

Product datasheet for **MC219218**

Kcnn2 (NM_080465) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnn2 (NM_080465) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnn2
Synonyms:	bc; fri; KCa2.2; SK2; SKCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC219218 representing NM_080465
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAGCTGCAGGTACAACGGGGCGTCATGCGTCCGCTCAGCAACTTGAGCTCGTCCCGCCGAACC
 TGCAGGAGATGGACTCCGAGGCTCAGCCCTGCAGCCCCCGCTCCGTAGGAGGAGGTGGTGGTGC
 GTCCTCCCCGTCTGCTGCCGCCGCCCTCATCCTCAGCCCCGGAGATCGTGGTGTCTAAGCCGGAGCAC
 AACAAATCTAACAACTGGCGCTCTACGGGACTGGCGGGAGGCAGCACCGGAGCGCGCGCGCGGCA
 GCGGGCATGGCAGCAGCAGCGCACCAAGTCCAGCAAAAAGAAGAACCAGAACATCGGCTACAAGCTGGG
 CCATCGGCGGCCCTGTTTGAGAAGCGCAAGCGGCTCAGCGACTATGCGTCTATCTTCGGCATGTTCCGGC
 ATCGTGGTTATGGTCATTGAGACCGAGCTGTCTGGGGCGCTACGACAAGGCGTGTATTCTTTAG
 CTCTGAAATGCCTTATCAGTCTCTCCACGATCATCTGCTGGTCTGATCATCGTGTACCACGCCAGGGA
 AATACAGTTATTCATGGTGGACAATGGAGCAGATGACTGGAGAATAGCCATGACTTATGAGCGTATTTTC
 TTCATCTGCTTGGAAATACTGGTGTGTGCTATCCATCCCATACTGGGAATTATACGTTACATGGACAG
 CCCGGCTTGCCCTTCTCCTATGCCCCCTCCACAACCACCGCAGATGTGGATATTATTTTATCTATACCAAT
 GTTCTTAAGGCTCTATCTGATTGCCAGAGTCATGCTATTACATAGCAAATTTTCACCGATGCCTCGTCT
 AGAAGCATTGGGGCACTTAATAAGATAAACTTCAATACGCGTTTTGTTATGAAGACTTTAATGACTATCT
 GCCCAGGAACTGTGCTCTTGGTTTTAGTATCTCATTATGGATAATTGCCGCATGGACTGTCCGAGCTTG
 TGAAAGGTACCATGATCAACAGGATGCTACTAGCAACTCCTTGGAGCAATGTGGTTGATATCAATAACT
 TTTCTCTCCATTGGTTATGGTGACATGGTACCCAACACATACTGTGGGAAAGGAGTCTGCTTACTG
 GAATCATGGGTGCAGTTGCACAGCCCTGGTGGTAGCCGTAGTGGCAAGAAAGCTAGAATTACCAAGC
 AGAAAAGCATGTGCACAATTTTCATGATGGATACTCAGCTGACCAAAAAGAGTGAAAAACGCAGCCGCAAT
 GTACTCAGGAAAACGTGGTTAATCTACAAAAACAAAAGCTAGTAAAAAGATCGACCACGCAAAAGTAA
 GAAAGCATCAACGGAAATTTCTGCAAGCTATTCATCAATTAAGAAGTGTGAAGATGGAACAGAGGAACT
 GAATGACCAAGCAAAATACCCTAGTGGATCTGGCAAAGACCCAGAATATCATGTATGACATGATTTCCGAC
 TTGAATGAAAGGAGTGAAGACTTTGAGAAAAGGATCGTCAACCCTGGAAACAAAACAGAGACTTTGATTG
 GTAGCATTATGCCCTCCCTGGGCTAATCAGCCAGACCATCAGACAGCAGCAAGGGACTTCATTGAGAC
 ACAGATGGAGAACTACGACAAGCATGTCTCTACAATGCTGAGCGCTCCCGTCTCGTCCAGGAGGCGG
 CGGTCTCTCCACAGCGCCACCAACTTCATCAGAGAGTAGCTAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1863_e07.zip

Restriction Sites: Sgfl-RsrII

ACCN: NM_080465

Insert Size: 1725 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 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](#)

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: [NM_080465.2](#), [NP_536713.1](#)

RefSeq Size: 2046 bp

RefSeq ORF: 1725 bp

Locus ID: 140492

UniProt ID: [P58390](#)

Cytogenetics: 18 B3- C

Gene Summary: Forms a voltage-independent potassium channel activated by intracellular calcium. Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization. The channel is blocked by apamin.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform SK2-S, which is shorter at the N-terminus, compared to isoform SK2-L. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.