

Product datasheet for RC217854

KCNJ15 (NM_170736) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KCNJ15 (NM_170736) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | KCNJ15 |
| Synonyms: | IRKK; KIR1.3; KIR4.2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC217854 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCCATTCACATCGGCATGTCCAGCACCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAGG
CCAACAGACCCCGCTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGGATGGCATATA
CCTACTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAGTGGAGATACAACTCACCTGTTC
GCTGCCACTTTTGTGATGACCTGGTTCCTTTTGGAGTCATCTACTATGCCATCGCGTTTATTCATGGG
ACTTAGAACCCGGTGAGCCATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTACTGGGGC
GTTTCTCTTTCCCTGGAATCCCAGACAACCATTGGCTATGGAGTCCGTTCCATCACAGAGGAATGTCT
CATGCCATCTTCTGTTGGTTGCTCAGTTGGTCATCACGACCTTGATTGAGATCTTCATCACCGGAACCT
TCCTGGCCAAAATCGCCAGACCCAAAAGCGGGCTGAGACCATCAAGTTCAGCCACTGTGCAGTCATCAC
CAAGCAGAATGGGAAGCTGTGCTTGGTATTAGGTAGCCAATATGAGGAAGAGCCTCTTGATTCAGTGC
CAGCTCTCTGGCAAGCTCCTGCAGACCCACGTACCAAGGAGGGGGAGCGGATTCTCTCAACCAAGCCA
CTGTCAAATCCACGTGGACTCCTCCTGAGAGCCCCCTCTCATTCTGCCATGACATTCTACCATGT
GCTGGATGAGACGAGCCCCCTGAGAGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTTGTG
GTCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACATCTTATATCCAGAG
AAATCTACTGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCCAAAATGGAAAATATGTGGCTGATTT
CAGTCAGTTTGAACAGATTTCGAAAAGCCAGATTGCACATTTTACTGTGCAGATTCTGAGAAAACAGCAA
CTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGAAAAGAGAAGTGGAGACTTTTATTACAACAGAGCA
ATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217854 protein sequence
Red=Cloning site Green=Tags(s)

MDAIHIGMSSTPLVKHTAGAGLKANRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTFL
 AATFVMTWFLFGVIYYAIAFIHGDLPEGEPISNHTPCIMKVDSL TGAFLFSLESQTTIGYGVRSITEECP
 HAIFLLVAQLVITLIEIFITGTFLAKIARPKKRAETIKFSHCAVITKQNGKLC LVIQVANMRKSLLIQC
 QLSGKLLQTHVTKEGERILLNQATVKFHVDSSESPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELV
 VLLNATVESTSAVCQSRTSYIPEEIIYWGFEFVPVVSLSKNGKYVADF SQFEQIRKSPDCTFYCADSEKQQ
 LEEKYRQEDQRERELRLLLLQQSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6575_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_170736

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:

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_170736.3](#)

RefSeq Size: 3094 bp

RefSeq ORF: 1128 bp

Locus ID: 3772

UniProt ID: [Q99712](#)

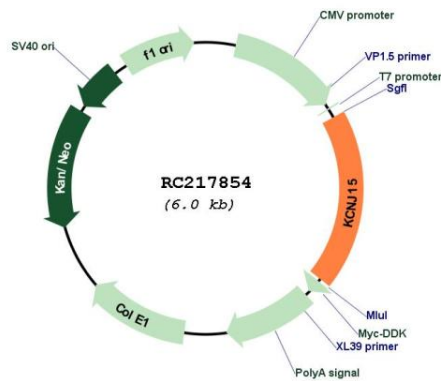
Cytogenetics: 21q22.13-q22.2

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

MW: 42.6 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 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]

Product images:



Circular map for RC217854