

Product datasheet for **MC217935**

Kcnn1 (NM_032397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnn1 (NM_032397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnn1
Synonyms:	AI854248; KCa2.1; SK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217935 representing NM_032397
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGCCACAGCCACAATGGCAGCGTGGGGCAGCCTCTGGCAGCGGCCTGGATTCTGGGCTGGG
 AGCCTGTGGACCCTGAGGCAGGCCGCCCTGCAGCCACCCAAGGCCAGGCCTGCAGATGGTGGCCAA
 GGGTCAGCCTGTCAAGCTGTACCCGGTGGTTCCAGGGGCCACCCCAAGGAGCAGGAGGAGGAAGAGGAA
 GAGGAGGAGGAGGAGGAGGACAAGACAGGCTCAGGGAAGCCCCAACAGTCAGCCACCGCCTGGGACACC
 GCAGGGCCCTCTTTGAAAAGCGTAAACGGCTCAGTGACTATGCGCTCATCTTTGGCATGTTTGGATTGT
 CGTCATGGTGACAGAAACAGAGCTGTCTGGGGTGTATACACCAAGGAGTCACTGTCTCTTTTGTCTG
 AAATGCCTCATCAGCCTGTCCACTGTCTCTTGGTGGCCTTGCATCCTGTACCACGCCGAGAGATCC
 AGCTGTTCTTGGTGGACAATGGTGCCGACGACTGGCGTATCGCCATGACGTGGGAGCGCGTCCCTGAT
 CTGCTGGAGTTGGTCGTGTGCCATCCACCCGGTGGCCGACTATCGCTTACGTGGACGGCACGA
 CTGGCCTTCTCTGGTGCCTGCGCAGCCGAGGCAGACCTGGATGTGCTGTCCATCCCATGTTCC
 TGGCCTCTACCTGCTGGCTCGGGTCTGCTCCTGCACAGCCGCATCTTACCGATGCATCCAGCCGCGAG
 CATCGGGGCCCTTAACCGCGTCACCTTCAACACACGCTTTCGTACCAAGACGCTCATGACCATCTGCCCC
 GGCAGTGTGTTGGTCTTCAGCGTCTCCTCCTGGATCGTTGCTGCGTGGACAGTGCAGCGTGTGTGAGA
 GGTACCACGATAAGCAGGAAGTGACCAGCAACTTCTGGGAGCCATGTGGCTCATCTCCATCACCTTCTT
 GTCCATTGGCTATGGAGACATGGTGCCGCATACCTACTGTGGGAAGGGTGTGTCTGCTCACTGGCAGC
 ATGGGAGCAGGCTGCAGTGCAGTGTGGTGGCCGTCGTGGCTCGGAAGTTGGAAGTCAACCAAGGCTGAGA
 AACAGTGCACAACCTTATGATGGACACACAGCTCACCAAGCGGGTCAAAAATGCTGCTGCAAAACGTTCT
 CAGGGAGACATGGCTCATCTACAAACACACAGGCTGGTGAAGAAGCCAGACCAAGGCCGGGTTCCGAAAA
 CACCAGCGTAAGTTCCTTCAAGCCATCCATCAGGCTCAGAAGCTCCGAAGTGTGAAGATTGAACAAGGGA
 AGGTGAACGATCAGGCCAACACGCTGGCTGAGCTGGCCAAGGCACAGAGCATCGCATATGAGGTGGTGTG
 AGAGCTGCAGGCCAGCAGGAGGAGTTGGAGGCACGCCTAGCCGCTTGGAGAGCCGACTGGATGTCCTG
 GGTGCCTCCCTGCAGGCTCTACCAGGCCTATAGCCCAAGCCATATGCCCTCTACCACCACCTGGCCTG
 GGCCTGGTACCTGGCCACAGCCACCCAGAGCCCAAAAGCCACTGGCTGCCACCATGGGATCAGACTG
 TGGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_032397
- Insert Size:** 1617 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: [NM_032397.2](#), [NP_115773.2](#)

RefSeq Size: 4042 bp

RefSeq ORF: 1617 bp

Locus ID: 84036

UniProt ID: [Q9EQR3](#)

Cytogenetics: 8 B3.3

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 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (a). 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.