

Product datasheet for MR227311

Kcnj6 (NM_001025584) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj6 (NM_001025584) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj6
Synonyms: BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227311 representing NM_001025584
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACAATGGCCAAGTTAACTGAATCCATGACTAACGTCTTGAAGGCGATTCCATGGACCAGGATGTGG
AAAGCCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACCTGCCGAGACACATCAG
CCGAGACAGGACAAAAGGAAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTCAACGTTCCACCACGGC
AATGTGCGGGAGACGTACCGATACCTGACGGACATCTTACCACCTGGTGGACCTGAAGTGGAGATTCA
ACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGATCTGGTGGCTGATTGC
GTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTGTCAACCACTCAACGGG
TTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACATCGGTTATGGCTACCGGTTCATCACGG
ACAAGTGCCTGAGGGGATTATTCTCCTCTTAATCCAGTCCGTGTTGGGGTCCATTGTCAACGCCTTCAT
GGTAGGATGTATGTTTGTGAAAAATCCCAACCAAGAAGAGGGCAGAGACCCTGGTCTTTTCCACCCAC
GCGGTGATCTCCATGCGGGATGGGAACTGTGCTTGTGTTCCGGTGGGGGACTTGAGGAATTCACA
TTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAACAGACTTCAGAGGGGAGTTTATTTCCCT
CAACCAGACTGATATCAACGTGGGGTACTACACAGGGGACGACCGCTCTTTCTGGTGTACCAATTGATT
ATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCAAAGCGCAGCTGCCTAAAGAGGAAC
TGGAGATTGTGGTCATCCTGGAGGGAATGGTGAAGCCACAGGAATGACGTGCCAAGCCCCGAAGCTCCTA
CATCACCAGTGAATCTTGTGGGTTACCGGTTACACCTGTCTAACGTTGGAAGACGGGTTCTACGAA
GTTGACTACAACAGTTCATGAGACCTATGAGACCAGCACCCCGTCCCTTAGTGCCAAAGAGCTAGCGG
AGCTGGCTAACCGGCAGAGCTGCCTCTGAGTTGGTCTGTGTCCAGCAAAGTGAACCAACATGCAGAATT
GGAGACAGAAGAGGAAGAGAAGAACC CGGAAGAAGTACCGGAGAGGAATGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227311 representing NM_001025584
Red=Cloning site Green=Tags(s)

MTMAKLTESMTNVLEGDSDQDVESPVAIHQPKLPKQARDDLPRHISRDRTKRKIQRYVRKDGKCNVHGG
 NVRETYRYLTDIFFTLVLDKWRFNLLIFVMVYTVTWLFFGMIWWLIAYIRGDMHDIEDPSWTFPCVTNLNG
 FVSAFLFSIETETTIGYGYRVITDKCEGIIILLIQSVLGSIVNAFMVGC MFVKISQPKKRAETLVFSTH
 AVISM RDGKLC LMF RVGDLRNSHIVEASIRAKLIKSKQTSEGEFIPLNQTDINVGYYTGDDRFLV SPLI
 ISHEINQQSPFWEISKAQLPKEELEIVVILEGMVEATGMTQCQARSSYITSEILWGYRFTPVLTLEDGFYE
 VDYN SFHETYETSTPSLSAKELAE LANRAELPLSWSVSSKLNQHAEL ETEEE EK NPEEL TERNG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

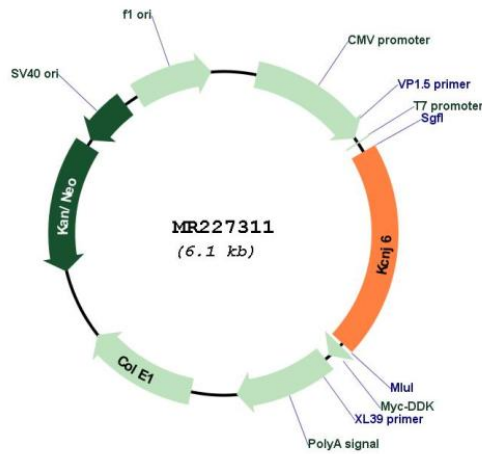
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025584

ORF Size:	1242 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:	<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_001025584.2 , NP_001020755.1
RefSeq Size:	2356 bp
RefSeq ORF:	1245 bp
Locus ID:	16522
Cytogenetics:	16 55.44 cM
MW:	47.9 kDa
Gene Summary:	This potassium channel is controlled by G proteins. It plays a role in granule cell differentiation, possibly via membrane hyperpolarization. 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.[UniProtKB/Swiss-Prot Function]