

Product datasheet for **MC222312**

Kcnq2 (NM_010611) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq2 (NM_010611) 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: >MC222312 representing NM_010611
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCAGAAGTCGCGCAACGGTGGCGTGTACCCCGGCACCAGCGGGGAAAAGAAGCTCAAGGTGGGCT
 TCGTGGGGCTGGACCCCGCGCGCCGACTCCACACGCGACGGCGCGCTACTCATCGCGGGCTCCGAGGC
 CCCAAGCGCGGACGCTTTTGTAGCAAGCCGCGACGGCGCGGGAGCCGGGAAGCCCCGAAGCGC
 AACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTAGAGCGGCCCGCGGGTGGCGTTCA
 TCTACCACGCCTACGTGTTCTTTTGTCTCTCTGCTTGTGCTTTCTGTGTTTTCCACCATCAAGGA
 GTACGAGAAGAGCTCTGAGGGGGCCCTACATCTTGGAAATCGTACTATCGTGGTATTCGGTGTGAG
 TACTTTGTGAGGATCTGGGCTGCAGGCTGCTGTTGCCGGTATCGAGGCTGGAGGGCAGGCTCAAGTTG
 CCAGGAAGCCGTTCTGTGTGATTGATATCATGGTGTGATTGCCCTCCATTGCTGTGCTGGCTGCTGGTTC
 CCAGGGCAATGTCTTTGCCACATCTGCGCTTCGGAGCTTGGGTTCTTGGAAATCTTGGCGATGATCCGT
 ATGGACCGGAGGGGTGGCACCTGGAAGCTCTTGGGATCGGTAGTCTACGCTCACAGCAAGGAGCTGGTGA
 CTGCCTGGTACATTGGCTTCTCTGCTCATCCTGGCCTCATTTCTGGTGTACTTGGCAGAAAAGGGTGA
 GAATGACCACTTTGACACCTACGCAGATGCACTCTGGTGGGGTCTGATCACCTGACGACCATTTGGCTAC
 GGGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGCTGGCAGCGACCTTTACCCCTATTGGTGTCTCGT
 TCTTTGCTCTTCTGCTGGCATTTTGGGATCCGGCTTGGCCCTGAAAGTCCAAGAGCAGCATCGGAAAA
 ACACCTTGAGAAACGGCGGAACCTGCGGCAGGTCTGATCCAGTCTGCCTGGAGATTCTATGCTACTAAC
 CTCTCACGCCAGCCTGCATCCACGTGGCAGTACTACGAGCGGACAGTCACTGTCCCCATGTACAGCT
 CACAAACTCAAACCTATGGGGCTCCAGACTCATCCACCTCTGAACAGCTGGAGCTGTGGAATCT
 CAAGAGCAAATCTGGACTCACCTTCAGGAAGGAGCCACAGCCAGGCCATCACCAGTAAAGGCAGACCG
 TGCCGAGGGTGCCTGTGTGGATGCTGCCCGGACACTCTAGTCAGAAGGTGAGTTTGAAGATCGTGTCT
 TCTCCAGCCCGGAGGCATGGCTGCCAAGGGAAGGGTCTCCCGAGCCAGACGGTCCGGCGGTCCCC
 CAGTGGGATCAGAGTCTTGTGACAGCCCGAGCAAGGTGCCAAGAGCTGGAGCTTTGGTGACCGCAGC
 CGCACAGCCAGGCTTCCGCATCAAGGGTGTGCATCCCGCAGAAATCAGAAGAAGCAAGCCTCCCTG
 GGGAGGACATCGTAGAGGACAACAAGAGCTGTAAGTGGAGTTTGTGACTGAAGATCTTACCCTGGCT
 CAAAGTTAGCATCAGAGCTGTGTGTTATGCGGTTCTTGGTATCTAAGCGAAAGTTCAAAGAGAGTCTG
 CGCCCATATGATGTGATGGACGTCATCGAACAGTACTCGGCTGGACACTGGATATGTTGTCCCGCATCA
 AGAGCCTCGAGTCCAGAGTGGACCAGATTGTGGGCGGGGCCAACAAATACGGATAAAGGACCGCACAA
 AGGCCAGCGAAACGGAGCTGCCCGAAGACCCAGCATGATGGGACGGCTTGGGAAGGTGGAGAAACAG
 GTCTTGTCCATGGAAAAGAAGCTCGACTTCTTGGTGGATCTATACACAGAGAATGGGCATCCCACCAG
 CAGAGACAGAGGCTATTTTGGGGCAAGGAGCCTGAGCCGGCACCACCTACCACAGCCAGAGGACAG
 CCGTGACCATGCAGACAAGCATGGCTGTATCATTAAGATCGTCCGCTCCACCAGCTTACGGGCCAGAGG
 AACTACGCAGCACCCAGCCATCCCCCTGCCAGTGTCTCCCTCCACCTCGTGGCAGCAGAGCCACC
 AGCGCCATGGCACCTCCCTGTGGGAGACCATGGCTACTGGTACGCATCCCACCACCCCTGCACACGA
 GCGGTCTGTCTGCCTACGGTGGGGCAACAGAGCCAGTACCGAGTTCTTGGGCTGGAGGGCACCCCA
 GCCTGCAGGCCCTCTGAGGCTGCCCTGCGGGATAGCGACACGTCATCTCCATCCCTTCCGTTGGACCATG
 AGGAGCTGGAGCGCTCCTCAGCGGCTTCAAGTATCTCCAGTCCAAGGAGAACCTGGATGCCCTGGCAG
 CTGTTATGCAGCTGTGGCACCATGCGCCAAGGTCAGGCCCTACATTGCAGAGGGAGAGTCTGACACAGAC
 TCAGACCTCTGCACACCATGTGGGCTCCCCACGCTCTGCCACTGGTGGGGCCCTTTGGAGATGTGG
 CTTGGGCAGGGCCAGGAAATGA

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010611
Insert Size: 2613 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_010611.3 , NP_034741.2
RefSeq Size:	8301 bp
RefSeq ORF:	2613 bp
Locus ID:	16536
UniProt ID:	Q9Z351
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 (1) represents the longest transcript and encodes the longest 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>