

## Product datasheet for **SC102536**

### **KCNK2 (NM\_014217) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNK2 (NM\_014217) 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:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_014217 edited  
ATGGCGGCACCTGACTTGCTGGATCCTAAATCTGCCGCTCAGAACTCCAAACCGAGGCTC  
TCGTTTTCCACGAAACCCACAGTGTCTTCCCGGGTGGAGAGTGACACGACCATTAAT  
GTTATGAAATGGAAGACGGTCTCCACGATATTCCTGGTGGTTGTCTCTATCTGATCATC  
GGAGCCACCGTGTCAAAGCATTGGAGCAGCCTCATGAGATTTACAGAGGACCACCATT  
GTGATCCAGAAGCAAACATTCATATCCCAACATTCCTGTGTCAATTCGACGGAGCTGGAT  
GAACTCATTAGCAAAATAGTGGCAGCAATAAATGCAGGGATTATACCGTTAGGAAACACC  
TCCAATCAAATCAGTCACTGGGATTTGGGAAGTTCCTTCTTTGCTGGCACTGTTATT  
ACAACCATAGGATTTGAAAACATCTCACCACGCACAGAAGGCGGCAAAATATTCTGTATC  
ATCTATGCCTTACTGGGAATCCCTCTTTGGTTTTCTCTGGCTGGAGTTGGAGATCAG  
CTAGGCACCATAATTTGAAAAGGAATTGCCAAAGTGAAGATACGTTTATTAAGTGAAT  
GTTAGTCAGACCAAGATTCGCATCATCTCAACAATCATATTTATACTATTGGCTGTGTA  
CTCTTTGTGGCTCTGCCCTGCGATCATATTCAAACACATAGAAGGCTGGAGTGCCCTGGAC  
GCCATTTATTTGTGGTTATCACTCTAACAACATTTGGATTTGGTGACTACGTTGCAGGT  
GGATCCGATATTGAATATCTGGACTTCTATAAGCCTGTCGTGTGGTTCTGGATCCTTGTA  
GGGCTTGCTTACTTTGCTGTCTGCTGAGCATGATTGGAGATTGGCTCCGAGTGATATCT  
AAAAAGACAAAAGAAGAGGTGGGAGAGTTCAGAGCACACGCTGCTGAGTGGACAGCCAAC  
GTCACAGCCGAATTCAAAGAAACCAGGAGGCGACTGAGTGTGGAGATTTATGACAAGTTC  
CAGCGGGCCACCTCCATCAAGCGGAAGCTCTCGGCAGAAGTGGCTGGAACCACAATCAG  
GAGCTGACTCCTTGTAGGAGGACCTGTAGTGAACCACCTGACCAGCGAGAGGGATGTC  
TTGCCCTCCTTACTGAAGACTGAGAGTATCTATCTGAATGGTTTGACGCCACACTGTGCT  
GGTGAAGAGATTGCTGTGATTGAGAACATCAAATAG



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014217 unedited  
 AATAGGTATACGACTTACTATAGGGCGGCCGCGCATTTCGGCACGAGGGTCCAGCCCCGCT  
 CTCCCCACCTTGTAAAACAAAGCCGGGGAAAAATGCCTGCCCGTGCAGCTCGGAGCGCGCA  
 GCCCGTCTCTGAATAAGAATGGCGGCACCTGACTTGCTGGATCCTAAATCTGCCGCTCAG  
 AACTCAAACCGAGGCTCTCGTTTTCCACGAAACCCACAGTGCTTGCTTCCCGGGTGGAG  
 AGTGACACGACCATTAATGTTATGAAATGGAAGACGGTCTCCACGATATTCCTGGTGTT  
 GTCCCTATCTGATCATCGGAGCCACCGTGTCAAAGCATTGGAGCAGCCTCATGAGATT  
 TCACAGAGGACCACCATTGTGATCCAGAAGCAAACATTATATCCCAACATTCCTGTGTC  
 AATTCGACGGAGCTGGATGAACTCATTAGCAAAATAGTGGCAGCAATAAATGCAGGGATT  
 ATACCGTTAGGAAACACCTCCAATCAAATCAGTCACTGGGATTTGGGAAGTTCCTTCTTC  
 TTTGCTGGCACTGTTATTACAACCATAGGATTTGGAAACATCTCACCACGCACAGAAGGC  
 GGNCAAATATTCTGTATCATCTATGCCTTACTGGGAATCCCCTCTTTGGTTNTCTCTTG  
 GCTGGAGTTGGAGATCAGCTANGCACCATATTTGAAAAGGAAATGCCAAGTGGAGAT  
 ACGTTTATTAAGTGAATGTTAGTCAGACCAAGATTTCGCATCATCTCAACAAATCATATT  
 AACCTATNTNGCTGTGTACTCTTTGTGCTCTGCCTGCGATCATATTCAAACACATGAANG  
 CCTGAGTGCCCTGNACGCCATTATTTTGTGGTTACTACTTAACAACTATTGGATTNGT  
 GACTACCTTGCCAGTGGATCCGAATTGAAAATCTGACTTTATAACCCTGTCCGTGGTTCT  
 GAAACCTGTAAGCCTGCTTACTTGTGCGTNCAGACAGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014217 unedited  
 TAGCTTGGCCGCGGCCGAATCTANGATCNGNCTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCATAAAACCAAACCTTTTTTTTGG  
 CAAAACAATCAAAGTTTATCCCGGGCCATTCCCCATTAATAATTTTCGGAACAGTTTT  
 TTGGGGAAAGGGGGGACCTTTTTTTTTTAAAAACCCCGCTTTTTAAAAATTTGGGGGG  
 ATTTTTTTAACTTTATAAAAGGCCTTTTAACAAATTAATGGAATTTTCCCTTTTTAGC  
 TAAATTAATAATTTGGGAAAAAACCGCAATAAATTAATTTGGCTTTTTTAAAAAATG  
 GGGTTTTTTTTCAAACCTAATCTGAAGGCCCTTTTTTAAAAAACAGTCCCCCCCC  
 CCCCCAAAAAGGAAAAAACCCGTTGGCAATTTTTTTAGGGAAATTTTTTTTTTTC  
 GGCTTTTTAAAAATTTTTTTTTTCCCGGGGCCCCCGACCTAAGTTTGAAAAAAGG  
 AAGGGGAGCAATTTCCGGGGGGCCTTTACGGAATTTTTTTTGAACCTGGGCCCTCCC  
 AAGAATCTCCGGTTTAAAAATTAACCAAAAAGAAATTCGCCCCTTTTATGGGAAAA  
 AACCCCGCACACCCCAAAATTTAAATGGGGCTAAACAACCTTTTTTCTAAGGCCAAAA  
 AAGAATTATGCCCGCAATTTGGTTTTTTCCCTGGGGCAGGCCAGGGGCCCCCTTTA  
 ATTTTGCCTCCAGCCAGGTACACCTCCCAAAGTTCCCAACAAAGCCTGGCCTGGGC  
 CTCGCCTACCACGGGCCCTTCTTTGGGAAAGGCCCCCGAAAAAATTTATCCT  
 TTTAACCAAAAACATAAAGCGGGNAACCGTTATACAACCTGAACCTTTTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014217

**Insert Size:**

3460 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014217.2</a> , <a href="#">NP_055032.1</a>
<b>RefSeq Size:</b>	3198 bp
<b>RefSeq ORF:</b>	1236 bp
<b>Locus ID:</b>	3776
<b>UniProt ID:</b>	<a href="#">O95069</a>
<b>Cytogenetics:</b>	1q41
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR and beginning of the open reading frame compared to variant 1. The resulting isoform (b) is slightly shorter and has a distinct N-terminus compared to isoform a.</p>