

Product datasheet for **SC310418**

KIR5.1 (KCNJ16) (NM_018658) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_018658) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIR5.1
Synonyms:	BIR9; KIR5.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_018658 edited
GAGAACTCAGTGGCCTTTGTCTGTGGTGAATGTATCCGGAAAGCAAAGAAGAGAGAGAT
TCTCTTGTGGGTTTCTCATCTCCATGGCGGTAGGTGCTGACAGCTTCAGAAGGGTATAA
CAGGGCCAAGAGAAAAGGGCCCTGAGATGCTCAGCTACGGTGCTTTACAAGATGAAAAG
GACATGGGGTTTCAGATCTGCACTTCATCATCTTTCACTAAGACATCCACATTCCACCCTG
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CAAGAAATAGCAACAAGTCTAGAATTTACTACTACAAAACCTCACCTGGATCCCTAAGG
GCACAGCAAAGAATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAA
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TATGTGGTTGACATCTTCACTCTTTGTGGACCAAGTGGCGCCATATGTTTGTGATA
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TCTTTACAGGGGCTTTTTGTTCTCCCTAGAGACCCAAACCACCATAGGATATGGTTAT
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AAGAGGAAGTATTACAAAGTGAAGTCTTACAGTTTGAAGGAAGTGTGGAAGTATATGCC
CCCTTTTGCAGTGCCAAGCAATTGGACTGGAAAGACCAGCAGCTCCACATAGAAAAGCA



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CCACCAGTTCGAGAATCCTGCACGTCGGACACCAAGGCGAGACGAAGGTCATTTAGTGCA
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AATACATTTTGTGTGCTATGAGCCTCTGTAATCAAATGCTTGTACTATAAGAGAGTGT
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TTGACAACCCAGTGAGTTACTTAATAATAAAGATCTTAAAATAATGCAAAAAAAAAAAAA
AAA

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Restriction Sites: Please inquire
ACCN: NM_018658
Insert Size: 4000 bp

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 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](#)

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_018658.1.

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_018658.1](#), [NP_061128.1](#)

RefSeq Size: 4021 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 (1) encodes the longer isoform (a). Variants 1, 2, 3, 5 and 6 all encode isoform a.