

## Product datasheet for RR211459

### Kcnj10 (NM\_031602) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnj10 (NM\_031602) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Kcnj10  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211459 representing NM\_031602  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGACATCAGTTGCCAAGGTCTATTACAGCCAGACGACGACAGAGAGCCGGCCCTAGTGGCTCCAG  
GAATACGTCGGAGGAGGGTCTGACAAAAGATGGCCGGAGCAACGTGAGAATGGAGCATATTGCTGACAA  
GCGTTTTCTCTACCTCAAGGATCTATGGACGACCTTCATTGACATGCAGTGGCGCTACAAGCTTCTGCTC  
TTCTCGGCAACCTTTCAGGCACCTTGGTTCTCTTTGGCGTGGTGTGGTATCTGGTCGCTGTGCCACG  
GGGACCTGTTGGAGCTGGGACCTCCTGCCAACCACACGCCCTGTGTGGTGCAGGTGCACACACTTACTGG  
GGCCTTCTCTTCTCCCTCGAATCCCAGACCACCATTGGCTATGGCTTCCGCTACATCAGCGAGGAATGC  
CCTCTGGCCATTGTGCTTCTCATTGCACAGCTCGTGCTCACCACCATTCTGGAAATCTTCATCACCGGAA  
CCTTCTTGCAAAGATTGCCCGGCCAAAGAAGAGGGCTGAGACGATCCGTTTCAGCCAGCATGCGGTTGT  
GGCTTACCACAACGGGAAGCTTTGCCTCATGATCCGGTGGCCAACATGCGTAAGAGTCTCCTCATTGGG  
TGCCAGGTGACAGGCAAAGTCTCAAACCCACCAGACAAAGGAGGGTGAAGAATATTCGGCTCAACCAGG  
TCAATGTGACTTTCCAAGTAGACACAGCCTCTGATAGCCCTTTCTCATTCTACCCTGACTTTCTACCA  
TGTGGTAGATGAGACCAGCCCTTGAAAGATCTCCCCCTCCGACGCGGGAGGGTACTTCGAGCTCGTG  
CTGATCCTAAGTGGGACGGTGGAGTCCACCAGCGCCACCTGTCAAGTTCGCACTTCTATCTACCGAGG  
AGATCCTCTGGGGCTACGAGTTCACACCTGCTATCTCACTGTCAGCCAGTGGCAAATACGTGGCTGACTT  
CAGCCTTTTTGACCAGTTGTGAAAGTGGCGTCCCCGGTGGTCTCCGAGATAGCACCGTACGTTATGGA  
GACCCAGAAAAGCTCAAGTTGGAGGAGTCATTAAGAGAGCAAGCTGAAAAGGAAGGCAGTGCCCTTAGTG  
TGCGCATTAGTAACGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211459 representing NM\_031602  
 Red=Cloning site Green=Tags(s)

MTSVAKVYYSQTTQTESRPLVAPGIRRRRVLTkdGRSNVRMEHIADKRFLYLKDLWTTFFIDMQWRYKLLL  
 FSATFAGTWFLFGVVWYLVAVAHGDLELGPANHTPCVVQVHTLTGAF LFSLESQTTIGYGFRYISEEC  
 PLAIVLLIAQLVLTILEIFITGTFLAKIARPKKRAETIRFSQHAVVAYHNGKLC LMIRVANMRKSL LIG  
 CQVTGKLLQTHQTKEGENIRLNQVNVTFQVDTASDSPFLILPLTFYHVVDETSPLKDLPLRS GEGDFELV  
 LILSGTVESTSATCQVRTSYLPEEILWGYEFTPAISLSASGKYVADFSLFDQVVKVASPGGLRDSTVRYG  
 DPEKLLKEESLREQAEKEGSALSVRISNV

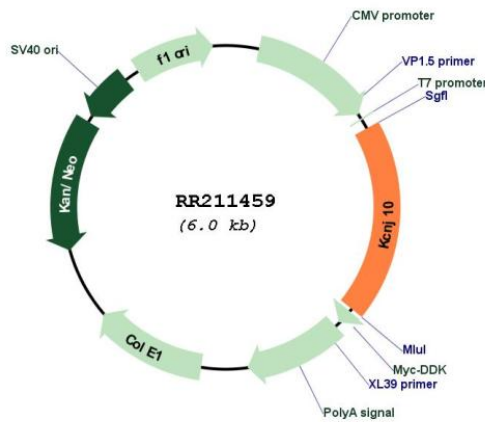
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031602

<b>ORF Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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>	<a href="#">NM_031602.2</a> , <a href="#">NP_113790.2</a>
<b>RefSeq Size:</b>	1438 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	29718
<b>UniProt ID:</b>	<a href="#">P49655</a>
<b>Cytogenetics:</b>	13q24
<b>MW:</b>	42.5 kDa
<b>Gene Summary:</b>	inwardly rectifying K <sup>+</sup> channel; specifically expressed in brain [RGD, Feb 2006]