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Product datasheet for MC208807

Kcnj6 (NM_001025585) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj6 (NM_001025585) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj6
Synonyms:	BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208807 representing NM_001025585 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACAATGGCCAAGTTAACTGAATCCATGACTAACGTCTTGGAAGGCGATTCCATGGACCAGGATGTGG AAAGCCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACCTGCCGAGACACATCAG CCGAGACAGGACCAAAAGGAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTGCAACGTTCACCACGGC AATGTGCGGGAGACGTACCGATACCTGACGGACATCTTCACCACCCTGGTGGACCTGAAGTGGAGATTCA ACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGATCTGGTGGCTGATTGC GTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTGTCACCAACCTCAACGGG TTTGTCTCTGCTTTTTTATTCTCCATAGAGACAGAAACCACCATCGGTTATGGCTACCGGGTCATCACGG ACAAGTGCCCTGAGGGGATTATTCTCCTCTTAATCCAGTCCGTGTTGGGGTCCATTGTCAACGCCTTCAT GGTAGGATGTATGTTTGTGAAAATATCCCAACCCAAGAAGAGGGCAGAGACCCTGGTCTTTTCCACCCAC GCGGTGATCTCCATGCGGGATGGGAAACTGTGCTTGATGTTCCGGGTGGGGGACTTGAGGAATTCTCACA TTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAAACAGACTTCAGAGGGGGAGTTTATTCCCCT CAACCAGACTGATATCAACGTGGGGTACTACACAGGGGACGACCGGCTCTTTCTGGTGTCACCATTGATT ATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCCAAAGCGCAGCTGCCTAAAGAGGAAC TGGAGATTGTGGTCATCCTGGAGGGAATGGTGGAAGCCACAGGTAAGATGGGTTTCGCCCTGGGTTTTCT GTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001025585

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Insert Size:	984 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:	NM_001025585.2, NP_001020756.1
RefSeq Size:	2049 bp
RefSeq ORF:	984 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]