

Product datasheet for MR229713

Kcnj15 (NM_001271690) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj15 (NM_001271690) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj15
Synonyms: 4930414N08Rik; AI182284; AI267127; IRKK; Kir4.2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229713 representing NM_001271690
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTAGCCAGGTGGGAGAAGGGGAGCGAGGACGCGCCACTTACCCTGCAGAAGATTCTGACCTACAGA
 GTGGTCCAAGATGGATGCCATTCACCTTGGCATGTCCAGTGCCCACTGGTGAAGCATACCAACGGGGT
 TGGACTCAAGGCCACAGACCCCGAGTCATGTCAAAGAGTGGGCACAGTAATGTGAGAATCGATAAGGTA
 GACGGAATCTATTTACTCTACCTCCAGGACTTGTGGACAACCGTCATCGACATGAAGTGGCGATACAAGC
 TCAACCCTATTTGCTGCCACCTTTGTGATGACCTGGTTTCTGTTTGGAGTGGTCTACTATGCCATAGCCTT
 TATTCATGGTGACTTACAACCTTGGGGAATCTAATTCCAACCACACACCCTGCATTATGAAAGTGGACTCT
 CTCACAGGAGCATTCTCTTTTCTTGGAACTCAGACAACCAATTGGCTACGGGGTCCGTTCCATCACAG
 AGGAGTGTCCCATGCTATCTTCCTCTTAGTCGCCCAACTGGTCATCACCACATTGATTGAGATCTTCAT
 TACGGGGACCTTTCTGGCTAAAATTGCAAGACCCAAAAGCGAGCCGAGACCATTAAGTTCAGCCACTGT
 GCTGTATCAGCAAGCAGAATGGAAAGCTATGCCTGGTCATCCAGGTGGCCAACATGAGGAAGATCTCC
 TGATTCAGTGCCAGCTCTCTGGAAAACCTCTGCAGACACAGTCACCAAAGAGGGAGAACGCATTCTCCT
 CAACCAGGCCACTGTCAAATCCAGTGGACTCCTCTTCCGAGAGTCCCTTCTCATCTGCCCCATGACC
 TTCTACCACGTGTTGGATGAGACAAGCCCCCTGCGGGACCTCACACCCAAAACCTAAAGGAGAAGGAGT
 TTGAGCTGGTGGTACTTCTCAACGCCACGGTGGAGTCTACCAGCGCCGTCTGCCAGAGCCGAACGTCTTA
 CATCCCGGAGGAGATCTACTGGGCTTTGAGTTTGTGCCTGTGGTTTCTCTCTCCAAAATGGAAAGTAT
 GTGGCTGATTTCAAGTCAATTTGAGCAGATCAGGAAGAGCCGGATTGTACCTTCTACTGTCCGATTCTG
 AGAAGCAGAAGCTTGAAGAACAGTACAGGCAAGAGGACCAGGGAGCGGGAGCTGAGGAGCCTCCTGCT
 ACAGCAGAGCAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229713 representing NM_001271690
Red=Cloning site Green=Tags(s)

MVARWEKGSSEDAPLTLQKIPDLQSGPKMDAHLGMSSAPLVKHTNGVGLKAHRPRVMSKSGHSNVRIDKV
 DGIYLLYLQDLWTTVIDMKWRYKLTFLAATFVMTWFLFGVYVYAIAFIHGDLQLGESNSNHTPCIMKVDS
 LTGAFLFSLESQTTIGYGVRSITEECPHAIFLLVAQLVITTLIEIFITGTFLAKIARPKKRAETIKFSHC
 AVISKQNGKLCCLVIQVANMRKSLLIQCQLSGKLLQTHVTKEGERILLNQATVKFHVDDSSSEPFILPMT
 FYHVLDETSPLRDLTPQNLKEKEFELVLLLNATVESTSAVCQSRTSYIPEEYWGFEFVPPVVSLSKNGKY
 VADFSQFEQIRKSPDCTFYCADSEKQKLEEQYRQEDQRERELRSLLLQQSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

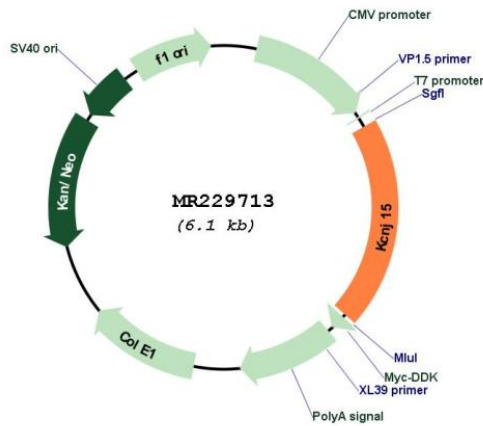
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271690

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:	<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_001271690.1 , NP_001258619.1
RefSeq Size:	5138 bp
RefSeq ORF:	1209 bp
Locus ID:	16516
Cytogenetics:	16 55.86 cM
MW:	46 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]