

Product datasheet for **SC336002**

KIR5.1 (KCNJ16) (NM_001291625) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_001291625) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ16
Synonyms:	BIR9; KIR5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336002 representing NM_001291625. Blue=Insert sequence Red=Cloning site Green=Tag(s)

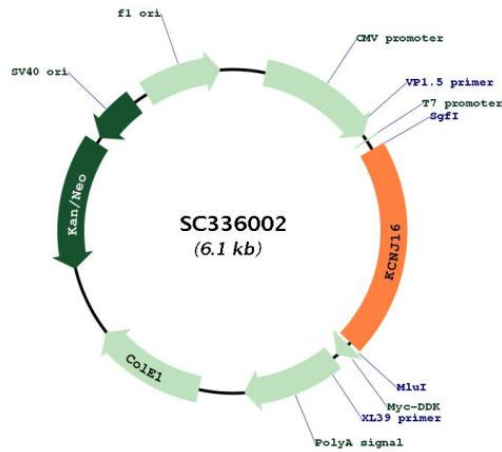
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAATACCCAGGCTACCCGCCAGAG
CACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTAC
TTCAAGCACATTTTTGGAGAATGGGGAAGCTATGTGGTTGACATCTTCACCACTTTGTGGACCAAG
TGGCGCCATATGTTGTGATATTTCTTTATCTTATATCTCTCGTGGTTGATATTTGGCTGTCTTT
TGGCTCATAGCCTTTCATCATGGCGATCTATTAATGATCCAGACATCACACCTTGTGTTGACAACGTC
CATTCTTTCACAGGGCCTTTTTGTTCTCCTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGT
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GAGATTTTGGTGACATTTATCTATACTGGTGATTCCACTGGAACATCTCACCAATCTAGAAGCTCCTAT
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GAATCCCAAATGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_001291625

Insert Size: 1257 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).

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_001291625.1](#)

RefSeq Size: 4165 bp

RefSeq ORF: 1257 bp

Locus ID: 3773

UniProt ID: [Q9NPI9](#)

Cytogenetics: 17q24.3

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

MW: 47.9 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 tends to allow potassium to flow into rather than out of a cell, can form heterodimers with two other inward-rectifier type potassium channels. It may function in fluid and pH balance regulation. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (8) differs in the 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to variant a. Variants 4, 7 and 8 all encode isoform b.