

## Product datasheet for **RN208941**

### **Kcnj2 (NM\_017296) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnj2 (NM_017296) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj2
Synonyms:	Kir2.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN208941 representing NM\_017296  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCAGTGTGAGAACCAACCGCTACAGCATCGTCTCTTCGGAGGAAGACGGCATGAAGCTGGCCACCA  
 TGGCCGTCGCAATGGCTTTGGGAATGGCAAGAGTAAAGTCCATACCCGACAACAGTGCAGGAGCCGCTT  
 TGTGAAGAAAGACGGGCATTGCAACGTTCAAGTTTATCAACGTGGGAGAGAAGGACAGAGGTACCTGGCG  
 GACATCTTTACTACCTGTGTGGACATCCGCTGGCGGTGGATGCTGGTAATCTTCTGCCTCGCATTCTGTC  
 TCTCTGGCTGTTCTTTGGCTGTGTGTTTTGGTTGATAGCTCTGCTCCACGGGGATCTGGATGCTTCTAA  
 AGAGAGCAAAGCGTGTGTCTGAGGTCAACAGCTTACGGCTGCCTTCTCTTCTCCATTGAGACCCAG  
 ACAACCATCGGCTATGGTTTCAGGTGTGTACAGACGAGTGCCCGATTGCTGTTTTCATGGTGGTATTCC  
 AGTCAATCGTGGCTGCATCATCGACGCCCTTTCATTGGTGCAGTCATGGCGAAGATGGCGAAGCCAAA  
 GAAGAGGAATGAGACTCTGGTCTTCAGCCACAACGCTGTGATTGCCATGAGGGACGGCAAACCTCTGCTTG  
 ATGTGGAGAGTGGCAACCTTCGCAAGAGCCACCTTGTGGAAGCTCATGTCCGGGCACAGCTTCTCAAAT  
 CTAGGATCACTTCAGAAGGGGAGTACATCCCTTGGACCAGATAGACATCAACGTTGGTTTTCGATAGCGG  
 AATCGACCGTATATTTCTAGTGTCCCAATCACTATTGTCATGAAATAGACGAAGACAGCCCTTTGTAT  
 GACTTGAGTAAGCAGGACATTGACAATGCAGACTTTGAAATCGTTGTCATCCTGGAAGGCATGGTGGAGG  
 CCACTGCCATGACAACGCAATGCCGGAGTTCATATCTGGCCAATGAGATTCTCTGGGGTCAACCGTACGA  
 GCCGGTGTCTTTGAAGAGAAGCATTGCTATAAAGTAGACTATTCAAGATTCCATAAGACTTACGAAGTA  
 CCTAACACTCCCCTTTGTAGTCCAGAGACTTAGCAGAGAAGAAATACATCCTCTCAAATGCAAATTCAT  
 TTTGCTATGAAAATGAAGTTGCCCTAACAAAGCAAAGAGGAAGAGGACAGTGAGAACGGAGTCCAGAGAG  
 CACAAGTACGGACTCACCTCCTGGCATAGATCTCCACAACCGGGAGCGTGCCTCTAGAGCCAGCGCT  
 TTAAGGCGAGAATCGGAGAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1303\\_d02.zip](https://cdn.origene.com/chromatograms/ja1303_d02.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_017296

**Insert Size:** 1284 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

<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_017296.1</a></u> , <u><a href="#">NP_058992.1</a></u>
<b>RefSeq Size:</b>	1284 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	29712
<b>UniProt ID:</b>	<u><a href="#">Q64273</a></u>
<b>Cytogenetics:</b>	10q32.1
<b>Gene Summary:</b>	inwardly-rectifying potassium channel; involved in membrane polarization [RGD, Feb 2006]