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Product datasheet for MR206089

Kcnj11 (NM_010602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnj11 (NM_010602) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnj11
Synonyms:	Kir6.2; mBIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206089 representing NM_010602
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTCCCGAAAGGGCATTATCCCTGAGGAATATGTGCTGACCCGGCTGGCAGAGGACCCTGCAGAGC
CCAGGTACCGTACTCGAGAGAGGAGGGCCCGCTTCGTGTCCAAGAAAGGCAACTGCAACGTCGCCCACAA
GAACATTCGAGAGCAGGGCCGCTTCCTGCAGGATGTGTTCACCACGCTGGTGGACCTCAAATGGCCACAC
ACTCTGCTCATTTTCACCATGTCCTTCCTGTGCAGCTGGCTGCTCTTTGCCATGGTCTGGTGGCTCATCG
CCTTCGCCCACGGTGACCTGGCCCCCGGAGAGGGCACCAATGTGCCCTGCGTCACAAGCATCCACTCCTT
TTCATCTGCCTTCCTTTTCTCCATCGAGGTCCAGGTGACCATTGGTTTCGGCGGGCGCATGGTGACAGAG
GAATGTCCCCTGGCCATCCTCATTCTCATTGTGCAGAATATCGTCGGGCTGATGATCAACGCCATCATGC
TGGGCTGCATCTTCATGAAAACGGCCCAGGCCCATCGGCGGGCAGAAACCCTCATCTTCAGCAAGCATGC
TGTGATCACCCTGCGCCATGGCCGCCTGTGCTTCATGCTGCGCGTAGGGGACCTCCGAAAGAGCATGATC
ATTAGCGCCACCATCCACATGCAGGTGGTGCGCAAGACCACCAGCCCCGAGGGCGAAGTTGTGCCTCTCC
ACCAGGTAGACATCCCCATGGAGAATGGCGTGGGTGGTAACGGCATCTTCCTGGTGGCCCCACTCATCAT
CTACCACGTCATCGACTCCAACAGCCCGCTCTACGACCTGGCTCCTAGTGACCTGCACCACCACCAGGAC
CTGGAGATCATTGTCATCTTGGAAGGCGTGGTAGAAACCACGGGCATCACCACCCAGGCCCGCACCTCCT
ACCTAGCTGACGAGATTCTATGGGGGCAGCGCTTTGTCCCCATTGTGGCCGAGGAGGACGGCCGCTATTC
TGTGGACTACTCCAAATTTGGTAACACCATTAAAGTGCCCACACCACTCTGCACAGCCCGCCAGCTTGAT
GAGGACCGCAGTCTGCTGGATGCCCTGACCCTCGCCTCGTCGCGGGGGCCCCTGCGCAAGCGCAGTGTGG
CTGTGGCGAAGGCCAAGCCCAAGTTTAGCATCTCTCCAGATTCCTTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>MR206089 representing NM_010602
Red=Cloning site Green=Tags(s)

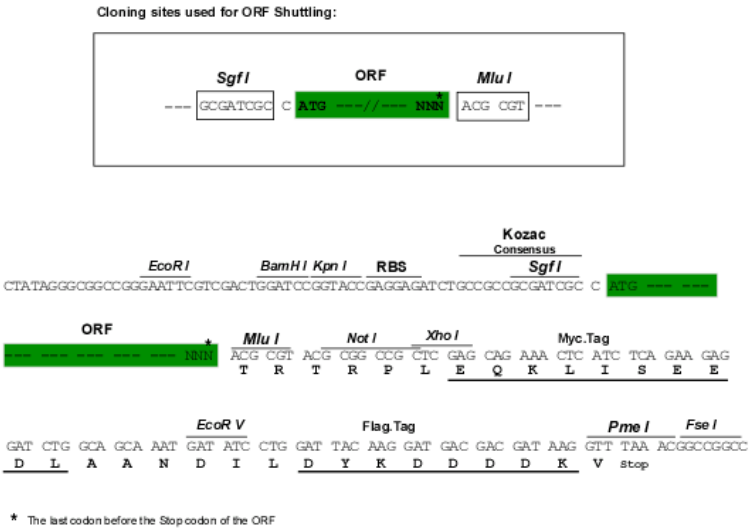
MLSRKGIIPEEYVLTRLAEDPAEPRYRTRERRARFVSKKGNCNVAHKNIREQGRFLQDVFTTLVDLKWPH
TLLIFTMSFLCSWLLFAMVWWLIAFAHGDLAPGEGTNVPCVTSIHSFSSAFLFSIEVQVTIGFGGRMVTE
ECPLAILILIVQNIVGLMINAIMLGCIFMKTAQAHRRAETLIFSKHAVITLRHGRLCFMLRVGDLRKSMI
ISATIHMQVVRKTTSPEGEVVPLHQVDIPMENGVGGNGIFLVAPLIIYHVIDSNSPLYDLAPSDLHHHQD
LEIIVILEGVVETTGITTQARTSYLADEILWGQRFVPIVAEEDGRYSVDYSKFGNTIKVPTPLCTARQLD
EDRSLLDALTLASSRGPLRKRSVAVAKAKPKFSISPDSLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010602

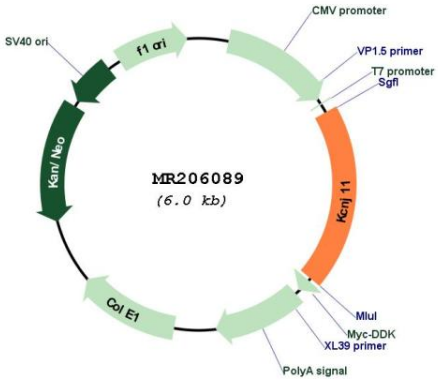
ORF Size: 1170 bp

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:	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_010602.3, NP_034732.1
RefSeq Size:	3115 bp
RefSeq ORF:	1173 bp
Locus ID:	16514
UniProt ID:	Q61743
Cytogenetics:	7 29.66 cM
MW:	44 kDa
Gene Summary:	This receptor 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 extracellular barium. Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206089