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Product datasheet for MC216960

Kcnj3 (NM_008426) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj3 (NM_008426) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj3
Synonyms:	GIRK-1; GIRK1; Kcnf3; Kir3.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC216960 representing NM_008426
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCACTCCGAAGGAAATTTGGGGACGATTACCAGGTAGTGACCACTTCGTCGAGCGGTTCGGGCT
TACAGCCTCAGGGGCCAGGACAGGGCCCGCAGCAGCAGCTGGTGCCCAAGAAGAAACGGCAGCGGTTCGT
GGACAAGAACGGCCGGTGCAATGTGCAGCATGGTAACCTGGGCAGCGAGACCAGTCGCTACCTTTCGGAC
CTCTTCACTACCCTGGTGGATCTCAAGTGGCGTTGGAACCTCTTTATCTTCATCCTCACCTACACCGTGG
CCTGGCTCTTCATGGCGTCCATGTGGTGGGTGATCGCTTATACCCGGGGCGACCTGAACAAAGCCCATGT
CGGCAACTACACTCCCTGTGTGGCCAATGTCTATAACTTCCCCTCTGCCTTCCTCTTCTTCATCGAGACC
GAGGCCACCATCGGCTATGGCTACCGCTACATCACAGATAAGTGCCCCGAGGGCATCATCCTCTTCCTCT
TCCAGTCCATCCTTGGCTCCATCGTGGACGCTTTCCTCATCGGCTGCATGTTCATCAAGATGTCCCAGCC
CAAAAAGCGCGCCGAGACCCTCATGTTTAGCGAGCATGCGGTTATCTCCATGAGGGACGGAAAACTCACT
CTCATGTTCCGGGTGGGCAACCTGCGCAACAGCCACATGGTCTCCGCGCAGATCCGCTGCAAGCTGCTCA
AATCTCGGCAGACACCTGAGGGTGAGTTCCTTCCCCTTGACCAACTTGAACTGGATGTAGGTTTTAGTAC
AGGGGCCGATCAACTTTTTCTTGTGTCCCCTCTCACAATTTGCCACGTGATCGATGCCAAAAGCCCCTTC
TATGACCTATCCCAGCGAAGCATGCAAACTGAACAGTTCGAGGTTGTCGTCATCCTGGAAGGCATTGTGG
AAACCACAGGAATGACTTGTCAAGCTCGAACATCATACACAGAGGACGAAGTGCTTTGGGGTCATCGTTT
TTTCCCTGTAATTTCTTTAGAAGAAGGATTCTTTAAAGTCGATTACTCCCAGTTCCATGCAACCTTTGAA
GTTCCAACCCCTCCTTACAGCGTGAAAGAGCAGGAGGAAATGCTTCTCATGTCCTCCCCTTTAATAGCAC
CAGCCATAACCAACAGCAAAGAAAGACACAATTCTGTGGAGTGTTTAGATGGACTAGATGACATTAGCAC
AAAACTTCCATCGAAGCTGCAGAAAATTACGGGGAGAGAAGACTTTCCCAAAAAACTTCTGAGAATGAGT
TCTACAACCTCAGAAAAAGCCTATAGTTTGGGTGATTTGCCCATGAAACTCCAACGAATAAGTTCAGTTC
CTGGCAACTCGGAAGAAAAACTGGTTTCTAAAACCACCAAGATGTTATCTGATCCCATGAGCCAGTCTGT
GGCCGATTTGCCACCAAAGCTTCAAAAGATGGCTGGAGGACCTACCAGGATGGAAGGAAATCTTCCAGCC
AAACTAAGAAAAATGAACTCTGACCGTTTCACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1936_g09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008426

Insert Size: 1506 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: BC068167, AAH68167

RefSeq Size: 1679 bp

RefSeq ORF: 1506 bp

Locus ID: 16519

UniProt ID: P63250

Cytogenetics: 2 C1.1

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. This receptor plays a crucial role in regulating the heartbeat.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 3 both encode the same isoform (1).