

## Product datasheet for **MG224600**

### Kcnj15 (NM\_001039057) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj15 (NM_001039057) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnj15
Synonyms:	4930414N08Rik; AI182284; AI267127; IRKK; Kir4.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224600 representing NM_001039057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAGCCAGGTGGGAGAAGGGGAGCGAGGACGCGCCACTTACCCTGCAGAAGATTCCTGACCTACAGA  
GTGGTCCAAGATGGATGCCATTCACCTTGGCATGTCCAGTGCCCACTGGTGAAGCATAACACGGGGT  
TGGACTCAAGGCCACAGACCCCGAGTCATGTCAAAGAGTGGGCACAGTAATGTGAGAATCGATAAGGTA  
GACGGAATCTATTTACTCTACCTCCAGGACTTGTGGACAACCGTCATCGACATGAAGTGGCGATAACAAGC  
TACCCTATTTGCTGCCACCTTTGTGATGACCTGGTTTCTGTTTGGAGTGGTCTACTATGCCATAGCCTT  
TATTCATGGTGACTTACAACCTGGGGAATCTAATTCACAACACACCCCTGCATTATGAAAGTGGACTCT  
CTCACAGGAGCATTCTCTTTCTTGGAACTCAGACAACCAATTGGCTACGGGGTCCGTTCCATCACAG  
AGGAGTGTCCCATGCTATCTTCTCTTAGTCGCCCAACTGGTCATCACCACATTGATTGAGATCTTCAT  
TACGGGGACCTTTCTGGCTAAAATTGCAAGACCAAAAAGCGAGCCGAGACCATTAAGTTTCAGCCACTGT  
GCTGTCATCAGCAAGCAGAATGGAAGCTATGCCTGGTCATCCAGGTGGCCAACATGAGGAAGAGTCTCC  
TGATTCAGTGCCAGCTCTCTGAAAACCTCTGCAGACACCGTCACCAAGAGGGGAGAACGCATTCTCT  
CAACCAGGCCACTGTCAAATCCACGTGGACTCCTCTCCGAGAGTCCCTTCTCATCTGCCCCATGACC  
TTCTACCACGTGTTGGATGAGACAAGCCCCCTGCGGGACCTCACACCCAAAACCTAAAGGAGAAGGAGT  
TTGAGCTGGTGGTACTTCTCAACGCCACGGTGGAGTCTACCAGCGCCGCTGCCAGAGCCGAACGTCTTA  
CATCCCGAGGAGATCTACTGGGCTTTGAGTTTGTGCCTGTGGTTTCTCTCTCCAAAAATGGAAGTAT  
GTGGCTGATTTAGTCAATTTGAGCAGATCAGGAAGAGCCGGATTGTACCTTCTACTGTGCCGATTCTG  
AGAAGCAGAAGCTTGAAGAACAGTACAGGCAAGAGGACCAGAGGGAGCGGGAGCTGAGGAGCCTCTGCT  
ACAGCAGAGCAATGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224600 representing NM\_001039057  
 Red=Cloning site Green=Tags(s)

MVARWEKGSSEDAPLTLQKIPDLQSGPKMDAHLGMSSAPLVKHTNGVGLKAHRPRVMSKSGHSNVRIDKV  
 DGIYLLYLQDLWTTVIDMKWRYKLTFLAATFVMTWFLFGVYVYAI AF IHGDLQLGESNSNHTPCIMKVDS  
 LTGAFLFSLESQTTIGYGVRSITEECPHAI FLLVAQLVITTLIEIFITGTFLAKIARPKKRAETIKF SHC  
 AVISKQNGKLC LVIQVANMRKSLLIQCQLSGKLLQTHVTKEGERILLNQATVKFHVDSSESSEPFILPMT  
 FYHVLDETSPLRDLTPQNLKEFEFELVLLLNATVESTSAVCQSRTSYIPEEIYWGFEFVPPVVSLSKNGKY  
 VADFSQFEQIRKSPDCTFYCADSEKQKLEEQYRQEDQRERELRSLLLQSSNV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039057

**ORF Size:** 1206 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\\_001039057.2](#)

**RefSeq Size:** 5138 bp

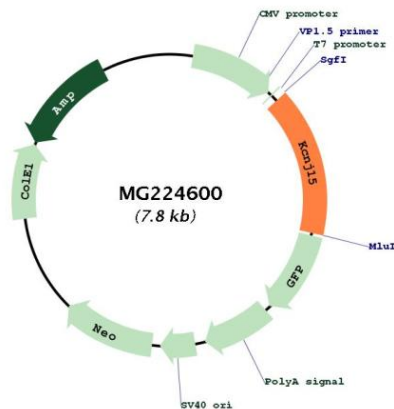
**RefSeq ORF:** 1209 bp

**Locus ID:** 16516

**Cytogenetics:** 16 55.86 cM

**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 MG224600