

## Product datasheet for **MC208809**

### **Kcnj6 (NM\_001025584) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnj6 (NM\_001025584) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnj6  
**Synonyms:** BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208809 representing NM\_001025584  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACAATGGCCAAGTTAACTGAATCCATGACTAACGTCTTGAAGGCGATTCCATGGACCAGGATGTGG  
AAAGCCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACCTGCCGAGACACATCAG  
CCGAGACAGGACAAAAGGAAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTCAACGTTCCACCACGGC  
AATGTGCGGGAGACGTACCGATACCTGACGGACATCTTACCACCTGGTGGACCTGAAGTGGAGATTCA  
ACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGATCTGGTGGCTGATTGC  
GTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTGTCAACCACTCAACGGG  
TTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACATCGGTTATGGCTACCGGTTCATCACGG  
ACAAGTGCCTGAGGGGATTATTCTCCTCTTAATCCAGTCCGTGTTGGGGTCCATTGTCAACGCCTTCAT  
GGTAGGATGTATGTTTGTGAAAAATCCCAACCAAGAAGAGGGGACAGACCCCTGGTCTTTTCCACCCAC  
GCGGTGATCTCCATGCGGGATGGGAACTGTGCTTGTGTTCCGGTGGGGGACTTGAGGAATTCACA  
TTGTGGAGGCATCCATCAGACCAAGTTGATCAAGTCCAACAGACTTCAGAGGGGAGTTTATTTCCCT  
CAACCAGACTGATATCAACGTGGGTAACACAGGGGACGACCGCTCTTCTGGTGTCAACATTGATT  
ATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCAAAGCGCAGCTGCCTAAAGAGGAAC  
TGGAGATTGTGGTCATCCTGGAGGGAATGGTGAAGCCACAGGAATGACGTGCCAAGCCCGAAGCTCCTA  
CATCACCAGTGAATCTTGTGGGTTACCGGTTACACCTGTCTTAAACGTTGGAAGACGGGTTCTACGAA  
GTTGACTACAACAGTTCATGAGACCTATGAGACCAGCACCCCGTCCCTTAGTGCCAAAGAGCTAGCGG  
AGCTGGCTAACCGGCAGAGCTGCCTCTGAGTTGGTCTGTGTCCAGAACTGAACCAACATGCAGAATT  
GGAGACAGAAGAGGAAGAGAAGAACC CGGAAGA ACTGACGGAGAGGAATGGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001025584
<b>Insert Size:</b>	1245 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_001025584.2</a></u> , <u><a href="#">NP_001020755.1</a></u>
<b>RefSeq Size:</b>	2356 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	16522
<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]