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Product datasheet for MC201126

Kcnj1 (NM_019659) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj1 (NM_019659) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnj1
Synonyms:	Kir1.1; ROMK; Romk2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC020525 sequence for NM_019659
TGTTGGTTTAAACCACACAACTCCACTCTTGAGTTAACCATTGAAAGCTAATGCAAGCAAGCATCATTGT
GAGGCTTAAGATTCATTAAGGTGGGCCTCAAAGAAGTCGGCCTTTGCACAGACAAAACTGAACAGCACCA
CTCACTTGCTTTGCCCAGCATGGATGCTTCAGATCGGAGGTGTATGTGCAGAGTGCTGATCAGGGCACTG
ACAGAAAGGATGTTCAAACATCTTCGAAGATGGTTTGTCACTCACATATTTGGGCGTTCTCGGCAACGAG
CAAGGTTGGTCTCCAAAGATGGAAGGTGTAACATCGAGTTTGGCAATGTAGATGCACAGTCGAGGTTTAT
ATTCTTTGTGGATATCTGGACAACTGTACTTGACCTGAAATGGAGGTACAAAATGACCGTGTTCATCACA
GCCTTCTTGGGGAGTTGGTTTCTCTTTGGTCTCCTGTGGTATGTCGTAGCCTATGTTCATAAGGATCTCC
CAGAGTTCTACCCACCTGACAACCGTACTCCTTGTGTGGAGAACATTAATGGCATGACATCAGCCTTTCT
GTTTTCTCTAGAGACCCAAGTGACCATAGGTTACGGATTCAGGTTTGTGACAGAACAGTGTGCCACTGCC
ATTTTTCTGCTTATCTTCCAGTCTATTCTTGGAGTGATCATCAATTCTTTCATGTGTGGTGCCATATTAG
CCAAGATCTCTAGACCCAAAAAACGTGCAAAGACCATTACATTCAGCAAGAATGCGGTGATCAGCAAACG
TGGGGGGAAGCTCTGTCTCCTCATCCGAGTAGCAAATCTTAGGAAAAGCCTTCTGATTGGCAGTCACATA
TATGGTAAGCTTCTGAAGACTACCATCACACCTGAAGGAGAGACCATTATTTTGGATCAGACCAATATAA
ACTTTGTAGTTGATGCTGGCAATGAAAATTTGTTCTTCATTTCCCCACTGACAATCTACCACATTATTGA
CCACAACAGCCCTTTCTTCCACATGGCGGCAGAAACTCTTTCCCAACAGGACTTCGAGTTGGTTGTCTTT
TTAGATGGCACAGTAGAATCCACCAGTGCAACCTGCCAAGTCCGCACATCATACATCCCAGAAGAGGTGC
TTTGGGGTTACCGTTTTGTTCCCATCGTATCCAAGACCAAGGAAGGGAAATACCGAGTGGATTTCCATAA
CTTTGGTAAGACGGTGGAAGTGGAGACCCCTCATTGTGCCATGTGCCTCTATAATGAGAAAGATGCCAGG
GCCAGGATGAAGAGAGGCTATGACAACCCTAACTTTGTCTTGTCAGAAGTTGATGAAACAGACGACACCC
AAATGTAGCAGTGGCTTTTCTACCTACAAAGAGTCTCTCAAGGACCTAAGTGCTGGCTGTGTTCAGAAGC
ATCCTGCAGTTGGGGGACTGAAAGCAGGATGAGAACCCAAGAAGTCTACCAGCAGAGTCACCCCCTCAGC
CCCATGGCTATGATTCTAGAAGACTCGTAGCTCTAAAGTCTGCAGCAGTAAGCATACGGTGGAAGCATGT
GAATGAACCTGGCGTGTGGAAGCCAAAAGGAGCTCACTTGGATCTTCACTCTGACTGTGTAAGCTCGTAC
AGTGTTGATGGAAACAAAGTCATCCATTGACATGTACTGGAGAAAAGTTAGGAGCTTTAGAAAACTTCAG
GAGCTAGCCATATTTCCTGTTTGATTCTATGGATGAGAAAGATATCACATTTTATCTTAAAGTAGACTTT
TATCAACGGAAAATCTGTCTTCTGAGTTGGGAAGTGAGCCAACCAGTCACTGACAATAAGAGCCTGTCAT
ACACAGAATCACTAAAGGCTCTAACTTCTTAAGCTCTGCTGTTTGAAGCCTTTGTCTGAGTCTGGGTCCA
TGTTTCAGAAGGGGTAAGGTGGGCATCCAGTGACTGCACCTTTCTCAACCCAAGGTACAGAAGAACAGAA
AGCCTCAACCAATTTCATAACTAACTCAGACGCTGCAGCCCATATAGGAATGGACCTGAATGATTTCCGG
TGGTGCAATCAATGGAGGCCAAGCCCATTCCTTAGACTAAATGAACATTCTCTTGCAAAGGAGAGTGTTT
GAGCTAAAAGTGTTGGTGAAGAGGCTGAAGAGATGACATTCTTTGTAAGTTCATGCTGCGCACGCATGAA
GACCTGGGTCTGAACCTCCAACAATCACATACAAAGCTTGACTTAGTAGGATGCTCCCCCTCCCCAATCC
TAGTACTGGGGAGGTAGGGATAGGAGGATGTCTCAAGTTTTCTGGACAGCTGAATGGGTGAGGTACCAGT
TCAGGGAGAGACTACAAAAATAAGGTGAAGGGGCTGGCGGGAAGACTCTGGTTAAAAGCACCGTGGCTGA
TCTTCCAGAGAACCTAGGTTTGGTTCCTGGCACAGTACTTCATAACTATCTATAACTCCAGTTTCAGGGC
ATCTGATGCTCTTTTCTGGCCCCTATGAGCACCAGGTGCACATGCGAGCAAAACACTATACACATACGAT
TAAAAAGATAAGGTAGAGAATGACTGAAGAAGAAATCTTACGTCAACTTCTGATCTACACACACACACAC
ACACACACACACACACACACACACAGAGCATAGTGATGTTTGTTTCAGTATTCAGTGGGTAGGTTATAGGGC
CACAGGTCTGGTAAAAGAGGTTTTATTCCTTCCTCTCTCAAGATGGTGCTGAGGACTGGGAAAGCAGTCA
GCCTGGAGTGTGTATGATGCTAACACCGAATGGTTCTTGTGTTTCTCTGACTAGTGGTTGAACTGCAATT
CTAGGTATGAAGGAGAAAGGAACGAGATACAGCACCACAGTCAGGATGCTGCTGCTTTCTTGTCTCTAAA
GGCCATCCCTACATCTTCCAAAGGGAACAAGTTAGCAGGAGAATTTACTTCGGAGGAAGGTTCTAATGTC
TTGTTTGTTCATTTCCACATCTGCATCATTCTGATTTCACCTTGGGGGAAAAAAAGTAGAATTCAAAGCT
GTTCAAAAATCAAAATATCATTTTAGTATGTGATTAATAAATTTCTGAAACTGTATGAGCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019659

Insert Size: 1119 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:	BC020525, AAH20525
RefSeq Size:	3102 bp
RefSeq ORF:	1119 bp
Locus ID:	56379
UniProt ID:	O88335
Cytogenetics:	9 A4
Gene Summary:	In the kidney, probably plays a major role in potassium homeostasis. 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 channel is activated by internal ATP and can be blocked by external barium (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to 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.