

## Product datasheet for **MC200068**

### **Kcnj8 (NM\_008428) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnj8 (NM_008428) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj8
Synonyms:	AI448900; gnite; Kir6.1; slmbr; sltr; uKATP-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC003756 sequence for NM\_008428  
 CCCACGCGTCCGCCACGCGTCCGCCACGCGTCCGCTCCTCCCGCGTGCACCATGGATCGCACCTTCT  
 AGAGTCTTAACTCAGTTCTGGAGGACCAACATCCCCGGATCTGCACTTCAGGAGGTCTCTGCTCCCGGG  
 ATGCGAGAGCCTGGGACCAGCCGCCCTGTGCGGAGTTCCAGCCGAGCCGGGAGCGCAAACCCGAGTCT  
 TCTAGGAGGACGCGTGTGGAGGAAAGGAGCCACAGGTTCCAGGCAGGTGCATAGGCGGGCTATGGTAAAAG  
 GAAGATGTTGGCCAGGAAGAGCATCATCCCGGAGGAGTATGTGCTGGCGCGCATCGCAGCGGAGAACCTG  
 CGCAAACCGCGCATCCGCGACCGTCTCCCAAAGCCCGTTCATCGCCAAGAGCGGAGCCTGCAACCTGG  
 CACACAAGAACATCCGAGAGCAAGGTGCGTTCCTGCAGGACATCTCACCACCTTGGTAGACCTGAAGTG  
 GCGTCACACGCTGGTCATCTTACCATGTCCTTCTCTGCAGCTGGCTGCTCTTTGCTATCATGTGGTGG  
 CTGGTGGCCTTCGCCACGGGGACATCTATGCTTACATGGAGAAAAGGCACCATGGAGAAGAGTGGCCTGG  
 AGTCCGCTGTCTGTGACCAATGTCAGGTCATTACGCTGCGTTTTCTTCTCCATTGAGGTTCAAGT  
 GACCATTGGGTTTCGAGGGGAGAATGATGACTGAGGAATGCCCTCTGGCCATCACGTTTTGATTCTGCAG  
 AACATCGTGGGTCTGATCATCAACGCGGTGATGTTGGGTTGCATTTTCATGAAGACGGCGCAGGCCACA  
 GAAGGGCAGAGACGCTGATTTTCAGCCGCATGCTGTGATTGCCGTCGCAATGGCAAGCTGTGCTTCAT  
 GTTCCGGTGGGTGACCTGAGGAAGAGCATGATCATTAGCGCCTCGGTGCGCATCCAGGTGGTCAAGAAA  
 ACCACGACGCCAGAAGGGGAGGTGGTGCCTATTATCAGCAGGACATTCTGTTGATAATCCCATCGAGA  
 GCAATAATATCTTCTAGTGGCCCCATTGATCATCTGCCACGTGATTGACAAGCGTAGCCCCCTGTATGA  
 TATCTCAGCAACTGACCTTGCCAATCAAGACCTGGAGGTCATAGTGATTCTCGAGGGCGTGGTAGAAACC  
 ACAGGCATCACCACACAAGCGCGGACCTCCTACATTGCGGAGGAGATCCAGTGGGGACACCGCTTCGTGT  
 CAATTGTGACTGAGGAGGAGGGCGTGTACTCTGTGGACTATTCCAAATTTGGTAACACGGTGAGAGTGGC  
 TGCGCAAAGATGCAGTGCCCGGAGCTGGATGAGAAGCCTTCCATCCTGATTGAGACCCTCCAAAAGAGT  
 GAACTGTCGCACCAGAATTCTCTGCGGAAGCGCAACTCCATGAGGAGAAACAACCTCAGGAGAAAACA  
 ACTCCATCAGGAGGAATAACTCTCCCTCATGGTGCCCAAGGTGCAGTTCATGACTCCAGAAGGAAACCA  
 GTGTCCATCCGAATCATGAGGGCAGGATACCGGAGACAGTTACTTGTGAGTCCGTGATGACTGATAGCC  
 CTGAACAGTCAGTCACTACTGTGCTGATGACTGAGAGACAATCCGGAGACAGTTCATTGAGTCCGA  
 TGATCAAAATATTGCACTCATCACCAGTTCAGGGCTGGAGCACAGTATTCTATCCTAATGCACTGAGAA  
 ATATTCATATTTGAGACATTAACCTTCTGTAATAAACAATAACACACAAACCCGAGCTCTTTATTC  
 TCCTCTCATCTTAAAATCTGTTTTCTCCAGCAGTCTCTGTAGTCAGGTCAGTTGGCCTGTGTTTTTG  
 AGCTTCTGTCATTTAGCAGAGATGAGATCTTACCCAAGCCAGTTTCGTCATTCTTAGGTCCTGCACC  
 CTAAGTAAGGGCAGAGTAGAGAGACGTCCTGGGTTAACACGGTGTGTGATGTGGGGTTAACCCAGTGTG  
 TGATATGGGGTTAACACGTTGTGTGATGCGGTTAAACATGGAAGCTGGGCAGCTGGGTAGCCTTTTATTC  
 AGAGTCTGGGGCTGAATTCATTTTTTTACATGAGCCATTGAACACACGGGTTCATCATGAATATGTTCA  
 AATCTAACCTTCAAAGACTCAGGTTGCTAACCAAGCAAATAGCACCTGCTGGGTTAATTATTCAAAAAA AAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_008428

**Insert Size:** 1275 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).

**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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [BC003756](#), [AAH03756](#)

**RefSeq Size:** 2249 bp

**RefSeq ORF:** 1275 bp

**Locus ID:** 16523

**UniProt ID:** [P97794](#)

**Cytogenetics:** 6 74.31 cM

**Gene Summary:** This potassium channel is controlled by G proteins. 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. Can be blocked by external barium (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.