

Product datasheet for **MR206756**

Kcnj8 (NM_008428) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj8 (NM_008428) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj8
Synonyms:	AI448900; gnite; Kir6.1; slmbr; sltr; uKATP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206756 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGGCCAGGAAGAGCATCATCCCGGAGGAGTATGTGCTGGCGGCATCGCAGCGGAGAACCTGCGCA
 AACCGCGCATCCGCGACCGTCTCCCAAAGCCGCTTCATCGCCAAGAGCGGAGCCTGCAACCTGGCACA
 CAAGAACATCCGAGAGCAAGGTCGCTTCTCGCAGGACATCTTACCACCTTGGTAGACCTGAAGTGGCGT
 CACACGCTGGTCATCTTACCATGTCCTTCTCTGACGCTGGCTGCTCTTTGCTATCATGTGGTGGCTGG
 TGGCCTTCGCCCACGGGACATCTATGCTTACATGGAGAAAGGCACCATGGAGAAGAGTGGCCTGGAGTC
 CGCTGTCTGTGTACCAATGTCAGGTCACTCACGTCTGCGTTTCTTCTCCATTGAGGTTCAAGTGACC
 ATGGGTTCCGAGGGAGAATGATGACTGAGGAATGCCCTCGGCCATCACGGTTTTGATTCTGCAGAAC
 TCGTGGGTCGATCATCAACGGGTGATGTTGGGTTGCATCTTCAAGACGGCGCAGGCCACAGAAG
 GGCAGAGACGCTGATTTTCAGCCGCCATGCTGTGATTGCCGTCGCAATGGCAAGCTGTGCTTCATGTT
 CGGGTGGGTGACCTGAGGAAGAGCATGATCATTAGCGCCTCGGTGCGCATCCAGGTGGTCAAGAAAACCA
 CGACGCCAGAAGGGGAGGTGGTGCCTATTCATCAGCAGGACATTCCTGTTGATAATCCCATCGAGAGCAA
 TAATATCTTCTAGTGGCCCATGATCATCTGCCACGTGATTGACAAGCGTAGCCCCGTATGATATC
 TCAGCAACTGACCTTGCCAATCAAGACCTGGAGGTCATAGTATTCTCGAGGGCGTGGTAGAAAACACAG
 GCATCACCACACAAGCGCGGACCTCCTACATTGCGGAGGAGATCCAGTGGGGACACCGCTTCGTGTCAAT
 TGTGACTGAGGAGGAGGGCGTACTCTGTGGACTATTCCAAATTTGGTAACACGGTGAGAGTGGCTGCG
 CCAAGATGCAGTCCCGGAGCTGGATGAGAAGCCTTCCATCTGATTGAGACCTCCAAAAGAGTGAAC
 TGTCGCACCAGAATTCTCTCGGAAGCGCAACTCCATGAGGAGAAACAACCTCCATGAGGAGAAACAAC
 CATCAGGAGGAATAACTTCCCTCATGGTGCCCAAGGTGCAGTTCATGACTCCAGAAGGAAACCAAGTGT
 CCATCCGAATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206756 protein sequence
 Red=Cloning site Green=Tags(s)

MLARKSIIPEEYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQRFLQDIFTTLVDLKWR
 HTLVIFFTMSFLCSWLLFAIMWWLVAFAHGDIYAYMEKGTMEKSGLESAVCVTNVRSFTSAFLFSIEVQVT
 IGFGGRMMTEECPLAITVLILQNIIVGLIINAVMLGCFMKTAQHRRAETLIFSRHAVIAVRNGKLCFMF
 RVGDLRKSMIISASVRIQVVKTTTPEGEVVPVHQDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDI
 SATDLANQDLEIVIVILEGVVETGITTQARTSYIAEEIQWGHFRFVSIVTEEEGVYSVDYSKFGNTVRVAA
 PRCARELDEKPSILIQTLQKSELHQNSLRKNSMRRNNSMRRNNSIRRNNSSLMVPKVQFMTPEGNQC
 PSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_008428

ORF Size: 1275 bp

OTI Disclaimer: 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_008428.3](#)
RefSeq Size: 2188 bp

RefSeq ORF: 1275 bp

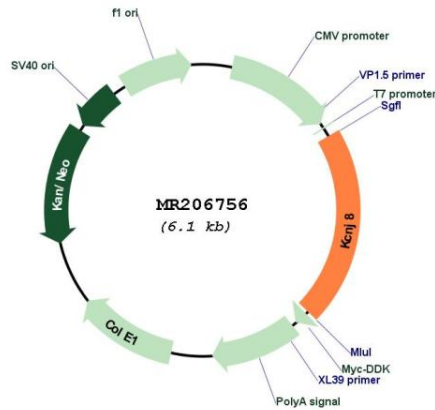
Locus ID: 16523

UniProt ID: [P97794](#)
Cytogenetics: 6 74.31 cM

MW: 48 kDa

Gene Summary: This potassium channel 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 external barium (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206756