

## Product datasheet for **RN200168**

### **Kcnc2 (NM\_139217) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnc2 (NM_139217) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnc2
Synonyms:	KShIIIA; Kv3.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN200168 representing NM\_139217  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCAAGATCGAGAACAACGAGAGGGTGATCCTCAATGTCGGAGGCACCAGGCACGAAACCTACCGCA  
 GCACTCTCAAGACCCCTTCTGGAACCTCGCTGGCCCTTCTCGCCTCCTCTGAACCTCAGGGCGACTGCCT  
 GACTGCTGCGGGTGACAAGCTGCAGCCGCTGCCCCCTCCGCTGTCTCCACCGCCGCGACCGCCTCCCTTG  
 TCCCTGTCCCGAGCGGCTGCTTCGAGGGCGGCGCAGGCAACTGCAGTTCGCACGGTGGCAATGGCAGCG  
 ACCACCTGGGGAGGCCGGAATCTTCTTCGATCGCCACCCAGGAGTCTTCGCCTATGTGCTCAACTA  
 CTACCGCACGGGCAAGCTGCACTGCCCCCGCAGCTGTGTGGACCGCTTTCGAGGAAGAGCTGGCATT  
 TGGGGCATCGATGAGACCGAGCTGGAGCCCTGTGCTGGATGACCTACAGGCAGCACCGGGACGCGGAGG  
 AGGCCCTGGATATCTTCGAGACCCCGACCTCATCGGAGGCGACCCTGGTATGATGAGGACCTAGGGGG  
 CAAGAGACTGGGCAATGAGGATGCTGCGGGCTGGGAGGACCCGATGGCAAGCTGGCCGCTGGAGGAAG  
 CTGCAGCCTCGCATGTGGGCTCTTTGAGGACCCTATTCATCCAGAGCCGCTAGGTTTATTGCTTTTG  
 CTCTCTGTTCTTCAATTTGGTTTCCATCACAACCTTTTGCCTGGAGACACAGAAAGCTTCAATATTGT  
 TAAAAACAAGACAGAGCCAGTCAACAGGCACCAGCGCTGTTCTCCAGTATGAAATCGAAACGGATCCT  
 GCCTTGACATATGTGGAAGGAGTGTGTGGTGTGGTTACTTTTGAATTTTAGTCCGATTTGTTTTCT  
 CGCCCAATAAACTTGAGTTCATCAAAAATCTATTGAACATCATTGACTTTGTGGCCATCCTCCCCTTCTA  
 CTTAGAGGTGGGACTCAGCGGCTGTCTTCAAAGCGGCTAAAGATGTGCTCGGCTTCTCAGGGTGGTT  
 AGGTTTGTGAGGATCCTGAGAATCTTCAAGCTTACCCGCCATTTCTGAGGCTGAGAGTGTGCGGACACA  
 CTCTTCGTGCGAGCACCAATGAATTTTGTGCTGATCATCTTTCTGGCTCTGGGAGTTTGTATTTGCG  
 TAGCATGATCTACTACGCTGAGCGAGTAGGGGCTCAACCTAATGATCCCTCAGCGAGTGAGCACACACAG  
 TTCAAAAACATCCCCATTGGTTTCTGGTGGGCTGTGGTGACCATGACTACCTTAGGCTATGGGGATATG  
 ACCCCCAAACATGGTCAGGGATGTTGGTGGGGCCTTGTGTGCTCGGCTGGAGTGTGACCATAGCTAT  
 GCCTGTGCCCGTATTGTCAACAATTTGGGATGTACTACTCCTTGGCAATGGCGAAGCAGAAAATTCCA  
 AGAAAAAGAAAGAAGCACATTCTCCTGCCCTCTGGCAAGCTCACCTACATTTTGAAGACAGAATTAA  
 ACATGGCTGTAAACGTACCCAGAGTGACACATGTCTGGGCAAAGAAAACCGGCTTCTGGAACATAACAG  
 ATCAGTGTATCAGGTGACGACAGTACAGGAAGTACAGCCGCTTATCACCTCCGAAAGGCTCCCATC  
 AGACGCTCTAGTACCAGAGACAAAACAGAAGAGGGGAAACATGTTTCTGTTGACGACAGGTGATTACA  
 CGTGCGCTTCTGATGGAGGAATCAGGAAAGGATATGAAAATCCCGAAGCTTAAACAACATAGCGGGCTT  
 GGCAGGCAATGCTCTGAGACTCTCTCCAGTAACATCCCCCTACAACCTCTCCGTGTCTCTGAGGGCTCT  
 CGGTCTCCCATCCCATCTATCTTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_139217
- Insert Size:** 1917 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\\_139217.1](#), [NP\\_631963.1](#)

**RefSeq Size:** 2441 bp

**RefSeq ORF:** 1917 bp

**Locus ID:** 246153

**UniProt ID:** [P22462](#)

**Cytogenetics:** 7q22

**Gene Summary:** a voltage-gated K<sup>+</sup> channel; functions as a delayed rectifier-type K<sup>+</sup> channel activated by large membrane depolarizations [RGD, Feb 2006]  
Transcript Variant: This variant (b) encodes the longer isoform (b).