

## Product datasheet for **MC206129**

### **Kcnj9 (BC065161) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnj9 (BC065161) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj9
Synonyms:	Girk3, Kir3.3, mbGIRK3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC065161  
 CTCAGGGGGGAAGAATTTGAAGCAAAACCAGACCCCGCAGGATCCCCGCTGCGGCCGCCATGGCGCAGGA  
 GAACGCCGCTTTCTCTCCCGGTTCGAGGAGCCGCCACGCCGCCGCGGTCCGACGCGCTACGTGGAGAAG  
 GACGGTCGCTGTAACGTGCAGCAGGGCAACGTCCGCGAGACCTACCGCTACCTGACCGACCTGTTACCA  
 CGCTGGTGGACCTGCAGTGGCGCCTCAGCCTGCTTTCTTCGTGCTCGCTACGCGCTCACTTGGCTCTT  
 CTTCCGGCCATCTGGTGGCTCATCGCTACGGCCGCGCGACCTGGAACACCTGGAGGACACCCGCTGG  
 ACCCGGTGCGTCAACAACCTCAACGGCTTCGTGGCCGCTTCTCTTCTCCATCGAGACGGAGACCACCA  
 TCGGCTATGGGCACCGGTTCATCACCGACAGTGTCCCGAGGGCATCGTGTGCTGCTGCTGAGGCTAT  
 CCTGGGCTCCATGGTGAACGCTTTCATGGTGGGCTGCATGTTTCGTCAAGATCTCGCAGCCCAACAAGCGC  
 GCCGCACTCTCGTCTTCTCCTCGCACGCCGTGGTGTCTCTGCGCGACGGGCGCCTCTGTCTCATGTTTC  
 GCGTGGGCGACCTGCGATCCTCGCACATCGTCGAGGCCTCCATCCGCGCCAAGCTCATCCGCTCCCGTCA  
 GACGCTCGAGGGCGAGTTCATCCCTTTCACCAGACCGACCTCAGCGTGGGCTTTGACACGGGGGACGAC  
 CGCCTCTTCTCGTCTCACCTCTCGTCATCAGCCACGAAATCGATGCCGCCAGCCCTTCTGGGAGGCAT  
 CGCGCCGCGCCCTCGAGAGGGACGACTTCGAGATCGTAGTCATTCTCGAGGGCATGGTGGAGGCCACGGG  
 AATGACGTGCCAAGCTCGAAGCTCGTACCTGGTGGATGAAGTGTGTGGGGCCACCGGTTACATCGGTG  
 CTACCCTGGAGGATGGTTTCTATGAGGTGGACTACGCCAGCTTCCACGAAACCTTTGAGGTGCCACAC  
 CCTCGTGCAGTGTCTGGGAACCTGGCAGAAGCCGCGGCCCGCTCGATGCCCATCTCTACTGGTCCATCCC  
 CAGCAGGCTGGATGAGAAGTGGAGGAAGAAGGGGCTGGGGAGGGGGCAGGTGCGGGAGATGGAGCTGAC  
 AAGGAGCAAAATGGTGCCTGCCACCCAGAGAGTGAAGTCCAAGGTGTGACTGGTTTCTCCACCCCC  
 TGTGGCAGACCAGGGGCGGACTCAGGTACACAGAAGCTGCGAGTGGAGGTGGAAGAAGAGGAGGCAGG  
 CAGTGTCCCGAGGAACAGCTAAAGTTGGGAGAGGCCCGCTGAGTCCAGGATCGAGTAGGGAAGGCTGAGG  
 TCCTGGTTTGAAGAGAGAGGGTTGCAGGGCGGGGTGAGAGAACGTGTAGTCTGTCTGTGTTGACCTTC  
 ACATCGGTTTCATGGTGGATGGATGGACAGAAGGATGGGCTCATGGGGTTGATCGGGAAGTGGGGCAG  
 ATAGAGACAGCCAATGGATAGCTCAGGTGGTAAGTGGCTTGACAGTCGATGATTGTCACCTGCAGCACAC  
 CTTTGTGAGAAATCCATGGGCATCCTTTTCTTCCAGATATAGGTAGCCTCAAACAGGGAGCGTGGCTTA  
 GGGAGCAGGCTGTGAGTGGACTACCATCCCCACTCACCTCCCCTCAACTGGCCTCCATATGTGTGACAC  
 GCCTGCCTAACTAGAGAAGAGAGCACTGGGTAGAGGTGGGCACAGGTGTGGGTGCCCTCCCAGCATCAC  
 TGTCCCATGGCGAGAGGTGAGAAAGGCAAAACAAGCAATGGGGGTAGATGCTGAGCAGGGAGGGGCCCTGA  
 AGCAGGACCTGGGGACAGCCAAGGACAACCTATTTTGTGAGAGAGGAATGAAACCTTGAGGTCTGCCAC  
 AGAAGCAAGAAGCAGAGGAAAGGCCATGGAGAGACTTAATAAAGGGTTTTACAAGGTACCTGGAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** BC065161

**Insert Size:** 1182 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:**

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:** [BC065161](#), [AAH65161](#)

**RefSeq Size:** 2060 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 16524

**Cytogenetics:** 1 79.66 cM

**Gene Summary:** This receptor is controlled by G proteins. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium.[UniProtKB/Swiss-Prot Function]