

Product datasheet for MC208802

Kcnj11 (NM_010602) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj11 (NM_010602) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnj11
Synonyms: Kir6.2; mBIR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208802 representing NM_010602
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGTCCCGAAAGGGCATTATCCCTGAGGAATATGTGCTGACCCGGCTGGCAGAGGACCCTGCAGAGC
CCAGGTACCGTACTCGAGAGAGGAGGGCCCGCTTCGTGTCCAAGAAAGGCAACTGCAACGTGCCACAA
GAACATTCGAGAGCAGGGCCGCTTCCTGCAGGATGTGTTACCAGCTGGTGGACCTCAAATGGCCACAC
ACTCTGCTCATTTTACCATGTCCTTCCTGTGCAGCTGGCTGCTCTTTGCCATGGTCTGGTGCTCATCG
CCTTCGCCACCGGTGACCTGGCCCCGGAGAGGGCACCAATGTGCCCTGCGTCACAAGCATCCACTCCTT
TTCATCTGCCTTCCTTTTCTCCATCGAGGTCCAGGTGACCATTGGTTTCGGCGGGCGCATGGTGACAGAG
GAATGTCCCTGGCCATCCTCATTCTATTGTGCAGAATATCGTCGGGCTGATGATCAACGCCATCATGC
TGGGCTGCATCTTCATGAAAACGGCCAGGCCATCGGCGGGCAGAAACCCTCATCTTCAGCAAGCATGC
TGTGATCACCTGCGCCATGGCCGCTGTGCTTCATGCTGCGCGTAGGGGACCTCCGAAAGAGCATGATC
ATTAGCGCCACCATCCACATGCAGGTGGTGCAGAACACCAGCCCCGAGGGCGAAGTTGTGCCTCTCC
ACCAGGTAGACATCCCCATGGAGAATGGCGTGGTGGTAACGGCATCTTCCTGGTGGCCCCACTATCAT
CTACCAGTCATCGACTCCAACAGCCCGCTCTACGACCTGGCTCCTAGTGACCTGCACCACCCAGGAC
CTGGAGATCATTGTCATCTTGAAGGCGTGGTAGAAACCAGGGCATCACCAACCAGGCCCGCACCTCCT
ACCTAGCTGACGAGATTCTATGGGGCAGCGCTTTGTCCCATTTGTGGCCGAGGAGGACGGCCGCTATTC
TGTGGACTACTCAAATTTGGTAACACCATTAAGTGCCACACCACTCTGCACAGCCCGCCAGCTTGAT
GAGGACCGCAGTCTGCTGGATGCCCTGACCCTCGCTCGCGGGGGCCCTGCGCAAGCGCAGTGTGG
CTGTGGCGAAGGCCAAGCCCAAGTTTAGCATCTCTCCAGATTCTTGCT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_010602
Insert Size:	1173 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_010602.3 , NP_034732.1
RefSeq Size:	3115 bp
RefSeq ORF:	1173 bp
Locus ID:	16514
UniProt ID:	Q61743
Cytogenetics:	7 29.66 cM
Gene Summary:	<p>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. Can be blocked by extracellular barium. Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>