

## Product datasheet for MC215531

### Kcnj13 (NM\_001110227) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj13 (NM_001110227) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj13
Synonyms:	100040591
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC215531 representing NM_001110227 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGCAGTAATTGTAAGTGAATGCTCCTCTCCTGAGTCAAAGACACCGGAGGATGGTCACAAAAG  
ACGGCCACAGCACACTTCAGATGGATGGTCTCAAAGGGCCCTTGTGTATCTCCGAGATGCATGGGAAT  
CCTAATGGACATGCGCTGGCGCTGGATGATGCTGGTCTTTCTGCTTCTTTGTTGCCACTGGCTTGTC  
TTTGCAGTCTCTGGTATGCTGTAGCTGAGATGAATGGTATCTGGAAATAGACCACGACGTCCACCTG  
AAAACCACACTATCTGTGTGAAGCACATACCAGCTTCACAGCTGCATTCTCCTTCTCTCTGGAGACACA  
ACTTACAATTGGTTATGGTACCATGTTTCCAGTGGTACTGTCCAAGTGAATCGCCTTACTTGCCATA  
CAAATGCTCCTAGGCCTCATGCTAGAGGCTTTTATCACAGGTGCCCTTGTGGCGAAGATTGCACGGCCAA  
AAAATAGAGCTTTCTCAATTCGATTCACTGACTTAGCAGTTGTAGCTCACAAAGATGGCAAACCTAATCT  
TATCTTCCAAGTGGCCAAACCCGGCCAGCCCTGACCAACGTTTCGTGTCTGCTGTACTCTATCAG  
GAAAGAGAAAAATGGTGAACCTTACCAGACCAGTGTGGACTTCCACCTTGATGGCATCAGTTCTGAGGAAT  
GTCCATTCTTCATCTTCCCGCTAACCTATTACCATACTATCTCACCATCAAGTCTCTAGCTACCCCTGCT  
CCAACATGAGACTCCTCCACACTTTGAATTAGTTGTGTTCCCTCTCAGCAATGCAAGAAGGCACTGGGGAA  
ATCTGCCAAAGGAGGACATCCTACCTGCCCTCTGAGATCATGTTACATCACCGATTTGCAGCTCTAATGA  
CTCGAGGTTCCAAGGTGAGTATCAAGTCAAGATGGAGAATTTTGACAAGACTGTTCTGAACATCCAAC  
ACCTGTGGTCTCTAAGAGTCCACACAGGACTGACCTAGATATTATCAATGGACAAAGCATTGACAAT  
TCCAGATTGCTGAAACAGGGCTGACAGAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul



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<b>ACCN:</b>	NM_001110227
<b>Insert Size:</b>	1083 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_001110227.2</a> , <a href="#">NP_001103697.1</a>
<b>RefSeq Size:</b>	3056 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	100040591
<b>UniProt ID:</b>	<a href="#">P86046</a>
<b>Cytogenetics:</b>	1
<b>Gene Summary:</b>	<p>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. KCNJ13 has a very low single channel conductance, low sensitivity to block by external barium and cesium, and no dependence of its inward rectification properties on the internal blocking particle magnesium (By similarity).[UniProtKB/Swiss-Prot Function]</p>