

## Product datasheet for **SC324369**

### **KCNJ8 (NM\_004982) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNJ8 (NM_004982) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ8
Synonyms:	KIR6.1; uKATP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004982.2  
CACGCAGCCCCAATTTGTCCCTCCGGCCTGGGCGGCCCTGGTCCCAGCGCCAGCATG  
GGAGAGCGAGGGACCTGCCCGCGGCCCGCGGCGTGTGCAAGGAGGTCCAGCCGCCGCGC  
CCGCTACCCGGAGTCTGAGGACGGGTGTCCAGGGACGGAGAGGCAGGTGAGAGGGAGGTG  
GCTAAGCTGGCTATGGTGACAGGACGATGTTGGCCAGAAAAGTATCATCCCGGAGGAGT  
ATGTGCTGGCGGCATCGCCGACAGAACCTGCCAAGCCGCGCATCCGAGACCGCTCC  
CCAAAGCCCGCTTATCGCCAAGAGCGGGCCTGCAACCTGGCGCATAAGAACATCCGTG  
AGCAAGGACGCTTCTACAGGACATCTTACCACCTTGGTGGACCTGAAATGGCGCCACA  
CGTGGTCATCTTACCATGTCCTTCTCTGCAGCTGGTGTCTTCTGCTATCATGTGGT  
GGCTGGTGGCCTTTGCCATGGGACATCTATGCTTACATGGAGAAAAGTGAATGGAGA  
AAAGTGGTTTGGAGTCCACTGTGTGTGACTAATGTCAGGTCTTTCACTTCTGCTTTTC  
TCTTCTCCATTGAAGTTCAAGTTACCATTGGGTTTGGAGGGAGGATGATGACAGAGGAAT  
GCCCTTTGGCCATCACGGTTTTGATTCTCCAGAATATTGGGTTTGGTATCATCAATGCAG  
TCATGTTAGGCTGCATTTTCATGAAAACAGCTCAGGCTCACAGAAGGGCAGAAAATTTGA  
TTTTAGCCGCCATGCTGTGATTGCCGTCGAAATGGCAAGCTGTGCTTTCATGTTCCGAG  
TGGGTGACCTGAGGAAAAGCATGATCATTAGTGCCTCTGTGCGCATCCAGGTGGTCAAGA  
AAACAACCTACACCTGAAGGGGAGGTGGTTCCTATTACCAACTGGACATTCTGTGATA  
ACCCAATCGAGAGCAATAACATTTTCTGGTGGCCCTTTGATCATCTGCCACGTGATTG  
ACAAGCGCAGTCCCCTGTATGACATCTCAGCAACTGACCTGGCCAACCAAGACTTGGAGG  
TCATAGTTATTCTGGAAGGAGTGGTTGAAACTACTGGCATCACACACAAGCAGCAACCT  
CCTACATTGCTGAGGAGATCCAATGGGGCCACCGCTTTGTGTCCATTGTGACTGAGGAAG  
AAGGAGTGTATTCTGTGGATTACTCCAAATTTGGCAACTGTTAAAGTAGCTGCTCCAC  
GGTGCAGTGCCCGAGAGCTGGATGAGAAACCTTCCATCCTTATTCAGACCCTCCAAAAGA  
GTGAACTGTCTCATCAAATTCTCTGAGGAAGCGCAACTCCATGAGAAGAAACAATTCCA  
TGAGGAGGAACAATTCTATCCGAAGGAACAATTCTCCCTCATGGTACCAAGGTGCAAT  
TTATGACTCCAGAAGGAAATCAAAACACATCGGAATCATGACAGCAAGATAACCCCAAGA  
CAGTCTTTTATCAAGTTTTGACGGTTTATGCTGGGCACTGCCAGACTGAACCAGAGCTGG  
AACACAATAATGTGTCCTTCTACATTTTATTACACTAAATGATATTTCATATTCAAGCAAC  
AGCACTTCTGTAGTAATAAAAAATTAACACACCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004982

**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).

**OTI Annotation:** 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.

**Components:** 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_004982.2</a> , <a href="#">NP_004973.1</a>
<b>RefSeq Size:</b>	2381 bp
<b>RefSeq ORF:</b>	1275 bp
<b>Locus ID:</b>	3764
<b>UniProt ID:</b>	<a href="#">Q15842</a>
<b>Cytogenetics:</b>	12p12.1
<b>Domains:</b>	IRK
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. Defects in this gene may be a cause of J-wave syndromes and sudden infant death syndrome (SIDS). [provided by RefSeq, May 2012]