

Product datasheet for **MG227311**

Kcnj6 (NM_001025584) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj6 (NM_001025584) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnj6
Synonyms: BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; wv
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227311 representing NM_001025584
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAATGGCCAAGTTAACTGAATCCATGACTAACGTCTTGAAGGCGATTCCATGGACCAGGATGTGG
 AAAGCCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACCTGCCGAGACACATCAG
 CCGAGACAGGACAAAAGGAAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTCAACGTTCCACCACGGC
 AATGTGCGGGAGACGTACCGATACCTGACGGACATCTTACCACCCTGGTGGACCTGAAGTGGAGATTCA
 ACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGATCTGGTGGCTGATTGC
 GTACATCCGGGGAGATATGGACCACATAGAGGACCCCTCGTGGACTCCTTGTGTCAACCACTCAACGGG
 TTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACCATCGTTATGGCTACCGGTCATCACGG
 ACAAGTGCCTGAGGGGATTATTCTCTCTTAATCCAGTCCGTGTTGGGGTCCATTGTCAACGCCTTCAT
 GGTAGGATGATGTTTGTGAAAAATCCCAACCAAGAAGAGGGCAGAGACCCTGGTCTTTTCCACCCAC
 GCGGTGATCTCCATGCGGGATGGGAACTGTGCTTGTGTTCCGGGTGGGGGACTTGAGGAATTCTCACA
 TTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAACAGACTTCAGAGGGGGAGTTTATCCCT
 CAACCAGACTGATATCAACGTGGGTACTACACAGGGGACGACCGCTCTTTCTGGTGTCCACATTGATT
 ATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCAAAGCGCAGTCGCCTAAAGAGGAAC
 TGGAGATTGGTTCATCCTGGAGGGAATGGTGAAGCCACAGGAATGACGTGCCAAGCCGAAGCTCCTA
 CATCACAGTGAGATCTTGTGGGTTACCGGTTACACCTGTCCTAACGTTGGAAGACGGTTCTACGAA
 GTTGACTACAACAGTTCATGAGACCTATGAGACCAGCACCCCGTCCCTTAGTGCCAAAGAGCTAGCGG
 AGCTGGCTAACCGGGCAGAGCTGCCTCTGAGTTGGTCTGTGTCCAGCAAAGTGAACCAACATGCAGAATT
 GGAGACAGAAGAGGAAGAGAAGAACCCTGGGAAGAACTGACGGAGAGGAATGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227311 representing NM_001025584
 Red=Cloning site Green=Tags(s)

MTMAKL TESMTNVLEGDSDQDVESPVAIHQPKLPKQARDDLPRHISRDRTKRRIQRYVRKDGKCNVHHG
 NVRETYRYLTDIFFTLVLDKWRFNLLIFVMVYTVTWLFFGMIWWLIAYIRGDMHDIEDPSWTPCVTNLNG
 FVSAFLFSIETETTIGYGRVITDKCEGIIILLIQSVLGSIVNAFMVGC MFVKISQPKKRAETLVFSTH
 AVISM RDGKLC LMFRVGD LRNSHIVEASIRAKLIKSKQTSEGEFIPLNQTDINVGYTGD DRLFLV SPLI
 ISHEINQQSPFWEISKAQLPKEELEIVVILEGMVEATGMTQCQARSSYITSEILWGYRFTPVL TLEDGFYE
 VDYN SFHETYETSTPSLSAKELAE LANRAELPLSWSVSSKLNQHAELETEEEEEKNPEELTERNG

TRTRPLE - GFP Tag - V

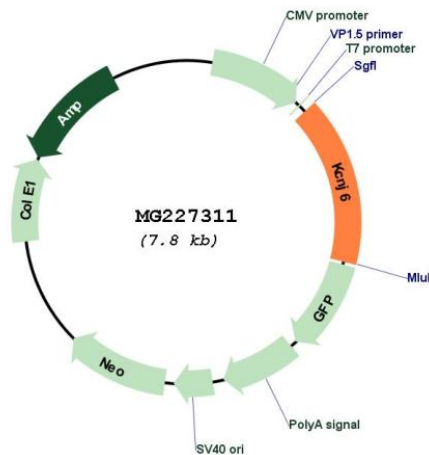
Restriction Sites:

SgfI-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
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]