

Product datasheet for **RR215529**

Kcnj12 (NM_053981) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj12 (NM_053981) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj12
Synonyms:	IRK2; Kir2.1; Kir2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR215529 representing NM_053981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGCAGCCAGTCGGGCCAACCCCTACAGCATCGTATCATCAGAGGAGGACGGGCTGCACCTGGTTA
 CCATGTCAGGCGCAACGGTTTTGGCAATGGCAAGGTGCATACACGGCGCCGGTGCCGAACCGCTTTGT
 CAAGAAGAACGGTCAGTGAACATTGAATTCGCCAACATGGATGAGAAGTCACAGCGCTACCTGGCTGAC
 ATGTTTACCACATGTGTGGATATCCGCTGGCGCTACATGCTGCTCATCTTCTCTCTGGCCTTTCTTGCT
 CCTGGTTGCTGTTCCGCATCATCTTCTGGGTATTGCGGTGCGCCACGGAGACCTGGAGCCGGCTGAGGG
 CCGCGCCGTACACCCTGTGTGCTACAGGTCCATGGCTTTATGGCAGCCTTTCTCTTCTCCATTGAGACG
 CAGACCACATTGGCTACGGCTACGATGCGTGACTGAAGAGTGGCCAGTGGCTGTCTTCATGGTGGTGG
 CTCAGTCCATTGTTGGCTGCATCATTGACTCCTTCATGATCGGCGCCATCATGGCCAAGATGGCGCGCC
 CAAGAAGCGAGCAGACTCTGCTTTTCAGCCACAATGCCGTGGTGGCTCTGCGTGACGGCAAGCTCTGC
 CTATGTGGCGCGTGGGCAACCTGCGCAAGAGCCACATCGTAGAGGCCACGTGCGAGCCAGCTCATCA
 AGCCCAGGGTCACAGAAGAGGGTGAGTACATCCCACTGGACCAGATTGACATTGACGTTGGCTTTGACAA
 GGGCTGGATCGTATCTTCTAGTATCGCCATCACCATCTTGCACGAGATTGATGAGGCCAGCCACTG
 TTTGGCATTAGCCGTCAGGACCTCGAGACGGACACTTTGAGATCGTGGTCATCTGGAAGGCATGGTAG
 AGGCCACAGCCATGACCACCCAGGCTCGCAGTTCTACCTGGCCAACGAGATCCTCTGGGGTCATCGCTT
 TGAGCCAGTGTCTTTCGAAGAGAAGAACCAGTACAAGATTGACTACTCACACTCCACAAGACCTATGAG
 GTGCCATCTACACCCCGCTGCAGCGCCAAGGACCTGGTGGAGAACAAGTTCCTTCTGCCAGTGGCAACT
 CTTTCTGCTATGAGAATGAGTAGCCTTCTGAGCCGAGATGAGGAGGATGAGGTGGCTACAGACCGGGA
 TGCCCGCAGCCCTCAGCCTGAGCATGACTTTGACAGGCTGCAGGCCAGCAGTGGTCCCTTGAGCGGCC
 TACAGACGGGAGTCAGAGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215529 representing NM_053981
 Red=Cloning site Green=Tags(s)

MTAASRANPYSIVSSEEDGLHLVTMSGANGFGNGKVHTRRRRCRNRFVKKNGQCNIIEFANMDEKSQRYLAD
 MFTTCVDIRWRYMLLIFSLAFLASWLLFGIIFWVIAVAHGDLEPAEGRGRTPCVLQVHGFMAAFLFSIET
 QTTIGYGLRCVTEECPVAVFMVVAQSIVGCIIDSFMIGAIMAKMARPKKRAQTLLFSHNAVVALRDGKLC
 LMWRVGNLRKSHIVEAHVRAQLIKPRVTEEGEYIPLDQIDIDVGFDKGLDRIFLVSPITILHEIDEASPL
 FGISRQDLETDDFEIVVILEGMVEATAMTTQARSSYLANEILWGHRFEPVLFEEKNQYKIDYSHFHKTYE
 VPSTPRCSAKDLVENKFLLPANSFCYENELAFLSRDEEDEVATDRDGRSPQPEHDFDRLQASSGALERP
 YRRESEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_053981

ORF Size: 1281 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_053981.2](#), [NP_446433.2](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1284 bp

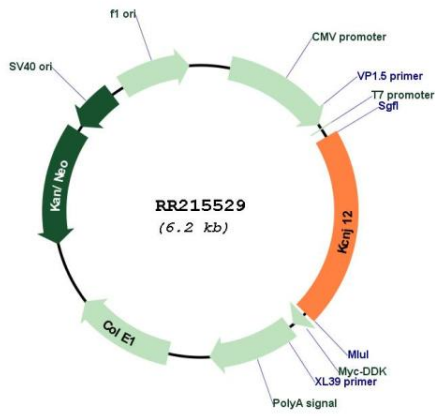
Locus ID: 117052

Cytogenetics: 10q22

MW: 48.4 kDa

Gene Summary: inward rectifier potassium channel [RGD, Feb 2006]

Product images:



Circular map for RR215529