

Product datasheet for **MC219801**

Kcnq2 (NM_001006675) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq2 (NM_001006675) 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



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Fully Sequenced ORF: >MC219801 representing NM_001006675
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCAGAAGTCGCGCAACGGTGGCGTGTACCCGGCACACGCGGGGAAAAGAAGCTCAAGGTGGGCT
 TCGTGGGGCTGGACCCCGCGCGCCGACTCCACACGCGACGGCGCGCTACTCATCGCGGGCTCCGAGGC
 CCCAAGCGCGGACGCTTTTGTAGCAAGCCGCGACGGCGCGGGAGCCGGGAAAGCCCCGAAGCGC
 AACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTAGAGCGGCCCGCGGGTGGCGTTCA
 TCTACCACGCCTACGTGTTCTTTTGTAGTCTTCTCTGCTTGTGCTTTCTGTGTTTTCCACCATCAAGGA
 GTACGAGAAGAGCTCTGAGGGGGCCCTACATCTTGGAAATCGTACTATCGTGGTATTCGGTGTGAG
 TACTTTGTGAGGATCTGGGCTGCAGGCTGCTGTTGCCGGTATCGAGGCTGGAGGGCAGGCTCAAGTTG
 CCAGGAAGCCGTCTGTGTGATTGATATCATGGTGTGATTGCCCTCATTGCTGTGCTGGCTGCTGGTTC
 CCAGGGCAATGTCTTTGCCACATCTGCGCTTCGGAGCTTGGGTTCTTGGAAATCTTGGCGATGATCCGT
 ATGGACCGGAGGGGTGGCACCTGGAAGCTCTTGGGATCGGTAGTCTACGCTCACAGCAAGGAGCTGGTGA
 CTGCCTGGTACATTGGCTTCTCTGCTCATCCTGGCCTCATTTCTGGTGTACTTGGCAGAAAAGGGTGA
 GAATGACCACTTTGACACCTACGCAGATGCACTCTGGTGGGGTCTGATCACCTGACGACCATTTGGCTAC
 GGGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGCTGGCAGCGACCTTTACCCCTATTGGTGTCTCGT
 TCTTTGCTCTTCTGCTGGCATTTTGGGATCCGGCTTTGCCCTGAAAGTCCAAGAGCAGCATCGGCAAAA
 ACATTTGAGAAACGGCGGAACCCTGCGGCAGGTCTGATCCAGTCTGCCTGGAGATTCTATGCTACTAAC
 CTCTCACGCCACCTGCACCTCCACGTGGCAGTACTACGAGCGGACAGTCACTGTCCCCATGTACAGAC
 TCATCCCACCTCTGAACCAGCTGGAGCTGCTGAGGAATCTCAAGAGCAAATCTGGACTCACCTTCAGGAA
 GGAGCCACAGCCAGAGCCATCACCAAGTCAGAAGGTGAGTTTGAAGATCGTGTCTTCTCCAGCCCCGA
 GGATGGCTGCCAAGGAAAGGGGTCTCCCCAGGCCAGACGGTCCGGCGGTCCCCAGTCCGGATCAGA
 GTCTTGATGACAGCCCGAGCAAGGTGCCAAGAGCTGGAGCTTTGGTGGCCGAGCCGACACGCCAGGC
 TTTCCGCATCAAGGGTGTGATCCCGCAGAATTGAGAAGAAGCAAGCCTCCCTGGGAGGACATCGTA
 GAGGACAACAAGAGCTGTAAGTGCAGTTTGTGACTGAAGATCTTACCCCTGGCTCAAAGTTAGCATCA
 GAGCTGTGTGTTATGCGGTTCTTGGTATCTAAGCGAAAGTTCAAAGAGAGTCTGCGCCCATATGATGT
 GATGGACGTATCGAACAGTACTCGGCTGGACACTTGGATATGTTGTCCCGCATCAAGAGCTGCAGTCC
 AGGCAAGAGCCCCTGCCTGTCCAGTCTGGGCATGAACAGGGCCCTCCGGGACAAAACCAGGCATGGCACA
 AGGGGCACCAAGGGCTGGGTGACAGGTGTGAGAACAGGGCCAGTACCAGCTTTGGAGGTCTTCCAC
 CTTGTTGGCTTCTGTTGCTTTCTGCTGTGTTCCACACTGTCTGTTTT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001006675

Insert Size: 1872 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_001006675.1](#), [NP_001006676.1](#)

RefSeq Size: 2939 bp

RefSeq ORF: 1872 bp

Locus ID: 16536

Cytogenetics: 2 103.57 cM

Gene Summary: 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]
Transcript Variant: This variant (7) 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 (7) with a distinct C-terminus, compared to isoform 1.