

Product datasheet for **MC221369**

Kcnq2 (NM_001003824) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq2 (NM_001003824) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq2
Synonyms:	HNSPC; KQT2; Nmf134
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221369 representing NM_001003824
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGCAGAAGTCGCGCAACGGTGGCGTGTACCCGGCACCAGCGGGGAAAAGAAGCTCAAGGTGGGCT
 TCGTGGGGCTGGACCCCGCGCGCCGACTCCACACGCGACGGCGCGCTACTCATCGCGGCTCCGAGGC
 CCCAAGCGCGGAGCGTTTTGAGCAAGCCGCGACGGCGCGCGGGAGCCGGGAAAGCCCCGAAGCGC
 AACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTAGAGCGGCCCGCGGCTGGCGTTCA
 TCTACCACGCCTACGTGTTCTTTTAGTCTTCTCTGCTTGTGCTTTCTGTGTTTTCCACCATCAAGGA
 GTACGAGAAGAGCTCTGAGGGGGCCCTACATCTTGAAATCGTACTATCGTGGTATTCGGTGTGAG
 TACTTTGTGAGGATCTGGGCTGCAGGCTGCTGTTGCCGGTATCGAGGCTGGAGGGCAGGCTCAAGTTG
 CCAGGAAGCCGTTCTGTGTGATTGATATCATGGTGTGATTGCCTCCATTGCTGTGCTGGCTGCTGGTTC
 CCAGGGCAATGTCTTTGCCACATCTGCGCTTCGGAGCTTGGGTTCTTGCAAATCTTGGGATGATCCGT
 ATGGACCGGAGGGGTGGCACCTGGAAGCTCTGGGATCGGTAGTCTACGCTCACAGCAAGGAGCTGGTGA
 CTGCCTGGTACATTGGCTTCTCTGCTCATCCTGGCCTCATTTCTGGTGTACTTGGCAGAAAAGGGTGA
 GAATGACCACTTTGACACCTACGCAGATGCACTCTGGTGGGGTCTGATCACCTGACGACCATTTGGCTAC
 GGGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGCTGGCAGCGACCTTACCCTCATTGGTGTCTCGT
 TCTTTGCTCTTCTGCTGGCATTTTGGGATCCGGCTTGGCCCTGAAAGTCCAAGAGCAGCATCGGAAAA
 ACACCTTGAGAAACGGCGGAACCTGCGGCAGGTCTGATCCAGTCTGCCTGGAGATTCTATGCTACTAAC
 CTCTCACGCCACCGACCTGCATCCACGTGGCAGTACTACGAGCGGACAGTCACTGTCCCCATGTACAGAC
 TCATCCCACCTCTGAACCAGCTGGAGCTGCTGAGGAATCTCAAGAGCAAATCTGGACTCACCTTCAGGAA
 GGAGCCACAGCCAGAGCCATCACCAAGTCAGAAGGTCAGTTTGAAAGATCGTGTCTTCTCCAGCCCCGA
 GGATGGCTGCCAAGGAAAGGGTCTCCCCAGGCCAGACGGTCCGGCGGTCCCCAGTCCGGATCAGA
 GTCTTGATGACAGCCGAGCAAGGTGCCAAGAGCTGGAGCTTTGGTGGCCGAGCCGACACGCCAGGC
 TTTCCGCATCAAGGGTGTGATCCCGCAGAATTCAGAAGAAGCAAGCCTCCCTGGGGAGGACATCGTA
 GAGGACAACAAGAGCTGTAAGTGCAGTGTGACTGAAGATCTTACCCTGGCCTCAAAGTTAGCATCA
 GAGCTGTGTGTTATGCGGTTCTTGGTATCTAAGCGAAAGTTCAAAGAGAGTCTGCGCCCATATGATGT
 GATGGACGTCATCGAACAGTACTCGGCTGGACACTTGGATATGTTGTCCCGCATCAAGAGCTGCAGTCC
 AGGATAGATATGATTGTGGGCCCCACCCCTTCAACTCCCCGGCACAAGAAGTACCCTACCAAAGGAC
 CCACGGCCCTTCGAGAGAGTACCCCAGTACTACCTAGAGTGGACCAGATTGTGGGGCGGGGCCAAC
 AATAACGGATAAAGACCCGACCAAAGGCCAGCGGAAACGGAGCTGCCCGAAGACCCAGCATGATGGGA
 CGGCTTGGGAAGGTGGAGAAACAGGTCTTGCCATGGAAAAGAAGCTCGACTTCTTGGTGGAGCATCTATA
 CACAGAGAATGGGCATCCCACCAGCAGAGACAGAGGCCTATTTTGGGGCCAAGGAGCCTGAGCCGGCACC
 ACCCTACCACAGCCAGAGGACAGCCGTGACCATGCAGACAAGCATGGCTGTATCATTAAAGATCGTCCGC
 TCCACCAGCTCTACGGGCCAGAGGAACTACGCAGACCCCCAGCCATCCCCCTGCCAGTGTCTCCCT
 CCACCTCGTGGCAGCAGGCCACCAGCGCCATGGCACCTCCCCTGTGGGAGACCATGGCTCACTGGTCTCT
 CGACTGGAGAGGAGTGTGGCATGATGAGCTGTCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001003824
Insert Size: 2280 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:	NM_001003824.2 , NP_001003824.1
RefSeq Size:	3073 bp
RefSeq ORF:	2280 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 (2) lacks two alternate in-frame exons but includes an additional in-frame exon, and it also contains alternate 3' exon structure resulting in an alternate 3' coding region, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>