

## Product datasheet for **MR208601**

### **Kcnn1 (NM\_032397) Mouse Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR208601 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTAGCCACAGCCACAATGGCAGCGTGGGGCAGCCTCTGGCAGCGGCCTGGATTCTGGGCTGGG  
 AGCCTGTGGACCTGAGGCAGGCCGCCCTGCAGCCACCCAAGGCCAGGCCTGCAGATGGTGGCCAA  
 GGGTCAGCCTGTCAAGCTGTACCCGGTGGTTCAGGGGCCACCCCAAGGAGCAGGAGGAGGAAGAGGAA  
 GAGGAGGAGGAGGAGGAGGACAAGACAGGCTCAGGGAAGCCCCAACAGTCAGCCACCGCCTGGGACACC  
 GCAGGGCCCTCTTTGAAAAGCGTAAACGGCTCAGTGACTATGCGCTCATCTTTGGCATGTTTGGATTGT  
 CGTCATGGTGACAGAAACAGAGCTGTCTGGGGTGTATACACCAAGGAGTCACTGTCTTTTTGCTCTG  
 AAATGCCTCATCAGCCTGTCCACTGTCTCTTGGTGGCCTTGTATCCTGTACCACGCCGAGAGATCC  
 AGCTGTTCTTGGTGGACAATGGTGCCGACGACTGGCGTATCGCCATGACGTGGGAGCGCGTCCCTGAT  
 CTCGCTGGAGTTGGTCGTGTGCCATCCACCCGGTGGCCGACTATCGCTTACGTGGACGGCACGA  
 CTGGCCTTCTCTGGTGCCTGGCAGCCGAGGCAGACCTGGATGTGCTGTCCATCCCATGTTCC  
 TGGCCTCTACCTGCTGGCTCGGGTCTGCTCCTGCACAGCCGCATCTTACCGATGCATCCAGCCGCGAG  
 CATCGGGCCCTTAACCGCGTCACCTTCAACACACGCTTTCGTACCAAGACGCTCATGACCATCTGCCCC  
 GGCCTGTGTTGTTGGTCTTACGCGTCTCCTCCTGGATCGTTGCTGCGTGACAGTGCAGCGTGTGTGAGA  
 GGTACCACGATAAGCAGGAAGTGACCAGCAACTTCTGGGAGCCATGTGGCTCATCTCCATCACCTTCTT  
 GTCCATTGGCTATGGAGACATGGTGCCGATACCTACTGTGGGAAGGGTGTGTCTGCTCACTGGCCTC  
 ATGGGAGCAGGCTGCACTGCCTCGTGGTGGCCGTCGTGGCTCGGAAGTTGGAACCTACCAAGGCTGAGA  
 AACACGTGCACAACCTTATGATGGACACACAGCTCACCAAGCGGGTCAAAAATGCTGCTCAAACGTTCT  
 CAGGGAGACATGGCTCATCTACAAACACACAGGCTGGTGAAGAAGCCAGACCAAGGCCGGGTTCCGAAA  
 CACCAGCGTAAGTTCTTTCAGGCCATCCATCAGGCTCAGAAGCTCCGAAGTGTGAAGATTGAACAAGGGA  
 AGGTGAACGATCAGGCCAACACGCTGGCTGAGCTGGCCAAGGCACAGAGCATCGCATATGAGGTGGTGTG  
 AGAGCTGCAGGCCAGCAGGAGGAGTTGGAGGCACGCCTAGCCGCTTGGAGAGCCGACTGGATGTCCTG  
 GGTGCCTCCCTGCAGGCTCTACCAGGCTTATAGCCCAAGCCATATGCCCTCTACCACCACCTGGCCTG  
 GGCCTGGTACCTGGCCACAGCCACCCAGAGCCACAAAGCCACTGGCTGCCACCATGGGATCAGACTG  
 TGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208601 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSSHNGSVGQPLGSGPGFLGWEPVDPEAGRPLQPTQGPGLQMVAKQPVRLSPGSGRHPQEQQEEEE  
 EEEEEEDKTGSGKPPTVSHRLGHRRALFEKRKRLSDYALIFGMFGIVVMVTELELWGVYTKESLCSFAL  
 KCLISLSTVILLGLVILYHAREIQLFLVDNGADDWRIAMTWERVSLISLELVVCAIHPVPGHYRFTWTAR  
 LAFSLVPSAAEADLDVLLSIPMFLRLYLARVMLLHSRIFTDASSRSIGALNRVTFNTRFVTKLMTICP  
 GTVLLVFSVSSWIVAAWTVRVCERYHDKQEVTSNFLGAMWLISITFLSIGYDMVPHTYCGKGVCLLTGI  
 MGAGCTALVVAVVARKLELTKAEKHVHNFMMDTQLTKRVKNAAANVLRWLIYKHTRLVKKPDQGRVRK  
 HQRKFLQAIHQAKLRSVKIEQKVNQANTLAEAKAQSIAYEVVSELQAQQEELEARLAALESRLDVL  
 GASLQALPGLIAQAICPLPPPWPGPGLATATQSPQSHWLPMTGSDCG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_032397

**ORF Size:** 1617 bp

**OTI Disclaimer:** 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](#)
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_032397.3](#)
**RefSeq Size:** 4042 bp

**RefSeq ORF:** 1617 bp

**Locus ID:** 84036

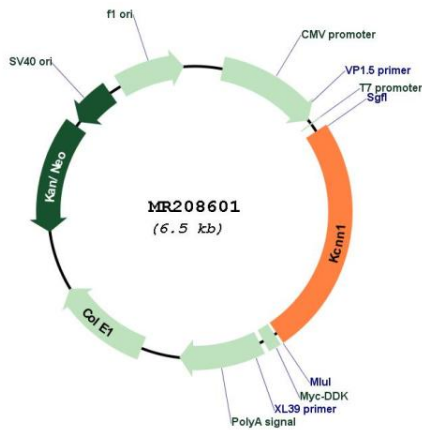
**UniProt ID:** [Q9EQR3](#)

**Cytogenetics:** 8 B3.3

**MW:** 59.4 kDa

**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]

**Product images:**



Circular map for MR208601