

## Product datasheet for **SC332929**

### **KIR5.1 (KCNJ16) (NM\_001270422) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_001270422) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR5.1
Synonyms:	BIR9; KIR5.1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001270422, the custom clone sequence may differ by one or more nucleotides

```
ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAATACCCAGGCTACCCGCCAGAGC
ACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTACTT
CAAGCACATTTTTGGAGAATGGGGAAGCTATGTGGTTGACATCTTCACCACTCTTGTGGACACCAAGTGG
CGCCATATGTTTGTGATTTTTCTTTATCTTATATTCTCTCGTGGTTGATATTTGGCTCTGTCTTTTGGC
TCATAGCCTTTCATCATGGCGATCTATTAATGATCCAGACATCACACCTTGTGTTGACAACGTCCATTC
TTTCACAGGGCCTTTTTGTCTCCCTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGTGTTACT
GAAGAATGTTCTGTGGCCGTGCTCATGGTGATCCTCCAGTCCATCTTAAGTTGCATCATAAATACCTTTA
TCATTGGAGCTGCCTTGGCCAAAATGGCAACTGCTCGAAAGAGAGCCCAAACCATTGTTTTAGCTACTT
TGCACTTATAGGTATGAGAGATGGGAAGCTTTGCCTCATGTGGCGCATTGGTGATTTTCGGCCAAACCAC
GTGGTAGAAGGAACAGTTAGAGCCCAACTTCTCCGCTATACAGAAGACAGTGAAGGGAGGATGACGATGG
CATTTAAAGACCTCAAATTAGTCAACGACCAAAATCATCCTGGTCACCCCGGTAACATTGTCCATGAAAT
TGACCATGAGAGCCCTCTGTATGCCCTTGACCGCAAAGCAGTAGCCAAAGATAACTTTGAGATTTTGGTG
ACATTTATCTATACTGGTGATTCCACTGGAACATCTCACCAATCTAGAAGCTCTATGTTCCCGAGAAA
TTCTCTGGGGCCATAGGTTTAAATGATGTCTTGGAAAGTTAAGAGGAAGTATTACAAAGTGAAGTGTGACA
GTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTTGCAGTGCCAAAGCAATTGGACTGAAAGACCAGCAG
CTCCACATAGAAAAAGCACCACAGTTGAGAATCCTGCACGTGCGACACCAAGGCGAGACGAAGGTCAT
TTAGTGAGTTGCCATTGTCAGCAGCTGTGAAAACCTGAGGAGACCACCACTTCCGCCACACATGAATA
TAGGGAACACCTTATCAGAAAGCTCTCCTGACTTTAAACAGAATCTCTGTAGAATCCCAAATGTAG
```

Restriction Sites:	EcoRI-KpnI
ACCN:	NM_001270422



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001270422.1](#), [NP\\_001257351.1](#)

**RefSeq Size:** 4209 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 3773

**UniProt ID:** [Q9NPI9](#)

**Cytogenetics:** 17q24.3

**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. 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 (4) 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.