

## Product datasheet for MC227359

### Kcnj15 (NM\_001271689) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnj15 (NM\_001271689) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnj15  
**Synonyms:** 4930414N08Rik; AI182284; AI267127; IRKK; Kir4.2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227359 representing NM\_001271689  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATGCCATTACCTTGGCATGTCCAGTGCCCCACTGGTGAAGCATACCAACGGGGTTGGACTCAAGG  
 CCCACAGACCCCGAGTCATGTCAAAGAGTGGGCACAGTAATGTGAGAATCGATAAGGTAGACGGAATCTA  
 TTTACTCTACCTCCAGGACTTGTGGACAACCGTCATCGACATGAAGTGGCGATAACAAGCTCACCTATTT  
 GCTGCCACCTTTGTGATGACCTGGTTTCTGTTTGGAGTGGTCTACTATGCCATAGCCTTTATTCATGGTG  
 ACTTACAACCTGGGGAATCTAATTCCAACCACACACCCTGCATTATGAAAGTGGACTCTCTCACAGGAGC  
 ATTCCTCTTTTCCTTGAATCTCAGACAACCAATTGGCTACGGGGTCCGTTCCATCACAGAGGAGTGTCCC  
 CATGCTATCTTCTCTTAGTCGCCCAACTGGTCATCACCACATTGATTGAGATCTTCATTACGGGGACCT  
 TTCTGGCTAAAATTGCAAGACCCAAAAAGCGAGCCGAGACCATTAAGTTCAGCCACTGTGCTGTCATCAG  
 CAAGCAGAATGAAAAGCTATGCCTGGTCATCCAGGTGGCCAACATGAGGAAGAGTCTCCTGATTCACTGC  
 CAGCTCTCTGGAAAACCTCTGCAGACACACGTACCAAAGAGGGAGAACGCATTCTCTCAACCAGGCCA  
 CTGTCAAATCCACGTGGACTCCTTCCGAGAGTCCCTTCTCATCCTGCCATGACCTTCTACCACGT  
 GTTGGATGAGACAAGCCCTGCGGACCTCACACCCAAAAACCTAAAGGAGAAGGAGTTTGAGCTGGTG  
 GTACTTCTCAACGCCACGGTGGAGTCTACCAGCGCGTCTGCCAGAGCCGAACGTCTTACATCCCGGAGG  
 AGATCTACTGGGCTTTGAGTTTGTGCCTGTGGTTTCTCTCTCCAAAAATGGAAGTATGTGGTGATTT  
 CAGTCAATTTGAGCAGATCAGGAAGAGCCCGATTGTACCTTCTACTGTGCCGATTCTGAGAAGCAGAAG  
 CTTGAAGAACAGTACAGGCAAGAGGACCAGAGGGAGCGGGAGCTGAGGAGCCTCTGCTACAGCAGAGCA  
 ATGTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001271689
<b>Insert Size:</b>	1128 bp
<b>OTI Disclaimer:</b>	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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001271689.1, NP_001258618.1</u>
<b>RefSeq Size:</b>	5177 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	16516
<b>UniProt ID:</b>	<u>O88932</u>
<b>Cytogenetics:</b>	16 55.86 cM
<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.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and 5' coding region and uses a downstream start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus, compared to isoform a. Variants 2, 3, 5, 7, 9 and 11 encode the same isoform (b). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>