

Product datasheet for **RR211607**

Kcnj16 (NM_053314) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj16 (NM_053314) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj16
Synonyms: Kir5.1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211607 representing NM_053314
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCTATTACGGAAGTAGCTACCGGATTGTCAACGTGGACTCCAAATATCCAGGCTATCCTCCAGAGC
ATGCCATAGCCGAGAAGAGAAGAGCGAGGAGCGCCTGCTCCACAAGATGGCAGCTGTAACGTGTACTT
TAAACACATTTTTGGAGAATGGGGGAGCTACATGGTTGATATATCCACCCTCTGTGGATACCAAGTGG
CGCCATATGTTTGAATATTTCTTTGTCTTACATTCTCTCCTGGTTGATATTCGGCTCCATATTTTGGC
TCATAGCCCTTATCACGGAGACCTATTAGCGATCCAGACATCACCCCGTGCCTGGACAACGTGCATTC
ATTTACGGCGCGCTTTTTATTCTCCCTTGAGACCCAAACCACCATCGGGTACGGTTACCGTTGTGTACAG
GAAGAATGCTCTGTGGCCGTGCTGACGGTCATCCTTCAGTCCATCCTGAGCTGCATCATAAACACCTTCA
TCATTGGGGCAGCCTTGGCAAAGATGGCGACCCCGGAAGCGAGCCAGACCATCCGCTTCAGCTATTT
CGCACTCATCGGCATGAGAGACGGGAAGCTTGCCTCATGTGGCGCATAGGTGACTTCCGACCCAACCAT
GTGGTGGAGGGCACGGTGAGAGCCCAACTTCTGCGCTATTGAGAACAGCAGCGAAGGGCGGATGACGATGG
CGTTTAAAGACCTCAAACCTCGTCAATGACCAGATAATCCTGGTAACGCCAGTGACCATTGTCCATGAAAT
TGACCACGAGAGTCTCTGTATGCCCTTGACCGCAAGGCAGTGGCCAAAGATAATTTTCGAGATTCTGGTG
ACATTTATTTATACTGGTACTCTACTGGGACATCCCACCACTCCAGAAGTTCCTACGTCCCCAGAGAAA
TTCTCTGGGGACACAGGTTTCATGATGATTGGAAGTGAAGAGAAAGTACTACAAGGTAACCTGCTTGCA
GTTTGGAGGAAGCGTGAAGTCTACGCCCTTTTGCAGTGCCAAACAACCTGGACTGGAAGGACCAACAG
CTCAACAACCTGGAGAAAACGTCCCTGCCCGAGGATCCTGCACCTCGGACACCAACACCAGGAGGAGAT
CCTTCAGCGCAGTTGCCATGGTGTGAGCAGCTGTGAGAACCCAGAGGAGACCAGCCTGTCCCAACAAGATGA
GTGTAAGGAGTCCCCTATCAGAAAGCCCTCTGACTTTAAACAGGATCTCCATGGAATCCCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211607 representing NM_053314
Red=Cloning site Green=Tags(s)

MSYYGSSYRIVNVDSKYPGPPEHAIAEKRRARRRLLHKDGCNVYFKHIFGEWGSYMDIFFTLLVDTKW
 RHMVFVIFSLSYILSWLIFGSIFWLIALHHGDLSDPDIIPCVDNVHSFTAFLSLETQTTIGYGYRCVT
 EECSSAVLTVILQSIILSCIINTFIIGAALAKMATARKAQITIRFSYFALIGMRDGKLCMLMWRIGDFRPNH
 VVEGTVRAQLLRYSSEDEGRMTMAFKDLKLVNDQIILVTPVTIVHEIDHESPLYALDRKAVAKDNFEILV
 TFIYTG DSTGTSHQSRSSVYPREILWGHFRFHDVLEVKRKYKVNCLQFEGSVEVYAPFCSAKQLDWKDQQ
 LNNLEKTPARGSCTSDTNTRRRSFSAVAMVSSCENPEETSLSPQDECKEVPYQKALLTLNRI SMESQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

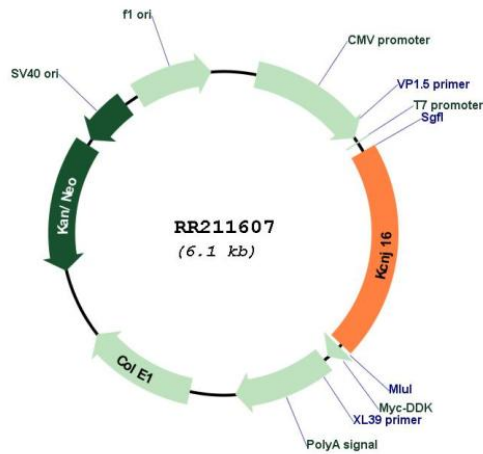
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053314

ORF Size:	1257 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_053314.2 , NP_445766.2
RefSeq Size:	1803 bp
RefSeq ORF:	1260 bp
Locus ID:	29719
Cytogenetics:	10q32.1
MW:	48 kDa
Gene Summary:	inward rectifying potassium channel; may be involved in renal pH regulation [RGD, Feb 2006]