

Product datasheet for **RG224694**

KCNK16 (NM_032115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_032115) 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:	>RG224694 representing NM_032115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCTGCTGCTGGCCTATGTCTGCT
ACCTGCTGCTCGGTGCCACTATCTTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGACCAGTT
TCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGCCATGGAGCAGTTTGTG
CAGGTCATCATGGAAGCCTGGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAACTGGG
ACTTTGGCAGCAGTTTCTTCTTTGCAGGCACAGTTGCTACTACCATAGGATATGGGAACCTGGCACCCAG
CACAGAGGCAGGTCAAGTCTTGTGTCTTCTATGCCCTGTTGGGCATCCCGTTAACGTGATCTTCTCTC
AACCCACTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGTCCCAGGGCGT
CCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTCATCTTCCC
ACCCATGGTCTTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTCATCACTCTC
AGCACCATTGGCTTTGGGACTATGTTGTTGGCACAGACCCAGCAAGCATTATATCTCAGTGTATCGGA
GCCTGGCAGCCATCTGGATCCTCCTGGGCTGGCGTGGCTGGCGTGATCCTCCACTGGGCCCCCTGCT
TCTGCACAGATGCTGCCAGCTCTGGCTGCTCAGTCTGAGGCAAGGCTGTGGAGCCAAGGCGGCTCCAGGC
AGGAGACCCAGGAGAGGCTCTACAGCAGCAAGAGGAGTCCAAGTCACACCCAGGACTTCCCCATATCCA
AGAAAGGACTGGGAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224694 representing NM_032115
 Red=Cloning site Green=Tags(s)

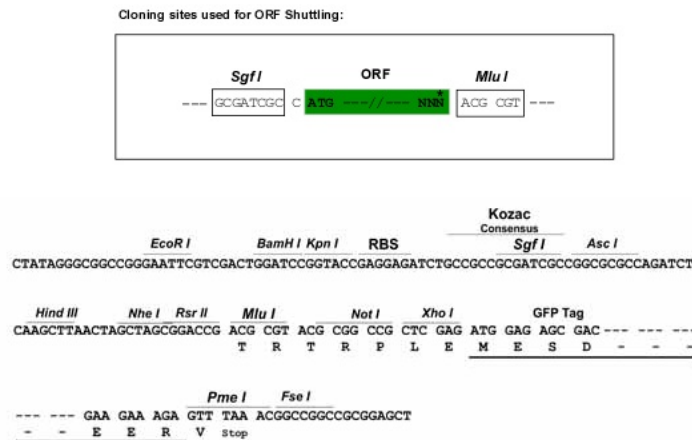
MPSAGLCSCWGRVLP LLLAYVCYLLLGATIFQLLERQAEASRDQFQLEKLRFLFENYTC LDQWAMEQFV
 QVIMEAWVKGVNPKGNSTNPSNWDGSSFFFA GTVVTITIGYGNLAPSTEAGQVFCV FYALLGIPLNVIFL
 NHLGTGLRAHLAAIERWEDRPRRSQVLQVLGLALFLTLGTLVILIFPPMVFSHVEGWSFSEGFYFAFITL
 STIGFGDYVVGTDP SKHYISVYRSLAAIWILLGLAWLALILPLG P L L L H R C C Q L W L L S L R Q G C G A K A A P G
 R R P R R G S T A A R G V Q V T P Q D F P I S K K G L G S

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2275_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032115

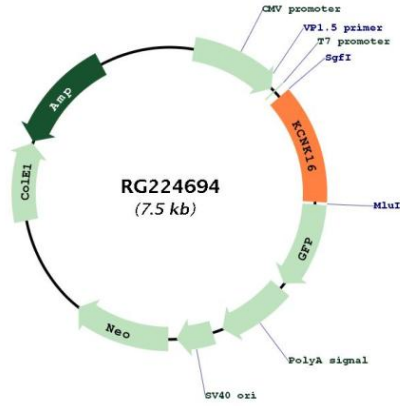
ORF Size: 927 bp

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_032115.2 , NP_115491.1
RefSeq Size:	1226 bp
RefSeq ORF:	930 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]

Product images:



Circular map for RG224694