

Product datasheet for RR211722

Kcnk1 (NM_021688) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnk1 (NM_021688) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnk1
Synonyms: Twik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211722 representing NM_021688
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCAGTCCCTGGCCGGCAGCTCGTGCCTGCGCCTGGTGGAGCGGCACCGCTCGGCCTGGTGCCTTCG
GCTTCCTGGTGTGGGCTACCTGCTCTACCTGGTGTTCGGCGCCGTGGTCTTCTCGTCCGTGGAGCTGCC
TTATGAGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGAAGCGGCGCTTCTGGAGGAGCAGGAGTGCCTG
TCGGAGCCCCAGCTGGAGCAGTTCCTGGGCCGCGTGTGGAGGCCAGCAATTATGGAGTGTCCGGTGCCTCA
GCAACGCCTCGGGGAATTGGAATTGGGACTTCACCTCGGCCTCTTCTTCGCCAGCACGGTGTCTCCAC
CACAGGCTATGGCCACACGGTGCCTTGTGAGATGGGGCAAGGCCTTCTGCATCATCTACTCTGTCTCATT
GGCATCCCGTTCACCTCCTCTTCTGACGGCCGTGGTCCAGCGTGTACCCGTGCATGTACCCCGCAGAC
CGGTCTCTACTTCCACATACGCTGGGGCTTCTCCAAGCAGGTGGTGGCCATCGTCCATGCCGTTCTGCT
GGGATTCGTACCGTGTCTGCTTCTTCTCATCCCGCCGCGTGTCTCCGTGCTGGAGGATGACTGG
AACTTCTCGAATCTTTTACTTCTGTTTCATCTCCCTGAGCACCATCGGCCTGGGGACTACGTTCCAG
GGGAAGGCTACAACCAGAAGTTCGGGAGCTGTACAAGATCGGGATCACGTGTTACCTGCTCTGGGACT
CATAGCCATGCTGGTGTCTGAAACCTTCTGTGAGCTCCACGAGCTGAAGAAATTCAGGAAAATGTTT
TATGTGAAGAAAGACAAGGATGAAGACCAAGTTCACATCATGGAGCATGACCAACTGTCTTTTCTCCCA
TCACTGAGCAGGCGCCGGCCTGAAGGAGGAGCAGAAGCAAACGAGCCTTTTGTGGCCTCCAGTCACC
ACCCTATGAGGATGGCTCTGCAAACCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211722 representing NM_021688
Red=Cloning site Green=Tags(s)

MLQSLAGSSCVRLVERHRSAWCFGLVLGYLLYLVFGAVVFSSVELPYEDLLRQELRKLKRRFLEEHECL
 SEPQLEQFLGRVLEASNYGVSLSNASGNWNWDFTSALFFASTVLSTTGYGHTVPLSDGGKAFCCIYSVI
 GIPFTLLFLTAVVQRVTVHVTRRPVLYFHIRWGF SKQVVAIVHAVLLGFVTVSCFFFIPAAVFSVLEDDW
 NFLESFYFCFISLSTIGLDYVPGEGYNQKFRELYKIGITCYLLGLIAMLVVLETFCELHELKFRKMF
 YVKKDKDEDQVHIMEHDQLSFS SITEQAAGLKEEQKQNEPFPVASQSPPYEDGSANH

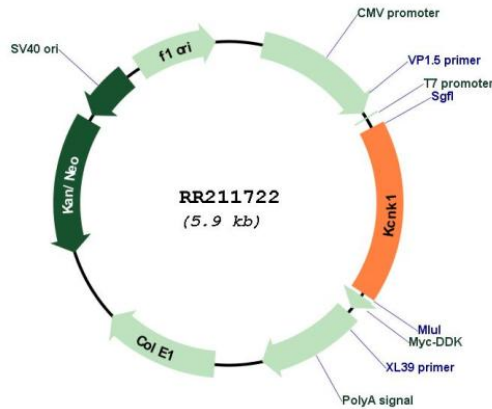
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021688

ORF Size: 1008 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_021688.3 , NP_067720.1
RefSeq Size:	2530 bp
RefSeq ORF:	1011 bp
Locus ID:	59324
UniProt ID:	Q9Z2T2
Cytogenetics:	19q12
MW:	38.2 kDa
Gene Summary:	a putative potassium channel with two P domains [RGD, Feb 2006]