

Product datasheet for **RR209019**

Kcna1 (NM_173095) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna1 (NM_173095) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcna1
Synonyms:	Kcna; Kcpvd; Kv1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR209019 representing NM_173095
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGTGATGTCAGGGGAGAATGCAGACGAGGCTTCGGCCGCTCCAGGTCACCCCCAGGATGGCAGCT
 ACCCAAGCAGGCGGACCACGACGACCAGAATGCTGCGAGCGCTGGTATCAACATCTCCGGGCTGCG
 CTTGAGACGCAGCTCAAGACTCTGGCCAGTTCGCCAACACGCTGCTGGGCAACCCGAAGAAACGCATG
 CGCTACTTTGACCCTCTGAGGAATGAGTACTTCTTTGACCGCAACCGGCCAGCTTCGATGCCATCCTTT
 ATTACTACCAGTCGGGGGGCGCCTGCGCAGGCCGGTCAACGTGCCCTGGACATGTTCTCCGAGGAGAT
 TAAATTTTACGAGTTGGGCGAGGAGCCATGGAGAAGTTCGGGAAGATGAGGGCTTCATCAAGGAAGAG
 GAGCGCCCTACCCGAGAAGGAGTACCAGCGCCAGGTGGCTGCTCTTTGAGTATCCGGAGAGCTCAG
 GACCTGCACGGGTTATTGCCATTGTATCCGTATGGTCATCCTCATCTCCATAGTCATCTTTTGCCTGGA
 GACTCTCCCTGAGCTGAAGGATGACAAGGACTTCACGGGCACCATTACCCGCATCGATAACACCACAGTC
 ATCTACACTTCTAACATCTTACAGACCCCTTCTTCATTGTGAAACCTTGTGTATCATCTGGTTCTCTT
 TTGAGCTGGTGGTGCCTTCTTCGCTGCCAGCAAGACAGACTTCTTTAAGAATCATGAATTCAT
 CGACATTTGGCCATCATCCCTTATTTACCTGGGCACAGAGATAGCTGAGCAGGAGGGGAATCAG
 AAGGGCGAGCAGGCCACTTCCCTGGCCATCCTCAGGGTATCCGCTTGGTAAGGGTGTTCAGAATCTTCA
 AACTCTCCCGCCACTCCAAGGGCCTTCCAGTCTGGGCCAGACCTCAAAGCTAGTATGAGGGAGTTAGG
 GCTGCTCATCTTTTCTTTCATTGGCGTCATACTGTTTCTAGTGCAGTGTACTTTGCGGAGGCGGAA
 GAAGCTGAGTCGCACTTCTCCAGTATCCCGATGCTTTCTGGTGGGCGGTGGTGTCCATGACCACTGTGG
 GATACGGTGACATGTACCCTGTGACAATTGGAGCAAGATCGTGGGCTCCTTGTGTGCCATCGCTGGTGT
 GCTGACAATTGCCCTGCCGTACCTGTCAATTGTGTCAAATTTCAACTATTTCTACCACCGAGAAACTGAG
 GGGGAAGAGCAGGCTCAGTTGCTCCATGTTAGTCTCCTAACTTAGCCTCTGACAGTGCCTCAGCCGCC
 GCAGCTCTCTACTATCAGCAAGTCTGAGTACATGGAGATCGAAGAGGACATGAACAATAGCATAGCCCA
 CTACAGGCAGGCTAATATCAGAAGTGGTAACTGCACCGCAACTGATCAAAACTGCGTTAATAAGAGCAAG
 CTCCTGACCGATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209019 representing NM_173095
 Red=Cloning site Green=Tags(s)

MTVMSENADEASAAPGHPQDGSYPRQADHDDHECCERVVINISGLRFETQLKTLAQFPNTLLGNPKKRM
 RYFDPLRNEYFFDRNRPSFDAILYYYQSGGRLRPVNVPLDMFSEEIKFYELGEEAMEKFREDEGFKEE
 ERPLPEKEYQRQVWLLFEYPSSGPARVIAIVSMVILISIVIFCLETLPELKDDKDFGTIHRIDNTTV
 IYTSNIFTDPFFIVETLCIIWFSFELVVRFFACPSKTDFFKNIMNFIDIVAIIPYFITLGEIAEQEGNQ
 KGEQATSLAILRVIRLVRFIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEAE
 EAESHFSSIPDAFWAVVSMTTVGYGDMYPVTIGGKIVGSLCAIAGVLTIALPVPVIVSNFNFYHRETE
 GEEQAQLLHVSSPNLASDSDLRRSSSTISKSEYMEIEEDMNNSIAHYRQANIRTGNCTATDQNCVNKSK
 LLTDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_173095

ORF Size: 1485 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:

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_173095.3](#), [NP_775118.1](#)

RefSeq Size: 1746 bp

RefSeq ORF: 1488 bp

Locus ID: 24520

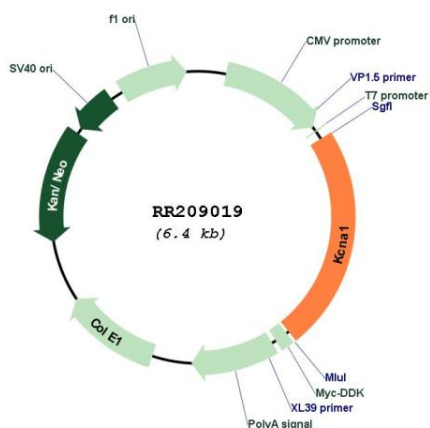
UniProt ID: [P10499](#)

Cytogenetics: 4q42

MW: 56.4 kDa

Gene Summary: voltage-gated potassium channel; activation is delayed [RGD, Feb 2006]

Product images:



Circular map for RR209019