

Product datasheet for **SC325726**

KCNK16 (NM_001135106) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_001135106) 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:	>SC325726 representing NM_001135106. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCTGCTGCTGGCCTATGTCTGC
TACCTGCTGCTCGGTGCCACTATCTCCAGCTGTAGAGAGGCAGGCGGAGGCTCAGTCCAGGGACCAG
TTTCAGTTGGAGAAGCTGCGCTTCTGGAGAACTACACCTGCCTGGACCAGTGGGCCATGGAGCAGTTT
GTGCAGGTCATCATGGAAGCCTGGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAAC
TGGGACTTTGGCAGCAGTTTCTTCTTTCAGGCACAGTCGTCCTACCATAGGATATGGAACTGGCA
CCCAGCACAGAGGCAGGTCAGGCTTCTGTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATC
TTCTCAACACCTGGGCACAGGCTGCGTGCCATCTGGCCGCAATTGAAAGATGGGAGGACCGTCCC
AGGCGCTCCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTC
ATCTTCCCACCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTC
ATCACTCTCAGCACCATTTGGCTTTGGGGACTATGTTGTTGGCACAGACCCAGCAAGCATTATATCTCA
GTGTATCGGAGCCTGGCAGCCATCTGGATCCTCCTGGGCTGGCGTGGCTGGCGCTGATCCTCCACTG
GGCCCCCTGCTTCTGCACAGATGCTGCCAGCTCTGGCTGCTCAGTAGGGGCTCGGCGTCAAGGATGGG
GCAGCCTTGACCCAGTGGGCTCCCAGGCCTCAGAAGATCCCCATCTCTGCATGA
ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001135106
Insert Size:	885 bp



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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 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_001135106.1](#)

RefSeq Size: 947 bp

RefSeq ORF: 885 bp

Locus ID: 83795

UniProt ID: [Q96T55](#)

Cytogenetics: 6p21.2

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

MW: 32.5 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]

Transcript Variant: This variant (3, also known as TALK-1b) contains an alternative 3' terminal exon compared to transcript variant 1, resulting in a shorter isoform (3) with a distinct C-terminus compared to isoform 1.