

Product datasheet for MR205834

Kcnj15 (NM_019664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj15 (NM_019664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj15
Synonyms:	4930414N08Rik; AI182284; AI267127; IRKK; Kir4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205834 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGCCATTCACCTTGGCATGTCCAGTGCCCCACTGGTGAAGCATACCAACGGGTTGGACTCAAGG
CCCACAGACCCCGAGTCATGTCAAAGAGTGGGCACAGTAATGTGAGAATCGATAAGGTAGACGGAATCTA
TTTACTCTACCTCCAGGACTTGTGGACAACCGTCATCGACATGAAGTGGGATACAAGCTCACCCATTT
GCTGCCACCTTTGTGATGACCTGGTTTCTGTTGGAGTGGTCTACTATGCCATAGCCTTTATTTCATGGT
ACTTACAACCTGGGGAATCTAATTCCAACCACACACCCTGCATTATGAAAGTGGACTCTCTCACAGGAGC
ATTCTCTTTTCCCTTGAATCTCAGACAACCATTGGCTACGGGGTCCGTTCCATCACAGAGGAGTGTCC
CATGCTATCTTCTCTTAGTCGCCCAACTGGTCATCACCACATTGATTGAGATCTTCATTACGGGGACCT
TTCTGGCTAAAATTGCAAGACCCAAAAGCGAGCCGAGACCATTAAGTTCAGCCACTGTGCTGTCTCAG
CAAGCAGAATGGAAAGCTATGCCTGGTCATCCAGGTGGCCAACATGAGGAAGAGTCTCCTGATTCACTGC
CAGCTCTCTGGAAAACCTCTGCAGACACACGTCACCAAAGAGGGAGAACGCATTCTCCTCAACCAGGCCA
CTGTCAAATCCACGTGGACTCCTCTCCGAGAGTCCCTTCTCATCTGCCATGACCTTCTACCACGT
GTTGGATGAGACAAGCCCCCTGCCGGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTGGT
GATCTACTGGGGCTTTGAGTTTGTGCCTGTGGTTTCTCTCCTCAAAAATGGAAAAGTATGTGGCTGATT
CAGTCAATTTGAGCAGATCAGGAAGAGCCCGATTGTACCTTCTACTGTGCCGATTCTGAGAAGCAGAAG
CTTGAAGAACAGTACAGGCAAGAGGACCAGAGGGAGCGGGAGCTGAGGAGCCTCTGCTACAGCAGAGCA
ATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205834 protein sequence
Red=Cloning site Green=Tags(s)

MDAIHLGMSSAPLVKHTNGVGLKAHRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTFL
 AATFVMTWFLFGVYYAIAFIHGDLQLGESNSNHTPCIMKVDSL TGAFLFSL ESQTTIGYGVRSITEECP
 HAIFLLVAQLVITLIEIFITGTFLAKIARPKKRAETIKF SHCAVISKQNGKLC LVIQVANMRKSLLIQC
 QLSGKLLQTHVTKEGERILLNQATVKFHVDSSES PFLILPMTFYHVLDETSPLRDLTPQNLKEKELV
 VLLNATVESTSAVCQSRYSIPEE IYWGF EFPVVVSLSKNGKYVADF SQFEQIRKSPDCTFYCADSEKQK
 LEEQYRQEDQRERELRLLLLQSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019664

ORF Size: 1128 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019664.5](#)

RefSeq Size: 5222 bp

RefSeq ORF: 1128 bp

Locus ID: 16516

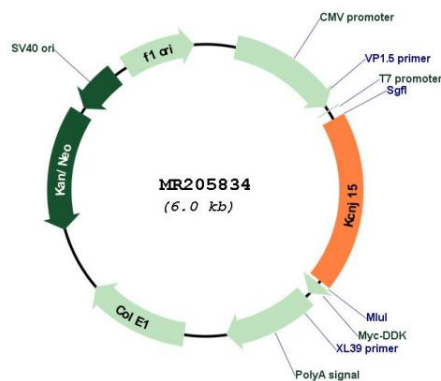
UniProt ID: [O88932](#)

Cytogenetics: 16 55.86 cM

MW: 42.6 kDa

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205834