

Product datasheet for **RC206399**

KCNK17 (NM_031460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK17 (NM_031460) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNK17
Synonyms:	K2p17.1; TALK-2; TALK2; TASK-4; TASK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206399 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGACCGGAGCCCGGGCGGCTCCCGAGGGCAGGGTCCGGGGCTGCGCGGTGCCCGGCACCGTGC
TCCTGCTGCTCGCTACCTGGCTTACCTGGCGCTGGGCACCGCGTGTCTGGACGCTGGAGGGCCGCGC
GGCGCAGGACTCCAGCCGACGCTCCAGCGGACAAGTGGGAGCTGTTGCAGAACTTACGTGTCTGGAC
CGCCCGGCGCTGGACTCGCTGATCCGGGATGTCGTCCAAGCATACAAAAACGGAGCCAGCCTCCTCAGCA
ACACCACCAGCATGGGGCGCTGGGAGCTCGTGGGCTCCTTCTTTCTGTGTCCACCATCACCACCAT
TGGCTATGGCAACCTGAGCCCCAACACGATGGCTGCCCGCTTCTGTCATCTTCTTTGCCCTTGTGGGG
ATCCCACTCAACCTCGTGGTGTCAACCGACTGGGCATCTCATGCAGCAGGGAGTAAACCACTGGGCCA
GCAGGCTGGGGGGCACCTGGCAGGATCCTGACAAGGCGCGGTGGCTGGCGGGCTCTGGCGCCCTCCTCTC
GGGCTCCTGCTCTTCTGCTGCTGCCACCGCTGCTTCTCCCACATGGAGGGCTGGAGCTACACAGAG
GGCTTCTACTTCGCTTTCATCACCTCAGCACCGTGGGCTTCGGCGACTACGTGATTGGAATGAACCCCT
CCCAGAGTACCACTGTGGTACAAGAATGGTGTCCCTGTGGATCCTCTTTGGGATGGCATGGCTGGC
CTTGATCATCAAATCATCTCTCCAGCTGGAGACGCCAGGGAGGATGTTCTGTGCTGCCACCACAGC
TCTAAGGAAGACTTCAAGTCCAAAGCTGGAGACAGGGACCTGACCGGGAGCCAGAGTCCCACCTCCCAC
AGCAAGGATGCTATCCAGAGGGACCCATGGGAATCATACAGCATCTGGAACCTTCTGCTCAGCTGCAGG
CTGTGGCAAGGACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206399 protein sequence
Red=Cloning site Green=Tags(s)

MYRPRARAAPEGRVRGCAVPGTVLLLLLAYLALGTGVFWTLEGRAAQDSSRSFQRDKWELLQNFTCLD
 RPALDSLIRDVVQAYKNGASLLSNTTSMGRWELVGSFFFSVSTITITIGYGNLSPNTMAARLFCIFFALVG
 IPLNLVVLNRLGHLMQQGVNHWASRLGGTWQDPDKARWLAGSGALLSGLLLFLLLPPLLFHMEGWSYTE
 GFYFAFITLSTVGFVDYVIGMNPQRYPLWYKNMVSLSLWILFGMAWLALIIKLILSQLETPGRVCSCHHS
 SKEDFKSQSWRQGPDPREPESHSPQQGCYPEGPMGIIQHLEPSAHAAGCGKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6327_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031460

ORF Size: 996 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_031460.4](#)

RefSeq Size: 1589 bp

RefSeq ORF: 999 bp

Locus ID: 89822

UniProt ID: [Q96T54](#)

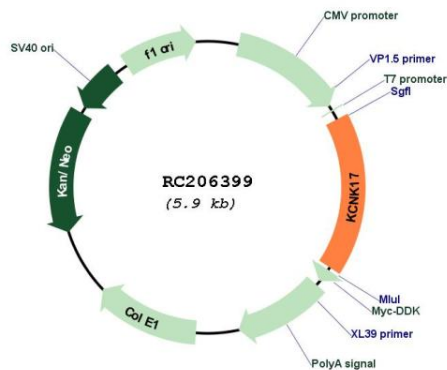
Cytogenetics: 6p21.2

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

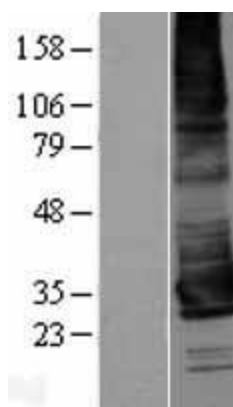
MW: 36.9 kDa

Gene Summary: The protein encoded by this gene belongs to the family of potassium channel proteins containing two pore-forming P domains. This channel is an open rectifier which primarily passes outward current under physiological K⁺ concentrations. This gene is activated at alkaline pH. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

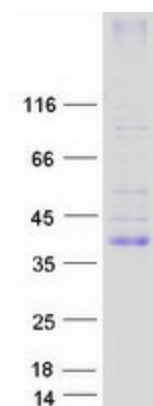
Product images:



Circular map for RC206399



Western blot validation of overexpression lysate (Cat# [LY410506]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206399 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNK17 protein (Cat# [TP306399]). The protein was produced from HEK293T cells transfected with KCNK17 cDNA clone (Cat# RC206399) using MegaTran 2.0 (Cat# [TT210002]).