

Product datasheet for **RG206399**

KCNK17 (NM_031460) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNK17 (NM_031460) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNK17
Synonyms: K2p17.1; TALK-2; TALK2; TASK-4; TASK4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206399 representing NM_031460
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGACCGGAGCCCGGGCGGCTCCCGAGGGCAGGGTCCGGGGCTGCGCGGTGCCCGGCACCGTGC
TCCTGCTGCTCGCTACCTGGCTTACCTGGCGCTGGGCACCGCGTGTCTGGACGCTGGAGGGCCGCGC
GGCGCAGGACTCCAGCCGACGCTCCAGCGCGACAAGTGGGAGCTGTTGCAGAACTTCACGTGTCTGGAC
CGCCCGGCGCTGGACTCGCTGATCCGGGATGTCGTCCAAGCATAAAAAACGGAGCCAGCCTCCTCAGCA
ACACCACCAGCATGGGGCGCTGGGAGCTCGTGGGCTCCTTCTTTCTGTGTCCACCATCACCACCAT
TGGCTATGGCAACCTGAGCCCCAACACGATGGCTGCCCGCTCTTCTGCATCTTCTTTGCCCTTGTGGGG
ATCCCCTCAACCTCGTGGTGTCAACCGACTGGGCATCTCATGCAGCAGGGAGTAAACCACTGGGCCA
GCAGGCTGGGGGGCACCTGGCAGGATCCTGACAAGGCGCGGTGGCTGGCGGGCTCTGGCGCCCTCCTCTC
GGGCTCCTGCTCTTCTGCTGCTGCCACCGCTGCTTCTCCCACATGGAGGGCTGGAGCTACACAGAG
GGCTTCTACTTCGCTTCATCACCTCAGCACCGTGGGCTTCGGCGACTACGTGATTGGAATGAACCCCT
CCCAGAGTACCACTGTGGTACAAGAATGGTGTCCCTGTGGATCCTCTTTGGGATGGCATGGCTGGC
CTTGATCATCAAATCATCTCTCCAGCTGGAGACGCCAGGGAGGGTATGTTCTGCTGCCACCACAGC
TCTAAGGAAGACTTCAAGTCCAAAGCTGGAGACAGGGACCTGACCGGGAGCCAGAGTCCCCTCCCCAC
AGCAAGGATGCTATCCAGAGGGACCCATGGGAATCATACAGCATCTGGAACCTTCTGCTCAGCTGCAGG
CTGTGGCAAGGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206399 representing NM_031460
 Red=Cloning site Green=Tags(s)

MYRPRARAPEGRVRCVAVPGTVLLLLLAYLAYLALGTGVFWTLEGRAAQDSSRSFQRDKWELLQNFCLD
 RPALDSLIRDVVQAYKNGASLLSNTTSMGRWELVGSFFFVSVSTITTIGYGNLSPNTMAARLFCIFFALVG
 IPLNLVVLNRLGHLMQQGVNHWASRLGGTWQDPDKARWLAGSGALLSGLLLFLLLPPLLFSHMEGWSYTE
 GFYFAFITLSTVGFGDYVIGMNPQRYPLWYKNMYSWLWILFGMAWLALIIKLILSQLETPGRVCSCHHS
 SKEDFKSQSWRQGPDPRESHSPQQGCYPEGPMGIIQHLEPSAHAAGCGKDS

TRTRPLE - GFP Tag - V

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_031460.3](#), [NP_113648.2](#)

RefSeq Size: 1589 bp

RefSeq ORF: 999 bp

Locus ID: 89822

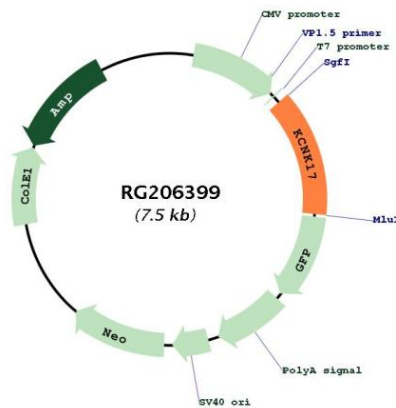
UniProt ID: [Q96T54](#)

Cytogenetics: 6p21.2

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

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 RG206399