

## Product datasheet for **RN201448**

### **Kcnn2 (NM\_019314) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnn2 (NM_019314) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnn2
Synonyms:	KCa2.2; SK2; SKCa 2; SKCa2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN201448 representing NM\_019314  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCAGCTGCAGGTACAACGGGGCGTCATGCGTCCGCTCAGCAACTTGAGCTCGTCCCGCCGGAACC  
 TGCACGAGATGGACTCAGAGGCTCAGCCCTGCAGCCCCAGCGTCGGTTGTAGGAGGAGGTGGTGGTGC  
 GTCCTCCCGTCTGCTGCCGCCGCCCTCATCCTCAGCCCCAGAGATCGTGGTGTCTAAGCCGGAGCAC  
 AACAACTTAACAACCTGGCGCTCTACGGAAGTGGCGCGGAGGCAGCACCCGGAGGCGCGCGCGCGCG  
 GCGGGCGCGCGCGGCAGCGGGCATGGCAGCAGCAGCGGCACTAAGTCCAGCAAAAAGAAGAACCAGAA  
 CATCGGCTATAAGCTGGGCCATCGCGTGCCTGTTTGAAGAAGCGCAAGCGGCTCAGCGACTATGCGCTC  
 ATCTTCGGCATGTTCCGCATCGTGGTATGGTATCGAGACCGAGCTGTCGTGGGCGCCTACGACAAGG  
 CGTCGCTGTATCTTTAGCTCTGAAATGCCTTATCAGTCTCTCCAGCATATCCTGCTTGGTCTGATCAT  
 CGTATACCACGCCAGGAAATACAGTTATTCATGGTGGACAATGGAGCAGATGACTGGAGAAATAGCCATG  
 ACTTATGAGCGTATTTCTTCATCTGCTGGAAATACTGGTGTGTGCTATTCATCCCATCCTGGGAATT  
 ATACGTTACATGGACAGCCCGCTTGCCCTTCTCTATGCCCTTCCACAACCACTGCAGACGTGGATAT  
 TATTTTATCTATACCAATGTTCTTAAGACTCTATCTGATTGCCAGAGTCATGCTATTACATAGCAAACCT  
 TTCACCGATGCCTCCTCTAGAAGCATTGGGGCACTTAATAAGATAAACTCAATACGCGTTTTGTTATGA  
 AGACTTAATGACTATCTGCCAGGAAGTGTGCTCTGGTTTTAGTATCTCGTTATGGATAATTGCCGC  
 ATGGACTGTCCGAGCTTGTGAAAGGTACCATGATCAACAGGATGTCAGTACCAACTTCTTGGAGCAATG  
 TGTTGATATCAATAACTTTCTCTCCATTGGTTATGGTGACATGGTACCTAACACATACTGTGGGAAAG  
 GAGTCTGCTTACCCTACCGAATAATGGGTGAGTTGCACAGCCTGGTGGTAGCCGTAGTGGCAAGAAA  
 GCTAGAACTTACCAAAGCAGAAAAGCATGTGCACAATTCATGATGGATACTCAGCTGACCAAAAGAGTA  
 AAAAAACGAGCCCAATGTACTCAGGGAAACGTGGTTAATCTACAAAAACAAAAGCTAGTAAAAAAGA  
 TCGACCATGCAAAAGTAAGGAAGCATCAACGAAATCTTACAAGCTATTCATCAATTAAGAAGTGTGAA  
 GATGGAACAGAGGAAACTGAATGACCAAGCAATACTCTAGTGGATCTGGCAAAGACCCAGAATATCATG  
 TATGATATGATTTCCGACTTAAATGAAAGGAGTGAAGACTTTGAGAAAAGGATCGTCACCCTGGAAACAA  
 AATTAGAACTTTGATTGGTAGCATTATGCCCTCCCTGGGCTTATCAGCCAGACCATCAGACAGCAGCA  
 AAGGGACTTCATAGACACAGATGGAGAACTATGACAAGCATGTACCTACAATGCTGAGCGTTCCCGG  
 TCCTCGTCCAGGAGGCGCGGTCTCTCCACAGCGCCACCAACTTCATCTGAGAGTAGCTAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_019314
- Insert Size:** 1743 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\\_019314.2](#), [NP\\_062187.1](#)

**RefSeq Size:** 2060 bp

**RefSeq ORF:** 1743 bp

**Locus ID:** 54262

**UniProt ID:** [P70604](#)

**Cytogenetics:** 18q11

**Gene Summary:** small-conductance, calcium-activated potassium channel [RGD, Feb 2006]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. 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.