

## Product datasheet for **MC206392**

### **Kcna5 (BC021787) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcna5 (BC021787) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcna5
Synonyms:	MGC25248, Kv1.5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021787  
 GAGAGAGGCAGGGAGCAGGGGCAGCAGCTTCTTGACGTACAGGACCAGCCAAGGGGATCCAGCCAGCTACC  
 CCAGCCAGCCTAGAGCCAGCGGGGGCCCTCGGCTGAAGAGGAAACCGCGAGGCGCGGAGCGTGAGTTGGG  
 GTGTGGGAACCGGTTGTCTGGGGGCGCAGCATGCCCTTGCCCCGGGCCATGGAGATCTCCCTGGTGCC  
 CATGGAGAACGGCAGTGCCATGACCCTCAGAGGAGGAGGGGAGGCAGGGGCAAGCTGTGTGCAGAGCCCC  
 AGGGGAGAGTGTGGTGCCCTCCGACGGCTGGACTCAATAATCAGTCAAAGAAACATCACCGAGGAGGC  
 GCGCCACACACGAGGATCGGGCCAGGGTGGGAGGCCTTTGCCCTATGCCTCAGGAGCTGCCACAGCG  
 TAGAAGGCCATCTGCTGAGGATGAGGAGGAGAAGGCGACCCTGGCCCTGGGCACAGTGGAGGAGACCAG  
 GCTCCTCAGGACTCAGGATCACTCCATCACCAGCGGGTCTCATAAACATCTCGGGTTTGCCTTTGAGA  
 CGCAGCTGGGCACCCTGGCGCAGTTTCCCAACACCCTCCTGGGGACCCAGTCAAACGCCTGCGCTACTT  
 CGATCCCTTGAGAAATGAGTACTTCTCGACCGCAACCGGCTAGCTTCGATGGCATTGTGACTACTAC  
 CAGTCTGGGGGCCGCTGCGCAGGCCGGTCAATGTCTCCCTGGATGTGTTTGCAGATGAGATCCGCTTTT  
 ACCAGCTGGGGGACGAGGCCATGGAGCGCTTCCGGGAGGATGAAGGCTTCATCAAGGAAGAGGAGAAGCC  
 CCTGCCCGCAATGAGTCCAGCGCCAGGTGTGGCTTATCTTGAATACCCAGAAAGCTCTGGGTACGA  
 AGAGCCATTGCCATCGTGTGGTCTTGGTCACTCATCTATCATCACCTTCTGCTTGGAGACTGCG  
 CTGAGTTCAGGGATGAACGGGAGCTGTTACGCCACCCCCAGTGC CGCCGAGCCCCAGCCCCGCCCC  
 AGGGGCAATGGCAGTGGCTCTGGTGTCTTCTCTGGCCCCACAGTGGCTCCGCTCCTGCCTAGGACA  
 CTGGCTGACCCATTCTTCATCGTGGAGACCACATGTGTGATCTGGTTCACTTTTGAGCTGCTTGTGCGTT  
 TCTTTGCTTGCCCCAGCAAGGCAGAATTCTCTCGGAATATTATGAACATCATTGATATTGTGGCCATCTT  
 CCCCTACTTTATCACCTGGGCACCGAGCTGGCAGAGCAACAACCGGGGTGGTGGTCAGAATGGGCAG  
 CAGGCCATGTCCCTAGCCATCCTCAGGGTATCCGCTGGTCCGGGTGTTCCGAATCTTCAAGCTCTCC  
 GCCATCCAAGGGACTGCAGATCCTGGTAAGACCTTACAGGCGTCCATCGGGGAGCTCGGGTGCAT  
 TTCTTCTCTTTCATCGGAGTCACTCTTCTCCAGCGTGTCTACTTGCAGAGGCAGACAATCAGGGG  
 TCGCACTTCTCCAGTATCCCGGATGCATTCTGGTGGGCAGTAGTCACTATGACCACTGTAGGCTACGGGG  
 ACATGAGGCCATCACTGTAGGGGGCAAGATTGTGGGCTCACTGTGCGCCATAGCTGGGGTCTCACCAT  
 TGCTCTGCCTGTGCCGTATCGTCTCCAATTTAATTACTTCTATCATCGGGAGACAGACCACGAGGAG  
 CAGGCTGCCCTGAAGGAAGAGCAAGGCATCCAGAGGCGGGAGTCTGGGCTGGACACAGGAGGTCAACGGA  
 AGGTGAGTGCAGCAAGGCCTCCTTCTGCAAGACTGGGGGACCCCTGGAGAGTACTGACAGTATCAGAAG  
 GGGTAGCTGTCTCTAGAAAAGTGTACCTAAAGGCCAAGAGCAACGTGGACCTGCGAAGGTCTCTGTAT  
 GCCCTCTGTCTGGACACTAGCCGGGAAACAGATTTGTAAGAGAGATCAAGGCAGACTTGAACAGCAGA  
 GCTGGGAACCGGTTCTCTTGTAGCTTGTATCTGCTTTACCCATAGAGTATTTAAGCCACCTGGTCA  
 CCCATCAAAGTCCGGATCCTGTCTTCCCGTTTACCCTTCCACCCCTCCTGCCCTCTAACTTCCCATC  
 CCCCCCTTTCCATAACACCAAGGGTACCTATTTTTAAAAAGTATCGCATTCCATGACGCAGGAGCCG  
 TTGAAGTGGTGAGCATTCACTGTAAGATGGATGTATTCATAGCCAGTTTTCTATACCCAGCAGAGGGATA  
 ACTCAAACAAAATTGACTTTAAATAGCTCAGATCCCAAGAGATCCATAGCCCTCTCTATTCTGTGTTT  
 CAAATTTACTTTACAGTGATTATTTGTATATGGCAAATATTCTTATGGCTGACGAGTGCATTTT  
 GTACAGCAGTGCACATGAAGAATATTTGGGTGTGTTCTTAAGATGTACTTTGAATTATGAAGTCTTGGG  
 GGGGTCACTTTCTGGGACAACCCAGGGGCAGAGACTAAAGAAGTTGTTCAAGTTTGTGTTCCCAA  
 GCCTCCCATTTCTGGGATGACTATTGGTGTCTTGTGTCTAAGGTAGAGAATGTTCTAGAAGAGCAGC  
 AAACCTGCTTTTTTTTTTTTATTCCCTTAAACATATCCTGTGACTTTCTTACAGAAGCATTTTAAGGAT  
 GTTGAAGAAGGCTTTTGAATTCATTCTTTTATTTTATTTGATAGCAGAAATAAAATGTGACTCTGTGCG  
 GCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** BC021787  
**Insert Size:** 1809 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>	<a href="#">BC021787</a> , <a href="#">AAH21787</a>
<b>RefSeq Size:</b>	2831 bp
<b>RefSeq ORF:</b>	1809 bp
<b>Locus ID:</b>	16493
<b>Cytogenetics:</b>	6 61.35 cM
<b>Gene Summary:</b>	Voltage-gated potassium channel that mediates transmembrane potassium transport in excitable membranes. Forms tetrameric potassium-selective channels through which potassium ions pass in accordance with their electrochemical gradient. The channel alternates between opened and closed conformations in response to the voltage difference across the membrane (PubMed:8226976, PubMed:11349004). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNA1, KCNA2, KCNA4, KCNA5, and possibly other family members as well; channel properties depend on the type of alpha subunits that are part of the channel (By similarity). Channel properties are modulated by cytoplasmic beta subunits that regulate the subcellular location of the alpha subunits and promote rapid inactivation (By similarity). Homotetrameric channels display rapid activation and slow inactivation (PubMed:8226976, PubMed:11349004). May play a role in regulating the secretion of insulin in normal pancreatic islets (By similarity).[UniProtKB/Swiss-Prot Function]