

Product datasheet for RC211314

KCNK9 (NM_016601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK9 (NM_016601) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNK9
Synonyms:	K2p9.1; KT3.2; TASK-3; TASK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211314 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGGCAGAACGTGCGGACTCTGTCCCTCATCGTCTGCACCTTCACCTACCTGCTGGTGGGCGCCG
CCGTGTTTCGACGCCCTCGAGTCGGACCACGAGATGCGCGAGGAGGAGAACTCAAAGCCGAGGAGATCCG
GATCAAGGGGAAGTACAACATCAGCAGCGAGGACTACCGCAGCTGGAGCTGGTATCCTGCAGTCGGAA
CCGCACCGCGCCGGCTCCAGTGGAAATTCGCCGGCTCCTTCTACTTTGCGATCACGGTCATCACCACCA
TAGGTTATGGGCACGCTGCACCTGGCACCGATGCGGGCAAGGCCTTCTGCATGTTCTACGCCGTGCTGGG
CATCCCGCTGACACTGGTCATGTTCCAGAGCCTGGGCGAGCGCATGAACACCTTCGTGCGCTACCTGCTG
AAGCGCATTAGAAGTGCTGTGGCATGCGCAACACTGACGTGTCTATGGAGAATATGGTACTGTGGGCT
TCTTCTCTGCATGGGACGCTGTGCATCGGGCGGCCGCTTCTCCAGTGTGAGGAGTGGAGCTTCTT
CCACGCCACTACTACTGCTTATCACGTTGACTACCATGGGTTGCGGGACTACGTGGCCCTGCAGACC
AAGGGCGCCCTGCAGAAGAAGCCGCTCTACGTGGCCTTTAGCTTTATGTATATCCTGGTGGGCTGACGG
TCATCGGGCCTTCTCAACCTGGTCGTCCTCAGTTCCTGACCATGAACAGTGAAGGATGAGCGCGGGGA
TGCTGAAGAGAGGGCATCCCTCGCCGAAACCGCAACAGCATGGTCATTACATCCCTGAGGAGCCGCGG
CCCAGCCGCCCAGGTACAAGGCGGACGTCCCGACCTGCAGTCTGTGTGCTCTGCACCTGCTACCGCT
CGCAGGACTATGGCGGCCGCTCGGTGGCACCGCAGAACTCCTTACGCGCCAAGCTTGCCCCCACTACTT
CCTACTCCTCTTACAAGATCGAGGAGATCTCACCAAGCACATTAACCAACAGCCTCTTCCCATCGCCT
ATTAGCTCCATCTCTCTGGGTTACACAGCTTTACCGACCACAGAGGCTGATGAAACGCCGGAAGTCCG
TT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211314 protein sequence
Red=Cloning site Green=Tags(s)

MKRQNVRTL SLIVCTFTYLLVGAAVDALESDHEMREEEKLKAEIIRIKGKYNISSEDRQLELVILQSE
 PHRAGVQWK FAGSFYFAITVITTIYGYGHAAPGTDAGKAF CMFYAVLGIPLTLVMFQSLGERMNTFVRYLL
 KRIKKCCGMRNTDVS MENMVTVGFFSCMGTL CIGAAAFSQCEEWSFFHAYYYCFITLTTIGFGDYVALQT
 KGALQKKPLYVAF SFMYILVGLTVIGAFNLVLRFLTMNSEDERRDAEERASLAGNRNSMVIHIPEEPR
 PSRPRYKADVPDLQSVCSCTCYRSQDYGGRSVAPQNSFSAKLAPHYFHSISYKIEEISPSTLKNSLFPSP
 ISSISPLHSFTDHQRLMKRRKSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6195_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_016601

ORF Size: 1122 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_016601.2](#), [NP_057685.1](#)

RefSeq Size: 3300 bp

RefSeq ORF: 1124 bp

Locus ID: 51305

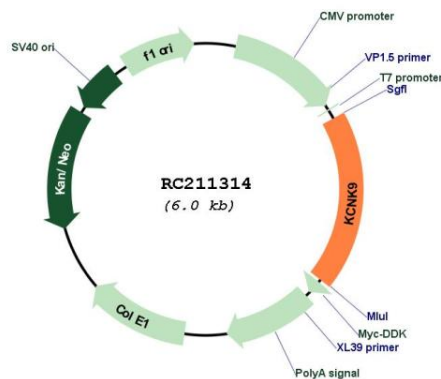
Cytogenetics: 8q24.3

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

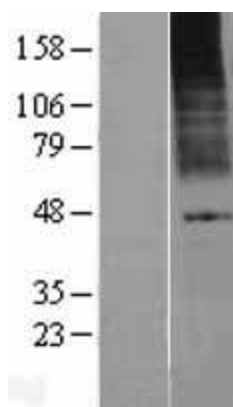
MW: 42.3 kDa

Gene Summary: This gene encodes a protein that contains multiple transmembrane regions and two pore-forming P domains and functions as a pH-dependent potassium channel. Amplification and overexpression of this gene have been observed in several types of human carcinomas. This gene is imprinted in the brain, with preferential expression from the maternal allele. A mutation in this gene was associated with Birk-Barel dysmorphism syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC211314



Western blot validation of overexpression lysate (Cat# [LY402572]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).