

Product datasheet for **SC313409**

KCNK2 (AF004711) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK2 (AF004711) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK2
Synonyms:	hTREK-1c; hTREK-1e; K2p2.1; TPKC1; TREK; TREK-1; TREK1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AF004711, the custom clone sequence may differ by one or more nucleotides ATGCTTCCCAGCGCCTCGCGGGAGAGACCCGGCTATAGAGCAGGAGTGGCGGCACCTGAC TTGCTGGATCCTAAATCTGCCGCTCAGAACTCCAAACCGAGGCTCTATTTTCCACGAAA CCCACAGTGCTTGCTTCCCAGGTGGAGAGTGACACGACCATTAATGTTATGAAATGGAAG ACGGTCTCCACGATATTCCTGGTGGTGTCTCTATCTGATCATCGGAGCCACCGTGTC AAAGCATTGGAGCAGCCTCATGAGATTTACAGAGGACCACCATTGTGATCCAGAAGCAA ACATTCATATCCAACATTCCTGTGTCAATTCGACGGAGCTGGATGAACTCATTAGCAA ATAGTGGCAGCAATAAATGCAGGGATTATACCGTTAGGAAACACCTCCAATCAAATCAGT CACTGGGATTTGGGAAGTTCCTTCTTTGCTGGCACTGTTATTACAACCATAGGATTT GGAAACATCTCACCACGCACAGAAGCGGCAAAATATTCTGTATCATCTATGCCTTACTG GGAATCCCCTCTTTGGTTTTCTTTGGCTGGAGTTGGAGATCAGCTAGGCACCATATTT GGAAAAGGAATTGCCAAAGTGAAGATACGTTTATTAAGTGAATGTTAGTCAGACCAAG ATTCGCATCATCTCAACAATCATATTTATACTATTTGGCTGTGTACTCTTTGTGGCTCTG CCTGCGATCATATTCAAACACATAGAAGGCTGGAGTGCCTGGACGCCATTTATTTTGTG GTTATCACTCTAACAACATTTGGATTTGGTGACTACGTTGCAGGTGGATCCGATATTGAA TATCTGGACTTCTATAAGCCTGTCGTGTGGTTCTGGATCCTNGTAGGGCTTGCTTACTTT GCTGCTGCTGAGCATGATTGGGAGATTGGTCCGAGTGATATCTAAAAAGACAAAAGAA GAGGTGGGAGAGTTCAGAGCACACGCTGCTGAGTGGACAGCCAACGTCACAGCCGAATTC AAAGAAACCAGGAGGCGACTGAGTGTGGAGATTTATGACAAGTTCAGCGGGCCACCTCC ATCAAGCGGAAGCTCTCGGCAGAACTGGCTGGAACCACAATCAGGAGCTGACTCCTTGT AGGAGGACCCTGTCAGTGAACCACCTGACCAGCGAGAGGGATGTCTTGCCTCCCTTACTG AAGACTGAGAGTATCTATCTGAATGGTTTGGCGCCACACTGTGCTGGTGAAGAGATTGCT GTGATTGAGAACATCAAA
Restriction Sites:	Please inquire
ACCN:	AF004711



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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>AF004711.1</u> , <u>AAD01203.1</u>
RefSeq Size:	2106 bp
RefSeq ORF:	2106 bp
Locus ID:	3776
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]