

## Product datasheet for MR229572

### Kcnj15 (NM\_001271693) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj15 (NM_001271693) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj15
Synonyms:	4930414N08Rik; AI182284; AI267127; IRKK; Kir4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229572 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGCCATTCACCTTGGCATGTCCAGTGCCCCACTGGTGAAGCATACCAACGGGTTGGACTCAAGG  
CCCACAGACCCCGAGTCATGTCAAAGAGTGGGCACAGTAATGTGAGAATCGATAAGGTAGACGGAATCTA  
TTTACTCTACCTCCAGGACTTGTGGACAACCGTCATCGACATGAAGTGGCGATAACAAGCTCACCCATTT  
GCTGCCACCTTTGTGATGACCTGGTTTCTGTTTGGAGTGGTCTACTATGCCATAGCCTTTATTTCATGGT  
ACTTACAACCTTGGGAATCTAATTCCAACCACACACCCTGCATTATGAAAGTGGACTCTCTCACAGGAGC  
ATTCTCTTTTTCCTTGAATCTCAGACAACCATTGGCTACGGGGTCCGTTCCATCACAGAGGAGTGTCCC  
CATGCTATCTTCTCTTAGTCGCCCAACTGGTCATCACCACATTGATTGAGATCTTCATTACGGGGACCT  
TTCTGGCTAAAATTGCAAGACCCAAAAGCGAGCCGAGACCATTAAGTTCAGCCACTGTGCTGTGCATCAG  
CAAGCAGAATGGAAAGCTATGCCTGGTCATCCAGGTGGCCAACATGAGGAAGAGTCTCCTGATTCAAGTGC  
CAGCTCTCTGGAAAACCTCTGCAGACACACGTCACCAAAGAGGGAGAACGCATTCTCCTCAACCAGGCCA  
CTGTCAAATCCACGTGGACTCCTCTCCGAGAGTCCCTTCTCATCCTGCCATGACCTTCTACCACGT  
GTTGGATGAGACAAGCCCCCTGCCGGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTGGTG  
GACTTCTCAACGCCACGGTGGAGTCTACCAGCGCCGTCTGCCAGAGCCGAACGCTTACATCCCGGAGG  
AGATCTACTGGGGCTTTGAGTTTGTGCCTGTGGTTTCTCTCCTCAAAAATGGAAAAGTATGTGGCTGATT  
CAGTCAATTTGAGCAGATCAGGAAGAGCCGGATTGTACCTTCTACTGTGCCGATTCTGAGAAGCAGAAG  
CTTGAAGAACAGTACAGGCAAGAGGACCAGAGGGAGCGGGAGCTGAGGAGCCTCCTGCTACAGCAGAGCA  
ATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229572 protein sequence  
 Red=Cloning site Green=Tags(s)

MDAIHLGMSSAPLVKHTNGVGLKAHRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTFL  
 AATFVMTWFLFGVYYAIAFIHGDLQLGESNSNHTPCIMKVDSL TGAFLFSLESQTTIGYGVRSITEECP  
 HAIFLLVAQLVITLIEIFITGTFLAKIARPKKRAETIKFSHCAVISKQNGKLC LVIQVANMRKSLLIQC  
 QLSGKLLQTHVTKEGERILLNQATVKFHVDSSESPPFLILPMTFYHVLDETSPLRDLTPQNLKEKELV  
 VLLNATVESTAVCQSRYSYIPEEYWGFEFVPVVSLSKNGKYVADF SQFEQIRKSPDCTFYCADSEKQK  
 LEEQYRQEDQRERELRLLLLQSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271693

**ORF Size:** 1128 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\\_001271693.1](#), [NP\\_001258622.1](#)

**RefSeq Size:** 5073 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 16516

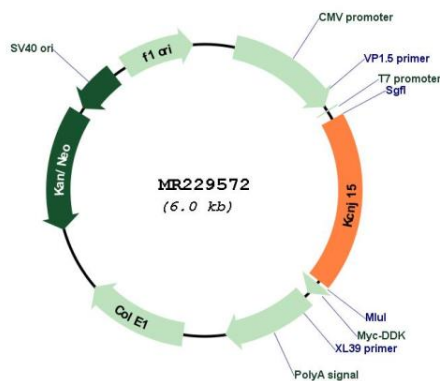
**UniProt ID:** [O88932](#)

**Cytogenetics:** 16 55.86 cM

**MW:** 42.6 kDa

**Gene Summary:** Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR229572