

## Product datasheet for **RG216336**

### KCNJ9 (NM\_004983) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNJ9 (NM\_004983) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCNJ9  
**Synonyms:** GIRK3; KIR3.3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216336 representing NM\_004983  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCGCAGGAGAACCGGCCTTCTCGCCGGGCAGGAGGAGCCCGCGCGCCGCGCCGCGCCAGCGCT  
 ACGTGGAGAAGGATGGCCGGTGAACGTGCAGCAGGGCAACGTGCGCGAGACATACCCTACCTGACGGA  
 CCTGTTACACCACGCTGGTGGACCTGCAGTGGCGCCTCAGCCTGTTGTTCTTCGTCCTGGCCTACGCGCTC  
 ACCTGGCTCTTCTTCGGCGCCATCTGGTGGCTGATCGCCTACGGCCGCGCGACCTGGAGCACTGGAGG  
 ACACCGCGTGGAGCCGTGCGTCAACAACCTCAACGGCTTCGTGGCCGCTTCTCTTCTCCATCGAGAC  
 CGAGACCACCATCGGCTACGGGCACCGCTCATCACCGACAGTGCCCGAGGGCATCGTGCTGCTGCTG  
 CTGCAGGCCATCCTGGGCTCCATGGTGAACGCCTTCATGGTGGGCTGCATGTTTCGTCGAAGATCTCGCAGC  
 CCAACAAGCGCGCAGCCACGCTCGTCTTCTCCTCGCACGCCGTGGTGTGCTGCGCGACGGGCGCCTCTG  
 CCTCATGTTCCGCGTGGGCGACTTGCCTCCTCACACATAGTGGAGGCCCTCCATCCGCGCCAAGCTCATC  
 CGCTCGCGCCAGACGCTGGAGGGCGAGTTCATCCCGCTGCACCAGACCGACCTCAGCGTGGGCTTCGACA  
 CGGGAGACGACCGCCTTCTCCTCGTCTCGCCGCTGTTATCAGCCACGAGATCGACGCCCGCAGCCCTT  
 CTGGGAGCGCTCGCGCCGTGCCCTCGAGAGGGACGACTTCGAGATCGTCGTTATCCTCGAGGGCATGGTG  
 GAAGCCACGGGAATGACATGCCAAGCTCGGAGCTCCTACCTGGTAGACGAGGTGCTGTGGGGCCACCGCT  
 TACGTCAGTGCTGACTCTGGAGGACGGCTTCTACGAAGTGGAATGCCAGCTTTCACGAGACTTTTGA  
 GGTGCCACACCTTCGTGCACTGCTCGAGAGCTGGCAGAGGCTGCCGCCGCTTGTATGCCATCTCTAC  
 TGGTCCATCCCCAGCGGCTGGATGAGAAGGTGGAGGAGGGGGCGGGGAGGGGGCGGGTGGGGAAG  
 CTGGGGCTGACAAGGAGCAGAATGGCTGCCTGCCACCCCGAGAGAGTGAGTCCAAGGTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216336 representing NM\_004983  
Red=Cloning site Green=Tags(s)

MAQENAAFSPGQEEPPRRRRGRQRYVEKDGRGNVQQGNVRETYRYLTDLFTTLVDLQWRLSLLFFVLAYAL  
 TWLFFGAIWWLIAYGRGDLEHLEDTAWTPCVNNLNGFVAAFVLSIETETTIGYGHRVITDQCPEGIVLLL  
 LQAILGSMVNAFVVGCMFVKISQPNKRAATLVFSSHAVVSLRDGRLCLMFRVGDLRSSSHIVEASIRAKLI  
 RSRQTLEGEFIPLHQTDLSVGFDTGDDRLFLVSPPLVISHEIDAASPFWEASRRALERDDFEIVVILEGMV  
 EATGMTCQARSSYLVDLWGHFRFTSVLTLEDGFYEVDYASFHETFEVPTPSCSARELAEEAARLDAHLY  
 WSIPSRLEKVEEEGAGEGAGGEAGADKEQNGCLPPPESESKV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

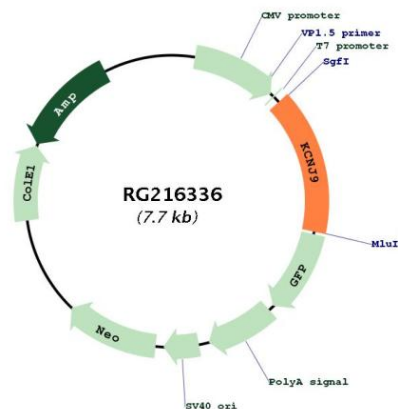
**Cytogenetics:** 1q23.2

**Domains:** IRK

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

**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 RG216336