

## Product datasheet for **RG217854**

### KCNJ15 (NM\_170736) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ15 (NM_170736) 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:	>RG217854 representing NM_170736 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGCCATTCACATCGGCATGTCCAGCACCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAGG  
CCAACAGACCCCGCTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGGATGGCATATA  
CCTACTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAGTGGAGATACAACTCACCTGTTC  
GCTGCCACTTTTGTGATGACCTGGTTCCTTTTGGAGTCATCTACTATGCCATCGCGTTTATTCATGGG  
ACTTAGAACCCGGTGAGCCATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTACTGGGGC  
GTTTCTCTTTCCCTGGAATCCCAGACAACATTGGCTATGGAGTCCGTTCCATCACAGAGGAATGTCT  
CATGCCATCTTCTGTTGGTTGCTCAGTTGGTCATCACGACCTTGATTGAGATCTTCATCACCGAACCT  
TCCTGGCCAAAATCGCCAGACCCAAAAGCGGGCTGAGACCATCAAGTTCAGCCACTGTGCAGTCATCAC  
CAAGCAGAATGGGAAGCTGTGCTTGGTATTAGGTAGCCAATATGAGGAAGAGCCTCTTGATTCAGTGC  
CAGCTCTCTGGCAAGCTCCTGCAGACCCACGTACCAAGGAGGGGGAGCGGATTCTCCTCAACCAAGCCA  
CTGTCAAATCCACGTGGACTCCTCCTGAGAGCCCCCTCCTCATTCTGCCATGACATTCTACCATGT  
GCTGGATGAGACGAGCCCCCTGAGAGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTTGTG  
GTCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACATTTATATCCAGAGG  
AAATCTACTGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCCAAAAATGGAAAATATGTGGCTGATTT  
CAGTCAGTTTGAACAGATTTCGAAAAGCCAGATTGCACATTTTACTGTGCAGATTCTGAGAAAACAGCAA  
CTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGAAAAGAGAAGTGGAGACTTTTATTACAACAGAGCA  
ATGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217854 representing NM\_170736  
 Red=Cloning site Green=Tags(s)

MDAIHIGMSSTPLVKHTAGAGLKANRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTFL  
 AATFVMTWFLFGVIYYAIAFIHGDLPEGEPISNHTPCIMKVDSL TGAFLFSLQSQTITIGYGVRSITEECP  
 HAIFLLVAQLVITTLIEIFITGTFLAKIARPKKRAETIKF SHCAVITKQNGKLC LVIQVANMRKSLLIQC  
 QLSGKLLQTHVTKEGERILLNQATVKFHVDSSESPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELV  
 VLLNATVESTSAVCQSRSTSYIPEEYWGFEFVPVVSLSKNGKYVADF SQFEQIRKSPDCTFYCADSEKQQ  
 LEEKYRQEDQRERELRLLLLQQSNV

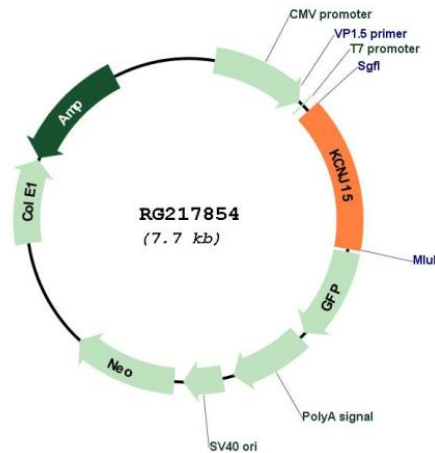
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_170736

<b>ORF Size:</b>	1125 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_170736.3</a>
<b>RefSeq Size:</b>	2919 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	3772
<b>UniProt ID:</b>	<a href="#">Q99712</a>
<b>Cytogenetics:</b>	21q22.13-q22.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	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]