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Product datasheet for RC202421

KCNK6 (NM_004823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK6 (NM_004823) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNK6
Synonyms:	K2p6.1; KCNK8; TOSS; TWIK-2; TWIK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202421 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGAGGGGCGCGCTTCTGGCGGGCGCCTTGGCCGCGTACGCCGCGTACCTGGTGCTGGGCGCGCTGT
TGGTGGCGCGGCTGGAGGGGCCGCACGAAGCCAGGCTCCGAGCCGAGCTGGAGACGCTGCGGGCGCAGCT
GCTTCAGCGCAGCCCGTGTGTGGCTGCCCCCGCCCTGGACGCCTTCGTGGAGCGAGTGCTGGCGGCCGGA
CGGCTGGGGCGGGTCGTGCTTGCTAACGCTTCGGGGTCCGCCAACGCCTCGGACCCCGCCTGGGACTTCG
CCTCTGCTCTCTTCTTCGCCAGCACGCTGATCACCACCGTGGGCTATGGGTACACAACGCCACTGACTGA
TGCGGGCAAGGCCTTCTCCATCGCCTTTGCGCTCCTGGGCGTGCCGACCACCATGCTGCTGCTGACCGCC
TCAGCCCAGCGCCTGTCACTGCTGCTGACTCACGTGCCCCTGTCTTGGCTGAGCATGCGTTGGGGCTGGG
ACCCCCGGCGGGCGGCCTGCTGGCACTTGGTGGCCCTGTTGGGGGTCGTAGTGACCGTCTGCTTTCTGGT
GCCGGCTGTGATCTTTGCCCACCTCGAGGAGGCCTGGAGCTTCTTGGATGCCTTCTACTTCTGCTTTATC
TCTCTGTCCACCATCGGCCTGGGCGACTACGTGCCCGGGGAGGCCCCTGGCCAGCCCTACCGGGCCCTCT
ACAAGGTGCTGGTCACAGTCTACCTCTTCCTGGGCCTGGTGGCCATGGTGCTGGTGCTGCAGACCTTCCG
CCACGTGTCCGACCTCCACGGCCTCACGGAGCTCATCCTGCTGCCCCCTCCGTGCCCTGCCAGTTTCAAT
GCGGATGAGGACGATCGGGTGGACATCCTGGGCCCCCAGCCGGAGTCGCACCAGCAACTCTCTGCCAGCT
CCCACACCGACTACGCTTCCATCCCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202421 protein sequence
Red=Cloning site Green=Tags(s)

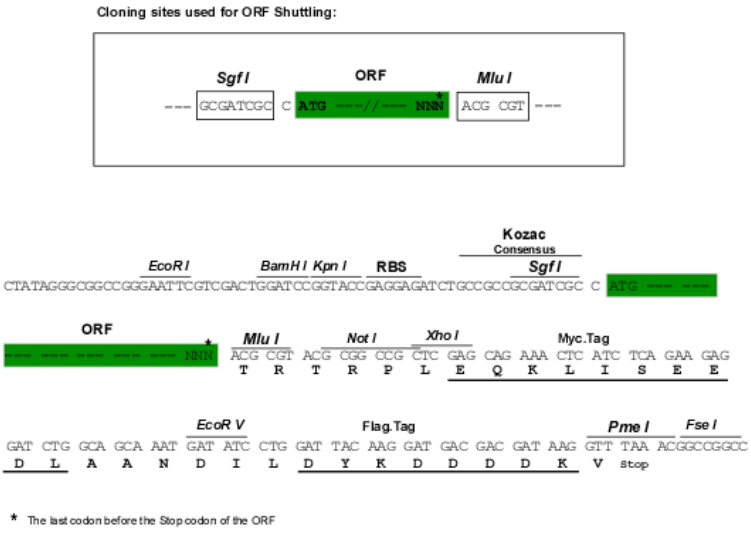
MRRGALLAGALAAYAAYLVLGALLVARLEGPHEARLRAELETLRAQLLQRSPCVAAPALDAFVERVLAAG
RLGRVVLANASGSANASDPAWDFASALFFASTLITTVGYGYTTPLTDAGKAFSIAFALLGVPTTMLLLTA
SAQRLSLLLTHVPLSWLSMRWGWDPRRAACWHLVALLGVVVTVCFLVPAVIFAHLEEAWSFLDAFYFCFI
SLSTIGLGDYVPGEAPGQPYRALYKVLVTVYLFLGLVAMVLVLQTFRHVSDLHGLTELILLPPPCPASFN
ADEDDRVDILGPQPESHQQLSASSHTDYASIPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6193_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004823

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004823.3

RefSeq Size: 2671 bp

RefSeq ORF: 942 bp

Locus ID: 9424

UniProt ID: Q9Y257

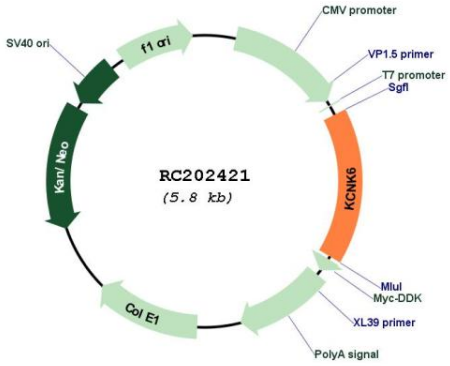
Cytogenetics: 19q13.2

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

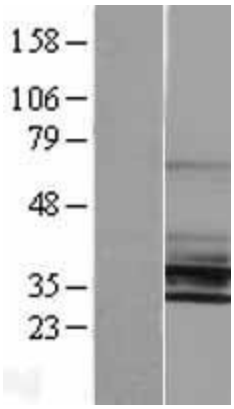
MW: 33.7 kDa

Gene Summary: This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. This channel protein, considered an open rectifier, is widely expressed. It is stimulated by arachidonic acid, and inhibited by internal acidification and volatile anaesthetics. [provided by RefSeq, Jul 2008]

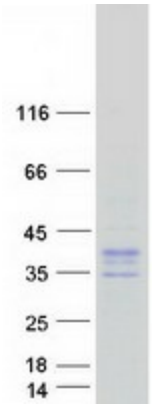
Product images:



Circular map for RC202421



Western blot validation of overexpression lysate (Cat# [LY401515]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202421 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNK6 protein (Cat# [TP302421]). The protein was produced from HEK293T cells transfected with KCNK6 cDNA clone (Cat# RC202421) using MegaTran 2.0 (Cat# [TT210002]).