGGCGTTCA
TCTACCACGCCTACGTGTTCCCTTTAGTCTTCTCCTGCCTTGTGCTTTCTGTGTTTTCCACCATCAAGGA
GTACGAGAAGAGCTCTGAGGGGGCCCTCTACATCTTGAAATCGTGACTATCGTGGTATTCGGTGTGAG
TACTTTGTGAGGATCTGGGCTGCAGGCTGCTGTTGCCGGTATCGAGGCTGGAGGGCAGGCTCAAGTTTG
CCAGGAAGCCGTTCTGTGTGATTGATATCATGGTGCTGATTGCCTCCATTGCTGTGCTGGCTGCTGGTTC
CCAGGGCAATGTCTTTGCCACATCTGCGCTTCGGAGCTTGGGTTCTTGCAAATCTTGGGATGATCCGT
ATGGACCGGAGGGGTGGCACCTGGAAGCTCTTGGGATCGGTAGTCTACGCTCACAGCAAGGAGCTGGTGA
CTGCCTGGTACATTGGCTTCTCCTGCCTACCTGGCCTCATTTCTGGTACTTGGCAGAAAAGGGTGA
GAATGACCACTTTGACACCTACGCAGATGCACTCTGGTGGGTCTGATCACCCCTGACGACCATTTGGCTAC
GGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGCTGGCAGCGACCTTTACCCTCATTGGTGTCTCGT
TCTTTGCTCTTCTGCTGGCATTGTTGGGATCCGCTTTGCCCTGAAAGTCCAAGAGCAGCATCGGAAAA
ACACTTTGAGAAACGGCGGAACCCTGCGGCAGGTCTGATCCAGGTGAGCCTTAGTCCCTGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001006679



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Insert Size:	1044 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:	<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:	<u>NM_001006679.1</u> , <u>NP_001006680.1</u>
RefSeq Size:	1734 bp
RefSeq ORF:	1044 bp
Locus ID:	16536
Cytogenetics:	2 103.57 cM
Gene Summary:	<p>Associates with KCNQ3 to form a potassium channel with essentially identical properties to the channel underlying the native M-current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it is important in the regulation of neuronal excitability.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (11) differs in the 3' UTR and has multiple coding region differences (compared to variant 1), one of which results in a frameshift. This results in a shorter isoform (11) with a distinct C-terminus, compared to isoform 1.</p>