

Product datasheet for **MG206756**

Kcnj8 (NM_008428) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj8 (NM_008428) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnj8
Synonyms:	Al448900; gnite; Kir6.1; slmbr; sltr; uKATP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206756 representing NM_008428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTTGGCCAGGAAGAGCATCATCCCGGAGGAGTATGTGCTGGCGCGCATCGCAGCGGAGAACCTGCGCA
AACCGCGCATCCGCGACCGTCTCCCAAAGCCCGCTTCATCGCCAAGAGCGGAGCCTGCAACCTGGCACA
CAAGAACATCCGAGAGCAAGGTCGCTTCCTGCAGGACATCTTCACCACCTGGTAGACCTGAAGTGGCTG
CACACGCTGGTCATCTTCACCATGTCCTCCTCTGCAGCTGGCTGCTCTTTGCTATCATGTGGTGGCTGG
TGGCTTCGCCCACGGGACATCTATGCTTACATGGAGAAAGGCACCATGGAGAAGAGTGGCCTGGAGTC
CGCTGTCTGTGTGACCAATGTCAGGTCATTACGTCGCTTTCTCTTCTCCATTGAGGTTCAAGTGACC
ATTGGGTTTCGGAGGGAGAATGATGACTGAGGAATGCCCTCTGGCCATCACGGTTTTGATTCTGCAGAAC
TCGTGGGTCTGATCATCAACGCGGTGATGTTGGGTTGCATCTTCATGAAGACGGCGCAGGCCACAGAAG
GGCAGAGACGCTGATTTTCAGCCGCCATGCTGTGATTGCCGTCCGCAATGGCAAGCTGTGCTTCATGTT
CGGGTGGGTGACCTGAGGAAGAGCATGATCATTAGCGCCTCGGTGCGCATCCAGGTGGTCAAGAAAACCA
CGACGCCAGAAGGGGAGGTGGTGCCTATTCATCAGCAGGACATTCCTGTTGATAATCCCATCGAGAGCAA
TAATATCTTCCTAGTGGCCCCATTGATCATCTGCCACGTGATTGACAAGCGTAGCCCCCTGTATGATATC
TCAGCAACTGACCTTGCCAATCAAGACCTGGAGGTCATAGTATTCTCGAGGGCGTGGTAGAAACCACAG
GCATCACACACAAGCGCGGACCTCCTACATTGCGGAGGAGATCCAGTGGGGACACCGCTTCGTGTCAAT
TGTGACTGAGGAGGAGGCGTGTACTCTGTGGACTATTCCAAATTTGGTAACACGGTGAGAGTGGCTGCG
CCAAGATGCAGTGCCCGGAGCTGGATGAGAAGCCTTCCATCCTGATTGAGACCTCCAAAAGAGTGAAC
TGTCGCACCAGAATTCTCTGCGGAAGCGCAACTCCATGAGGAGAAACAACCTCCATGAGGAGAAACAAC
CATCAGGAGGAATAACTTCTCCCTCATGGTGCCCAAGGTGCAGTTCATGACTCCAGAAGGAAACAGTGT
CCATCCGAATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG206756 representing NM_008428
 Red=Cloning site Green=Tags(s)

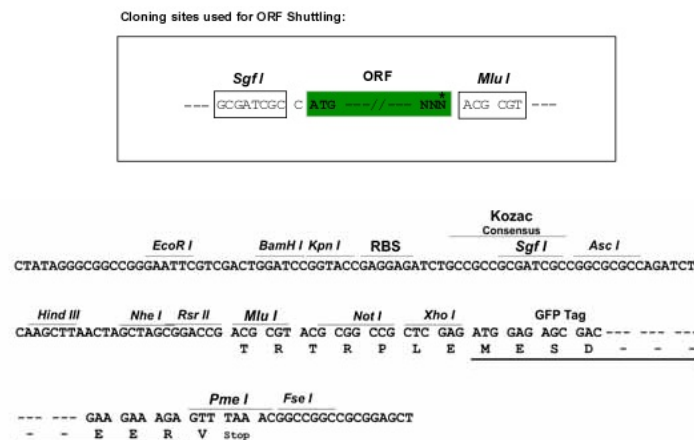
MLARKSIIEEYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDIFTTLVDLKWR
 HTLVIFTMSFLCSWLLFAIMWWLVAFAGDIYAYMEKGTMEKSGLESACVNTNRSFTSAFLFSIEVQVT
 IGFGGRMMTEECPLAITVLILQNIIVGLIINAVMLGCI FMKTAQAHRAETLIFSRHAVIAVRNGKLCFMF
 RVGDLRKSMIISASVRIQVVKTTTPEGEVVPPIHQDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDI
 SATDLANQDLEIVIVILEGVVETTGITTQARTSYIAEEIQWGHFRFVSIVTEEGVYSVDYSKFGNTVRVAA
 PRCSARELDEKPSILIQTLQKSELHQNSLRKRNSMRRNNSMRRNNSIRRNNSSLMVPKVQFMTPEGNQC
 PSES

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008428

ORF Size: 1272 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008428.3](#)

RefSeq Size: 2249 bp

RefSeq ORF: 1275 bp

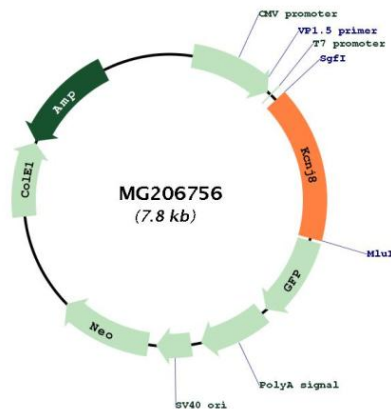
Locus ID: 16523

UniProt ID: [P97794](#)

Cytogenetics: 6 74.31 cM

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 MG206756