

Product datasheet for **MC227598**

Kcnj16 (NM_001252209) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj16 (NM_001252209) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnj16
Synonyms: 6430410F18Rik; AI132396; Kir5.1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227598 representing NM_001252209
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCTATTACGGAAGTAGCTACAGGATCGTCAATGTGGACTCCAAATATCCAGGCTATCCTCCAGAGC
ATGCCATCGCTGAGAAGAGAAGAGCAAGAAGGCGCTTGCTCCACAAGATGGCAGCTGTAATGTGTACTT
TAAACACATTTTTGGAGAATGGGGAGCTACATGGTTGATATTTTTACCCTCTGTGGATACCAAGTGG
CGCCATATGTTTCGTAATATTTCTCTGTCTTACATTCTCTCCTGGTTGATATTTGGCTCCATATTTGGC
TCATAGCCTTTCATCACGGAGACCTATTAAGCGATCCAGATATCACCCCTTGTGTTGACAACGTGCATTC
ATTTACGGCTGCATTTTTATTCTCCCTGGAGACCCAGACCACCATTGGATACGGTTACCGCTGTGTCCACC
GAAGAGTGCTCTGTGGCTGTACTGACAGTGATCCTTCAGTCCATCCTCAGCTGCATCATAAACACCTTCA
TCATTGGAGCAGCCTTGGCAAAGATGGCAACTGCCCGGAAGAGAGCCAGACCATACGCTTCAGCTATTT
TGCCCTCATTGGTATGAGAGACGGGAAGCTTGCCTCATGTGGCGCATAGGTGACTTCCGACCAACCAT
GTGGTAGAGGGCACGGTGAGAGCCCAACTTCTGCGCTATTCAGAAGACAGTGAAGGGAGGATGACGATGG
CGTTTAAAGACCTCAAACCTCGTCAATGACCAGATAATCCTGGTAACTCCAGTGACTATTGTCCATGAAAT
TGACCATGAGAGCCCTCTGTATGCCCTTGACCGCAAGGCAGTGGCCAAAGATAATTTTCGAGATTCTGGTG
ACATTTATTTATACTGGTGATTCCACTGGGACATCCCACCACTCCAGAAGTTCCTACATCCCCAGAGAAA
TTCTCTGGGGCCACAGGTTTCATGATGATTGGAAGTGAAGAGAAAGTACTACAAGGTGAACTGCTTGCA
GTTTGAAGGAAGCGTGGAAGTCTACGCCCTTTTGCAGTGCCAAACAACCTGGACTGGAAGGACCAACAA
CTCAACAACCTGGAGAAAACGTCCCTGCCCGAGGATCCTGCAATTCTGACACCAACACCAGGAGCGGT
CCTTCAGCGCAGTTGCCGTGGTGTGAGCAGCTGTGAGAACCAGAGGAGACCGTCTGTCCCCACAAGATGA
ATGTAAGGAGATGCCCTATCAGAAAGCCCTCTGACTTTAAATAGGATCTCCATGGAATCCAGATG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001252209
Insert Size:	1260 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001252209.2 , NP_001239138.1
RefSeq Size:	3685 bp
RefSeq ORF:	1260 bp
Locus ID:	16517
UniProt ID:	Q9Z307
Cytogenetics:	11 75.01 cM
Gene Summary:	<p>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. KCNJ16 may be involved in the regulation of fluid and pH balance. In the kidney, together with KCNJ10, mediates basolateral K(+) recycling in distal tubules; this process is critical for Na(+) reabsorption at the tubules.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1-5 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>