

## Product datasheet for **SC118713**

### KCNK3 (NM\_002246) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK3 (NM_002246) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK3
Synonyms:	K2p3.1; OAT1; PPH4; TASK; TASK-1; TASK1; TBAK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002246 edited  
 GCGGAGCGCAGCCATGCCCCAGGCCGCTCCGGGGCAGCAGCAGCGCGCGCCGGGGCCGA  
 GGCGCGGGCCGGGGCGCCGGGGGGCCGGCGCGCCGGCGGGACGATGAAGCGGCAG  
 AACGTGCGCACGCTGGCGCTCATCGTGTGCACCTTCACCTACCTGCTGGTGGGCGCCGCG  
 GTCTTCGACGCGCTGGAGTCGGAGCCGAGCTGATCGAGCGGCAGCGGCTGGAGCTGCGG  
 CAGCAGGAGCTGCGGGCGCGCTACAACCTCAGCCAGGGCGGTACGAGGAGCTGGAGCGC  
 GTCGTGCTGCGCCTCAAGCCGACAAGCCGGCGTGCAGTGGCGCTTCGCCGGCTCCTTC  
 TACTTCGCCATCACCGTCATCACCACCTCGGCTACGGGCACGCGGCACCCAGCACGGAT  
 GGCGGCAAGGTGTTCTGCATGTTCTACGCGCTGCTGGGCATCCCCTCACGCTCGTCATG  
 TTCCAGAGCCTGGGCGAGCGCATCAACACCTTGGTGAGGTACCTGCTGCACCGCGCCAAG  
 AAGGGGTGGGCATGCGGCGCGCGACGTGCCATGGCCAACATGGTGCTCATCGGCTTC  
 TTCTCGTGATCAGCACGCTGTGCATCGGCGCCGCGCCTTCTCCCACTACGAGCACTGG  
 ACCTTCTTCCAGGCCTACTACTGCTTCATCACCTCACCCATCGGCTTCGGCGAC  
 TACGTGGCGCTGCAGAAGGACCAGGCCCTGCAGACGCAGCCGAGTACGTGGCCTTCAGC  
 TTCGTCTACATCCTTACGGGCTCACGGTCATCGGCGCTTCCTCAACCTCGTGGTGCTG  
 CGCTTCATGACCATGAACGCCGAGGACGAGAAGCGCGACGCCGAGCACCGCGCGCTGCTC  
 ACGCGAACCGGCAGGCGGGCGGGCGGAGGGGGTGGCAGCGCGCACTACGGACACC  
 GCCTCATCCACGGCGGCAGCGGGCGGGCGGCTTCGCAACGTCTACGCGGAGGTGCTG  
 CACTTCCAGTCCATGTGCTCGTGCCTGTGTTACAAGAGCCGCGAGAAGCTGCAGTACTCC  
 ATCCCCATGATCATCCCCGCGGGACCTCTCCACGTCCGACACGTGCGTGGAGCAGAGCCAC  
 TCGTCCGCGGGAGGGGGCGGCCGCTACAGCGACACGCCCTCGCGACGCTGCCTGTGCAGC  
 GGGGCGCCACGCTCCGCCATCAGCTCGGTGTCCACGGGTGTCACAGCCTGTCCACCTTC  
 CGCGGCCCTCATGAAGCGCAGGAGCTCCGTGTGACTGCCCCGAGGGACCTGGAGCACCTGG  
 GGGCGCGGGCGGGGACCCTGCTGGGAGGCCAGGAGACTGCCCTGCTGCCTTCTGCC  
 AGTGGGACCCCGACAACATCCCTCACCCTCTCCCCAGCACCCCATCTCCGACTGTG  
 CCTGCTTGACACGCGGCA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002246 unedited</p> <pre>TCAGCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCGGGTGCCCGG CGCGGAGAGCGGGCAGCGCAGCCATGCCCCAGGCCGCCTCCGGGGCAGCAGCAGCGGGCG CCGGGGCCGAGGCGGGCCGGGGGGCGGGGGGGCCGGCGGGCCCGGGCGGGACGAT GAAGCGGCAGAACGTGCGCACGCTGGCGCTCATCGTGTGCACCTTCACCTACCTGCTGGT GGGCGCCGCGGTCTTCGACGCGCTGGAGTCGGAGCCCGAGCTGATCGAGCGGCAGCGGT GGAGCTGCGGCAGCAGGAGCTGCGGGCGCGCTACAACCTCAGCCAGGGCGGCTACGAGGA GCTGGAGCGCGTCGTGCTGCGCCTCAAGCCGCACAAGGCCGGCGTGCAGTGGCGCTTCGC CGGCTCCTTCTACTTCGCCATCACCGTCATCACCACCATCGGCTACGGGCACGCGGCACC CAGCACGGATGGCGGCAAGGTGTTCTGCATGTTCTACGCGCTGCTGGGCATCCCGCTCAC GCTCGTCATGTTCCAGAGCCTGGGCGAGCGCATCAACACCTTGGTGAGGTACCTGCTGCA CCGCGCCAAGAAGGGGTGGGCATGCGGCGCGCCGACGTGCCATGGCCAACATGGTGCT CATCGGCTTCTTCTCGTGCATCAGCACGCTGTGCATCGGCGCCGCCGCTTCTCCACTA CGAGACTGGACCTTCTTNCAGGCCTACTACTGCTTCATCACCTCACCACCATCGG CTTCNGCGACTACGTGGCGCTGCAGAAGGACCAGGCCCTGCAGACGCAGCCGAGTACGT GGCCTTACAGTTCGTCTACTCCTTACGGGCCTCACGGTCATCGGGCCTTNNCTCACCTC GTGGTGCTGCGGCTTATGACCATGAACCCGAGGACGAAAGCGCGACGCCAGCAGCGG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002246 unedited</p> <pre>GAGTTCCTGCCCAGCCACCCAGGCTGGNATACAGTGGTGAANTCAGGGCTCACTACAGC CTCGACCTCCCAGGCTCAAACAATCCTCCACCTCAGCCTCCAAGTCGTTGGGACTCCC AGGCACGTGCCACCACACCTGGTTAATTTTTTATTTTTTGTAGAGATGGGGTCTCACTAT GTCACCTAGGCTGGTCTCGAATTCCTGGGCTCAAGCAATCCTCCAACCTCAGCCTCCAAA AGTGTTGGGAATACAGGTGTGAGCCACTGCACCCAGCCCCACCCCTTTGCCTTTTGCTC TCTGGTCACTTCACTGTCCAGGCTCAGTATTCTCATCTGTAATAATGGGAGTGAGAACT CCTGCCCTGATGACCTAAGTAGGGTTTTGTGAGACTCAAAGGAATCAGTGGCCAGCATAG AGTTTTCAGAGGCTAAAAATCACTCGACAAATTAAGAGTGGGTAAATATCAGCAATTAT GGTGAGTCTGAAGTCTTCTGTTCCAGATTCTAAGGGCAGTGTCTGGAAGGCTGAAGTCTC ACCTGCTATGAGAATGTGGCTGGAGGCCAGTTAGCTTGAACCTCCAGTGCACCATTTCTG CAGACTGACAGGCCGCTGCCTCCTGCCTCCAGCTCGCCCCTCCTGCTGCCTGCCTGTCC CTCCTTCTTTCTGCTCTGCTTTCTGGGACCAGCTTAAAGGACTGCTGGGTTTCCACTTTC TCCATAACTGCAAAGCCATGCAAAAACACACGAAGGGAAGTTTGGGAGACACAGCTGGGG ATGAGGAAGGGGAGTGGGGCTGATTAGGGGTGACCTGGAACATAACACCCTGGCTTTTG GAACCCAGG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002246
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_002246.1](#), [NP\\_002237.1](#)

**RefSeq Size:** 2590 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 3777

**UniProt ID:** [O14649](#)

**Cytogenetics:** 2p23.3

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

**Gene Summary:** This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene. [provided by RefSeq, Aug 2008]