OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC238309

KIR5.1 (KCNJ16) (NM_001291623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_001291623) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNJ16
Synonyms:	BIR9; KIR5.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238309 representing NM_001291623
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTAAAAATGGTTCTAACTGAAAACCCAAACCAAGAAATAGCAACAAGTCTAGAATTCTTACTACTAC
AAAACTCACCTGGATCCCTAAGGGCACAGCAAAGAATGAGCTATTACGGCAGCAGCTATCATATTATCAA
TGCGGACGCAAAATACCCAGGCTACCCGCCAGAGCACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGA
TTACTTCACAAAGATGGCAGCTGTAATGTCTACTTCAAGCACATTTTTGGAGAATGGGGAAGCTATGTGG
TTGACATCTTCACCACTCTTGTGGACACCAAGTGGCGCCATATGTTTGTGATATTTTCTTTATCTTATAT
TCTCTCGTGGTTGATATTTGGCTCTGTCTTTTGGCTCATAGCCTTTCATCATGGCGATCTATTAAATGAT
CCAGACATCACACCTTGTGTTGACAACGTCCATTCTTTCACAGGGGCCTTTTTGTTCTCCCTAGAGACCC
AAACCACCATAGGATATGGTTATCGCTGTGTTACTGAAGAATGTTCTGTGGCCGTGCTCATGGTGATCCT
CCAGTCCATCTTAAGTTGCATCATAAATACCTTTATCATTGGAGCTGCCTTGGCCAAAATGGCAACTGCT
CGAAAGAGAGCCCAAACCATTCGTTTCAGCTACTTTGCACTTATAGGTATGAGAGATGGGAAGCTTTGCC
TCATGTGGCGCATTGGTGATTTTCGGCCAAACCACGTGGTAGAAGGAACAGTTAGAGCCCAACTTCTCCG
CTATACAGAAGACAGTGAAGGGAGGATGACGATGGCATTTAAAGACCTCAAATTAGTCAACGACCAAATC
ATCCTGGTCACCCCGGTAACTATTGTCCATGAAATTGACCATGAGAGCCCTCTGTATGCCCTTGACCGCA
AAGCAGTAGCCAAAGATAACTTTGAGATTTTGGTGACATTTATCTATACTGGTGATTCCACTGGAACATC
TCACCAATCTAGAAGCTCCTATGTTCCCCGAGAAATTCTCTGGGGCCATAGGTTTAATGATGTCTTGGAA
GTTAAGAGGAAGTATTACAAAGTGAACTGCTTACAGTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTT
GCAGTGCCAAGCAATTGGACTGGAAAGACCAGCAGCTCCACATAGAAAAAGCACCACCAGTTCGAGAATC
CTGCACGTCGGACACCAAGGCGAGACGAAGGTCATTTAGTGCAGTTGCCATTGTCAGCAGCTGTGAAAAC
CCTGAGGAGACCACCACTTCCGCCACACATGAATATAGGGAAACACCTTATCAGAAAGCTCTCCTGACTT
TAAACAGAATCTCTGTAGAATCCCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

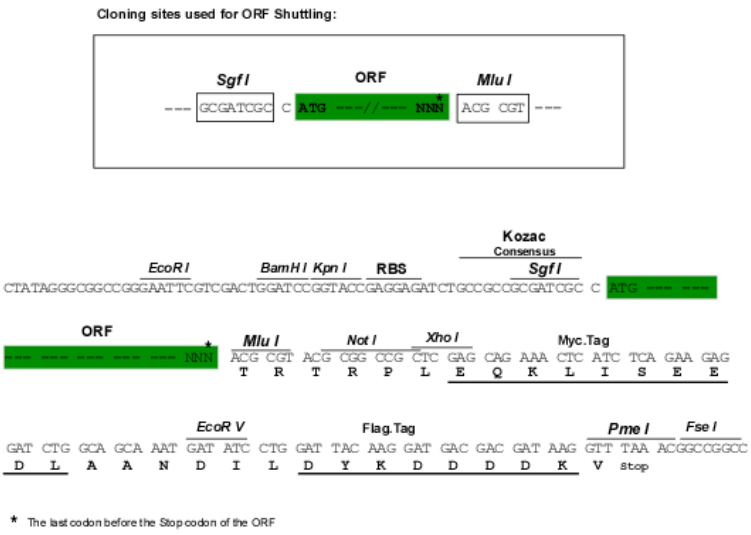
>RC238309 representing NM_001291623
Red=Cloning site Green=Tags(s)

MLKMVLTENPNQEIATSLEFLLLQNSPGSLRAQQRMSYYGSSYHIINADAKYPGYPPEHIIAEKRRARRR
LLHKDGSCNVYFKHIFGEWGSYVVDIFTTLVDTKWRHMFVIFSLSYILSWLIFGSVFWLIAFHHGDLLND
PDITPCVDNVHSFTGAFLFSLETQTTIGYGYRCVTEECSVAVLMVILQSILSCIINTFIIGAALAKMATA
RKRAQTIRFSYFALIGMRDGKLCLMWRIGDFRPNHVVEGTVRAQLLRYTEDSEGRMTMAFKDLKLVNDQI
ILVTPVTIVHEIDHESPLYALDRKAVAKDNFEILVTFIYTGDSTGTSHQSRSSYVPREILWGHRFNDVLE
VKRKYYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQLHIEKAPPVRESCTSDTKARRRSFSAVAIVSSCEN
PEETTTSATHEYRETPYQKALLTLNRISVESQM

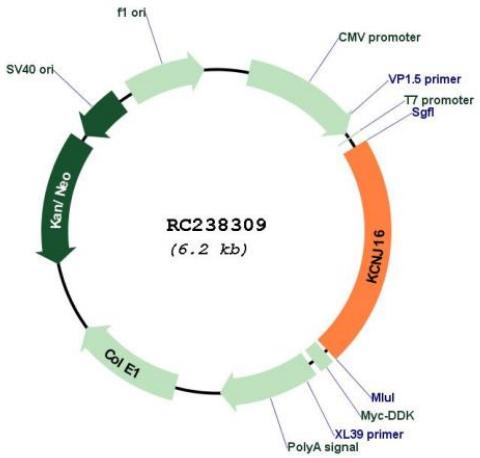
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001291623
ORF Size:	1359 bp
OTI Disclaimer:	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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001291623.1, NP_001278552.1
RefSeq Size:	3956 bp
RefSeq ORF:	1257 bp
Locus ID:	3773
UniProt ID:	Q9NPI9
Cytogenetics:	17q24.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	52.4 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]