

Product datasheet for RR209907

Kcnj1 (NM_017023) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnj1 (NM_017023) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnj1
Synonyms: KAB-1; Kcnj; kir1.1; ROMK1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209907 representing NM_017023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCGCTTCGGAACGGAGTGTGTTCTCAGAGTCTGATCAGGGCACTGACAGAAAGGATGTTCAAACACC
 TCCGAAGATGGTTTGTCACTCACATATTTGGGCGTCCCGGCAACGGCAAGGCTGGTCTCTAAAGAAGG
 AAGATGTAACATCGAGTTTGGCAATGTGGATGCACAGTCAAGGTTTATATTCTTTGTGGACATCTGGACA
 ACTGTGCTGGACCTGAAATGGAGGTACAAAATGACCGTGTTCATCACAGCCTTCTGGGGAGTTGGTTCC
 TCTTTGGTCTCCTGTGGTATGTCGTAGCGTATGTTTATAAGGACCTCCAGAGTTCTACCCGCTGACAA
 CCGCACTCCTGTGTGGAGAACATTAATGGCATGACTTCAGCCTTCTGTTTTCTCTAGAGACTCAAGTG
 ACCATAGGTTACGGATTCAGGTTTGTGACAGAACAGTGCGCCACTGCCATTTTCTGCTTATCTTCCAAT
 CTATTCTGGAGTGATCATCAATTCCTTCATGTGTGGTGCATTTTAGCCAAGATCTCTAGACCTAAAAA
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 ATCCGAGTGGCCAATCTTAGGAAGAGCCTTCTGATTGGCAGCCACATATATGGCAAGCTTCTAAAGACAA
 CCATCACTCTGAAGGCGAGACCATCATTTGGATCAGACCAACATCAACTTTGTGCTCGACGCTGGCAA
 TGAATAATTTGTTCTTCATATCCCCTGACGATCTACCACATTATTGACCACAACAGCCCTTCTCCAC
 ATGGCAGCAGAACTCTTTCCCAACAGGACTTTGAGCTGGTGGTCTTTTTAGATGGCACAGTGGAAATCCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RR209907 representing NM_017023
 Red=Cloning site Green=Tags(s)

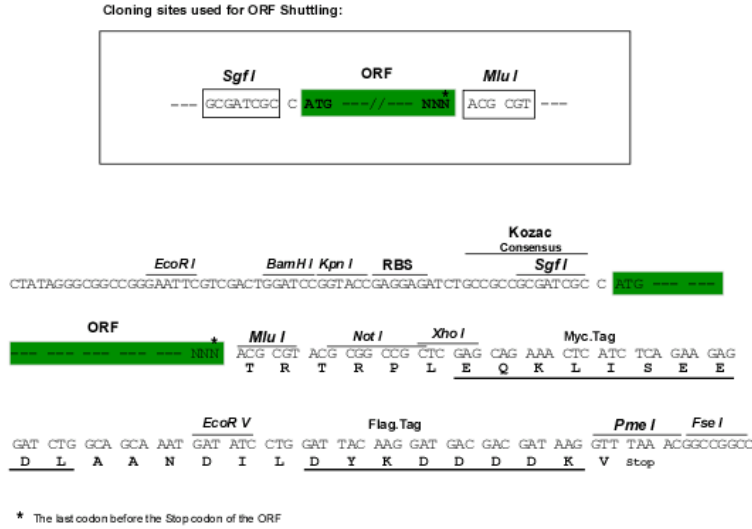
MGASERSVFRVLIRALTERMFKHLRRWFVTHIFGRSRQARLVSKEGRCNIEFGNVDAQSRFIFVVDIWT
 TVLDLKWRYKMTVFITAF LGSWFLGLLWYVVAYVHKDLPEFYPPDNRTPCVENINGMTSAFLF SLETQV
 TIGYGFRFVTEQCATAIFLLIFQSI LGVIINSFMCGAILAKISRPKRAKTITFSKNAVISKRGKLC LL
 IRVANLRKSL LIGSHIYGKLLKTTITPEGETIILDQTNIN FVVDAGNENLFFISPLTIYHIIDHNSPFFH
 MAAETLSQQDFELVVFLDGTVESTSATCQVRTSYVPEEVLWGYRFVPIVSKTKEGKYRVD FHNFGKTVEV
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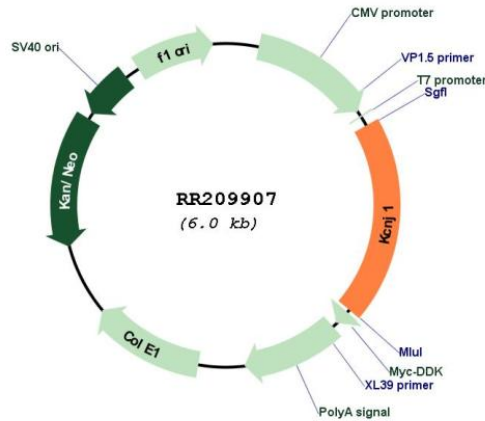
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_017023

ORF Size:	1173 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_017023.2 , NP_058719.2
RefSeq Size:	2999 bp
RefSeq ORF:	1176 bp
Locus ID:	24521
Cytogenetics:	8q21
MW:	44.9 kDa
Gene Summary:	potassium channel involved in K ⁺ secretion in the renal distal nephron [RGD, Feb 2006]