

Product datasheet for MC205863

Kcnj16 (NM_010604) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj16 (NM_010604) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnj16
Synonyms: 6430410F18Rik; AI132396; Kir5.1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC033442
GCTTCGCCCCCTGTGGAAGAGTGAATGAAGATGGGAGCCTGGCATGGCTGCTCCTCTGAGAGACCCTACCA
GCTGCCGAATTAGAAAGATGCAGATACTTACAGCCGACCATTGGACTGAGGCTTTAACAGAAAATCTTTA
AAAAAAAAAGAGTAGAAGTTAGAATACACCTGGAACTTTTAACTGACATCGGACTCCTCTGAATGCCCTAA
AGGACCAAGAAAGATGAGCTATTACGGAAGTAGCTACAGGATTGTCAATGTGGACTCCTCAATATCCAGG
CTATCCTCCAGAGCATGCCATCGCTGAGAAGAGAAGAGCAAGAAGGCGCTTGCTCCACAAAGATGGCAGC
TGTAATGTGTACTTTAAACACATTTTTGGAGAATGGGGGAGCTACATGGTTGATATTTTTACCACTCTTG
TGGATACCAAGTGGGCCATATGTTTATAATATTTTCTGTCTTACATTCTCCTCGTTGATATTTGG
TTCCATATTTGGCTCATAGCCTTTTATCACGGAGACCTATTAAGCGATCCAGATATCACCCCTGTGTT
GACAACGTGCATTCATTTACGGCTGCATTTTTATTCTCCCTGGAGACCCAGACCACCATTGGATACGGTT
ACCGCTGTGTACCGAAGAGTGTCTGTGGCTGTACTGACAGTATCCTTCAGTCCATCCTCAGCTGCAT
CATAAACACCTTCATCATTGGAGCAGCCTTGGCAAAGATGGCAACTGCCCGAAGAGAGCCAGACCATA
CGCTTCAGCTATTTTGCCTCATTGGTATGAGAGACGGGAAGCTTTGCCTCATGTGGCGCATAGGTGACT
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GAGGATGACGATGGCGTTTAAAGACCTCAAACCTCGTCAATGACCAGATAATCCTGGTAACTCCAGTGACT
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GGAAGGACCAACAACCTCAACAACCTGGAGAAAACGTCCCCTGCCCGAGGATCCTGCAATTCGACACCAA
CACCAGGAGGCGGTCTTTCAGCGCAGTTGCTGTGGTGAGCAGCTGTGAGAACCAGAGGAGACCGTCTCTG
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GAGTGTGGGAAAAGAGGCTGTTAACTAGATAAATATAGAGAAGCAGATAAGCTAAATATTTGCATATA



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AAAATAAATTAATTATGGAATGAGAAGCTATAACCGTATTGTATCACCTAAGCACAGCAGGTGAAATATG
CCTCCGCTCAGAAACATTGAGATGAGAAAGTAAAACCAAGTGAAGTTTGAGTTTACCATATTTGCCTCTC
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ACAATTCAGACTCCAAGCTAAGTCAAATAAATAGATATTCTAAGGGGTCTTTTTCTCTTTTTTTTT
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CCAGTGCACCAGGCTTCTTTGCTCTGTCTCTATGACAAGATCAGAATGGGGTGGCGGTGGTGGTGGGGA
TCACAGGTCTCTGATTAACAGATTCTGGTGCCTGTGTGTTTACACAGAGTGAACGTGGTGGTCCCA
TGCATCTCTCATTTCTGTGCAGATTTATAACATGCTTTGACACGCCTGATGGCTTACTTAATAAAGATC
TTAGACTGGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

RsrII-NotI

ACCN:

NM_010604

Insert Size:

1260 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: [BC033442](#), [AAH33442](#)

RefSeq Size: 3696 bp

RefSeq ORF: 1260 bp

Locus ID: 16517

UniProt ID: [Q9Z307](#)

Cytogenetics: 11 75.01 cM

Gene Summary: 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. KCNJ16 may be involved in the regulation of fluid and pH balance. In the kidney, together with KCNJ10, mediates basolateral K(+) recycling in distal tubules; this process is critical for Na(+) reabsorption at the tubules.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) lacks an exon in the 5' UTR, compared to variant 1. Variants 1-5 encode the same protein.