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Product datasheet for RC206254

KIR5.1 (KCNJ16) (NM_018658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_018658) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIR5.1
Synonyms:	BIR9; KIR5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206254 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAATACCCAGGCTACCCGCCAGAGC
ACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTACTT
CAAGCACATTTTTGGAGAATGGGGAAGCTATGTGGTTGACATCTTCACCACTCTTGTGGACACCAAGTGG
CGCCATATGTTTGTGATATTTTCTTTATCTTATATTCTCTCGTGGTTGATATTTGGCTCTGTCTTTTGGC
TCATAGCCTTTCATCATGGCGATCTATTAAATGATCCAGACATCACACCTTGTGTTGACAACGTCCATTC
TTTCACAGGGGCCTTTTTGTTCTCCCTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGTGTTACT
GAAGAATGTTCTGTGGCCGTGCTCATGGTGATCCTCCAGTCCATCTTAAGTTGCATCATAAATACCTTTA
TCATTGGAGCTGCCTTGGCCAAAATGGCAACTGCTCGAAAGAGAGCCCAAACCATTCGTTTCAGCTACTT
TGCACTTATAGGTATGAGAGATGGGAAGCTTTGCCTCATGTGGCGCATTGGTGATTTTCGGCCAAACCAC
GTGGTAGAAGGAACAGTTAGAGCCCAACTTCTCCGCTATACAGAAGACAGTGAAGGGAGGATGACGATGG
CATTTAAAGACCTCAAATTAGTCAACGACCAAATCATCCTGGTCACCCCGATAACTATTGTCCATGAAAT
TGACCATGAGAGCCCTCTGTATGCCCTTGACCGCAAAGCAGTAGCCAAAGATAACTTTGAGATTTTGGTG
ACATTTATCTATACTGGTGATTCCACTGGAACATCTCACCAATCTAGAAGCTCCTATGTTCCCCGAGAAA
TTCTCTGGGGCCATAGGTTTAATGATGTCTTGGAAGTTAAGAGGAAGTATTACAAAGTGAACTGCTTACA
GTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTTGCAGTGCCAAGCAATTGGACTGGAAAGACCAGCAG
CTCCACATAGAAAAAGCACCACCAGTTCGAGAATCCTGCACGTCGGACACCAAGGCGAGACGAAGGTCAT
TTAGTGCAGTTGCCATTGTCAGCAGCTGTGAAAACCCTGAGGAGACCACCACTTCCGCCACACATGAATA
TAGGGAAACACCTTATCAGAAAGCTCTCCTGACTTTAAACAGAATCTCTGTAGAATCCCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206254 protein sequence
Red=Cloning site Green=Tags(s)

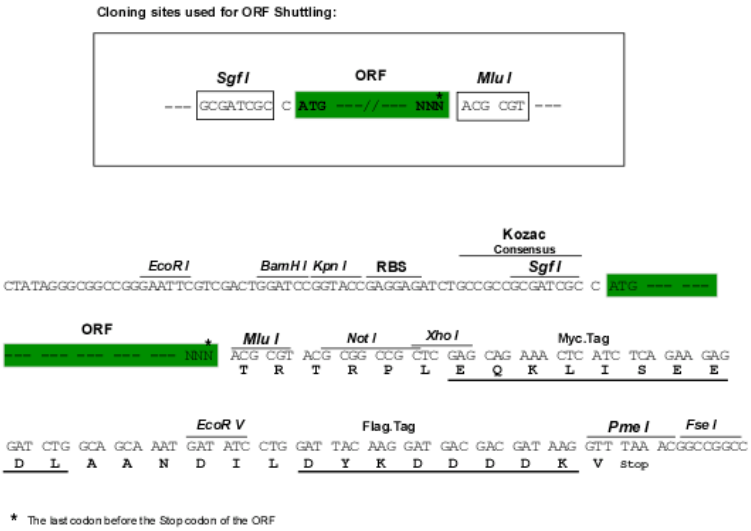
MSYYGSSYHIINADAKYPGYPPEHIIAEKRRARRRLLHKDGSCNVYFKHIFGEWGSYVVDIFTTLVDTKW
RHMFVIFSLSYILSWLIFGSVFWLIAFHHGDLLNDPDITPCVDNVHSFTGAFLFSLETQTTIGYGYRCVT
EECSVAVLMVILQSILSCIINTFIIGAALAKMATARKRAQTIRFSYFALIGMRDGKLCLMWRIGDFRPNH
VVEGTVRAQLLRYTEDSEGRMTMAFKDLKLVNDQIILVTPITIVHEIDHESPLYALDRKAVAKDNFEILV
TFIYTGDSTGTSHQSRSSYVPREILWGHRFNDVLEVKRKYYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQ
LHIEKAPPVRESCTSDTKARRRSFSAVAIVSSCENPEETTTSATHEYRETPYQKALLTLNRISVESQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6318_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018658

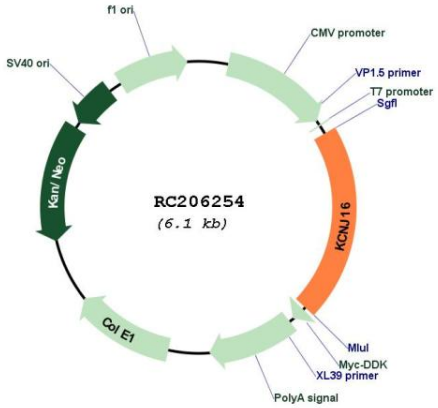
ORF Size: 1254 bp

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.

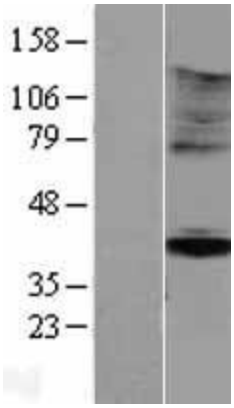
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation:	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_018658.1, NP_061128.1
RefSeq Size:	4081 bp
RefSeq ORF:	1257 bp
Locus ID:	3773
UniProt ID:	Q9NPI9
Cytogenetics:	17q24.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	48 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]

Product images:



Circular map for RC206254



Western blot validation of overexpression lysate (Cat# [LY406861]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212885] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).