

## Product datasheet for **SC119590**

### **KCNJ5 (NM\_000890) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNJ5 (NM_000890) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ5
Synonyms:	CIR; GIRK4; KATP1; KIR3.4; LQT13
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000890 edited  
 GAATTCGGCACGAGGGAGAGGTTCCAGCTACAGCTCCTCCGTGGGGTCATGGCAGGGGCTGGGGAGTCCC  
 CTCAAAAGCCCTGAGCCCCCTGCACCCGCGCTAAGGGACACCCAGAAGTTAGCATCAGTGGGACTCGG  
 AAGCTCCGATCTCAACAACATCCAGCTATGGCTGGCGATTCTAGGAATGCCATGAACCAGGACATGGAG  
 ATTGGAGTCACTCCCTGGGACCCCAAGAAGATTCCAAAACAGGCCGCGATTATGTCCTTCCACAG  
 ACCGTACGCGCCTGCTGGCCGAGGGCAAGAAGCCACGCCAGCGCTACATGGAGAAGAGCGGCAAGTGCAA  
 TGTGCACCACGGCAACGTCAGGAGACCTACCGGTACCTGAGTGACCTCTTCCACCCTGGTGGACCTC  
 AAGTGGCGCTTCAACTTGTCTCGTCTTACCATGGTTTACACTGTCACTGGCTGTTCTTCGGCTTCAATT  
 GGTGGCTCATTGCTTATATCCGGGGTGACCTGGACCATGTTGGCGACCAAGAGTGGATTCTTGTGTGA  
 AAACCTCAGTGGCTTCGTGTCCGCTTCTCCTGTTCTCCATTGAGACCGAAACAACCATTGGGTATGGCTTC  
 CGAGTCATCACAGAGAAGTGTCCAGAGGGGATTACTCCTCTTGGTCCAGGCCATCCTGGGCTCCATCG  
 TCAATGCCTTCATGGTGGGGTGCATGTTTGTCAAGATCAGCCAGCCCAAGAAGAGAGCGGAGACCCTCAT  
 GTTTTCCAACAACGCAGTCATCTCCATGCGGGACGAGAAGCTGTGCCTCATGTTCCGGGTGGGCGACCTC  
 CGCAACTCCACATCGTGGAGGCCTCCATCCGGGCCAAGCTCATCAAGTCCCGGCAGACCAAGAGGGGG  
 AGTTCATCCCCCTGAACCAGACAGACATCAACGTGGGCTTGGACCGGGGACGACCGCCTCTTCTGGT  
 GTCCTCTGATCATCTCCATGAGATCAACCAGAAGAGCCCTTCTGGGAGATGTCTCAGGCTCAGCTG  
 CATCAGGAAGAGTTTGAAGTTGTGGTCATTCTAGAAGGGATGGTGAAGCCACAGGCATGACCTGCCAAG  
 CCCGGAGCTCCTACATGGATACAGAGGTGCTCTGGGGCCACCGATTACACACAGTCCCTCACCTTGGAAAA  
 GGGCTTCTATGAGGTGGACTACAACACCTTCCATGATACCTATGAGACCAACACACCCAGCTGCTGTGCC  
 AAGGAGCTGGCAGAAATGAAGAGGGAAGGCCGGCTCCTCCAGTACCTCCCAGCCCCCACTGCTGGGGG  
 GCTGTGCTGAGGCAGGGCTGGATGCAGAGGCTGAGCAGAATGAAGAAGATGAGCCCAAGGGGCTGGTGG  
 GTCCAGGGAGGCCAGGGGCTCGGTGTGAGGGGTGACGCTCCCTAAGACCTCTGTCACTGGCTTCAGTG  
 AACACAGACACTGCAGAGCCTGGGAGCAGGGGAGGGGAATAGTTGAGTGTGCTGTTTGGGGGCTCAGGAG  
 CCATCAAGGCTGTGGGGAGGAACCATAAACCCAGCCCTCACAGCTCCAGCACAGGGCCTCCCTGAGCCA  
 GTGGCATCCTGCCTGGGCCCCCATGGCAGTGCCTCTTGTAGGTGCTGGCTAAGGGCCAGGCCAGGA  
 TGAGTTTCCCATGGTGAATGTTACCGGATGGCATCTGTTCTCTCCATGCCCTGGGTCACTTCTTTTTT  
 GGGTCTCACAGACCCCTCCAGGGGCTGACACCTAGAGAGAACCATCACCTTGTCCCTATTCTTCCACC  
 CTGAGGCTTGTGTGGACTCAGAGAGGAGACTTACCTGATGAGAGCTCAAACCTTAGTCTGGGATGAGC  
 TCACAGAGCCCTCATGAGTTAAGATCCATCCATATCACATAGGCAATCCTTTTAAATCAGATACCAACG  
 ACCCATTACTGAGAGGTACAGAGCGTACAGCCCTTGGTGTCTCTGCTGTTATCTGCCAAATGTGTGTGT  
 TTTTCTCTGCTGTGTTCTGTGTGCCAGTGTAGCCTATTGGAGAATCGGTCTCATTAGAGTGACTCTTA  
 GAAGGTGGCCTGGGACTAGACAGCCCTCTGAGCACATGCATAGTGGCATCAGCAGCTTCTGGCCTACT  
 CCCAATCACACTGTGCCCTGCACCTCCCACCAAGGGGAAACCCAGCAGCTGGGGCTTTTCGAGTGCTTT  
 TTGGCCCAAGAATCTCAGAGTGCTTCTAATCATCACAGTAGTTTTTGTGTTTTGTTTTGTTTTGT  
 TTTGTTTTGTTTTGTTTTGTTTTTTCACAATCTCAGCCAGCCTGCGGTGTGACCTGGGGAGAAAGTTGA  
 GTGTCAGGGGACATGATGAGCCAGTTGGCCCTGAAACAGGAATGGGGCAAAGAGAAAGGAGAGCCAGGAG  
 CATTTAAAAATCAGCATCTGGGCCAGGCAAGATGGCTCACGCCTGTGATCCCAGCATTTTGGGAGCCGA  
 GGCGGTGGATCATGAGGTGAGGATCGAGACCATCCTGGCTAACACGGTGAACCCCGTCTCTACTGA  
 AAATACAAAAAATTAGCCAGGCATGGTGGCAGGTGCCTGTAGTCCCAGCTACTCGGGAAGCTGAGGCAGA  
 AGAATGGCATGAACCTGGGAGGTGGAGTTGCAGTGAGCCAAGATCATGCCACTGCCACTCCAGCCTGGGC  
 GACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGTTCGAC

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_000890  
**Insert Size:** 1260 bp  
**OTI Disclaimer:** 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_000890.3</a> , <a href="#">NP_000881.3</a>
<b>RefSeq Size:</b>	2912 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	3762
<b>UniProt ID:</b>	<a href="#">P48544</a>
<b>Cytogenetics:</b>	11q24.3
<b>Domains:</b>	IRK
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	This gene encodes an integral membrane protein which belongs to one of seven subfamilies of inward-rectifier potassium channel proteins called potassium channel subfamily J. The encoded protein is a subunit of the potassium channel which is homotetrameric. It is controlled by G-proteins and has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Naturally occurring mutations in this gene are associated with aldosterone-producing adenomas. [provided by RefSeq, Aug 2017]