

Product datasheet for **RR209218**

Kcnj11 (NM_031358) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj11 (NM_031358) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj11
Synonyms: Kir6.2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR209218 representing NM_031358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTCCCGAAAGGGCATTATCCCTGAGGAATATGTGCTGACCCGGCTGGCAGAGGACCTACAGAGC
CCAGGTACCGTACTCGGGAGAGGAGGGCCCGCTTCGTGTCCAAGAAAGGCAACTGCAACGTCGCCACAA
GAACATCCGAGAGCAGGGCCGCTTCTGCAAGATGTGTTACCACGCTGGTGGACCTCAAGTGGCCCCAC
ACGCTGCTCATTTCACCATGTCCTTCTGTGCAGCTGGCTGCTTTCGCCATGGTCTGGTGGCTCATCG
CCTTTGCCACGGTGACTTGGCCCCGGAGAGGGCACCAATGTGCCCTGCGTCACAAGCATCCACTCCTT
TTCGCTGCCTTCTTTTCTCCATCGAGGTCCAGGTGACCATTGGTTTCGGCGGGCGCATGGTGACAGAG
GAATGTCCCCTGGCCATCCTTATTCTGATCGTGCAGAATATCGTAGGGCTAATGATCAACGCCATCATGC
TGGGCTGCATCTTCATGAAAACGGCACAGGCCCATCGGCGGGCAGAAACCCTCATCTTCAGCAAGCATGC
CGTGATCACCCCTGCGACATGGCCGCTGTGCTTCATGCTTCGCGTAGGGGACCTCCGAAAAAGCATGATC
ATTAGCGCCACCATTATATGCAGGTGGTGCAGAACACCAGCCCGGAGGGCGAGGTTGTGCCTCTCC
ACCAGGTGGACATCCCCATGGAGAACGGTGTGGTGGTAAACAGCATCTTCTGGTGGCCCCACTCATCAT
CTACCACGTGATCGACTCCAACAGCCCGCTCTACGACCTGGCTCCTAGTGACCTGCACCACCACAGGAC
CTGGAGATCATTGTCATCTTGAAGGTGGTAGAAACCACAGGCATTACCACCCAGGCCCGCACCTCCT
ATCTGGCTGACGAGATTCTGTGGGGCAGCGTTTTGTCCCATCGTGGCCGAGGAGGATGGCCGCTATTC
TGTGGACTACTCAAATTCGGAACACCGTTAAAGTGCCACACCACTCTGCACAGCCCGCCAGCTTGAT
GAGGACCGCAGCCTGCTGGATGCCCTGACCCTCGCTCGCGAGGGCCCTGCGCAAGCGCAGTGTGG
CTGTGGCAAAGGCCAAGCCCAAGTTTAGCATCTCTCCGGATTCTTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209218 representing NM_031358
Red=Cloning site Green=Tags(s)

MLSRKGIPEEYVLTALAEDPTEPRYRTRERRARFVSKKGNCNVAHKNIREQGRFLQDVFTTLVDLKWPH
 TLLIFTMSFLCSWLLFAMVWVLI AFAHGD LAPGEGTNVPCVTSIHSFSSAFLFSIEVQVTIGFGGRMVTE
 ECPLAILILIVQNI VGLMINAIMLGCIFMKTAQAHRRAETLIFSKHAVITLRHGRLCFMLRVGDLRKSMI
 ISATIHMQVVRKTTSP EGEV VPLHQVDIPMENG VGGNSIFL VAPLIIYHVIDSNSPLYDLAPSDLHHHQD
 LEIIVILEGVVETTGIT TQARTSYLADEILWGQRFVPIVAEEDGRYSVDYSKFGNTVKVPTPLCTARQLD
 EDRSLLDALTLASSRGPLRKR SVAVAKAKPKFSISPDSL S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2252_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_031358

ORF Size: 1170 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_031358.3](#), [NP_112648.2](#)

RefSeq Size: 3051 bp

RefSeq ORF: 1173 bp

Locus ID: 83535

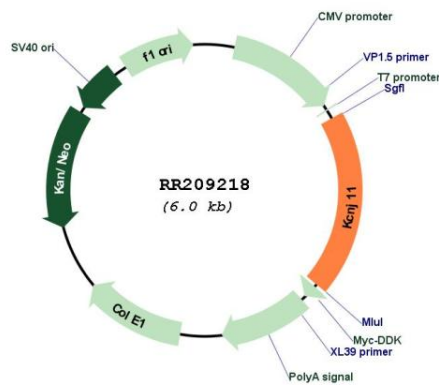
UniProt ID: [P70673](#)

Cytogenetics: 1q22

MW: 44.1 kDa

Gene Summary: an ATP-sensitive K⁺ channel [RGD, Feb 2006]

Product images:



Circular map for RR209218