

## Product datasheet for MC208806

### Kcnj6 (NM\_001025590) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnj6 (NM\_001025590) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnj6  
**Synonyms:** BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC208806 representing NM\_001025590  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGACCAGGATGTGAAAGCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACC  
 TGCCGAGACACATCAGCCGAGACAGGACCAAAAGGAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTG  
 CAACGTTACCACGGCAATGTGCGGGAGACGTACCGATACCTGACGGACATCTTCACCACCCTGGTGGAC  
 CTGAAGTGGAGATTCAACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGA  
 TCTGGTGGCTGATTGCGTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTT  
 CACCAACCTCAACGGGTTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACCATCGTTATGGC  
 TACCGGTCATCACGGACAAGTGCCTGAGGGGATTATTCTCCTCTTAATCCAGTCCGTGTTGGGGTCCA  
 TTGTCAACGCCTTCATGGTAGGATGTATGTTTGTGAAAATATCCCAACCAAGAAGAGGGCAGAGACCCT  
 GGTCTTTTCCACCACGCGGTGATCTCCATGCGGGATGGGAACTGTGCTTGATGTTCCGGGTGGGGAC  
 TTGAGGAATTCTCACATTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAACAGACTTCAGAGG  
 GGGAGTTTATCCCTCAACCAGACTGATATCAACGTGGGGTACTACACAGGGGACGACCGGCTCTTTCT  
 GGTGTCAACATTGATTATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCCAAAGCGCAG  
 CTGCCTAAAGAGGAACTGGAGATTGTGGTCATCCTGGAGGGAATGGTGAAGCCACAGGGCAGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001025590  
**Insert Size:** 909 bp



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<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_001025590.1</a></u> , <u><a href="#">NP_001020761.1</a></u>
<b>RefSeq Size:</b>	3638 bp
<b>RefSeq ORF:</b>	909 bp
<b>Locus ID:</b>	16522
<b>UniProt ID:</b>	<u><a href="#">P48542</a></u>
<b>Cytogenetics:</b>	16 55.44 cM
<b>Gene Summary:</b>	This potassium channel is controlled by G proteins. It plays a role in granule cell differentiation, possibly via membrane hyperpolarization. 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]