

Product datasheet for **MC208808**

Kcnj6 (NM_010606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj6 (NM_010606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj6
Synonyms:	BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC208808 representing NM_010606
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAATGGCCAAGTTAACTGAATCCATGACTAACGTCTTGAAGGCGATTCCATGGACCAGGATGTGG
 AAAGCCCAGTGGCCATTCACCAGCCAAAGTTGCCAAGCAGGCCAGGGAGCAGCTGCCGAGACACATCAG
 CCGAGACAGGACAAAAGGAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTGCAACGTTACCCACGGC
 AATGTGCGGGAGACGTACCGATACCTGACGGACATCTTACCACCCTGGTGGACCTGAAGTGAGATTCA
 ACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGATCTGGTGGCTGATTGC
 GTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTGTACCAACCTCAACGGG
 TTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACCATCGTTATGGCTACCGGTCATCAGG
 ACAAGTGCCCTGAGGGGATTATTCTCTCTTAATCCAGTCCGTGTGGGGTCCATTGTCAACGCCTTCAT
 GGTAGGATGTATGTTTGTAAAAATCCCAACCAAGAAGAGGGCAGAGACCCTGGTCTTTTCCACCCAC
 CGGTGATCTCCATGCGGGATGGAAACTGTGCTTGTATGTTCCGGGTGGGGGACTTGAGGAATTCTCACA
 TTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAACAGACTTCAGAGGGGGAGTTTATCCCT
 CAACCAGACTGATATCAACGTGGGGTACTACACAGGGGACGACCGGCTCTTTCTGGTGTCAACATTGATT
 ATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCCAAGCGCAGCTGCCTAAAGAGGAAC
 TGGAGATTGTGGTCATCTGGAGGGAATGGTGAAGCCACAGGAATGACGTGCCAAGCCCCGAAGCTCCTA
 CATCACCAGTGAGATCTTGTGGGTTACCGGTTACACCTGTCTAACGCTGGAAGACGGGTTCTACGAA
 GTTGACTACAACAGCTTCCATGAGACCTATGAGACCAGCACCCCTCCCTTAGTGCCAAAGAGCTAGCGG
 AGCTGGCTAACCGGGCAGAGCTGCCTCTGAGTTGGTCTGTGTCCAGCAAACCTGAACCAACATGCAGAATT
 GGAGACAGAAGAGGAAGAGAAGAAACCCGGAAGAACTGACGGAGAGGAATGGTACGTGCCAACCTAGAG
 AATGAATCCAAAGTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_010606

Insert Size: 1278 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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: [NM_010606.2](#), [NP_034736.2](#)

RefSeq Size: 3086 bp

RefSeq ORF: 1278 bp

Locus ID: 16522

UniProt ID: [P48542](#)

Cytogenetics: 16 55.44 cM

Gene Summary: This potassium channel is controlled by G proteins. It plays a role in granule cell differentiation, possibly via membrane hyperpolarization. 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]