

Product datasheet for RC216336

KCNJ9 (NM_004983) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNJ9 (NM_004983) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KCNJ9
Synonyms: GIRK3; KIR3.3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC216336 representing NM_004983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCAGGAGAACCGGCCTTCTCGCCGGGCAGGAGAGCCCGCGCGCCGCGCCGCGCCAGCGCT
 ACGTGGAGAAGGATGGCCGGTGAACGTGCAGCAGGGCAACGTGCGCGAGACATACCGCTACCTGACGGA
 CCTGTTACCACGCTGGTGGACCTGCAGTGGCGCCTCAGCCTGTTGTTCTTCGTCCTGGCCTACGCGCTC
 ACCTGGCTTTCTTCGGCGCCATCTGGTGGCTGATCGCCTACGGCCGCGCGACCTGGAGCACTGGAGG
 ACACCGCGTGGAGCCGTGCGTCAACAACCTCAACGGCTTCGTGGCCGCTTCTCTTCTCCATCGAGAC
 CGAGACCACCATCGGCTACGGGCACCGCTCATCACCGACAGTGCCCGAGGGCATCGTGTGCTGCTG
 CTGCAGGCCATCCTGGGCTCCATGGTGAACGCCTTCATGGTGGGCTGCATGTTTCGTCGAAGATCTCGCAGC
 CCAACAAGCGCGCAGCCACGCTCGTCTTCTCCTCGCACGCCGTGGTGTGCTGCGCGACGGGCGCCTCTG
 CCTCATGTTCCGCGTGGGCGACTTGCCTCCTCACACATAGTGGAGGCCCTCCATCCGCGCCAAGCTCATC
 CGCTCGCGCCAGACGCTGGAGGGCGAGTTATCCCGCTGCACCAGACCGACTCAGCGTGGGCTTCGACA
 CGGGAGACGACCGCCTTCTCCTCGTCTCGCCGCTGGTTATCAGCCACGAGATCGACGCCCGCAGCCCTT
 CTGGGAGCGCTCGCGCCGTGCCCTCGAGAGGGACGACTTCGAGATCGTCGTTATCCTCGAGGGCATGGTG
 GAAGCCACGGGAATGACATGCCAAGCTCGGAGCTCCTACCTGGTAGACGAGGTGCTGTGGGGCCACCGCT
 TACGTCAGTGCTGACTCTGGAGGACGGCTTCTACGAAGTGGAATGCCAGCTTTCACGAGACTTTTGA
 GGTGCCACACCTTCGTGCACTGCTCGAGAGCTGGCAGAGGCTGCCGCCGCTTGTGATGCCATCTCTAC
 TGGTCCATCCCCAGCGGCTGGATGAGAAGGTGGAGGAGGGGGCGGGGAGGGGGCGGGTGGGGAAG
 CTGGGGCTGACAAGGAGCAGAATGGCTGCCTGCCACCCCGAGAGAGTGAATCCAAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216336 representing NM_004983
Red=Cloning site Green=Tags(s)

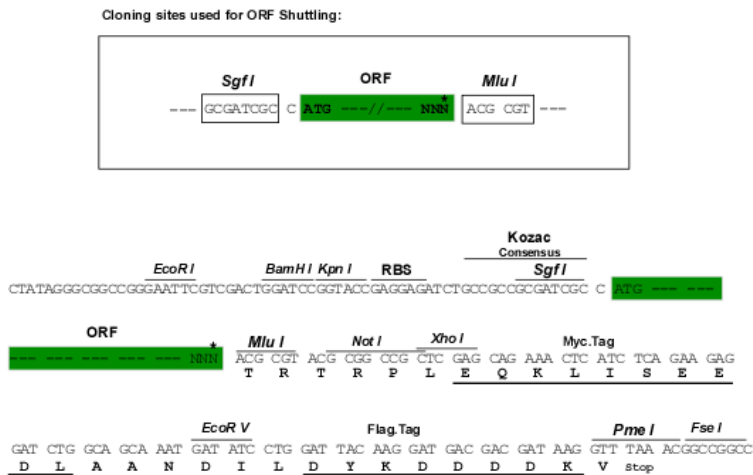
MAQENAAFSPGQEEPPRRRGRQRYVEKDGRCNVQQGNVRETYRYLTDLFTTLVDLQWRLSLLFFVLAYAL
 TWLFFGAIWWLIAYGRGDLEHLEDTAWTPCVNNLNGFVAAFVLSIETETTIGYGHRVITDQCPEGIVLLL
 LQAILGSMVNAFMVGCMTVKISQPNKRAATLVFSSHAVVSLRDGRCLCMFRVGDLRSSHIVEASIRAKLI
 RSRQTLEGEFIPLHQTDLSVGFDTGDDRLFLVSPPLVISHEIDAASPFWEASRRALERDDFEIVVILEGMV
 EATGMTQCARSSYLVDLWGHFRFTSVLTLEDGFYEVDYASFHETFEVPTPSCSARELAEEAARLDAHL
 WSIPSRLLDEKVEEEGAGEGAGGEAGADKEQNGCLPPPESESKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6282_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_004983

ORF Size: 1179 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_004983.3](#)

RefSeq Size: 3029 bp

RefSeq ORF: 1182 bp

Locus ID: 3765

UniProt ID: [Q92806](#)

Cytogenetics: 1q23.2

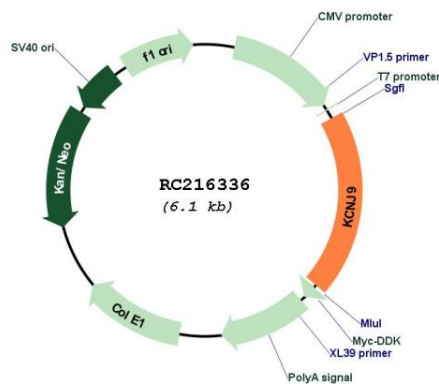
Domains: IRK

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

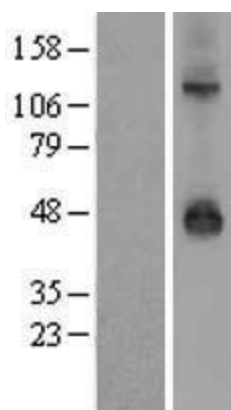
MW: 43.8 kDa

Gene Summary: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. It associates with another G-protein-activated potassium channel to form a heteromultimeric pore-forming complex. [provided by RefSeq, Jul 2008]

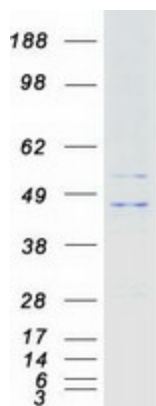
Product images:



Circular map for RC216336



Western blot validation of overexpression lysate (Cat# [LY417612]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216336 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNJ9 protein (Cat# [TP316336]). The protein was produced from HEK293T cells transfected with KCNJ9 cDNA clone (Cat# RC216336) using MegaTran 2.0 (Cat# [TT210002]).