

Product datasheet for **RG210365**

KCNJ1 (NM_153767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ1 (NM_153767) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNJ1
Synonyms:	KIR1.1; ROMK; ROMK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210365 representing NM_153767 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAATGCTTCCAGTCGGAATGTGTTTGACACGTTGATCAGGGTGTGACAGAAAGTATGTTCAAACATCTTCGAAATGGGTCGTCCTCGCTTTTTGGGCATTCTCGGCAAAGAGCAAGGCTAGTCTCAAAGATGGAAGGTGCAACATAGAATTTGGCAATGTGGAGGCACAGTCAAGGTTTATATTCTTTGTGGACATCTGGACAACGGTACTTGACCTCAAGTGGAGATACAAAATGACCATTTTCATCACAGCCTTCTGGGGAGTTGGTTTTCTTTGGTCTCCTGTGGTATGCAGTAGCGTACATTCACAAAGACCTCCCGAATTCATCCTTCTGCCAATCACACTCCCTGTGTGGAGAATTAATGGCTTGACCTCAGCTTTTCTGTTTTCTCTGGAGACTCAAGTACCATTGGATATGGATTGAGTGTGTGACAGAAGTGTGCCACTGCCATTTTTCTGCTTATCTTTTCAGTCTATACTTGAGTTATAATCAATCTTTTCATGTGTGGGGCCATCTTAGCCAAGATCTCCAGGCCAAAAACGTGCCAAGACCATTACGTTACGAAGAAGCAGTGCATCAGCAAACGGGGAGGGAAAGCTTTGCCTCCTATCCGAGTGGCTAATCTCAGGAAGAGCCTTCTTATTGGCAGTCACATTTATGAAAGCTTCTGAAGACCAAGTCACTCCTGAAGGAGAGACCATTATTTGGACCAGATCAATATCAACTTTGTAGTTGACGCTGGGAAATGAAAATTTATCTTTCATCTCCCATTTGACAATTTACCATGTATTGATCACAACAGCCCTTTCTCCACATGGCAGCGGAGACCCCTTCCAGCAGGACTTTGAATTAGTGGTGTGTTTATAGATGGCACAGTGGAGTCCACCAGTGCTACCTGCCAAGTCCGGACATCCTATGTCCCAGAGGAGGTGCTTTGGGGCTACCGTTTTGCTCCCATAGTATCCAAGACAAAGGAAGGGAAATACCGAGTGGATTTCCATAACTTTAGCAAAGACAGTGGAAAGTGAGACCCCTCACTGTGCCATGTGCCTTTATAATGAGAAAGATGTTAGAGCCAGGATGAAGAGAGGCTATGACAACCCCAACTTCATCTGTGCAAGTCAATGAAACAGATGACACCAAATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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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_153767.1](#), [NP_722451.1](#)

RefSeq Size: 2749 bp

RefSeq ORF: 1119 bp

Locus ID: 3758

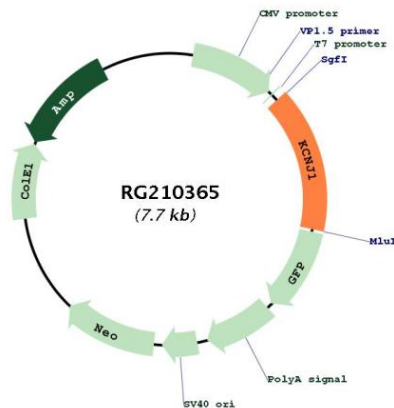
UniProt ID: [P48048](#)

Cytogenetics: 11q24.3

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. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210365