

Product datasheet for **MG206648**

Kcnj16 (NM_010604) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj16 (NM_010604) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnj16
Synonyms: 6430410F18Rik; AI132396; Kir5.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206648 representing NM_010604
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAGCTATTACGGAAGTAGCTACAGGATTGTCAATGTGGACTCCAAATATCCAGGCTATCCTCCAGAGC
 ATGCCATCGCTGAGAAGAGAAGAGCAAGAAGGCGCTTGCTCCACAAGATGGCAGCTGTAATGTGTACTT
 TAAACACATTTTTGGAGAATGGGGAGCTACATGGTTGATTTTTACCCTCTGTGGATACCAAGTGG
 CGCCATATGTTTCATAATTTTTCTGTCTTACATTCTCTCCTGGTTGATTTGGTTCCATTTTTGGC
 TCATAGCCTTTCATCACGGAGACCTATTAAGCGATCCAGATATCACCCCTGTGTTGACAACGTGCATTC
 ATTTACGGCTGCATTTTTATTCTCCCTGGAGACCCAGACCACCATTTGGATACGGTTACCGCTGTGTCACC
 GAAGAGTGCTCTGTGGCTGACTGACAGTGATCCTTCAGTCCATCCTCAGCTGCATCATAAACACCTTCA
 TCATTGGAGCAGCCTTGCCAAAGATGGCAACTGCCCGAAGAGAGCCAGACCATACGCTTCAGCTATTT
 TGCCCTCATTGGTATGAGAGACGGGAAGCTTGCCTCATGTGGCGCATAGGTGACTTCCGACCAAACCAT
 GTGGTAGAGGGCACGGTGAGAGCCCACTTCTGCGCTATTCAGAAGACAGTGAAGGGAGGATGACGATGG
 CGTTTAAAGACCTCAAACCTCGTCAATGACCAGATAATCCTGGTAACTCCAGTGACTATTGTCATGAAAT
 TGACCATGAGAGCCCTCTGTATGCCCTTGACCGCAAGGCAGTGGCCAAAGATAATTTGAGATTCTGGTG
 ACATTTATTTACTGGTGATTCCACTGGGACATCCCACCAGTCCAGAAGTTCTACATCCCAGAGAAA
 TTCTCTGGGGCCACAGGTTTCATGATGATTGGAAGTGAAGAGAAAGTACTACAAGGTGAACTGCTTGCA
 GTTTGAAGGAAGCGTGGAAGTCTACGCCCTTTTGCAGTGCCAAACAACCTGGACTGGAAGGACCAACA
 CTCAACAACCTGGAGAAAACGTCCCTGCCGAGGATCCTGCAATTCTGACACCAACACCAGGAGCGGT
 CCTTCAGCGCAGTTGCTGTGGTGAGCAGCTGTGAGAACCAGAGGAGACCGTCTGTCCCAACAAGATGA
 ATGTAAGGAGATGCCCTATCAGAAAGCCCTCTGACTTTAAATAGGATCTCCATGGAATCCCAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG206648 representing NM_010604
 Red=Cloning site Green=Tags(s)

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MSYYGSSYRIVNVDSKYPGPPEHAIAEKRRARRRLLHKDGCNVYFKHIFGEWGSYVMDIFFTLVDTKW
RHMFIIFSLSYILSWLIFGSIFWLI AFHHGDDLSDPDITPCVDNVHSFTA AFLFSLETQTTIGYGYRCVT
EECSVAVLTVILQSI LSCIINTFII GAALAKMATARKRAQTIRFSYFALIGMRDGKLC LMWRIGDFRPNH
VVEGTVRAQLLRYS EDSGRMTMAFKDLKLVNDQIILVTPVTIVHEIDHESPLYALDRKAVAKDNFEILV
TFIYTG DSTGTS HQSRSSYIPREILWGH RFHDVLEVKRKYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQ
LNNLEK TSPARGSCNSD TNTRRRSFSAVAVVSSCENPEETVLS PQDECKEMPYQKALLTLNRI SMESQM
```

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1824_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010604

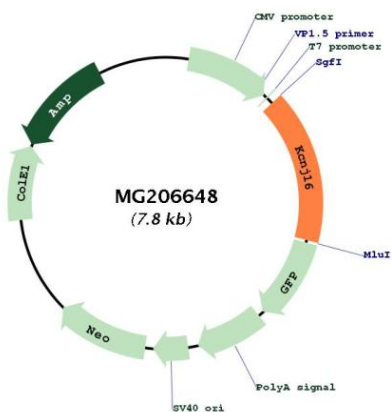
ORF Size: 1257 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010604.2
RefSeq Size:	3623 bp
RefSeq ORF:	1260 bp
Locus ID:	16517
UniProt ID:	Q9Z307
Cytogenetics:	11 75.01 cM
Gene Summary:	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. KCNJ16 may be involved in the regulation of fluid and pH balance. In the kidney, together with KCNJ10, mediates basolateral K(+) recycling in distal tubules; this process is critical for Na(+) reabsorption at the tubules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206648