

Product datasheet for **SC317688**

KCNK2 (NM_001017425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK2 (NM_001017425) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK2
Synonyms:	hTREK-1c; hTREK-1e; K2p2.1; TPKC1; TREK; TREK-1; TREK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317688 representing NM_001017425. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTTCCAGCGCCTCGCGGGAGAGACCCGGCTATAGAGCAGGAGTGGCGGCACCTGACTTGCTGGAT
CCTAAATCTGCCGCTCAGAACTCCAAACCGAGGCTCTCGTTTTCCACGAAACCCACAGTGCTTGCTTCC
CGGGTGGAGAGTGACACGACCATTAATGTTATGAAATGGAAGACGGTCTCCACGATATTCCTGGTGGTT
GTCCTCTATCTGATCATCGGAGCCACCGTGTCAAAGCATTGGAGCAGCCTCATGAGATTCACAGAGG
ACCACCATTGTGATCCAGAAGCAAACATTCATATCCCAACATTCCTGTGTCAATTCGACGGAGCTGGAT
GAACTCATT CAGCAAATAGTGGCAGCAAATAAATGCAGGGATTATACCGTTAGGAAACACCTCCAATCAA
ATCAGTCACTGGGATTTGGGAAGTTCCTTCTTTGCTGGCACTGTATTACAACCATAGGATTTGGA
AACATCTCACCACGCACAGAAGGCGCAAAATATTCTGTATCATCTATGCCTTACTGGGAATTCCTCTC
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GAAGATACGTTTATTAAGTGGAAATGTTAGTCAGACCAAGATTCGCATCATCTCAACAATCATATTTATA
CTATTTGGCTGTGTACTCTTTGTGGCTCTGCCTGCGATCATATTCAAACATAGAAGGCTGGAGTGCC
CTGGACGCCATTTATTTGTGGTTACTACTTAACAACATTGGATTTGGTGACTACGTTGCAGGTGGA
TCCGATATTGAATATCTGGACTTCTATAAGCCTGTCGTGTGGTTCTGGATCCTTTAGGGCTTGCTTAC
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CGACTGAGTGTGGAGATTTATGACAAGTTCCAGCGGGCCACCTCCATCAAGCGGAAGCTCTCGGCAGAA
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GAGAGGGATGTCTGCCTCCCTTACTGAAGACTGAGAGTATCTATCTGAATGGTTTGACGCCACACTGT
GCTGGTGAAGAGATTGCTGTGATTGAGAACATCAAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001017425
Insert Size:	1281 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:	<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:	<u>NM_001017425.2</u>
RefSeq Size:	3398 bp
RefSeq ORF:	1281 bp
Locus ID:	3776
UniProt ID:	<u>O95069</u>
Cytogenetics:	1q41
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	47.1 kDa
Gene Summary:	<p>This gene encodes one of the members of the two-pore-domain background potassium channel protein family. This type of potassium channel is formed by two homodimers that create a channel that leaks potassium out of the cell to control resting membrane potential. The channel can be opened, however, by certain anesthetics, membrane stretching, intracellular acidosis, and heat. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and beginning of the coding region compared to variant 1. The resulting isoform (c) is slightly shorter and has a distinct N-terminus compared to isoform a.</p>