

Product datasheet for MR224615

Kcnj13 (NM_001110227) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj13 (NM_001110227) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj13
Synonyms: 100040591
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224615 representing NM_001110227
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCAGTAATTGTAAGTGAATGCTCCTCTCCTGAGTCAAAGACACCGGAGGATGGTCACAAAAG
ACGGCCACAGCACACTTCAGATGGATGGTCTCAAAGGGCCCTTGTGTATCTCCGAGATGCATGGGAAT
CCTAATGGACATGCGCTGGCGCTGGATGATGCTGGTCTTTCTGCTTCTTTGTTGCCACTGGCTTGTC
TTTGCAGTCTCTGGTATGCTGTAGCTGAGATGAATGGTATCTGGAAATAGACCAGGACGTCCACCTG
AAAACCACACTATCTGTGTGAAGCACATACCAGCTTCACAGCTGCATTCTCCTTCTCTCTGGAGACACA
ACTTACAATTGGTTATGGTACCATGTTTCCAGTGGTACTGTCCAAGTGAATCGCCTTACTTGCCATA
CAAATGCTCCTAGGCCTCATGCTAGAGGCTTTTATCACAGGTGCCCTTGTGGCGAAGATTGCACGGCCAA
AAAATAGAGCTTTCTCAATTCGATTCACTGACTTAGCAGTTGTAGCTCACAAAGATGGCAAACCTAATCT
TATCTTCCAAGTGGCCAAACCCGGCCAGCCCTCGACCAACGTTTCGTGTCTGCTGTACTCTATCAG
GAAAGAGAAAAATGGTGAACCTTACCAGACCAGTGTGGACTTCCACCTTGATGGCATCAGTTCTGAGGAAT
GTCCATTCTTCATCTTCCCGCTAACCTATTACCATACTATCTCACCATCAAGTCTCTAGCTACCCCTGCT
CCAACATGAGACTCCTCCACACTTTGAATTAGTTGTGTTCCCTCTCAGCAATGCAAGAAGGCACTGGGGAA
ATCTGCCAAAGGAGGACATCCTACCTGCCCTCTGAGATCATGTTACATCACCGATTTGCAGCTCTAATGA
CTCGAGGTTCCAAAGGTGAGTATCAAGTCAAGATGGAGAATTTTGACAAGACTGTTCTGAAACATCCAAC
ACCTGTGGTCTCTAAGAGTCCACACAGGACTGACCTAGATATTATCAATGGACAAAGCATTGACAAT
TCCAGATTGCTGAAACAGGGCTGACAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR224615 representing NM_001110227
Red=Cloning site Green=Tags(s)

MSSNCKVNAPLLSQLRHRMVTKDGHSTLQMDGAQRGLVYLRDAWGILMDMRWRWMLVFSASFVHVLV
 FAVLWYAVAEMNGDLEIDHDVPPENHTICVKHITSFTAASFSLLETQLTIGYGTMFPSGDCPSAIALLAI
 QMLLGLMLEAFITGAFVAKIARPKNRAF SIRFTDLAVVAHKDGPNIIFQVANTRPSL TNVRVSAVLYQ
 ERENGELYQTSVDFHLDGISSEECPPFFIFPLTYHTISPSPLATLLQHETPPHFELVVFLSAMQEGTGE
 ICQRRTSYLPSEIMLHHRFAALMTRGSKGEYQVKMENFDKTVPEHPTPVVSKSPHRTDLDIHINGQSIDN
 FQIAETGLTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9074_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001110227

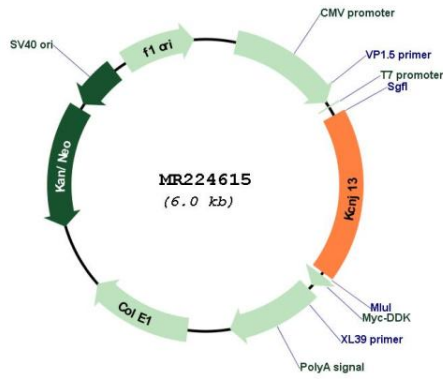
ORF Size: 1080 bp

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:	<u>NM_001110227.2</u> , <u>NP_001103697.1</u>
RefSeq Size:	3056 bp
RefSeq ORF:	1083 bp
Locus ID:	100040591
UniProt ID:	<u>P86046</u>
Cytogenetics:	1
MW:	40.6 kDa
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. KCNJ13 has a very low single channel conductance, low sensitivity to block by external barium and cesium, and no dependence of its inward rectification properties on the internal blocking particle magnesium (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224615