

## Product datasheet for **SC305399**

### KCNK16 (NM\_032115) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_032115) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK16
Synonyms:	K2p16.1; TALK-1; TALK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032115, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCTGCTGCTGGCCTATGTCTGCT
ACCTGCTGCTCGGTGCCACTATCTTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGGACCAGTT
TCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGCCATGGAGCAGTTTGTG
CAGGTCATCATGGAAGCCTGGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAACTGGG
ACTTTGGCAGCAGTTTCTTCTTTGCAGGCACAGTCGCTACTACCATAGGATATGGGAACCTGGCACCCAG
CACAGAGGCAGGTCAGGTCCTTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTAACGTGATCTTCTCT
AACCACCTGGGCACAGGGCTGCGTGCCCATCTGGCCGCCATTGAAAGATGGGAGGACCGTCCCAGGCGCT
CCCAGGTACTGCAAGTCCTGGGCCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTCATCTTCCC
ACCCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTTCACTCTCT
AGCACCATTGGCTTTGGGACTATGTTGTTGGCACAGACCCAGCAAGCATTATATCTCAGTGTATCGGA
GCCTGGCAGCCATCTGGATCCTCCTGGGCCTGGCGTGGCTGGCGCTGATCCTCCACTGGGCCCCCTGCT
TCTGCACAGATGCTGCCAGCTCTGGCTGCTCAGTCTGAGGCAAGGCTGTGGAGCCAAGGCGGCTCCAGGC
AGGAGACCCAGGAGAGGCTCTACAGCAGCAAGAGGAGTCCAAGTCACACCCAGGACTTCCCATATCCA
AGAAAGGACTGGGAAGCTGA
```

Restriction Sites:	Please inquire
ACCN:	NM_032115



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**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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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<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]

Transcript Variant: This variant (2, also known as TALK-1a) contains an additional coding exon and uses a different acceptor splice site at the 3' terminal exon compared to transcript variant 1, resulting in a shorter isoform (2) with a distinct C-terminus compared to isoform 1.