

Product datasheet for **SC302049**

KCNK2 (NM_001017424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK2 (NM_001017424) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK2
Synonyms:	hTREK-1c; hTREK-1e; K2p2.1; TPKC1; TREK; TREK-1; TREK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001017424 edited
 ATGATGAACCCACGAGCAAAAAGGGATTCTACTTGCGGCACCTGACTTGCTGGATCCT
 AAATCTGCCGCTCAGAACTCAAACCCGAGGCTCTCGTTTTCCACGAAACCCACAGTGCTT
 GCTTCCCAGGTTGAGAGTGACACGACCATTAATGTTATGAAATGGAAGACGGTCTCCACG
 ATATTCCTGGTGGTGTCTCTATCTGATCATCGAGCCACCGTGTCAAAGCATTGGAG
 CAGCCTCATGAGATTTACAGAGGACCACCATTGTGATCCAGAAGCAAACATTATATCC
 CAACATTCCTGTGCAATTCGACGGAGCTGGATGAACTCATTAGCAAATAGTGGCAGCA
 ATAAATGCAGGGATTATACCGTTAGGAAACACCTCCAATCAAATCAGTCACTGGGATTTG
 GGAAGTTCCTTCTTTGCTGGCACTGTTATTACAACCATAGGATTTGGAAACATCTCA
 CCACGCACAGAAGCGGCAAAAATATTCTGTATCATCTATGCCTTACTGGGAATCCCCCTC
 TTTGGTTTTCTCTTGGCTGGAGTTGGAGATCAGCTAGGCACCATATTTGGAAAAGGAATT
 GCCAAAGTGAAGATACGTTTATTAAGTGAATGTTAGTCAGACCAAGATTTCGCATCATC
 TCAACAATCATATTTATACTATTTGGCTGTGACTCTTTGTGGCTCTGCCTGCGATCATA
 TTCAAACACATAGAAGGCTGGAGTGCCTGGACGCCATTTATTTGTGGTTATCACTCTA
 ACAACTATTGGATTTGGTACTACGTTGCAGGTGGATCCGATATTGAATATCTGGACTTC
 TATAAGCCTGTCGTGGTCTGGATCCTTGTAGGGCTTGCTTACTTTGCTGCTGTCTG
 AGCATGATTGGAGATTGGCTCCGAGTGATATCTAAAAGACAAAAGAAGAGGTGGGAGAG
 TTCAGAGCACACGCTGCTGAGTGGACAGCCAACGTCACAGCCGAATTCAAAGAAACCAGG
 AGGCGACTGAGTGTGGATTTATGACAAGTTCAGCGGGCCACCTCCATCAAGCGGAAG
 CTCTCGGCAGAACTGGCTGGAAACCAATCAGGAGCTGACTCCTTGTAGGAGGACCCCTG
 TCAGTGAACACCTGACCAGCGAGAGGGATGTCTTGCCTCCCTTACTGAAGACTGAGAGT
 ATCTATCTGAATGGTTTGACGCCACACTGTGCTGGTGAAGAGATTGCTGTGATTGAGAAC
 ATCAAATAG



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001017424 unedited TCACATATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGATGATGAACC CACGAGCAAAAAGGATTTCTACTTGGCGGCACCTGACTTGCTGGATCCTAAATCTGCCGC TCAGAACTCCAAACCGAGGCTCTCGTTTTCCACGAAACCCACAGTGCTTGCTTCCCGGGT GGAGAGTGACACGACCATTAATGTTATGAAATGGAAGACGGTCTCCACGATATTCCTGGT GGTGCTCTATCTGATCATCGGAGCCACCGTGTCAAAGCATTGGAGCAGCCTCATGA GATTTACAGAGGACCACCATTGTGATCCAGAAGCAAACATTCATATCCCAACATTCCTG TGCAATTCGACGAGCTGGATGAACTCATTAGCAAAATAGTGGCAGCAATAAATGCAGG GATTATACCGTTAGGAAACACCTCCAATCAAATCAGTCACTGGGATTTGGAAAGTTCCTT CTTCTTTGCTGGCACTGTATTACAACCATAGGATTTGGAAACATCTACCACGCACAGA AGGCGGCAAAAATATTCTGTATCATCTATGCCTTACTGGGAATTCCTCTTTGGTTTTCT CTTGGCTGGAGTTGGAGATCAGCTAGGCACCATATTTGGAAAAGGAATTGCCAAAGTGA AGATACGTTTATAAGTGAATGTTAGTCAGACCAAGATTCGCATCATCTCAACAATCAT ATTTATACTATTTGNCCTGTGTACCTCTTTGTGGCTCTGCCTGCGATCATATTCAAACA TAGAAAGCTGNAGTGCCCTGGACGCCATTATTTTTGTGGTATCACTCTAACACCTATTGG ATTTGGTGACTACGTTGCAGGTGGATCCGATATTGAATATCTGGGACTTCTTAAACCTGT CCTGGGGTCTTGACCTT
3' Read Nucleotide Sequence:	>Forward primer walk for NM_001017424 unedited GTAGACGCTCCAGTGAGATGGATCAAAGGTGTGGTTGGAATCGCTAGGCACCATAT TTGGAAAAGGAATTGCCAAAGTGAAGATACGTTTATAAGTGAATGTTAGTCAGACCA AGATTCGCATCATCTCAACAATCATATTTATACTATTTGGCTGTGACTCTTTGGGCTC TGCTGCGATCATATTCAAACACATAGAAGGCTGGAGTGCCTGGACGCCATTTATTTG TGTTATCACTCTAACAATATTGGATTTGGTGACTACGTTGCAGGTGGATCCGATATTG AATATCTGGACTTCTATAAGCCTGTCGTGTGGTCTGGATCCTTGTAGGGCTTGCTTACT TTGCTGCTGTCCTGAGCATGATTGGAGATTGGCTCCGAGTGATATCTAAAAGACAAAAG AAGAGGTGGGAGAGTTTCAGAGCACACGCTGCTGAGTGGACAGCCAACGTCACAGCCGAAT TCAAAGAAACCAGGAGGCGACTGAGTGTGGAGATTTATGACAAGTTCAGCGGGCCACCT CCATCAAGCGGAAGCTCTCGGCAGAACTGGCTGGAAACCAATCAGGAGCTGACTCCTT GTAGGAGGACCCTGTCAAGTGAACCACCTGACCAGCGAGAGGGATGCTTGCCTCCCTTAC TGAAGACTGAGAGTATCTATCTGAATGGTTTGACGCCACACTGTGCTGGTGAAGAGATTG CTGTGATTGAGAACATCAAATAGCCCTCTCTTTAAATAACCTTAGGCATAGCCATAGGTG AGGACTTCTATGCTCTTTATGACTGTTGCTGGTAGCATTTTTTAAATTGTGCATGAGC TCAAAGGGGGAACAAAATAGATACCCCATCATGGTCATCTATCATCAGAGATTTGGAAT TCTGAGCCAGCCCTTTCTTTCTGATGATGCTTGTGGAACCGGTTCCACTTCT
Restriction Sites:	Please inquire
ACCN:	NM_001017424
Insert Size:	3200 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001017424.1](#), [NP_001017424.1](#)

RefSeq Size: 3340 bp

RefSeq ORF: 1269 bp

Locus ID: 3776

UniProt ID: [O95069](#)

Cytogenetics: 1q41

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

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longest isoform (a).