

## Product datasheet for **MC200643**

### **Kcnn4 (NM\_008433) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnn4 (NM_008433) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnn4
Synonyms:	IK1; IKCA1; KCa3.1; KCA4; mIKCa1; SK4; SKCas
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC010274 sequence for NM\_008433  
 GCAAAAGTCCCAGAGTGAGCAGAACAGGCCGCTGGCCTGGAAGCCAAGCTGGCTGCCATTTGCGTACTGA  
 GAGGTGGGGGACCCTGGGCAGGAAGCTGGCTGAGCCCCAAGACCTCAGGGGCCATGGGCGGGGAGCTGGT  
 GACTGGCCTGGGGGCCCTGAGACGGAGAAAAGCGCTGCTGGAGCAGGAGAAGAGGGTGGCCGGCTGGGCG  
 TTGGTGTGGCGGGAACCTGGCATCGGACTCATGGTTCTGCACGCTGAGATGTTGTGGTTCCTGGGCTGCA  
 AGTGGGTGCTGTACCTGCTCCTGGTTAAGTGTGATCACCTGTCCACTGCCTTCCTCTTGTCTTAT  
 TGTGGTCTTCCATGCCAAGGAGGTCCAGCTGTTTCATGACTGACAACGGGCTCCGGGACTGGCGCGTGGCG  
 CTGACCCGGCGGAGGTGGCGCAGATCCTGCTGGAGCTGTTGGTGTGCGGGGTGCACCCGGTGCCCTAC  
 GGAGCCCGCACTGCGCCCTGGCGGGGAGGCCACCGACGCGCAGCCCTGGCCGGGTTTCTGGGCGAAGG  
 CGAGGCGTTGCTGTCCCTGGCCATGCTCCTGCGTCTCTACCTGGTGCCCCGCGCGGTGCTGCTGCGCAGC  
 GGGGTCTGCTCAACGCGTCTACCGCAGCATCGGGGCGCTCAACCAAGTCCGCTCCGCCACTGGTTTCG  
 TGGCCAAGCTGTACATGAACACGCACCCGGGTGCGCTGCTGCTGGGCTCAGCTGGGTCTGCTGCTCAC  
 CACAGCTTGGGTGCTGTCTGTGGCTGAGAGGCAGGCTGTCAATGCCACGGGGCACCTCACAGACACTG  
 TGGCTGATTCCGATCACATTCCTGACCATTTGGCTATGGGGACGTGGTACCTGGCACCATGTGGGGAAGA  
 TTGTCTGCTGTGCACCCGAGTCATGGGGTCTGCTGCACAGCTCTCCTGGTGGTGTGGTGGCTCGGAA  
 GCTGGAGTTCAACAAGGCGGAGAAAACACGTGCACAACCTCATGATGGACATCCATTATGCCAAAGAGATG  
 AAGGAGTCAGCGCGCGGCTGCTGCAGGAAGCCTGGATGTAACAAGCACACTCGAAGGAAGGACTCCC  
 GGGTGGCCGAGACATCAGCGCAAGATGCTGGCCGCATCCACAGTTCGCGCAGGTACGGTGAACA  
 CCGGAAGTCCGGGAACAAGTGAATTCATGGTGGACATCTCAAAGATGCACATGATCCTGTGCGACCTG  
 CAGCTGGGTCTCAGTCTCGCACCGTGGCCTGGAGAAGAGAATCGACGGTCTGGCAGGAAAAGCTGGATG  
 CCCTGACAGAGTGTCTGGCACTGCCCTGCAGCAACAGCAGCTACCAGAACCCAGCCAGGAGGCCACATA  
 GCTCCACATGGACTCACAGAAGAACCAGGCTAAGTACCAAGGACCGAGCTCAAGGACATGCTCCCTGCC  
 AATTCGACCAAGCCCCACGATAAATCACCTCAAGATGCCAGGACCCACGTGGATCCACGTTGAGGTGCA  
 TGGACTCTGGTGGTGGCAGCCATGAGTGGACACTGAATTGGACCTCCACAGTCAATGGGAACATGGCCCC  
 ACTACACATATGCCCTCATCAGAAGCCCTTTCTGCTGTGCTGCTGTTTCCAGGACCCCTTAATCTCTGTTGG  
 AGGAGGAGGTGCTGGGGTCTAGGATGTAGGAAGCTTCAGTTAACCGCGGGCGGGTCTCGCTGAAGGAA  
 CCAGGTCCGAGCGACGGGAGGTGCTGCCCCCTGGTGGACACTGGGAAGATGCCGTTTCTCCTGATTGC  
 AGAGACTGTGCCAGAAGAGGTTACAGGGTGTGCTCACCAATCCACCCTCATACTTTGTAATAAATGGTA  
 AACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_008433

**Insert Size:** 1278 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:**
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: [BC010274](#), [AAH10274](#)

RefSeq Size: 1921 bp

RefSeq ORF: 1278 bp

Locus ID: 16534

UniProt ID: [O89109](#)

Cytogenetics: 7 A3

**Gene Summary:** Forms a voltage-independent potassium channel that is activated by intracellular calcium (PubMed:9705284). Activation is followed by membrane hyperpolarization which promotes calcium influx. Required for maximal calcium influx and proliferation during the reactivation of naive T-cells (PubMed:20884616). Plays a role in the late stages of EGF-induced macropinocytosis (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) and variant 2 encode the same protein.