

Product datasheet for **SC124003**

KCNN1 (NM_002248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNN1 (NM_002248) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNN1
Synonyms:	hSK1; KCa2.1; SK1; SKCA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002248, the custom clone sequence may differ by one or more nucleotides

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ATGAACAGCCACAGCTACAATGGCAGCGTGGGGCGCCGCTGGGCAGCGGGCCGGCCGCTGGGACGAG
ACCTCCGGACCCTGAGCCGGCCACCCCCACAACCCCGCACAGCCGGGCTCCAGGTGGTAGTGGC
CAAGAGTGAGCCAGCCCGCCCTCACCCGGCAGCCCGGGGGCAGCCCAAGACCAGGACGATGACGAG
GATGATGAGGAAGATGAGGCCGGCAGGCAGAGAGCCTCGGGGAAACCCTCAAATGTGGGCCACCGCTGG
GCCACCGCGGGCGCTCTTCGAGAAGCGGAAGCGCCTCAGCGACTATGCCCTCATTTTCGGCATGTTTGG
CATCGTCGTCATGGTGACGGAGACCAGCTGTCCTGGGGGTGTACACCAAGGAGTCTCTGTACTCATT
GCACTCAAATGCCTCATCAGCCTCTCCACGGCCATCCTGCTGGTCTCGTTGCTCTACCATGCCCGGG
AGATCCAGCTGTTTCATGGTGGACAACGGGGCTGATGACTGGCGCATCGCCATGACCTGCGAGCGGTGT
CCTCATCTCGCTAGAGCTGGCAGTGTGCCATTACCCGGTGCCCGCCACTACCGTTACGTGGACG
GCGCGGCTGGCCTCACGTACGGCCCTCGGTGGCCGAGGCCGACGTGGACGTGCTGCTGCATCCCCA
TGTTCTCGCCCTACCTGCTGGCCGGGTGATGCTACTGCACAGCAAATCTTACGGACGCCTCGAG
CCGAGCATCGGGGCCCTCAACAAGATCACCTTAACACGCGCTTCGTATGAAGACACTCATGACCATC
TGCCCCGGCACCGTGTCTGGTCTTACAGCATCTCCTCCTGGATCATCGCAGCCTGGACCGTGGCGGT
GCGAGAGGTACCACGACAAGCAGGAAGTGACCAGCAACTTCTGGGGCCATGTGGCTGATTTCCATCAC
TTCTCTCCATTGGCTACGGCGACATGGTGCCCCACACCTACTGCGGGAAGGGTGTGTGCTGCTCACT
GGCATCATGGGAGCTGGCTGTACCGCGCTCGTGGTGGCTGTGGTGGCTCGGAAGCTGGAGCTACCAAGG
CTGAGAAGCAGTGCACAACCTCATGATGGACTCAGCTACCAAGCGGGTAAAAACGCCGCTGCTAA
CGTTCTCAGGGAGACGTGGCTCATCTACAACATACCAGGCTGGTGAAGAAGCCAGACCAAGCCCGGTT
CGGAAACACCAGCGTAAGTTCTCCAAGCCATCCATCAGGCTCAGAAGCTCCGGAGTGTGAAGATCGAGC
AAGGGAAGCTGAACGACCAGGCTAACACGCTTACCGACCTAGCCAAGACCCAGACCGTATGTACGACCT
TGTATCGGAGCTGCACGCTCAGCACGAGGAGCTGGAGGCCCGCCTGGCCACCCTGAAAGCCGCTTGGAT
GCGCTGGGTGCTCTCTACAGGCCCTGCCTGGCCTCATCGCCAAAGCCATACGCCACCCCGCCTCCCC
TGCTCCAGGCCCGGCCCGGCCCAAGACCAGGCAGCCGGAGCTCCCCCTGCCGTGGACGCCGT
GGCCCCCTCGGACTGCGGGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002248 unedited

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GCGAAATCCGCACGAGGGCGGGGCCAGGTCCGGCGGGAGGGGGTCCGGCTCTGCGGCGG
CGCGCGCACACCTCCCGGCTCACACGCCCTTGCCCGGCCGTGCACTTGTCTTCGCGCTC
GGGCAGGGCGCAGGGACTCCGGCTGCGGCGGCCGACTCCGGCCGATCTCAAAGGGACAGG
AAAGGCAGCAGCAGCCACCTCTCTCCAGTCAAGTGGTACCAGCAGGACTGAAGGGGA
CAGCCCCTTTGCAGTGGCTCGGCGAGGAGACCCCTGCACCCTAGGGTCAGTGCAGGAGCC
CAGCCGCTGAGCCATGCCGGGCCCGGGCGGCTGCAGCGAGCCCAACCCCTGCACCCAG
GTAGTCATGAACAGCCACAGCTACAATGGCAGCGTGGGGCGGCCCTGGGCAGCGGGCCG
GGCGCCCTGGGACGAGACCCTCCGGACCCTGAGGCCGGCCACCCCCACAACCCCGCAC
AGCCCGGGCCTCCAGGTGGTAGTGGCCAAGAGTGAGCCAGCCCGGCCCTACCCGGCAGC
CCCCGGGGCAGCCCCAGGACCAGGACGATGACGAGGATGATGAGGAAGATGAGGCCGGC
AGGCAGAGAGCCTCGGGGAAACCCTCAAATGTGGGCCACCGCCTGGGCCACCGCGGGCG
CTTTTCGAGTAGCGGAAGCGCTCAGCGACTATGCCCTCATTTTCGGCATGTTTGGCATC
GTCGTCATGGTGACGGAGACCGAGCTGTCCTGGGGGTGTACACCAAGGAGTCTCTGGAC
TCATTCGCACTCAAATGCCTCATCAGCCTCTCCACGGGATCCTGCTGGGGCTCGTTGTC
CTTACCTGCCCCGAGATCCAGCTGTTTAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002248 unedited GCTCAGGGGGTGGCCAGGCGGGCCTCCAGCTCCTCGTGCTGAGCGTGACGCTCCGATACA AGGTTCGTACATGACGGTCTGGGTCTTGGCTAGGTTCGGTAAGCGTGTAGCCTGGTCGTTT AGCTTCCCTTGCATCGATCTTCACTCCGGAGCTTCTGAGCCGCTGGTGTTCGGAACCC GGGCTTGGTCTGGCTTCTCACCAGCCTGGTATGTTTGTAGATGAGCCACGTCTCCCTGA GAACGTTAGCAGCGCGTTTTTTACCCGCTTGGTGAGCTGAGTGTCCATCATGAAGTTGT GCACGTGCTTCTCAGCCTTGGTGAGCTCCAGCTCCGAGCCACCACAGCCACCACGAGCG CGGTACAGCCAGCTCCCATGATGCCAGTGAGCAGGCACACACCCTTCCCGCAGTAGGTGT GGGACACCATGTGCGCCGTAGCCAATGGAGAGGAAGGTGATGGAAATCAGCCACATGGCCC CCAGGAAGTTGCTGGTCACTTCTGCTTGTGCTGGTACCTCTCGCAGACGCGCACGGTCC AGGCTGCGATGATCCAGGAGGAGATGCTGAAGACCAGCANCACGGTGCCGGGGCAGATGG TCATGAGTGTCTTATGACGAAGCGCGTGTGAAGGTGATCTTGTGAGGGCCCCGATGC TGCGGCTCGAGGCGTCCGTGAAGATTTTGTGTGCAATAGCTTCAACCGGCCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_002248
Insert Size:	2000 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).
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:	NM_002248.3 , NP_002239.2
RefSeq Size:	2657 bp
RefSeq ORF:	1632 bp
Locus ID:	3780
UniProt ID:	Q92952
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane

Gene Summary:

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. This gene is a member of the KCNN family of potassium channel genes. [provided by RefSeq, Jul 2008]