

Product datasheet for **RG232609**

KCNJ15 (NM_001276436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ15 (NM_001276436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNJ15
Synonyms:	IRKK; KIR1.3; KIR4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232609 representing NM_001276436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCCATTCACATCGGCATGTCCAGCACCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAGG
CCAACAGACCCCGCTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGGATGGCATATA
CCTACTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAGTGGAGATACAACTCACCTGTTC
GCTGCCACTTTTGTGATGACCTGGTTCCTTTTGGAGTCATCTACTATGCCATCGCGTTTATTCATGGG
ACTTAGAACCCGGTGAGCCATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTCACTGGGGC
GTTTCTCTTTCCCTGGAATCCCAGACAACATTGGCTATGGAGTCCGTTCCATCACAGAGGAATGTCT
CATGCCATCTTCTGTTGGTTGCTCAGTTGGTCATCACGACCTTGATTGAGATCTTCATCACCGAACCT
TCCTGGCCAAAATCGCCAGACCCAAAAGCGGGCTGAGACCATCAAGTTCAGCCACTGTGCAGTCATCAC
CAAGCAGAATGGGAAGCTGTGCTTGGTATTAGGTAGCCAATATGAGGAAGAGCCTCTTGATTCAGTGC
CAGCTCTCTGGCAAGCTCCTGCAGACCCACGTACCAAGGAGGGGAGCGGATTCTCTCAACCAAGCCA
CTGTCAAATCCACGTGGACTCCTCCTGAGAGCCCCCTCTCATTCTGCCATGACATTCTACCATGT
GCTGGATGAGACGAGCCCCCTGAGAGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTTGTG
GTCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACATCTTATATCCCAGAG
AAATCTACTGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCCAAAATGGAAAATATGTGGCTGATT
CAGTCAGTTTGAACAGATTTCGAAAAGCCAGATTGCACATTTTACTGTGCAGATTCTGAGAAAACAGCAA
CTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGAAAAGAGAAGTGGAGACTTTTATTACAACAGAGCA
ATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232609 representing NM_001276436
Red=Cloning site Green=Tags(s)

MDAIHIGMSSTPLVKHTAGAGLKANRPVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTFL
 AATFVMTWFLFGVIYYAIAFIHGDLPEGEPISNHTPCIMKVDSL TGAFLFSLSQTTIGYGVRSITEECP
 HAIFLLVAQLVITTLIEIFITGTFLAKIARPKKRAETIKF SHCAVITKQNGKLC LVIQVANMRKSLLIQC
 QLSGKLLQTHVTKEGERILLNQATVKFHVDSSESPPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELV
 VLLNATVESTSAVCQSRSTSYIPEEYWGFEFVPVVSLSKNGKYVADF SQFEQIRKSPDCTFYCADSEKQQ
 LEEKYRQEDQRERELRLLLLQQSNV

TRTRPLE - GFP Tag - V

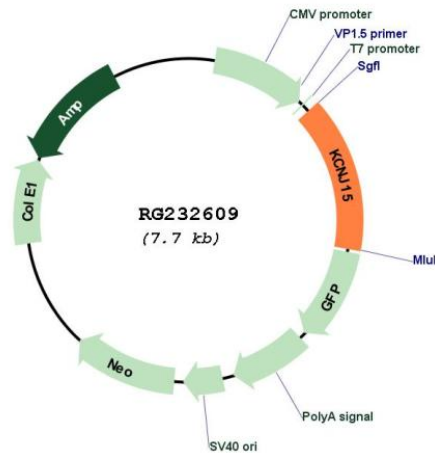
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001276436

ORF Size:	1125 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:	<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_001276436.1 , NP_001263365.1
RefSeq Size:	3084 bp
RefSeq ORF:	1128 bp
Locus ID:	3772
UniProt ID:	Q99712
Cytogenetics:	21q22.13-q22.2
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 has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Eight transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2013]