

Product datasheet for **MC222342**

Kcnq3 (NM_152923) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq3 (NM_152923) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222342 representing NM_152923
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCTCAAGGCTCGCAGGGCGGGGGCGGCTGGCGGGGGCGGCGGAAGGGGGCGGCGCGCG
 GCGGGGCCGCTAACCCTGCTGGAGGGGACTCGGCGGTGGCCGGCGACAGGAGCGGAAAGTGGGGCTGGC
 GCCAGGAGACGTGGAGCAAGTCACCTTGCGCTAGGGGCCGAGCCGACAAAGACGGGACCTGCTGCTG
 GAGGGCGGTGGCCGGAAGAGGGGCAGAGGAGGACCCCGCAGGGCATCGGGCTCTGGCAAAGACCCCC
 TGAGCCGCCAGTCAAGAGGAACAACGCCAAGTACAGGCGCATCCAACTTTGATCTATGACGCCCTGGA
 GAGACCGGGGGTGGGCGTCTCTACCACGCGCTTGTTCTGATTGCTCTGGGATGCTTGATTCTG
 GCCGTGCTCACCACCTTCAAGGAATATGAGACTGTGTCTGGAGACTGGCTTTTGTCTGGAAACCTTTG
 CTATTTTCATCTTTGGAGCTGAGTTTGCTTTGAGGATCTGGGCTGCAGGATGTTGCTGTCGATACAAAGG
 CTGGCGTGGACGGCTAAAGTTTCCAGGAAGCCCTGTGCATGTTGGACATCTTCGACTGATTGCCTCT
 GTGCCAGTGGTTGCCGTGGGAAACCAGGGCAATGTCTTGCCACCTCCCTGCGAAGCCTTCGCTTCTG
 AGATCCTGCGCATGCTTCGAATGGATAGGAGGGGTGGCACCTGGAAGCTCCTGGGCTCGGCTATCTGTGC
 CCACAGCAAAGAACTCATCACTGCCTGGTACATAGGCTTCTGACACTCATCTTTCTTCATTTCTGTGC
 TACCTGGTGGAGAAGGATGTGCCAGAGATGGATGCCCAAGGAGAGGAAATGAAGGAGGAGTTTGAGACCT
 ATGCAGATGCTCTGTGGTGGGCGCTGATCACACTGGCCACCATTTGGTTATGGAGACAAGACACCTAAAC
 CTGGGAAGGACGTCTGATTGCTGCCACCTTTCTTTAATCGGCGTCTCCTTTTTGCCCTCCGGCAGGC
 ATCCTTGGCTCAGGACTGGCACTGAAGGTTTCCAGGAGCAGCACCCTCAGAAGCACTTTGAGAAGAGAAGGA
 AGCCACTGCGGAACCTCACAGGCTGCCTGGAGATATTATGCTACCAACCCCAACAGTTGGATGCTGT
 GGCAACCTGGAGATTTTATGAATCAGTTGTCTCTTTCCATTCTTCAGGAAAGAACAACCTGGAAGCAGCA
 GCCAGCCAAAAGCTGGGTCTCTTGATCGGGTTCGCCTTTCTAATCCTCGTGGTAGCAATACTAAAGGAA
 AGCTATTTACCCCTCTGAATGTAGATGCCATAGAAGAAAGCCCTTCAAAGAGCCAAAGCCTGTTGGCTT
 AAACAATAAAGAGCGTTTCCGCACCGCCTTCCGCATGAAAGCCTACGCTTTCTGGCAGAGTTCTGAAGAT
 GCTGGGACAGGCGACCCCATGGCAGAAGACAGGGGCTATGGGAATGACTTCTCATTGAAGACATGATCC
 CTACCCTAAAGGCTGCCATCCGAGCTGTCAGAATTCTACAGTTCCGTCTATATAAAAAAAGTTCAAGGA
 GACGTTGAGGCCATTATGATGTGAAAGATGTGATTGAGCAGTATTCGGCCGGACATCTTGACATGCTTTCC
 AGGATAAAGTACCTACAGACAAGAATAGATATGATTTTACCCCTGGACCTCCATCCACTCCAAAACATA
 AGAAGTCTCAGAAAGGGTCAGCATTACCTACCCATCCCAGCAGTCTCCAAGGAATGAACCATATGTAGC
 CAGGGCAGCCACATCAGAAACTGAAGACAAAGCATGATGGGGAAGTTTGTAAAAGTTGAAAGACAGGTT
 CATGACATGGGGAAGAACTGGACTTCTCGTGGACATGCATATGCAGCATATGGAACGCTTACAGGTAC
 ATGCTACTGAGTACTACCAACTAAGGGGGCTCCTCCCAGCCGAAGGGGAGAAGAAAGACAACAG
 GTACTCTGATTTGAAAACCATCATCTGCAACTACTCAGAGACAGGGCCCCCTGACCCTCCTTACAGCTTC
 CACCAGGTGCCATCGACAGAGTTGGCCCTTACGGGTTTTTGCACATGATCCTGTGAAACTGACCCGAG
 GGGGACCCAGTTCTACAAAGGCTCAAGCTAACCTTCCCTCCTCGGAAGTACATATGCAGAGAGGCCAC
 AGTCTGCCCATCTTGACTCTTCTGGACTCATGTGTGAGCTACCACTCCAGACAGAACTGCAAGGTCCT
 TATTCGACCACATCTCGCCCCCAGAGACGCAGCATCACTAGGACAGTGATACACCTCTGTCCCTCA
 TGTCCGTCATACAGGAACTGGAGCGGTCTCCAAGTGGCTTACGATCTCACAAGACAGAGATGATTA
 TGTATTTGGCCCCAGTGGGGATCGAGCTGGATGAGGGAAAAGCGGTACCTGGCTGAAGGAGAAACGGAC
 ACGGACACAGACCCCTTACACCCAGTGGTTCCATGCCTATGTATCCACTGGGGATGGTATTTAGATT
 CCATATGGACCCCTTCCAACAAGCCACT**TAA**

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_152923
Insert Size: 2622 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_152923.2 , NP_690887.2
RefSeq Size:	2878 bp
RefSeq ORF:	2622 bp
Locus ID:	110862
UniProt ID:	Q8K3F6
Cytogenetics:	15 29.16 cM
Gene Summary:	Associates with KCNQ2 or KCNQ5 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]