

Product datasheet for **RC225402**

KCNK16 (NM_001135106) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_001135106) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNK16
Synonyms:	K2p16.1; TALK-1; TALK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225402 representing NM_001135106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGTGGCCGGTGCTGCCCTGCTGCTGGCCTATGTCTGCT
ACCTGCTGCTCGGTGCCACTATCTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGACCAGTT
TCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGCCATGGAGCAGTTTGTG
CAGGTCATCATGGAAGCCTGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAACTGGG
ACTTTGGCAGCAGTTTCTTTTCAGGCACAGTCGTCCTACTACCATAGGATATGGGAACCTGGCACCCAG
CACAGAGGCAGGTCAGGTCCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATCTTCCTC
AACCCACTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGTCCAGGGCGCT
CCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTCATCTTCCC
ACCCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTCATCACTCTC
AGCACCATTGGCTTTGGGACTATGTTGTTGGCACAGACCCAGCAAGCATTATATCTCAGTGTATCGGA
GCCTGGCAGCCATCTGGATCCTCCTGGGCTGGCGTGGCTGGCGTGATCCTCCACTGGGCCCCCTGCT
TCTGCACAGATGCTGCCAGCTCTGGCTGCTCAGTAGGGGCTCGGCGTCAAGGATGGGGCAGCCTCTGAC
CCAGTGGGCTCCCAGGCTCAGAAGATCCCCATCTCTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225402 representing NM_001135106
Red=Cloning site Green=Tags(s)

MPSAGLCSCWGGRLPLLLAYVCYLLLGATIFQLLERQAEQSRDQFQLEKLRFLFLENYTCLDQWAMEQFV
 QVIMEAWVKGVNPKGNSTNPSNWDGSSFFAGTVVTTIGYGNLAPSTEAGQVFCVYALLGIPLNVIFL
 NHLGTGLRAHLAAIERWEDRPRRSQVLQVLGLALFLTGLTLVILIFPPMVFSHVEGWSFSEGFYFAFITL
 STIGFGDYVVGTDPSKHYSVYRSLAAIWILLGLAWLALILPLGPLLLHRCCQLWLLSRGLGVKDGAAASD
 PSGLPRPQKIPISA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135106

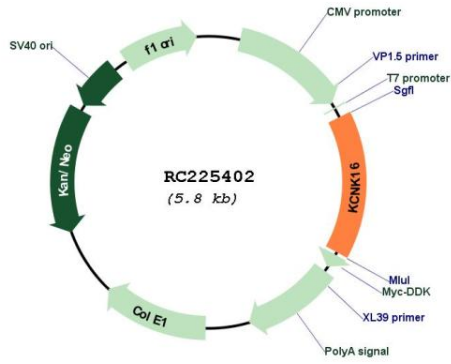
ORF Size: 882 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001135106.2
RefSeq ORF:	885 bp
Locus ID:	83795
UniProt ID:	Q96T55
Cytogenetics:	6p21.2
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	32.3 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 expressed predominantly in the pancreas and is activated at alkaline pH. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RC225402