

Product datasheet for **RR208941**

Kcnj2 (NM_017296) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj2 (NM_017296) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj2
Synonyms:	Kir2.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208941 representing NM_017296
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGTGTGAGAACCAACCGCTACAGCATCGTCTCTTCGGAGGAAGACGGCATGAAGCTGGCCACCA
 TGGCCGTCGCAATGGCTTTGGGAATGGCAAGAGTAAAGTCCATACCCGACAACAGTGCAGGAGCCGCTT
 TGTGAAGAAAGACGGGCATTGCAACGTTCAAGTTTATCAACGTGGGAGAGAAAGGACAGAGGTACCTGGCG
 GACATCTTTACTACCTGTGTGGACATCCGCTGGCGGTGGATGCTGGTAATCTTCTGCCTCGCATTCTGTC
 TCTCTGGCTGTTCTTTGGCTGTGTGTTTTGGTTGATAGCTCTGCTCCACGGGGATCTGGATGCTTCTAA
 AGAGAGCAAAGCGTGTGTCTGAGGTCAACAGCTTACGGCTGCCTTCTCTTCCATTGAGACCCAG
 ACAACCATCGGCTATGGTTTCAGGTGTGTACAGACGAGTGCCCGATTGCTGTTTTCATGGTGGTATTCC
 AGTCAATCGTGGCTGCATCATCGACGCCCTTTCATTGGTGCAGTCATGGCGAAGATGGCGAAGCCAAA
 GAAGAGGAATGAGACTCTGGTCTTCAGCCACAACGCTGTGATTGCCATGAGGGACGGCAAACCTCTGCTTG
 ATGTGGAGAGTGGCAACCTTCGCAAGAGCCACCTTGTGGAAGCTCATGTCCGGGCACAGCTTCTCAAAT
 CTAGGATCACTTCAGAAGGGGAGTACATCCCCTTGGACCAGATAGACATCAACGTTGGTTTTCGATAGCGG
 AATCGACCGTATATTTCTAGTGTCCCAATCACTATTGTCATGAAATAGACGAAGACAGCCCTTTGTAT
 GACTTGAGTAAGCAGGACATTGACAATGCAGACTTTGAAATCGTTGTCATCCTGGAAGGCATGGTGGAGG
 CCACTGCCATGACAACGCAATGCCGGAGTTCATATCTGGCCAATGAGATTCTCTGGGGTCAACGCTACGA
 GCCGGTGTCTTTGAAGAGAAGCATTGCTATAAAGTAGACTATTCAAGATTCCATAAGACTTACGAAGTA
 CCTAACACTCCCCTTTGTAGTCCAGAGACTTAGCAGAGAAGAAATACATCCTCTCAAATGCAAATTCAT
 TTTGCTATGAAAATGAAGTTGCCCTAACAAAGCAAAGAGGAAGAGGACAGTGAGAACGGAGTCCAGAGAG
 CACAAGTACGGACTCACCTCCTGGCATAGATCTCCACAACAGGGCAGCTGCCTCTAGAGCCCAGGCCCT
 TTAAGGCGAGAATCGGAGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208941 representing NM_017296
 Red=Cloning site Green=Tags(s)

MGSVRTNRYISVSSEEDGMKLATMAVANGFNGKSKVHTRQQCRSRFVKKDGHCNVQFINVGEKGQRYLA
 DIFTTCDIRWRWMLVIFCLAFVLSWFFGCVFWLIALLLHGDLDASKESKACVSEVNSFTAFLFSIETQ
 TTIGYGFRCVTDECPVIAFMVVFQSIIVGCIIDAFIIGAVMAKMAKPKRNETLVFSHNAVIAMRDGKLC
 MWRVGNLRKSHLVEAHVRAQLLKSRTSEGEYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLY
 DLSKQDIDNADFEIVVILEGMVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHCYKVDYSRFHKTYEV
 PNTPLCSARDLAEKKYILSNANSFCYENEVALTSKEEEDSENGVPESTSTDSPPGIDLHNQASVPLEPRP
 LRRESEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2520_c02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_017296

ORF Size: 1281 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

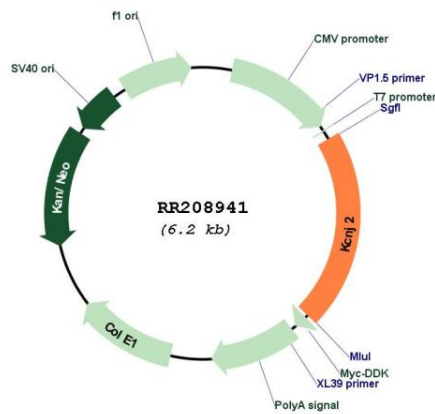
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_017296.1](#), [NP_058992.1](#)

RefSeq Size:	1284 bp
RefSeq ORF:	1284 bp
Locus ID:	29712
UniProt ID:	Q64273
Cytogenetics:	10q32.1
MW:	48.7 kDa
Gene Summary:	inwardly-rectifying potassium channel; involved in membrane polarization [RGD, Feb 2006]

Product images:


Circular map for RR208941