

## Product datasheet for MR205842

### Kcnj9 (NM\_008429) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj9 (NM_008429) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj9
Synonyms:	1700085N21Rik; Girk3; Kir3.3; mbGIRK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205842 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCAGGAGAACGCCGCTTTCTCTCCCGGTCGGAGGAGCCGCCACGCCGCCGCGGTCCGCCAGCGCT  
ACGTGGAGAAGGACGGTCGCTGTAACTGCAGCAGGGCAACGTCCGCGAGACCTACCGCTACCTGACCGA  
CCTGTTACACGCTGGTGGACCTGCAGTGGCGCCTCAGCCTGCTTCTTCGTGCTCGCCTACGCGCTC  
ACTTGGCTTCTTCGGCGCCATCTGGTGGCTCATCGCCTACGGCCGCGCGACCTGGAACACCTGGAGG  
ACACCGCGTGGACCCCGTGCCTCAACAACCTCAACGGCTTCGTGGCCGCTTCTCTTCCATCGAGAC  
GGAGACCACCATCGGCTATGGGCACCGGTCATCACCGACAGTGTCCGAGGGCATCGTGTGCTGCTG  
CTGCAGGCTATCCTGGGCTCCATGGTGAACGCTTTCATGGTGGGCTGCATGTTTCGTCGAAGATCTCGCAGC  
CCAACAAGCGCGCCGCACTCTCGTCTTCTCCTCGCACGCCGTGGTGTCTCTGCGCGACGGGCGCCTCTG  
TCTCATGTTTCGCGTGGGCGACCTGCGATCCTCGCACATCGTCGAGGCCCTCCATCCGCGCCAAGCTCATC  
CGCTCCCGTCAGACGCTCGAGGGCGAGTTCATCCCTTTCACACAGACCGACCTCAGCGTGGGCTTTGACA  
CGGGGACGACCCCTCTTCTCGTCTCACCTCTCGTCATCAGCCACGAAATCGATGCCGCCAGCCCTT  
CTGGGAGGCATCGCGCCGCGCCTCGAGAGGGACGACTTCGAGATCGTAGTCATTCTCGAGGCATGGTG  
GAGGCCACGGGAATGACGTGCCAAGCTCGAAGCTCGTACCTGGTGGATGAAGTGTGGGGCCACCGGT  
TCACATCGGTGCTCACCTGGAGGATGGTTTCTATGAGGTGGAAGTACGCCAGCTTCCACGAAACCTTTGA  
GGTGCCACACCCCTCGTGCAGTGTCTGGAACTGGCAGAAGCCGCGGCCGCTCGATGCCATCTCTAC  
TGGTCCATCCCCAGCAGGCTGGATGAGAAGGTGGAGGAAGAAGGGGCTGGGGAGGGGCGAGTGGGGAG  
ATGGAGCTGACAAGGAGCACAATGGCTGCCTGCCACCCCGAGAGAGTGAAGTCCAAGGTG

**ACCGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205842 protein sequence  
Red=Cloning site Green=Tags(s)

MAQENAAFSPGSEEP RRRGRQRYVEKDGR CNVQQGNVRETYRYL TDLFTTLVDLQWRL SLLFFVLAYAL  
 TWLFFGAIWWLIAYGRGDLEHLEDTAWTPCVNNLNGFVAAFLFSIETETTIGYGHRVITDQCPEGIVLLL  
 LQAILGSMVNAFMVGC MFVKISQPNKRAATLVFSSHAVVSLRDGR LCLMFRVGD LRS SHIVEASIRAKLI  
 RSRQTLEGEFIPLHQTDLSVGFDTGDDRLFLVSP LVISHEIDAASPFWEASRRALERDDFEIVVILEGMV  
 EATGMTQARSSYLVD EVLWGHFRFTSVL TLEDGFYEVDYASFHETFEVPTPSCSARELA EAAARLDAHL Y  
 WSIPSR LDEKVEEEGAGEGAGAGDGADKEHNGCLPPPESESKV

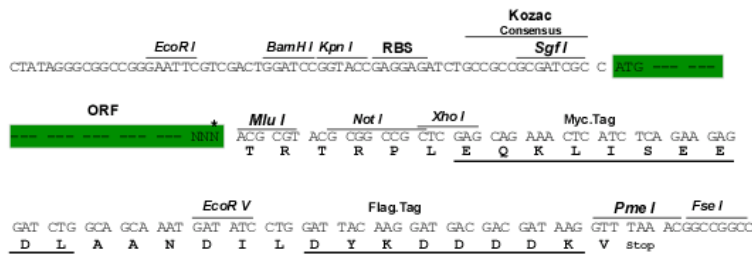
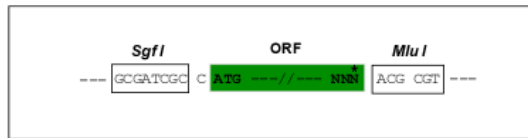
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_008429

**ORF Size:** 1182 bp

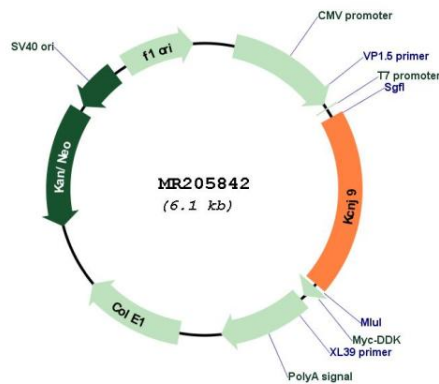
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_008429.3</u>
<b>RefSeq Size:</b>	3270 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	16524
<b>UniProt ID:</b>	<u>P48543</u>
<b>Cytogenetics:</b>	1 79.66 cM
<b>MW:</b>	44 kDa
<b>Gene Summary:</b>	This receptor is controlled by G proteins. 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 MR205842