

## Product datasheet for MC208802

### Kcnj11 (NM\_010602) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj11 (NM_010602) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj11
Synonyms:	Kir6.2; mBIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208802 representing NM_010602 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGCTGTCCCGAAAGGGCATTATCCCTGAGGAATATGTGCTGACCCGGCTGGCAGAGGACCCTGCAGAGC  
CCAGGTACCGTACTCGAGAGAGGAGGGCCCGCTTCGTGTCCAAGAAAGGCAACTGCAACGTCGCCACAA  
GAACATTCGAGAGCAGGGCCCGTTCCTGCAGGATGTGTTACACACGCTGGTGGACCTCAAATGGCCACAC  
ACTCTGCTCATTTTACCATGTCCTTCTGTGCAGCTGGCTGCTCTTTGCCATGGTCTGGTGGCTCATCG  
CCTTCGCCACGGTGACCTGGCCCCGGAGAGGGCACCAATGTGCCCTGCGTCACAAGCATCCACTCCTT  
TTCATCTGCCTTCCTTTTCTCCATCGAGGTCCAGGTGACCATTTGGTTTCGGCGGGCGCATGGTGACAGAG  
GAATGTCCCCTGGCCATCCTCATTCTCATTGTGCAGAATATCGTCGGGCTGATGATCAACGCCATCATGC  
TGGGCTGCATCTTCATGAAAACGGCCAGGCCCATCGCGGGCAGAAACCCTCATCTTCAGCAAGCATGC  
TGTGATCACCTGCGCCATGGCCGCTGTGCTTCATGCTGCGCGTAGGGGACCTCCGAAAGAGCATGATC  
ATTAGCGCCACCATCCACATGCAGGTGGTGCAGAACACCAGCCCCGAGGGCGAAGTTGTGCCTCTCC  
ACCAGGTAGACATCCCCATGGAGAATGGCGTGGTGGTAACGGCATCTTCCTGGTGGCCCCACTCATCAT  
CTACCACGTCATCGACTCCAACAGCCCGCTCTACGACCTGGCTCCTAGTGACCTGCACCACCACAGGAC  
CTGGAGATCATTGTCATCTTGAAGGCGTGGTAGAAACACGGGCATCACCACCCAGGCCCGCACCTCCT  
ACCTAGCTGACGAGATTCTATGGGGCAGCGCTTTGTCCCATTTGTGGCCGAGGAGGACGGCCGCTATTCT  
TGTGGACTACTCAAATTTGGTAACACCATTAAGTGCCACACCACTCTGCACAGCCCGCCAGCTTGAT  
GAGGACCGCAGTCTGCTGGATGCCCTGACCCTCGCTCGCGGGGGCCCTGCGCAAGCGCAGTGTGG  
CTGTGGCGAAGGCCAAGCCCAAGTTTAGCATCTCTCCAGATTCCTTGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_010602
<b>Insert Size:</b>	1173 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_010602.3</a> , <a href="#">NP_034732.1</a>
<b>RefSeq Size:</b>	3115 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	16514
<b>UniProt ID:</b>	<a href="#">Q61743</a>
<b>Cytogenetics:</b>	7 29.66 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. Can be blocked by extracellular barium. Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).