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Product datasheet for MC208804

Kcnj2 (NM_008425) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj2 (NM_008425) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj2
Synonyms:	IRK1; Kcnf1; Kir2.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC208804 representing NM_008425
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGTGTGAGAACCAACCGCTACAGCATCGTCTCTTCGGAGGAAGATGGCATGAAGCTGGCCACTA
TGGCAGTTGCCAATGGCTTTGGGAATGGCAAGAGTAAAGTCCATACCCGACAACAGTGCAGGAGCCGCTT
TGTGAAGAAAGATGGTCATTGCAATGTTCAGTTTATCAACGTGGGTGAGAAGGGACAGAGGTACCTGGCA
GACATCTTTACTACCTGTGTCGACATCCGCTGGAGGTGGATGCTGGTTATCTTCTGTCTTGCCTTCGTGC
TCTCCTGGCTGTTCTTTGGCTGTGTGTTTTGGTTGATAGCCCTGCTCCATGGGGATCTAGATACTTCTAA
AGTGAGCAAAGCATGCGTGTCAGAGGTCAACAGCTTCACGGCTGCCTTCCTCTTCTCCATCGAGACCCAG
ACAACCATTGGCTATGGTTTCAGGTGTGTGACAGACGAGTGCCCAATTGCTGTCTTCATGGTGGTATTCC
AGTCAATCGTAGGCTGCATCATTGACGCCTTCATCATTGGTGCAGTCATGGCGAAGATGGCAAAGCCAAA
GAAGAGAAATGAGACTCTTGTCTTCAGTCACAATGCTGTGATTGCCATGAGGGATGGCAAACTCTGCTTG
ATGTGGAGAGTGGGTAACCTTCGAAAGAGCCACCTTGTGGAAGCTCATGTCCGGGCACAGCTTCTCAAAT
CTAGGATCACTTCAGAAGGGGAGTATATCCCTTTGGACCAGATAGACATCAATGTTGGTTTTGATAGTGG
AATTGACCGCATATTTCTAGTGTCCCCCATCACTATCGTTCACGAAATAGATGAAGACAGCCCTTTATAT
GACTTGAGTAAGCAGGACATTGACAATGCAGACTTTGAAATTGTTGTCATACTGGAAGGCATGGTGGAGG
CGACTGCCATGACAACTCAATGCCGGAGTTCGTATCTGGCCAATGAAATTCTCTGGGGTCACCGCTATGA
GCCAGTGCTCTTTGAAGAGAAACACTACTATAAAGTAGACTATTCAAGATTCCATAAGACTTATGAAGTA
CCTAACACCCCCCTTTGTAGTGCCAGAGACTTAGCAGAGAAGAAATACATCCTTTCAAATGCAAATTCAT
TTTGCTATGAAAATGAAGTTGCCCTAACAAGCAAAGAGGAAGAGGAGGATAGTGAGAACGGAGTCCCAGA
GAGCACAAGCACAGACTCACCTCCTGGCATAGATCTCCACAACCAGGCAAGCGTACCTCTAGAGCCCAGG
CCCTTAAGGCGAGAATCGGAGATATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_008425
Insert Size:	1287 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_008425.4, NP_032451.1
RefSeq Size:	5468 bp
RefSeq ORF:	1287 bp
Locus ID:	16518
UniProt ID:	P35561
Cytogenetics:	11 75.23 cM
Gene Summary:	Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. 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 extracellular barium and cesium.[UniProtKB/Swiss-Prot Function]