

Product datasheet for **RG238108**

KIR5.1 (KCNJ16) (NM_001291625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_001291625) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIR5.1
Synonyms:	BIR9; KIR5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238108 representing NM_001291625. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAATACCCAGGCTACCCGCCAGAG
CACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTAC
TTCAAGCACATTTTTGGAGAATGGGGAAGCTATGTGGTTGACATCTTCACCACTCTGTGGACCAAG
TGGCGCCATATGTTTGTGATATTTCTTTATCTTATATCTCTCGTGGTTGATATTTGGCTGTCTTT
TGGCTCATAGCCTTTCATCATGGCGATCTATTAATGATCCAGACATCACACCTGTGTGACAACGTC
CATTCTTTCACAGGGCCTTTTTGTTCTCCTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGT
GTTACTGAAGAATGTTCTGTGGCCGTGCTCATGGTGATCCTCCAGTCCATCTTAAGTTGCATCATAAAT
ACCTTTATCATTGGAGCTGCCTTGGCCAAAATGGCAACTGCTCGAAAGAGAGCCCAAACCATTCGTTTC
AGCTACTTTGCACTTATAGGTATGAGAGATGGGAAGCTTTGCCTCATGTGGCGCATTGGTGATTTTCGG
CCAAACCACGTGGTAGAAGGAACAGTTAGAGCCCAACTTCTCCGCTATACAGAAGACAGTGAAGGGAGG
ATGACGATGGCATTAAAGACCTCAAATTAGTCAACGACCAAAATCATCCTGGTCAACCCGATAACTATT
GTCCATGAAATTGACCATGAGAGCCCTGTATGCCCTTGACCGCAAAGCAGTAGCCAAAGATAACTTT
GAGATTTTGGTGACATTTATCTATACTGGTGATTCCACTGGAACATCTCACCAATCTAGAAGCTCCTAT
GTTCCCGAGAAATCTCTGGGCCATAGGTTAATGATGTCTTGGAAAGTTAAGAGGAAGTATTACAAA
GTGAACTGCTTACAGTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTTGCAGTGCCAAGCAATTGGAC
TGGAAAGACCAGCAGCTCCACATAGAAAAAGCACCACCAGTTCGAGAATCCTGCACGTGGACACCAAG
GCGAGACGAAGGTCATTTAGTGCAGTTGCCATTGTGAGCAGCTGTGAAAACCCTGAGGAGACCACCACT
TCCGCCACACATGAATATAGGGAACACCTTATCAGAAAGCTCTCCTGACTTTAAACAGAATCTCTGTA
GAATCCCAAATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238108
 Blue=ORF Red=Cloning site Green=Tag(s)

MSYYGSSYHIINADAKYPGPPEHIIAEKRRARRRLLHKDGCNVYFKHIFGEWGSYVVDIFFTLVDTK
 WRHMFVIFSLSYILSWLIFGSVFWLIAFHGDLNDPDI TPCVDNVHSFTGAFLFSETQTTIGYGYRC
 VTEECVAVLMVILQSILSCIINTFIIGAALAKMATARKRAQTIRFSYFALIGMRDGKLCMLWRIGDFR
 PNHVVEGTVRAQLLRYTEDSEGRMTMAFKDLKLVNDQIILVPTITIVHEIDHESPLYALDRKAVAKDNF
 EILVTFIYTG DSTGTS HQSRSSVYPREILWGHFRNDVLEVKRKYKVNCLQFEGSVEVYAPFCSAKQLD
 WKDQQLHIEKAPPVRESCTSDTKARRRSFSAVAIVSSCENPEETTSATHEYRETPYQKALLTLNRLSV
 ESQM
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291625

ORF Size: 1254 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](#)

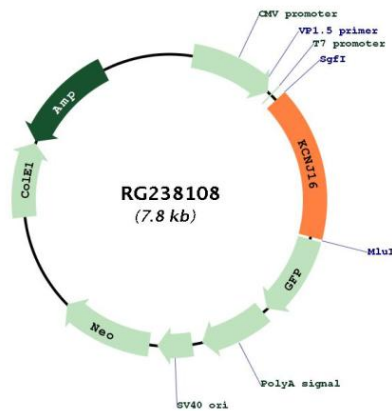
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001291625.1](#), [NP_001278554.1](#)

RefSeq Size:	4165 bp
RefSeq ORF:	1257 bp
Locus ID:	3773
UniProt ID:	<u>Q9NPI9</u>
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 RG238108