

## Product datasheet for SC121952

### KCNN4 (NM\_002250) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNN4 (NM_002250) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNN4
Synonyms:	DHS2; hIKCa1; hKCa4; hSK4; IK; IK1; IKCA1; KCa3.1; KCA4; SK4
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC121952 sequence for NM_002250 edited (data generated by NextGen Sequencing)

```

ATGGGCGGGGATCTGGTCTTGGCTGGGGCCTTGAGACGCCGAAAGCGCTTGCTGGAG
CAGGAGAAGTCTCTGGCCGGCTGGGCACTGGTCTGGCAGGAACTGGCATTGGACTCATG
GTGCTGCATGCAGAGATGCTGTGGTTCCGGGGGTGCTCGTGGGCGCTCTACCTGTTCTG
GTTAAATGCACGATCAGCATTTCCACCTTCTTACTCCTCTGCCTCATCGTGGCCTTTCAT
GCCAAAGAGGTCCAGCTGTTTCATGACCGACAACGGGCTGCGGGACTGGCGCTGGCGCTG
ACCGGGCGGCAGGCGGCAGATCGTGTGGAGCTGGTGGTGTGTGGGCTGCACCCGGCG
CCCGTGCGGGGCCCGCCGTGCGTGCAGGATTTAGGGGCGCGCTGACCTCCCCGAGCCC
TGGCCGGGATTCTTGGGCAAGGGGAAGCGCTGCTGTCCCTGGCCATGCTGCTGCGTCTC
TACCTGGTGCCTCCGCGCCGTGCTCCTGCGCAGCGGCGTCTGCTCAACGTTCTACCGC
AGCATCGGCGCTCTCAATCAAGTCCGCTTCCGCCACTGGTTCGTGGCCAAGCTTTACATG
AACACGCACCCTGGCCGCTGCTGCTCGGCCTCACGCTTGGCCTCTGGCTGACCACCGCC
TGGGTGCTGTCCGTGGCCGAGAGGCAGGCTGTTAATGCCACTGGGCACCTTTCAGACACA
CTTTGGCTGATCCCCATCACATTCCTGACCATCGGCTATGGTGACGTGGTGCCGGGCACC
ATGTGGGGCAAGATCGTCTGCCTGTGCACTGGAGTCATGGGTGTCTGCTGCACAGCCCTG
CTGGTGGCCGTGGTGGCCGGAAGCTGGAGTTTAAACAAGGCAGAGAAGCACGTGCACAAC
TTCATGATGGATATCCAGTATACCAAAGAGATGAAGGAGTCCGCTGCCCGAGTGCTACAA
GAAGCCTGGATGTTCTACAAACATACTCGCAGGAAGGAGTCTCATGCTGCCCGCAGGCAT
CAGCGCAAGCTGCTGGCCGCCATCAACGCGTTCGCCAGGTGCGGCTGAAACACCGGAAG
CTCCGGGAACAAGTGAATCCATGGTGGACATCTCCAAGATGCACATGATCCTGTATGAC
CTGCAGCAGAATCTGAGCAGCTCACACCGGGCCCTGGAGAAACAGATTGACACGCTGGCG
GGGAAGCTGGATGCCCTGACTGAGCTGCTTAGCACTGCCCTGGGGCCGAGGCAGCTTCCA
GAACCCAGCCAGCAGTCCAAGTAG

```

Clone variation with respect to NM\_002250.2



View online »

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002250 unedited  
GGCAAAGCGCNAAAAANACNNACTCTCCCCCNCNCGGTTTCAGAAATTTGTNATACGAC  
TCACTATAGGGCGGCCGCGAATTCGCACCAGGGCAGGAAGCTGGCTGAGCCCCAAAACCC  
CGGGGGCCATGGGCGGGGATCTGGTGCTTGGCCTGGGGGCCTTGAGACGCCGAAAGCGCT  
TGCTGGAGCAGGAGAAGTCTCTGGCCGGCTGGGCACTGGTGCTGGCAGGAACTGGCATTG  
GACTCATGGTGCTGCATGCAGAGATGCTGTGGTTCGGGGGGTCTCGTGGGCGCTCTACC  
TGTTCTGGTTAAATGCACGATCAGCATTCCACCTTCTTACTCCTCTGCCTCATCGTGG  
CCTTTCATGCCAAAGAGGTCCAGCTGTTTCATGACCGACAACGGGCTGCGGGACTGGCGCG  
TGGCGCTGACCGGGCGCAGGCGCGCAAATCGTGCTGGAGCTGGTGGTGTGGGCTGC  
ACCCGGCGCCCGTGGGGGCCCGCCGTGCGTGCAGGATTTAGGGGCGCCGCTGACCTCCC  
CGCAGCCCTGGCCGGATTCTGGGCCAAGGGGAAGCGCTGCTGTCCCTGGCCATGCTGC  
TGCGTCTCTACCTGGTCCCCGCGCCGTCTCTGCGCAGCGCGCTCTGCTCAACGCTT  
NCTACCGCAGCATCGGCGCTCTCAATCAAGTCCGCTTCCGCCACTGGTTCGTGGCCAGC  
TTTACATGAACACGCNACCCTGGCCGCTGCTGNCTCGCCTCACGCTTGGCCTCTGGCTG  
ACCACCGNCTGNGTGCTGTCCGNTGGCGANAAGCTGTTAATGCCACTGGGCACCTTTAGA  
CCACTTTGGCTGACCCCATACATTCCTGACATCGNTATGGGGAAGTGTGCCGGCCACATG  
TGGGGCCAGATCTCTGGCTGGCACTGGAGCATGGTGTCTGCTGACAGCCCTGCTGTGGCC  
GGGTGGCCCN

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_002250 unedited  
NCCGTTTACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTT  
TTTTTGGCTTTAACATTTATTACAAAGAAAAGAGCAGAGGCTGGTGAAGTTACTTCTTC  
CTCCCCACCAGGTGCTCTCTGCAGCTCTGGAAAAATGGTGTCTCTTTGTGTCCCACCA  
GGGGGCGCCACCTCCAGCCCCGCCCGCCAGCCTCATACCCAGTTCTTCAGCTCGGCCAGCG  
TAACTGAAGCCTCCAGAATCCTGGATCCGGGCCCTAGTACCCTTTTCCAGGGACCC  
AGGAGTCTGCCTCCAGTCCGCTGCACTTGTAACTGAGAGCTGGAGGTCGTCCATAGCAG  
CATAGTGAGAGTGTGTTTATGATGAGGGTATGCAGAGTGGGGGTGACCATGTTCCCACCTGG  
GGCCTCAGGTGGGCCAAGGCCTACCCACTTTAGCCAGCGTCCCCTCCAGCAGCCATCAGC  
AAGCCAACCCACTCCAAGCCAGGGCCCCCTTTGGTCTTGCAGTTGAGGTGCTTTGTTCA  
GGGCTGGGTGAGGAGTGGCAGAGACGATGTCCACCACCTCAGTACTGGGAAAAGTAGCCT  
GGTTCTCTCTCGTGGGTCCAGCTACTTGGACTGCTGGCTGGGTTCTGGAAGCTGCCTCG  
CCCCAGGGCAGTGCTAAGCAGCTCAGTCCAGGCATCCAGCTTCCCCGCCAGCGTGTCAAT  
CTGTTTCTCCAGGGCCCCGGTGTGAGCTGCTCANATTCTGCTGCAGGTATACAGGATCAT  
GTGCATCTTGGAGATGTCCACCATGGAGTTCACCTGTTCCCGGAGCTCTCGTGTTCAC  
CGCACCTGCGGACCCGTTGTGGCGGCCAGCAACTTGCCTGATGCCTGCCGGCAG

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_002250

**Insert Size:** 2050 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**RefSeq:** [NM\\_002250.2](#), [NP\\_002241.1](#)

**RefSeq Size:** 2240 bp

**RefSeq ORF:** 1284 bp

**Locus ID:** 3783

**UniProt ID:** [O15554](#)

**Domains:** SK\_channel, CaMBD

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

**Gene Summary:** The protein encoded by this gene is part of a potentially heterotetrameric voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. The encoded protein may be part of the predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new subfamily. [provided by RefSeq, Jul 2008]