

## Product datasheet for **SC123920**

### **KCNJ1 (NM\_000220) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ1 (NM_000220) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ1
Synonyms:	KIR1.1; ROMK; ROMK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000220, the custom clone sequence may differ by one or more nucleotides

```
ATGAATGCTTCCAGTCGGAATGTGTTTGACACGTTGATCAGGGTGTGACAGAAAGTATGTTCAAACATC
TTCGGAATGGTTCGTCCTCGCTTTTTGGGCATTCTCGGCAAAGAGCAAGGCTAGTCTCAAAGATGG
AAGGTGCAACATAGAATTTGGCAATGTGGAGGCACAGTCAAGGTTTATATTCTTTGTGGACATCTGGACA
ACGGTACTTGACCTCAAGTGGAGATACAAAATGACCATTTTCATCACAGCCTTCTGGGGAGTTGGTTTT
TCTTTGGTCTCCTGTGGTATGCAGTAGCGTACATTCACAAAGACCTCCCGGAATCCATCCTTCTGCCAA
TCACACTCCCTGTGTGGAGAATATTAATGGCTTGACCTCAGCTTTTCTGTTTTCTCTGGAGACTCAAGTG
ACCATTGGATATGGATTCAGGTGTGTGACAGAACAGTGTGCCACTGCCATTTTTCTGCTTATCTTTTCAGT
CTATACTTGGAGTTATAATCAATTTCTTTTCATGTGTGGGGCCATCTTAGCCAAGATCTCCAGGCCAAAAA
ACGTGCCAAGACCATTACGTTTCAGCAAGAACGCAGTGATCAGCAAACGGGGAGGGGAAAGCTTTGCCTCCTA
ATCCGAGTGGCTAATCTCAGGAAGAGCCTTCTTATTGGCAGTCACATTTATGAAAAGCTTCTGAAGACCA
CAGTCACTCCTGAAGGAGAGACCATTATTTGGACCAGATCAATATCAACTTTGTAGTTGACGCTGGGAA
TGAAAATTTATCTTTCATCTCCCATTTGACAATTTACCATGTCATTGATCACAACAGCCCTTTCTCCAC
ATGGCAGCGGAGACCCTTCTCCAGCAGGACTTTGAATAGTGGTGTGTTTTAGATGGCACAGTGGAGTCCA
CCAGTGTACTGCCAAGTCCGGACATCCTATGTCCAGAGGAGGTGCTTTGGGGCTACCGTTTTGCTCC
CATAGTATCCAAGACAAAGGAAGGAAATACCGAGTGGATTTCCATAACTTTAGCAAGACAGTGGAAAGTG
GAGACCCCTCACTGTGCCATGTGCCTTTATAATGAGAAAAGATGTTAGACCAGGATGAAGAGAGGGCTATG
ACAACCCCAACTTCATCTTGTGAGAAGTCAATGAAACAGATGACACCAAATGTAA
```

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja2099_g12.zip">https://cdn.origene.com/chromatograms/ja2099_g12.zip</a>
Restriction Sites:	Please inquire
ACCN:	NM_000220



[View online »](#)

<b>Insert Size:</b>	2200 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>RefSeq:</b>	<a href="#">NM_000220.2</a> , <a href="#">NP_000211.1</a>
<b>RefSeq Size:</b>	2332 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	3758
<b>UniProt ID:</b>	<a href="#">P48048</a>
<b>Cytogenetics:</b>	11q24.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	<p>Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1, also known as rom-k1) encodes the longest isoform (a).</p>