

Product datasheet for RR210271

Kcnk6 (NM_053806) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk6 (NM_053806) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnk6
Synonyms:	Twik-2; Twik2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210271 representing NM_053806 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGGGGCGCTCCTGGCTAGCGCCCTGGTCGCCTACGCCGGGTACCTGGCGCTCGGCGCGCTGC
TTGTGGCGCGGCTGGAGCGGCCGACGAAGCCCGGCTGCGGGCAGAGCTGGGGACGCTCGGGAGCAGCT
GCTGCGGCACAGCCCGTGCCTGGCGGCTCACGCCCTGGACGCCTTCGTGGAGCGGGTGTGGCGGCAGGA
CGGCTGGGGCGCGCAGTGTGGCAACGCATCGGGACCCGCCAACGTTTCGGACCCCGCTGGGACTTTG
CCTCGGCGCTCTTCTCGCCAGCAGCTAGTCACCACCGTGGGCTATGGCTACACGACCCCACTGACGGA
TGCAAGCAAAGCCTTCTCCATCGTTTTTGCCTCCTGGGCGTGCCTATCACCATGCTACTTCTGACTGCC
TCAGCCCAGCGCCTGTCCTGCTGCTCACCCACGACCCCTGTCCCTGGCTGAGCCTGCGCTGGGGCTGGC
ACCCGAGCGGGCAGCCCGCTGGCACCTGGTGGCCCTACTGATGGTCATAGTGGCTATATTTTCTGAT
CCCGGCTGCGGCTTTCGCTACCTTGAGGAGCCCTGGAGCTTTCTGGATGCTTTCTATTTCTGCTTCATC
TCTCTGTCCACCATTTGGCTGGGGACTATGTGCTGGGAAGCCCGGGCCAGCCTTACCGATCCCTCT
ACAAGGTGCTTGTACAGCATACCTCTTCTCGGCTTGTGCCATGGTGTGTTGCAGACTTCCG
CCGTGTTTCTGACCTCCATGGCCTCACTGAACCTCATCTTGCTGCCGATCCCGACCCTGCCAGGCTCCAC
CAGGATGAGGATGACCAGGTGGACATTCTGGATGCCCGGACAGATCTGCATCAGCATCTCTGCTGCCT
CCCACGTAATTACGCCCTCCATCCCCAGG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210271 representing NM_053806
Red=Cloning site Green=Tags(s)

MRRGALLASALVAYAGYLALGALLVARLERPHEARLRAELGTLREQLLRHSPCVAHALDAFVERVLAAG
 RLGRAVLANASGPANASDPADFASALFFASTLVTTVGYGYTTPPLTDAGKAFSIVFALLGVPITMLLLTA
 SAQRLSLLLTHAPLSWLSLRWGWHPQRAARWHLVALLMVIVAIFFLIPAAVFAYLEEAWSFDAFYFCFI
 SLSTIGLGDYVPGGEAPGQPYRSLYKVLVAYLFLGLVAMVLVLQTFRRVSDLHGLTELILLPDPDPARLH
 QDEDDQVDILDARTDLHQHLSAASHANYASIPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053806

ORF Size: 939 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_053806.2](#), [NP_446258.2](#)

RefSeq Size: 1898 bp

RefSeq ORF: 942 bp

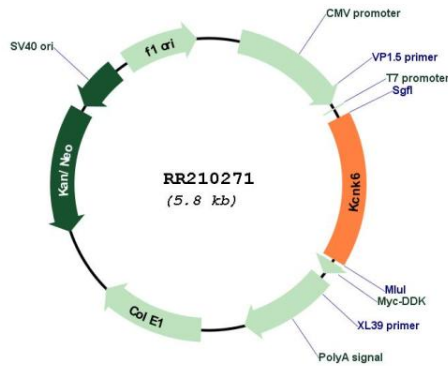
Locus ID: 116491

Cytogenetics: 1q21

MW: 34.2 kDa

Gene Summary: outward rectifying K⁺ channel [RGD, Feb 2006]

Product images:



Circular map for RR210271