

Product datasheet for **RG225465**

KCNK16 (NM_001135105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_001135105) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNK16
Synonyms:	K2p16.1; TALK-1; TALK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225465 representing NM_001135105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCTGCTGCTGGCCTATGTCTGCT
ACCTGCTGCTCGGTGCCACTATCTTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGGACCAGTT
TCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGCCATGGAGCAGTTTGTG
CAGGTCATCATGGAAGCCTGGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAACTGGG
ACTTTGGCAGCAGTTTCTTCTTTCAGGCACAGTCGTCCTACTACCATAGGATATGGGAACCTGGCACCCAG
CACAGAGGCAGGTCAGGTCCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATCTTCTCT
AACCCACTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGTCCAGGGCGCT
CCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTCATCTTCCC
ACCCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTCATCACTCTC
AGCACCATTGGCTTTGGGACTATGTTGTTGGCCACCCCTTAACCTCATCACTCCCTCTGGGCTCTCTGC
CTTCTCAAGAGCCTTTCCAAACACCCCATGGGAAGCCAGAGAGCCAGCAGATCCCAGGATCCTTCCAGAA
AGTGAGCTCCATGAACGTCTGGCCTCTCTCAGGAATGCATTCTCCAGGTCTGGCCTTTCCCTGCCAGAC
TGCAACATCCCTGACCAGGAGAGATTTAGACCACTCCATCCGGGGCCTGGAAATTTTGGCCTTTGCCTC
TCCCATCATCAAACAGCAAGTGGGCTCCTATGTGGCTGGGTTCTCTGCACAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG225465 representing NM_001135105
 Red=Cloning site Green=Tags(s)

MPSAGLCSCWGGRVLP LLLAYVCYLLLGATIFQLLERQAEASRDQFQLEKLRFLFENYTC L DQWAMEQFV
 QVIMEAWVKGVNPKGNSTNPSNWDGSSFFFA GTVVTITIGYGNLAPSTEAGQVFCV FYALLGIPLNVIFL
 NHLGTGLRAHLAAIERWEDRPRRSQVLQVLGLALFLTGLTLVILIFPPMVFSHVEGWSFSEGFYFAFITL
 STIGFDYVVGHPLNFI TPSGLLPSQEPFQTPHGKPE SQQIPGSFQKVSSMNVWPLSGMHSPGLAFPLPD
 CNIPDQERFRPLHPGAWKFWPLPLPSSNSKWAPMMLGSSAQV

TRTRPLE - GFP Tag - V

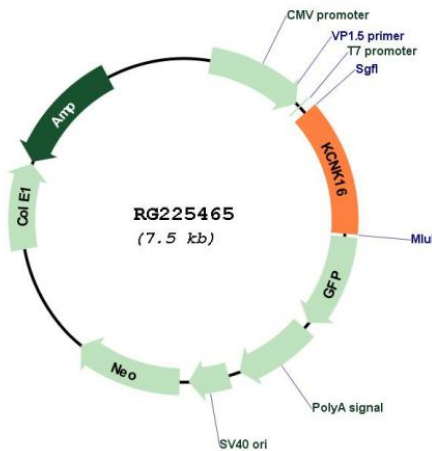
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001135105

ORF Size: 966 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_001135105.2
RefSeq Size:	1412 bp
RefSeq ORF:	969 bp
Locus ID:	83795
UniProt ID:	Q96T55
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 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]