

## Product datasheet for **MC222805**

### **Kcnq5 (NM\_001160139) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnq5 (NM_001160139) 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:** >MC222805 representing NM\_001160139  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCGCCACCACGCGGGAGGAGAGGGCGGTGCCGCGGGCTCTGGGTGAGGAGCGCGCGCGG  
 CGGCGGCAGGCGCGGGTGGGGGCGCCCGGCAGCGGCATGAAGGATGTGGAGTCCGGCCGCGCAGGGT  
 GCTGCTGAACTCGGCGGCCAGGGGCGACGGCTGCTGTTGCTCGGCACCCGCGCGCGCGCTCGGC  
 GGAGGCGCGCGGCTTGAGAGAGAGCCGCGGGGCAAGCAGGGGGCCGAATGAGCCTGCTGGGAAGC  
 CGCTCTCTACACCAGCAGCCAGAGCTGTGCGCGCAACGTCAAGTACCGCGGGTGCAGAACTATCTGTA  
 CAACGTGCTGGAGCGACCCGCGGCTGGGCGTTCGTCTACCACGCGTTCGTTTTCTCTGTGTTTGGT  
 TGCTTGATTTTGTGAGTGTCTTACCATCCCTGAGCATAAAAATTGGCTTCAAGTTCCTCTTAATTC  
 TGGAGTTCGTGATGATCGTTGTCTTTGGCTTGGAGTTCATCATTGCAATCTGGTCTGCAGTTGCTGTTG  
 TCGTTATAGAGGATGGCAAGGAAGACTGAGTTTGTCTGAAAACCAATTCGTGTAATAGATAACATTGTT  
 CTCATCGCTTCAATAGCAGTTGTCTCTGCAAAAACCTCAGGTAATATTTTCGCCACGTACGCGCTCAGAA  
 GTCTCCGGTTCCTACAGATCCTGCGTATGGTGCAGTGGACAGAAAGGGGAGGACCTGGAAGCTGCTCGG  
 CTCTGTGGTTTATGCTCACAGCAAGGAATTAATCACAGCCTGGTACATTGGATTTCTGGTCTTATTTTT  
 TCATCCTTCTTGTCTATCTTGTGAAAAGGATGCCAATAAAGAGTTTTCGCATATGCGGATGCTCTCT  
 GGTGGGCGACAATCACACTGACAACATTGGCTATGGAGACAAAACCCCTAACGTGGCTGGAAAGACT  
 GCTCTCTGCAGGCTTCGACTCCTTGGCATTCTTTCTTTGCACTTCTGCTGGCATTCTGGCTCAGGT  
 TTTGCCATAAAAGTACAGGAGCAGCACCGCCAGAAGCATTGAGAAAAGAAGGAACCCAGCTGCCAAC  
 TCATCAGTGTGTCTGGCGTAGTTATGCAGCTGATGAAAAATCTGTTTCCATTGCAACCTGGAAGCCACA  
 TCTGAAGGCCTTGCACACCTGCAGCCCTACCAAGAAAACAAGGGGAGGCATCAAGCAGTAAGTTCTGT  
 AGTAATAAGCAGAAGTTCTCAGAGTGTACACCTCACGGAAGCAGAGTCAGAAGCTGAGCTTTAAGGAGC  
 GAGTGCAGTGGCTAGCCCAAGGGGCCAGAGCATTAAAGAGCAGACAAGCATCAGTAGGTGACAGGAGATC  
 CCCGAGCACTGACATCACTGCCGAGGCGAGCCCAAAAGTCCAGAAGAGTTGGAGCTTCAACGACCGA  
 ACCCGCTTCAGGCCCTCACTACGGCTCAAGAGTCCCAGCCAAAGCCAGTATAGACGCCGACACAGCCC  
 TTGGCATTGATGATGTGATGATGAGAAAGGATGCCAGTGTGACGTCTCTGTGGAGGACCTACCCACC  
 ACTTAAAACCGTCATCCGAGCAATCAGAATTATGAAGTTTCATGTTGCAAAGCGGAAGTTTAAAGAAACA  
 TTACGCCCATATGATGTAAGATGTCATTGAACAATACTCTGCTGGTCACTGGACATGCTTTGTAGAA  
 TAAAAAGCCTTACAGACGCGTTGATCAAATCTTGGAAAAGGACAAATGACGTGAGATAAGAAAGAGCCG  
 AGAGAAAATAACAGCAGAACACGAGACAACAGATGACCCAGCATGCTCGCCCGGTTGTGAAGTTGAG  
 AAACAGGTCCAGTCCATCGAATCCAAGCTGGACTGCCTGCTGGATATCTATCAACAGGTCTCCGGAAAAG  
 GCTCTGCCTCCGCCCTCACTCTGGCATCCTTTCAGATCCCGCCTTTTGAATGTGAACAGACCTCTGACTA  
 TCAAAGTCTGTGGATAGCAAAGACCTGTCTGGCTCAGCACAAAACAGCGGCTGTTTAAAGAGGTCAGCC  
 AGTGCCAAACATCTAAGAGGCCTGCAGTTCATCCTAACACCAATGAGTTCAGTGTCTCAGACTTCTATG  
 CGTTAGCCCTACTATGCACAGCCAAGTACCCAGTACCCATGAGTCAAAATGACGGCTCCTCCGTGGT  
 AGCCACCAATAACATTGCAAACCAATAAAGCGCCGACCCAAGCCAGCAGCCCAACAACCTTACAGATC  
 CCTCCTCTCTCGGCCATCAAGCACTTGTCCAGGCCAGAACCCTGCTCTCAAACCCACCGGTTAC  
 AAGAGAGTATTTCTGATGTCACCACCTGCCTTGTGCCTCCAAGGAAAGTGTTCAGTTTGCACAGTCAAA  
 CCTGACCAAGGACCGTCCCTGAGGAAAAGTTTCGACATGGGAGGAGAAACTCTGTTGTCTGTCCGCCCC  
 ATGGTGCCCAAGGATTTGGGCAATCTCTGTCTGTACAAAACCTGATCAGGTGACAGAGAAGAACTGAACT  
 TACAGTTTTTACGGCAGGAGTCAAGCGGCTCTCGAGGCAAGTCAAGATTTTATCCCAAGTGGAGAGAATC  
 CAAATTGTTTATAACTGATGAGGAGTCCGTGCCGAAGAGACAGAAAACAGATACTTTTGACGGCACCCCA  
 CCGCTCGGGGGAGGCTGCTTCTCATCAGACTCTTAAGGACTGGAAGGTACGGTCACTCTCAGAACA  
 TTTGTAAGACAGGAGACAGTACAGACGCCCTCAGTTTGCCTCACGTCAAACCTGAAC**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

<b>ACCN:</b>	NM_001160139
<b>Insert Size:</b>	2859 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001160139.1</a></u> , <u><a href="#">NP_001153611.1</a></u>
<b>RefSeq Size:</b>	6992 bp
<b>RefSeq ORF:</b>	2859 bp
<b>Locus ID:</b>	226922
<b>Cytogenetics:</b>	1 A4
<b>Gene Summary:</b>	<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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform 1).</p>