

Product datasheet for **MG227316**

Kcnj6 (NM_001025590) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj6 (NM_001025590) 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: >MG227316 representing NM_001025590
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGGATGTGAAAGCCAGTGGCCATTCACCAGCCAAAGTTGCCTAAGCAGGCCAGGGACGACC
TGCCGAGACACATCAGCCGAGACAGGACCAAAGGAAAATCCAGAGGTACGTGAGGAAGGATGGGAAGTG
CAACGTTACCACGGCAATGTGCGGGAGACGTACCGATACCTGACGGACATCTTCACCACCTGGTGGAC
CTGAAGTGGAGATTCAACCTGTTGATCTTTGTCATGGTCTACACAGTGACGTGGCTTTTCTTTGGGATGA
TCTGGTGGCTGATTGCGTACATCCGGGGAGATATGGACCACATAGAGACCCCTCGTGGACTCCTTGTGT
CACCAACCTCAACGGGTTTGTCTCTGCTTTTTATTCTCCATAGAGACAGAAACCACCATCGGTTATGGC
TACCGGTCATCACGGACAAGTGCCTGAGGGGATTATTCTCCTCTTAATCCAGTCCGTGTTGGGGTCCA
TTGTCAACGCCTTCATGGTAGGATGTATGTTTGTGAAAATATCCAACCCAAGAAGAGGGCAGAGACCT
GGTCTTTTCCACCACGCGGTGATCTCCATGCGGGATGGGAACTGTGCTTGATGTTCCGGTGGGGGAC
TTGAGGAATTCTCACATTGTGGAGGCATCCATCAGAGCCAAGTTGATCAAGTCCAACAGACTTCAGAGG
GGGAGTTATTCCCCTCAACCAGACTGATATCAACGTGGGGTACTACACAGGGGACGACCGGCTCTTTCT
GGTGTCAACATTGATTATTAGCCATGAAATTAACCAACAGAGTCCCTTCTGGGAGATCTCCAAGCGCAG
CTGCCTAAAGAGGAACTGGAGATTGTGGTCATCCTGGAGGGAATGGTGAAGCCACAGGGCAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227316 representing NM_001025590
Red=Cloning site Green=Tags(s)

MDQDVESPVAIHQPKLPKQARDDLPRHISRDRTRKRIQRYVVRKDGKCNVHHGNVRETYRYLTDIFTTLLVD
 LKWRFNLLIFVMVYTVTLFFGMIWWLIAYIRGMDHIEDPSWTPCVTNLNGFVSAFLFSIETETTIGYG
 YRVITDKCPEGIILLIQLSVLGSIVNAFMVGC MFVKISQPKKRAETLVFSTHAVISMRDGKLCMFVRVGD
 LRNSHIVEASIRAKLIKSKQTSEGEFIPLNQTDINVGYTGDRLFLVSP LIISHEINQQSPFWEISKAQ
 LPKEELEI VVILEGMVEATGQF

TRTRPLE - GFP Tag - V

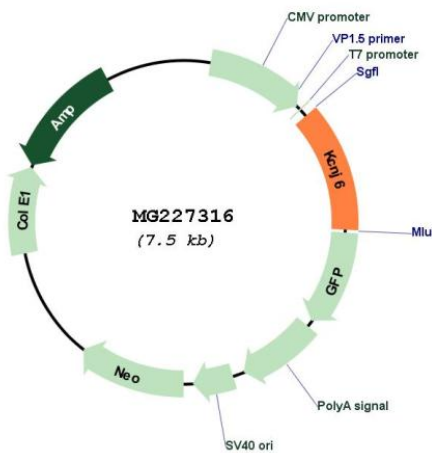
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001025590

ORF Size: 906 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_001025590.2
RefSeq Size:	3638 bp
RefSeq ORF:	909 bp
Locus ID:	16522
UniProt ID:	P48542
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]