

Product datasheet for **SC321246**

KCNK13 (NM_022054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK13 (NM_022054) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK13
Synonyms:	K2p13.1; THIK-1; THIK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_022054.2
 CGGGAACTCGAGTTGGCTCGAGCTTGCCCTGAAGACGCGCCACGCCCTCCCCTATCT
 GAGCCGGACAGGGAGCCGGGGTGGAAACTGCGCCCGCATCCCAGCGCAAAGCAGACGTGA
 ACTCTGCGCCCGTTCCCGGGACCTTCAGCGTTAAGGAGAACTCCGAGGAGAGCAGGGGG
 AGTGGAGGGGAACGGCGGCGACAAGCGGATTTGAAACTAGGAGTCAAGGAGGACGTGGG
 GAGCTGGCGCCACAGGAGCTACCGAGGCGGCGGGGGAGCCTCGCGGCTGCGGGAG
 AGCCCGCGGTGTCATGGCGAGCCGGCGGTGGGGCGCCCGGGAGCTGGCTGAGCGCCGGG
 CCCTTATTTCCCGGGGTGTGGCGGAGACTCCGCGACGCCCGGTGCCGTGGGCCTGGGG
 GCTGCCCCCGGGGGCCCGCCATGGCTGGCCGGGTTTTCAGCTGGGGCCCGGGCCACCTG
 AACGAGGACAACGCGCGCTTTCTGCTGCTGGCCGCGCTCATCGTCTCTACCTGCTGGGC
 GCGCGCGCTTCTCCGCGCTGGAGCTGGCGCACGAGCGCCAGGCCAAGCAGCGCTGG
 GAGGAGCGCTGGCCAATTCAGCCGCGCCACAACCTGAGCCGCGACGAGCTGCGCGGC
 TTCTCCGCCACTACGAGGAGGCCACTCGGGCCGGCATCCGCGTGGACAACGTCCGCCC
 CGCTGGGACTTCACCGCGCCTTCTACTTCGTGGGACCGTTCGTTCCACCATAGGGTTT
 GGGATGACAACCTCGGCGACAGTAGGAGAAAAATCTTTCTGATCTTTACGGCCTTGTT
 GGGTGTCCAGCACCATCTTGTCTTCAACCTTCTCTGGAGCGCTGATCACCATCATC
 GCCTACATCATGAAGTCGTGCCACCAGCGGCAGCTCCGGAGACGAGGGGCCCTGCCCCAG
 GAGAGCCTGAAGGATGCGGGGACGTGTGAGGTGGACAGCCTGGCCGGCTGGAAGCCCTCC
 GTGTAACGTCATGCTGATCCTATGCACAGCCTCCATCCTCATCTTTGCTGCGCCTCA
 GCCATGTACACCCCAATTGAAGGCTGGAGCTACTTTGACTCACTACTTCTGTTTTGTG
 GCTTTGAGCACCATTGGCTTTGGGGACCTGGTACGAGCCAGAACGCCCACTATGAGAGC
 CAAGGCCTCTATCGCTTTGCCAACTTCGTCTTCATCCTCATGGGTGTCTGCTGCATCTAC
 TCCTTGTCAATGTCATCTCTATCCTCATCAAACAGTCTTGAAGTGGATCCTGAGGAAA
 ATGGACAGCGGGTGTCCCGCAATGCCAGAGAGGACTTTGCGATCACGCAGGAACGTG
 GTGATGCCAGGCAGCGTCCGGAACCGCTGCAACATCTCCATAGAGACAGACGGGGTGGCA
 GAGAGTGACACGGACGGGCGCGCTCTCAGGGGAGATGATCTCCATGAAGGACTTGCTG
 GCAGCCAACAAGGCCTCGTTGGCCATCCTGCAGAAGCAACTGTCTGAGATGGCCAACGGC
 TGCCCCCACCAGACCAGCACACTGGCCCGGACAATGAATTCAGGGGGGGTGGGAGCC
 TTTGCAATCATGAACAACAGGTTGGCAGAGACCAGTGGGACAGGTAGAAGCCAGGAATG
 GATGCTGGGCAGAGGCCAGAGTAGAATGGAGGATGATTGCCGCCAGGGGACGAGCTCAG
 CCCTGCGCCTTGCTCTGTTCTTCTGGGAGCTGTTCCCGGAGCCTCCGCAAGCATCTT
 TAGAAATCTGATCTCGGCTCCAACCAACAGCCACCTTCCAGGGATGGGGGCCTGAAGCC
 TCGATGCTTGTCTCCTGATCCTTATTCTTTAAGTCTAAATTCAGTCTTTTCAAAACAAAT
 CACAAAAGCAGCATTAGACATTGCCTTGTTCATTAATCTTGTTCAGAGCTTTAGCTGC
 CTGAGGAGATAGGTTTTCTTAAGCCTTGATTTCTGAAGCTCTCTCTGTTTCTTATTTG
 GGAACAAAAATGCGAAGACTCATCTTTCCCTAGAACTCTGAATGGATGAATTTTTAAAA
 GTGGGGAGAATGTTTGGGGATGTGTCTGGGCTTTCTTTTGGCAGGCTTCCTTCAAAGCA
 TACCTGCCAATGGTGTCTGCATAGGAAAAATGTCTGTTGACTCTTTATACCTGTTTCTG
 TTTTTGTTGCCCTTTCTTTTTATTTTTAAGGCCTTAATGCCTGGCTGTGGCCTGTG
 AGACCTCAATGTAATAAGAAAAATTAATTCAGCTTCAGGCCTTTAAACTGCAGCAAGATG
 GTGGTGTAGGGGTGTGGACAGGGAGAGACTCACTTTTGTAACTAAAGAACATAGCTTAA
 CTTTTCCCTTTGAATGGTCACACAGACCATTTTCAATTTTACCAGGGCTTGGGACCCAA
 TGCAAAGATGACTATTTAATAAAAATGAAAAATTTAATAAACTCCTATTTTATTAAC
 AA
 AAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_022054

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_022054.2</u> , <u>NP_071337.2</u>
RefSeq Size:	2517 bp
RefSeq ORF:	1227 bp
Locus ID:	56659
UniProt ID:	<u>Q9HB14</u>
Cytogenetics:	14q32.11
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a potassium channel containing two pore-forming domains. This protein is an open channel that can be stimulated by arachidonic acid and inhibited by the anesthetic halothane. [provided by RefSeq, Jul 2013]