

## Product datasheet for **RG225402**

### KCNK16 (NM\_001135106) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNK16 (NM\_001135106) 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:** >RG225402 representing NM\_001135106  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGTGGCCGGTGCTGCCCTGCTGCTGGCCTATGTCTGCT  
 ACCTGCTGCTCGGTGCCACTATCTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGGACCAGTT  
 TCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGCCATGGAGCAGTTTGTG  
 CAGGTCATCATGGAAGCCTGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAACTGGG  
 ACTTTGGCAGCAGTTTCTTTTGCAGGCACAGTCGTCCTACTACCATAGGATATGGGAACCTGGCACCCAG  
 CACAGAGGCAGGTCAGGTCCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATCTTCCTC  
 AACCACTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGTCCCAGGGCGT  
 CCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCTGGGGACGCTGGTCATTCTCATCTTCCC  
 ACCCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTCATCACTCTC  
 AGCACCATTGGCTTTGGGACTATGTTGTTGGCACAGACCCAGCAAGCATTATATCTCAGTGTATCGGA  
 GCCTGGCAGCCATCTGGATCCTCCTGGGCTGGCGTGGCTGGCGTGATCCTCCACTGGGCCCCCTGCT  
 TCTGCACAGATGCTGCCAGCTCTGGCTGCTCAGTAGGGGCTCGGCGTCAAGGATGGGGCAGCCTCTGAC  
 CCCAGTGGGCTCCCAGGCTCAGAAGATCCCCATCTCTGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225402 representing NM\_001135106  
 Red=Cloning site Green=Tags(s)

MPSAGLCSCWGGRVLP LLLAYVCYLLLGATIFQLLERQAEAQSRDQFQLEKLRFLFENYTC LDQWAMEQFV  
 QVIMEAWVKGVNPKGNSTNPSNWDGSSFFFA GTVVTITIGYGNLAPSTEAGQVFCVFYALLGIPLNVIFL  
 NHLGTGLRAHLAAIERWEDRPRRSQVLQVLGLALFLTLGTLVILIFPPMVFSHVEGWSFSEGFYFAFITL  
 STIGFGDYVVGTDP SKHYISVYRSLAAIWILLGLAWLALILPLG P L L L H R C C Q L W L L S R G L G V K D G A A S D  
 PSGLPRPQKIPISA

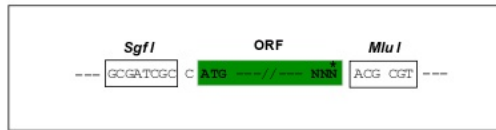
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2338\\_e02.zip](https://cdn.origene.com/chromatograms/ja2338_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001135106

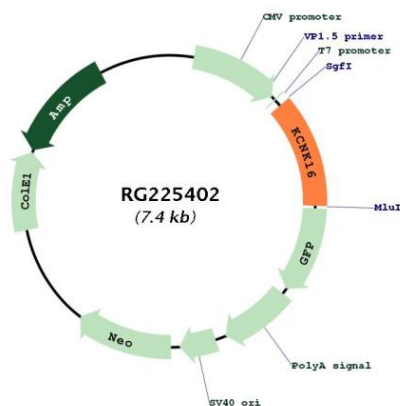
**ORF Size:** 882 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001135106.2</a></u>
<b>RefSeq Size:</b>	947 bp
<b>RefSeq ORF:</b>	885 bp
<b>Locus ID:</b>	83795
<b>UniProt ID:</b>	<u><a href="#">Q96T55</a></u>
<b>Cytogenetics:</b>	6p21.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	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 <sup>+</sup> 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 RG225402