

Product datasheet for **MC222717**

Kcnq5 (NM_023872) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq5 (NM_023872) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq5
Synonyms:	7730402H11; 9230107O05Rik; AA589396; D1Mgi1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222717 representing NM_023872
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCCACCACGCGGGAGGAGAGGGCGGTGCCGCGGGCTCTGGTGAGGAGCGCGCGCGG
 CGGCGGCAGGCGCGGGTGGGGGCGCCCGGCAGCGGCATGAAGGATGTGGAGTCCGGCCGCGCAGGGT
 GCTGCTGAACTCGGCGCGCCAGGGGCGACGGCTGCTGTTGCTCGGCACCCGCGCGCGCGCTCGGC
 GGAGGCGCGCGGCTTGAGAGAGAGCCGCGGGGCAAGCAGGGGGCCGAATGAGCCTGCTGGGAAGC
 CGCTCTCTACACCAGCAGCCAGAGCTGTGCGCGCAACGTCAAGTACCGCGGGTGCAGAACTATCTGTA
 CAACGTGCTGGAGCGACCCGCGGCTGGGCGTTCGTCTACCACGCGTTCGTTTTCTCTGTGTTTGGT
 TGCTTGATTTTGTGAGTGTCTACCATCCCTGAGCATAAAAATTGGCTTCAAGTTCCTCTTAATTC
 TGGAGTTCGTGATGATCGTTGTCTTTGGCTTGGAGTTCATCATTCTGAATCTGGTCTGCAGTTGCTGTTG
 TCGTTATAGAGGATGGCAAGGAAGACTGAGGTTTCTCGAAAACCATTTCTGTGTAATAGATACCATTTGT
 CTCATCGCTTCAATAGCAGTTGTCTCTGCAAAAACCTCAGGTAATATTTTCGCCACGTACGCGCTCAGAA
 GTCTCCGGTTCCTACAGATCCTGCGTATGGTGCAGTGGACAGAAAGGGGAGGACCTGGAAGCTGCTCGG
 CTCTGTGGTTTATGCTCACAGCAAGGAATTAATCACAGCCTGGTACATTGGATTTCTGGTCTTATTTTT
 TCATCCTTCTTGTCTATCTTGTGAAAAGGATGCCAATAAAGAGTTTTTCGACATATGCGGATGCTCTCT
 GGTGGGCGACAATCACACTGACAACATTGGCTATGGAGACAAAACCCCTAACGTGGCTGGGAAGACT
 GCTCTCTGCAGGCTTCGACTCCTTGGCATTCTTTCTTTGCACTTCTGCTGGCATTCTTGGCTCAGGT
 TTTGCCATTAAGTACAGGAGCAGCACCGCCAGAAGCATTGAGAAAAGAAGGAACCCAGCTGCCAACCC
 TCATGCAGTGTCTGGCGTAGTTATGCAGCTGATGAAAAATCTGTTTCCATTGCAACCTGGAAGCCACA
 TCTGAAGGCCTTGCACACCTGCAGCCCTACCAAGAAAAGAACAAGGGGAGGCATCAAGCAGTCAAGAGCTG
 AGCTTTAAGGAGCGAGTGCAGTGGCTAGCCAAAGGGCCAGAGCATTAAAGAGCAGACAAGCATCAGTAG
 GTGACAGGAGATCCCGAGCACTGACATCACTGCCAGGGCAGCCCAACAAAGTCCAGAAGAGTTGGAG
 CTTCAACGACCGAACCCGCTTCAAGCCCTCACTACGGCTCAAGAGTTCAGCCAAAGCCAGTATAGAC
 GCCGACACAGCCCTTGGCATTGATGATGTATGATGAGAAAGGATGCCAGTGTGACGTCTCTGTGGAGG
 ACCTCACCCACCCTTAAAACCGTATCCGAGCAATCAGAATTATGAAGTTTCACTGTTGCAAGCGGAA
 GTTTAAGGAAACATTACGCCATATGATGTAAGATGTCATTGAACAATACTCTGCTGGTCACTGGAC
 ATGCTTTGTAGAATAAAAAGCCTTCAGACACGCGTTGATCAAATCTTGGAAAAGGACAAATGACGTGAG
 ATAAGAAGAGCCGAGAGAAAATAACAGCAGAACACGAGACAACAGATGACCCAGCATGCTCGCCCGGGT
 TGTGAAGTTGAGAAACAGTCCAGTCCATCGAATCAAAGCTGGACTGCCTGCTGGATATCTATCAACAG
 GTCCTCCGAAAAGGCTCTGCCTCCGCCCTCACTCTGGCATCCTTTAGATCCCGCCTTTTGAATGTGAAC
 AGACCTCTGACTATCAAAGTCTGTGGATAGCAAAGACCTGTCTGGCTCAGCACAAAACAGCGGCTGTTT
 AACGAGGTCAGCCAGTGCCAACATCTCAAGAGGCTGCAGTTCATCCTAACACCAATGAGTTCAAGTCT
 CAGACTTTCTATGCGCTTAGCCCTACTATGCACAGCCAAGTACCCAGGTACCCATGAGTCAAAATGACG
 GCTCCTCCGTGGTAGCCACCAATAACATTGCAAACCAATAAGCGCCGACCCAAAGCCAGCAGCCCAAC
 AACTTTACAGATCCCTCCTCTCTCGCCATCAAGCACTTGTCCAGGCCAGAACCTCTGCTCTCAAAC
 CCCACCGCTTACAAGAGAGATTTCTGATGTCAACACCTGCCTTGTTCCTCCAAGGAAAGTGTTCAGT
 TTGCACAGTCAAACCTGACCAAGGACCGTTCCCTGAGGAAAAGTTTCGACATGGGAGGAGAACTCTGTT
 GTCTGTCCGCCCATGGTGCCCAAGGATTTGGGCAAACTCTGTCTGTACAAAACCTGATCAGGTCGACA
 GAAGAAGTGAACCTACAGTTTTTCAGGCAGCGAGTCAAGCGGCTCTCGAGGCAGTCAAGATTTTTATCCCA
 AGTGGAGAGAATCCAAATGTTTATAACTGATGAGGAGGTCGGTGCCGAAGAGACAGAAACAGATACTTT
 TGACGGCACCCACCGCTGCGGGGAGGCTGCTTTCTCATCAGACTCTTAAGGACTGGAAGGTCACGG
 TCATCTCAGAACATTTGTAAGACAGGAGACAGTACAGACGCCCTCAGTTTGCCTCAGTCAAACCTGAACT
 AA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN:	NM_023872
Insert Size:	2802 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_023872.3 , NP_076361.1
RefSeq Size:	6935 bp
RefSeq ORF:	2802 bp
Locus ID:	226922
UniProt ID:	Q9JK45
Cytogenetics:	1 A4
Gene Summary:	<p>Associates with KCNQ3 to form a potassium channel which contributes to M-type current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons. Therefore, it is important in the regulation of neuronal excitability. May contribute, with other potassium channels, to the molecular diversity of a heterogeneous population of M-channels, varying in kinetic and pharmacological properties, which underlie this physiologically important current. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) omits an in-frame coding exon, compared to variant 1, resulting in a shorter protein (isoform 2).</p>