

Product datasheet for **SC119591**

Kir2.1 (KCNJ2) (NM_000891) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kir2.1 (KCNJ2) (NM_000891) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kir2.1
Synonyms:	ATFB9; HHBIRK1; HHIRK1; IRK1; KIR2.1; LQT7; SQT3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000891 edited
 TGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTA
 TAGAATACAAGCTACTTGTCTTTTTGCAGCGCCCGGAATTCGGCACGAGGCCCTGGCC
 AGCGCGCAGCCTTCCCGCGCCGGCGGGCTGGGTCTTGGGAATTCGGTTTGGCTTGGCT
 CACTCGCTTTTACAAACCACTGGATCTTACATGCCTCTGTACCCCCACTTCCACTCCA
 TGTCCCATGCTCCTGCGCCAGCAACAGGACATGTTCTCTGGATGTCAGCTGAGTCATTA
 AAGTAACTCTGCATGTCAGTAGACAGACCTTGGTAGAACCAAGGCTCCCAGAGACACC
 CATCTCTCCTCATTTTTTGGTGTGTGTCTTACCGAACATTCAAACACTGTTTCTCCA
 AAGCGTTTTGCAAAAACCTCAGACTGTTTTCCAAAGCAGAAGCACTGGAGTCCCCAGCAGA
 AGCGATGGGCAGTGTGCGAACCAACCGCTACAGCATCGTCTTTCAGAAGAAGACGGTAT
 GAAGTTGGCCACCATGGCAGTTGCAAAATGGCTTTGGGAACGGGAAGAGTAAAGTCCACAC
 CCGACAACAGTGCAGGAGCCGCTTTGTGAAGAAAGATGGCCACTGTAATGTTTCAGTTCAT
 CAATGTGGGTGAGAAGGGGCAACGGTACCTCGCAGACATCTTACCACGTGTGTGGACAT
 TCGCTGGCGGTGGATGCTGGTTATCTTCTGCCTGGCTTTCGTCTGTGATGGCTGTTTTT
 TGCTGTGTGTTTTGGTTGATAGCTCTGCTCCATGGGGACCTGGATGCATCCAAAGAGGG
 CAAAGCTTGTGTGTCGAGGTTCAACAGCTTACCGCTGCCTTCTCTTCCATTGAGAC
 CCAGACAACCATAGGCTATGGTTTCAGATGTGTACGGATGAATGCCCAATTGCTGTTTT
 CATGGTGGTGTCCAGTCAATCGTGGGCTGCATCATCGATGCTTTCATCATTGGCGCAGT
 CATGGCCAAGATGGCAAAGCCAAAGAAGAGAAACGAGACTCTTGTCTTCAGTCACAATGC
 CGTGATTGCCATGAGAGACGGCAAGCTGTGTTGATGTGGCGAGTGGGCAATCTTCGGAA
 AAGCCACTTGGTGAAGCTCATGTTTCGAGCACAGCTCCTCAAATCCAGAATTACTTCTGA
 AGGGGAGTATATCCCTCTGGATCAAATAGACATCAATGTTGGGTTTGACAGTGAATCGA
 TCGTATATTTCTGGTGTCCCAATCACTATAGTCCATGAAATAGATGAAGACAGTCTTTT
 ATATGATTTGAGTAAACAGGACATTGACAACGCAGACTTTGAAATCGTGGTCATACTGGA
 AGGCATGGTGAAGCCACTGCCATGACGACACAGTGCCGTAGCTCTTATCTAGCAAATGA
 AATCCTGTGGGGCCACCCTATGAGCCTGTGCTCTTTGAAGAGAAGCACTACTACAAAGT
 GGACTATTCCAGGTTCCACAAAACCTTACGAAGTCCCAACACTCCCCTTGTAGTGCCAG
 AGACTTAGCAGAAAAGAAATATATCCTCTCAAATGCAAATTCATTTTGTATGAAAATGA
 AGTTGCCCTCACAAGCAAAGAGGAAGACGACAGTGAATGGAGTTCAGAAAGCACTAG
 TACGGACACGCCCTGACATAGACCTTACAACCAGGCAAGGTACCTCTAGAGCCAG
 GCCCTTACGGCGAGAGTGGAGATATGACTGACTGATTCTTCTCTGGAATAGTTACTTT
 ACAACACGGTCTGTTGGTCAAGGCCCCAAACAGTTATACAGATGACGGTACTGGTCAAG
 ATGGGTCAAGCAAGCGGCCACAAGGGACTGAGGCAAGCACAATGGTTTCAAAGAAAGACT
 GTAAGCTCCATGATTAGCATAAAGCACTAACCATGTCTCCATGTGACCCGATGGCACTNA
 GATGTTGTAGAATAAGTTATGGGTTTTATGTTTTGTTTTGGTGTTTTTCCAAAACCTTGA
 ACTTGCAGGCAAGCCTTGGTTGGGTATTTGATTTATCCAGAATGCTTCTCTTTAGGGAAC
 AAGGATGTTTTTAAATGGCATAACAAAGGCAAGACTCTGCCTTAATTTTTGAAAAGCTGCT
 AACTACA

Restriction Sites: Please inquire

ACCN: NM_000891

Insert Size: 2100 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000891.2.

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:	<ol style="list-style-type: none">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_000891.2 , NP_000882.1
RefSeq Size:	5397 bp
RefSeq ORF:	1284 bp
Locus ID:	3759
UniProt ID:	P63252
Cytogenetics:	17q24.3
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, probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Mutations in this gene have been associated with Andersen syndrome, which is characterized by periodic paralysis, cardiac arrhythmias, and dysmorphic features. [provided by RefSeq, Jul 2008]