

Product datasheet for **SC325680**

KCNK16 (NM_001135107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK16 (NM_001135107) 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:	>SC325680 representing NM_001135107. Blue=Insert sequence Red=Cloning site Green=Tag(s)

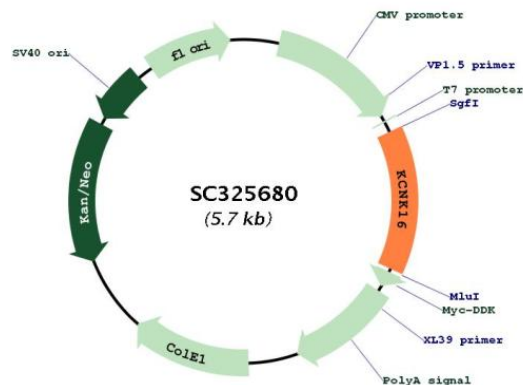
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
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ATGCCAGTGCTGGGCTCTGCAGCTGCTGGGGTGGCCGGGTGCTGCCCTGCTGCTGGCCTATGTCTGC
TACCTGCTGCTCGGTGCCACTATCTCCAGCTGCTAGAGAGGCAGGCGGAGGCTCAGTCCAGGGACCAG
TTTCAGTTGGAGAAGCTGCGCTTCTGGAGAATACACCTGCCTGGACCAGTGGGCCATGGAGCAGTTT
GTGCAGGTCATCATGGAAGCCTGGGTGAAAGGTGTGAACCCAAAGGCAACTCTACCAACCCAGCAAC
TGGGACTTTGGCAGCAGTTTCTTCTTTCAGGCACAGTCGTCCTACCATAGGATATGGGAACCTGGCA
CCCAGCACAGAGGCAGGTCAGGTCCTTCTGTCTTCTATGCCCTGTTGGGCATCCCGCTTAACGTGATC
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AGGCGCTCCCAGGTAAGTCAAGTCTGGGCTGGCTCTGTTCTGACCCTGGGGACGCTGGTCATTCTC
ATCTTCCCACCATGGTCTTCAGCCATGTGGAGGGCTGGAGCTTCAGCGAGGGCTTCTACTTTGCTTTC
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GCTCCAGGCAGGAGACCCAGGAGAGGCTCTACAGCAGCAAGAGGAGTCCAAGTCACACCCAGGACTTC
CCCATATCCAAGAAAGGACTGGGAAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001135107

Insert Size: 789 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001135107.1](#)

RefSeq Size: 1110 bp

RefSeq ORF: 789 bp

Locus ID: 83795

UniProt ID: [Q96T55](#)

Cytogenetics: 6p21.2

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

MW: 28.8 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 (4, also known as TALK-1d) uses a different acceptor splice site at the 3' terminal exon compared to transcript variant 1, resulting in a shorter isoform (4) with a distinct C-terminus compared to isoform 1.