

Product datasheet for **SC309650**

KCNK4 (NM_033310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK4 (NM_033310) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNK4
Synonyms:	FHEIG; K2p4.1; TRAAK; TRAAK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_033310 edited
CACGCTAGTGTCCACACAGTGTGCGTGGGCTCTGGGTGCCCTGGCGCGCCGGCAGCC
CATGGGGGCGGGGATGCCGGGGCGTCTGCGGAGAGTGCAGTGACGACAGCTCCCCAGGA
GCCCCCGCCGGCCCTCCAGGCGGGCAGTGGAGCTGGCCCGGCGCCTGGGCGGCCAT
GCGCAGCACCAGCTCCTGGCCCTGCTGGCGTGGTCTTGCTTTACTTGGTGTCTGGTGC
CCTGGTGTCCGGGCCCTGGAGCAGCCCCACGAGCAGCAGGCCAGAGGGAGCTGGGGGA
GGTCCGAGAGAAGTTCCCTGAGGGCCCATCCGTGTGTGAGCGACCAGGAGCTGGGCCTCT
CATCAAGGAGGTGGCTGATGCCCTGGGAGGGGTGCGGACCCAGAAACCAACTCGACCAG
CAACAGCAGCCTCAGCCTGGGACCTGGGACGCGCTTCTTTTTCTCAGGGACCATCAT
CACCACCATCGGCTATGGCAATGTGGCCCTGCGCACAGATGCCGGGCGCCTCTTCTGCAT
CTTTTATGCGCTGGTGGGATTCCGCTGTTTGGGATCCTACTGGCAGGGTGGGGACCG
GCTGGGCTCCTCCCTGCGCCATGGCATCGGTACATTGAAGCCATCTTCTGAAGTGGA
CGTGCCACCGGAGCTAGTAAGAGTGTGTGCGGATGCTTTTCTGCTGATCGGCTGCCT
GCTCTTTGCTCCTACGCCACGTTCTGTGTTCTGCTATATGGAGGACTGGAGCAAGCTGGA
GGCCATCTACTTTGTCATAGTGACGCTTACCACCGTGGGCTTTGGCGACTATGTGGCCGG
CGCGGACCCAGGAGGACTCCCCGGCCTATCAGCCGCTGGTGTGGTTCTGGATCCTGCT
CGGCCTGGCTTACTTCGCCTCAGTGCTCACCACCATCGGGAAGTGGTGCAGTAGTGTGTC
CCGCCGCACTCGGGCAGAGATGGGCGGCCTCACGGCTCAGGCTGCCAGCTGGACTGGCAC
AGTGACAGCGCGCTGACCCAGCGAGCCGGGCCCGCCGCCCGCCGGAGAAGGAGCA
GCCACTGCTGCCTCCACCGCCCTGTCCAGCGCAGCCGCTGGGCAGGCCCGATCCCTTC
GCCCCCGAGAAGGCTCAGCCGCCTTCCCGCCACGGCCTCGGCCCTGGATTATCCAG
CGAGAACCTGGCTTTCATCGACGAGTCTCGGATACGACAGCGAGCGCGGCTGCCCGCT
CGCCCGCGCGGAGAGGTGCGCCGCCCAAAATCCCCCAGGAAGCCCGTGGCGCCCG
CGCCCCCGGGCGTCCCCGAGACAAAGGCGTGCCGGTGTAGGGGCAGGATCCCTGGCCGG
CCTCTCAAGGGCTTCGTTTCTGCTCTCCCGGCATGCCTGGCTTGTGTTGACCAAAGACC
CTCTTCCACGAGACTGAAGTCTGGGGAGGAGGCTACAGTTGCCTCTCCGCCCTCCTCCCT
GGCCCCGGCCCTTCCCTCACTTCCATCCATCTCTAGACCCCCCAAGGCTTTCTGTGTCG
CTGCCCGGGCGGGTGTATCCCTCACAGCACCTCACGACTGTGCCTCAAAGCCTGCATCA
ATAAATGAAAACGGTCTGCACCCTGCGGGCGTGACGCTCCCGGAAAAAAAAAAAAAAAA
AAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_033310 unedited
GGTTCAAATTTTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACCAGCAGCT
AGTGTCCACACAGTGTGCGTGGGCTCTGGGTGCCCTGGCGCGCCGGCACGCCATGGG
GGCCGGGATGCCGGGGCGTCTGCGGAGAGTGCAGTGACGACAGCTCCCCAGGAGCCCC
CGCCCCGGCCCTCCAGGCGGGCAGTGGAGCTGGCCCGGCGCCTGGGCGGCCATGCGCAG
CACCAGCTCCTGGCCCTGCTGGCGTGGTCTTGCTTTACTTGGTGTCTGGTGCCTGGT
GTTCCGGGCCCTGGAGCAGCCCCACGAGCAGCAGGCCAGAGGGAGCTGGGGAGTCCG
AGAGAAGTTCCTGAGGGCCATCCGTGTGTGAGCGACCAGGAGCTGGGCCTCCTCATCAA
GGAGGTGGCTGATGCCCTGGGAGGGGTGCGGACCCAGAAACCAACTCGACCAGCAACAG
CAGCCACTCAGCCTGGGACCTGGGACGCGCCTTCTTTTTCTCAGGGACCATCATACCAC
CATCGGCTATGGCAATGTGGCCCTGCGCACAGATGCCGGGCGCCTCTTCTGCATCTTTA
TGCGCTGGTGGGATTCCGCTGTTTGGGATCCTACTGGCAGGGTGGGGACCGGCTGGG
CTCCTCCCTGCGCCATGGCATCGGTACATTGAAGCCATCTTCTTGAAGTGGCACGTGCC
ACCGGAGCTAGTAAGAGTGTGTGCGGATGCTTTTCTGCTGATCGGCTGCCTGCTCTT
TGTCTCACGCCACGTTCTGTGTTCTGCTATATGGAGGACTGGAGNNCAGCTGGAGCCAT
CTACTTTGTCATAGTGACGCTTACCACCGTGGGCTTTGGCGACTATGTGGCCGGCGGG
ACCCAGCAGGACTCCCCGCTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_033310 unedited TCCAGGCCAGGATAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGG AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTGTTTTTTTTTCCGGG AGCGTCACGCCCGCAGCGGTGCAGACCGTTTTTCATTTATTGATGCAGGCTTTGAGGCACA GTCGTGAGGTGCTGTGAGGGATACACCCGCCCGGGCAGCGACACAGAAAGCCTTGGGGG GGTCTAGAGATGGATGGAAGTGAGGGAAGGGCCGGGCCAGGGAGGAGCGGAGAGGCAA CTGTAGCCTCCTCCCGACTTCAGTCTCGTGGAAGAGGGCTCTTTGGTCAAACAAGCC AGGCATGCCGGGAGAGCAGAAACGAAGCCCTTGAGAGGCCCGCCAGGGATCCTGCCCC TACACCGGCACGCCTTTGTCTCGGGGACGCCCGGGCCCGGGGCCGACGGGCTTCTG GGGGGATTTGGCGCGCGACCTCTCGGCGCGGGGCAGCGGCAGCCGCGCTCGCTC TGCGTATCCGAGGACTCGTCGATGAAGGCCAGGTTCTCGCTGGGATAATCCAGGGCCGAG GCCGTGGCGGGGAAGCGGCTGAGCCTTCTCGGGGGCGAAGGGGATCGGGGCTGCC AGCGGCTGCGCTGGACAGGGCGGTGGAGGCAGCAGTGGCTGCTCCTTTCTCCGCGCGGG GCGGGCGGCCCGGCTCGCTGGGTACGCGCGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_033310
Insert Size:	1700 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:	<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_033310.1, NP_201567.1</u>
RefSeq Size:	1702 bp
RefSeq ORF:	1182 bp
Locus ID:	50801
UniProt ID:	<u>Q9NYG8</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane

Gene Summary:

This gene encodes a member of the TWIK-related arachidonic acid-stimulated two pore potassium channel subfamily. The encoded protein homodimerizes and functions as an outwardly rectifying channel. This channel is regulated by polyunsaturated fatty acids, temperature and mechanical deformation of the lipid membrane. This protein is expressed primarily in neural tissues and may be involved in regulating the noxious input threshold in dorsal root ganglia neurons. Alternate splicing results in multiple transcript variants. Naturally occurring read-through transcripts also exist between this gene and the downstream testis expressed 40 (TEX40) gene, as represented in GeneID: 106780802. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (2) encodes the functional protein.