

Product datasheet for **MG224615**

Kcnj13 (NM_001110227) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Kcnj13 (NM_001110227) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Kcnj13
 Synonyms: 100040591
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG224615 representing NM_001110227
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAGCAGTAATTGTAAGTGAATGCTCCTCTCCTGAGTCAAAGACACCGGAGGATGGTCACAAAAG
 ACGGCCACAGCACACTTCAGATGGATGGTCTCAAAGGGCCCTTGTGTATCTCCGAGATGCATGGGAAT
 CCTAATGGACATGCGCTGGCGTGGATGATGCTGGTCTTTCTGCTTCTTTGTTGCCACTGGCTTGTC
 TTTGCAGTCTCTGGTATGCTGTAGCTGAGATGAATGGTATCTGGAAATAGACCAGGACGTCCACCTG
 AAAACCACACTATCTGTGTGAAGCACATACCAGCTTCACAGCTGCATTCTCCTTCTCTCTGGAGACACA
 ACTTACAATTGGTTATGGTACCATGTTTCCAGTGGTACTGTCCAAGTGAATCGCCTTACTTGCCATA
 CAAATGCTCCTAGGCCTCATGCTAGAGGCTTTTATCACAGGTGCCCTTTGTGGCGAAGATTGCACGGCAA
 AAAATAGAGCTTTCTCAATTCGATTCACTGACTTAGCAGTTGTAGCTCACAAAGATGGCAAACCTAATCT
 TATCTTCCAAGTGGCAAACCCGGCCAGCCCTCGACCAACGTTTCGTGTCTGCTGTACTCTATCAG
 GAAAGAGAAAAATGGTGAACCTTACCAGACCAGTGTGGACTTCCACCTTGATGGCATCAGTTCTGAGGAAT
 GTCCATTTCTCATCTTCCCGTAACCTATTACCATACTATCTCACCATCAAGTCTCTAGCTACCCCTGCT
 CCAACATGAGACTCCTCCACACTTTGAATTAGTTGTGTTCCCTCTCAGCAATGCAAGAAGGCACTGGGGAA
 ATCTGCCAAAGGAGGACATCCTACCTGCCCTCTGAGATCATGTTACATCACCGATTTGCAGCTCTAATGA
 CTCGAGGTTCCAAAGGTGAGTATCAAGTCAAGATGGAGAATTTTGACAAGACTGTTCTGAACATCCAAC
 ACCTGTGGTCTCTAAGAGTCCACACAGGACTGACCTAGATATTATCAATGGACAAAGCATTGACAAT
 TTCAGATTGCTGAAACAGGGCTGACAGAA

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224615 representing NM_001110227
 Red=Cloning site Green=Tags(s)

MSSNCKVNAPLLSQRHRRMVTKDGHSTLQMDGAQRGLVYL RDAWGILMDMRWRWMLVFSASFVHVLV
 FAVLWYAVAEMNGDLEIDHDVPPENHTICVKHITSFTAASFSLLETQLTIGYGTMFPSGDCPSAIALLA
 QMLLGLMLEAFITGAFVAKIARPKNRAF SIRFTDLAVVAHKDGPNIIFQVANTRPSL TNVRVSAVLYQ
 ERENGELYQTSVDFHLDGISSEECPPFFIFPLTYYHTISPPSPLATLLQHETPPHFELVVFLSAMQEGTGE
 ICQRRTSYLPSEIMLHHRFAALMTRGSKGEYQVKMENFDKTVPEHPTPVVSKSPHRTDLDIHINGQSIDN
 FQIAETGLTE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1823_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001110227

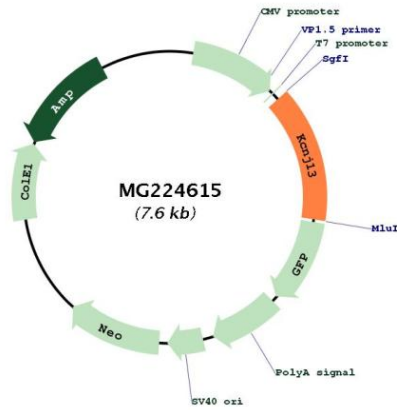
ORF Size: 1080 bp

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:	NM_001110227.2 , NP_001103697.1
RefSeq Size:	1349 bp
RefSeq ORF:	1083 bp
Locus ID:	100040591
UniProt ID:	P86046
Cytogenetics:	1
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 MG224615