

Product datasheet for **RG225367**

KCNK17 (NM_001135111) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNK17 (NM_001135111) 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: >RG225367 representing NM_001135111
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGACCGGAGCCCGGGCGGCTCCCGAGGGCAGGGTCCGGGGCTGCGCGGTGCCAGCACCGTGC
TCCTGCTGCTCGCTACCTGGCTTACCTGGCGCTGGGCACCGCGTGTCTGGACGCTGGAGGGCCGCGC
GGCGCAGGACTCCAGCCGACGTTCCAGCGGACAAGTGGGAGCTGTTGCAGAACTTACGTGTCTGGAC
CGCCCGGCGCTGGACTCGCTGATCCGGGATGTCGTCCAAGCATAAAAAACGGAGCCAGCCTCCTCAGCA
ACACCACCAGCATGGGGCGCTGGGAGCTCGTGGGCTCCTTCTTTCTGTGTCCACCATCACCACCAT
TGGCTATGGCAACCTGAGCCCCAACACGATGGCTGCCCGCTCTTCTGCATCTTCTTTGCCCTTGTGGGG
ATCCCACTCAACCTCGTGGTGTCAACCGACTGGGCATCTCATGCAGCAGGGAGTAAACCACTGGGCCA
GCAGGCTGGGGGGCACCTGGCAGGATCCTGACAAGGCGCGGTGGCTGGCGGGCTCTGGCGCCCTCCTCTC
GGGCTCCTGCTCTTCTGCTGCTGCCACCGCTGCTCTTCTCCACATGGAGGGCTGGAGCTACACAGAG
GGCTTCTACTTCGCTTCATCACCTCAGCACCCTGGGCTTCGGCGACTACGTGATTGCAAGCTGCCTCA
TTTCAGATACGAGAAAACCAACAGAGACTGGCAAACACTAGAGCGGACATCGAAATCCTCTGGGGGCTT
GTAAAAATACAGATTTCTGGCCGGGCACGGTGGCTCACACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225367 representing NM_001135111
 Red=Cloning site Green=Tags(s)

MYRPRARAPEGRVRCAPSTVLLLLLAYLALGTGVFWTLEGRAAQDSSRSFQRDKWELLQNFCTCLD
 RPALDSLIRDVVQAYKNGASLLSNTTSMGRWELVGSFFSVSTITTTIGYGNLSPNTMAARLFCIFFALVG
 IPLNLVVLNRLGHLMQQGVNHWASRLGGTWQDPDKARWLAGSGALLSGLLLFLLLPPLLFHMEGWSYTE
 GFYFAFITLSTVGFQDYVIAASCLISDTRKPNRDWQTLERTSKSSGGLLK YRFLAGHGGSHL

TRTRPLE - GFP Tag - V

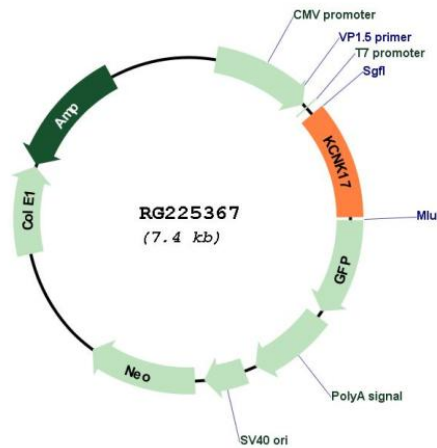
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001135111

ORF Size: 813 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:	<ol style="list-style-type: none">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_001135111.2
RefSeq Size:	1741 bp
RefSeq ORF:	816 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]