

Product datasheet for **RG234038**

KIR5.1 (KCNJ16) (NM_001270422) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIR5.1 (KCNJ16) (NM_001270422) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNJ16
Synonyms: BIR9; KIR5.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG234038 representing NM_001270422
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAATACCCAGGCTACCCGCCAGAGC
ACATTATAGCTGAGAAGAGAAGACAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTACTT
CAAGCACATTTTTGGAGAATGGGAAGCTATGTGGTTGACATCTCACCCTCTGTGGACCAAGTGG
CGCCATATGTTTGTGATATTTCTTTATCTTATATTCTCTCGTGGTTGATATTTGGCTCTGTCTTTTGGC
TCATAGCCTTTCATCATGGCGATCTATTAATGATCCAGACATCACACCTTGTTGACAACGTCCATTC
TTTCACAGGGCCCTTTTGTTCCTTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGTGTTACT
GAAGAATGTTCTGTGGCCGTGCTCATGGTATCCTCCAGTCCATCTTAAGTTGCATCATAAATACCTTTA
TCATTGGAGCTGCCTTGGCCAAATGGCAACTGCTCGAAAGAGAGCCAAACCATTTCGTTTCAGCTACTT
TGCACTTATAGGTATGAGAGATGGGAAGCTTTCCTCATGTGGCGCATTGGTGATTTTCGGCCAAACCAC
GTGGTAGAAGGAACAGTTAGAGCCCACTTCTCCGCTATACAGAAGACAGTGAAGGGAGGATGACGATGG
CATTTAAAGACCTCAAATTAGTCAACGACCAAAATCATCCTGGTCAACCCGGTAACTATTGTCCATGAAAT
TGACCATGAGAGCCCTCTGTATGCCCTTGACCCAAAGCAGTAGCCAAAGATAAATTTGAGATTTTGGTG
ACATTTATCTATACTGGTGATTCCACTGGAACATCTACCAATCTAGAAGCTCTATGTTCCCGAGAGAA
TTCTCTGGGCCATAGGTTTAAATGATGTCTTGGAAAGTTAAGAGGAAGTATTACAAAGTGAAGTGCCTTACA
GTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTTGCAGTGCCAAGCAATTGGACTGGAAGACCAGCAG
CTCCACATAGAAAAAGCACCACCAGTTCGAGAATCCTGCACGTCGGACACCAAGGCGAGACGAAGGTCAT
TTAGTGCAAGTGGCATTGTGAGCAGCTGTGAAAACCTGAGGAGACCACCACTTCCGCCACACATGAATA
TAGGGAACACCTTATCAGAAAGCTCTCCTGACTTTAAACAGAATCTCTGTAGAATCCCAAATG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234038 representing NM_001270422
 Red=Cloning site Green=Tags(s)

MSYYGSSYHIINADAKYPGYPPEHIIAEKRRARRRLLHKDGCNVYFKHIFGEWGSYVVDIFFTLLVDTKW
 RHMVFVIFSLSYILSWLIFGSVFWLIAFHGGDLLNDPDIIPCVDNVHSFTGAFLLSLETQTTIGYGYRCVT
 EECSVAVLMVILQSIILSCIINTFIIGAALAKMATARKRAQTIRFSYFALIGMRDGKLCMLMWRIGDFRPNH
 VVEGTVRAQLLRYTEDSEGRMTMAFKDLKLVNDQIILVTPVTIVHEIDHESPLYALDRKAVAKDNFEILV
 TFIYTG DSTGTSQRSYVPREILWGHFRFNDVLEVKRKYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQ
 LHIEKAPPVRESCTSDTKARRRSFSAVAIVSSCENPEETTTSATHEYRETPYQKALLTLNRI SVESQM

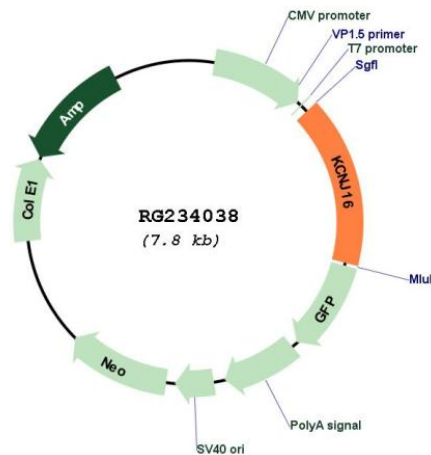
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270422

ORF Size:	1254 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none">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]