

Product datasheet for **RN200169**

Kcnc2 (NM_139216) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc2 (NM_139216) 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: >RN200169 representing NM_139216
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGATCGAGAACAACGAGAGGGTGATCCTCAATGTCGGAGGCCACCAGGCACGAAACCTACCGCA
 GCACTCTCAAGACCCCTTCTGGAACCTCGCCTGGCCCTTCTCGCCTCCTCTGAACCTCAGGGCGACTGCCT
 GACTGCTGCGGGTGACAAGCTGCAGCCGCTGCCCCCTCCGCTGTCTCCACCGCCGCGACCGCCTCCCTTG
 TCCCTGTCCCAGCGGCTGCTTCGAGGGCGCGCAGGCAACTGCAGTTCGCACGGTGGCAATGGCAGCG
 ACCACCTGGGGAGGCCGGAATCTTCTTCGATCGCCACCCAGGAGTCTTCGCCTATGTGCTCAACTA
 CTACCGCACGGGCAAGCTGCACTGCCCCCGCAGCTGTGTGGACCGCTTTCGAGGAAGAGCTGGCATT
 TGGGGCATCGATGAGACCGAGCTGGAGCCCTGTGCTGGATGACCTACAGGCAGCACCGGGACGCGGAGG
 AGGCCCTGGATATCTTCGAGACCCGACCTCATCGGAGGCGACCCTGGTATGATGAGGACCTAGGGGG
 CAAGAGACTGGGCAATTGAGGATGCTGCGGGCTGGGAGGACCCGATGGCAAGCTGGCCGCTGGAGGAAG
 CTGCAGCCTCGCATGTGGGCTCTTTGAGGACCCCTATTCATCCAGAGCCGCTAGGTTTATTGCTTTTG
 CTCTCTGTTCTTCAATTTGGTTTCCATCACAACCTTTTGCCTGGAGACACAGAAAGCTTCAATATTGT
 TAAAAACAAGACAGAGCCAGTCAACAACGCCACCGCTGTTCTCCAGTATGAAATCGAAACGGATCCT
 GCCTTGACATATGTGGAAGGAGTGTGTGGTGTGGTTACTTTTGAATTTTAGTCCGATTTGTTTTCT
 CGCCCAATAAACTTGAGTTCATCAAAAATCTATTGAACATCATTGACTTTGTGGCCATCCTCCCCTTCTA
 CTTAGAGGTGGGACTCAGCGGCTGTCTTCAAAGCGGCTAAAGATGTGCTCGGCTTCTCAGGGTGGTT
 AGGTTTGTGAGGATCCTGAGAATCTTCAAGCTTACCCGCCATTTCTGAGGCTGAGAGTGTGATATTGCG
 CTCTTCGTGCGAGCACCAATGAATTTTGTGCTGATCATCTTTCTGGCTCTGGGAGTTTGGATATTGCG
 TAGCATGATCTACTACGCTGAGCGAGTAGGGGCTCAACCTAATGATCCCTCAGCGAGTGAGCACACACAG
 TTCAAAAACATCCCCATTGGTTTCTGGTGGGCTGTGGTGACCATGACTACCTTAGGCTATGGGGATATGT
 ACCCCCAAACATGGTCAGGGATGTTGGTGGGGCCTTGTGTGCTCTGGCTGGAGTGTGACCATAGCTAT
 GCCTGTGCCCGTATTGTCAACAATTTGGGATGTACTACTCCTTGGCAATGGCGAAGCAGAAAATTCCA
 AGAAAAAGAAAGAAGCACATTCTCCTGCCCTCTGGCAAGCTCACCTACATTTTGAAGACAGAATTA
 ACATGGCTTGTAAACGTACCCAGAGTGACACATGTCTGGGCAAGAAAACCGGCTTCTGGAACATAACAG
 ATCAGTGTATCAGGTGACGACAGTACAGGAAGTACAGCCGCTTATCACCTCCGAAAGGCTCCCATC
 AGACGCTCTAGTACCAGAGACAAAACAGAAGAGGGGAAACATGTTTCTGTTGACGACAGGTGATTACA
 CGTGCGCTTCTGATGGAGGAATCAGGAAAGATAACTGCAAAGATGTTGTCATTACTGTTACACGCAAGC
 CGAGGCCAGATCTTACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_139216
- Insert Size:** 1842 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_139216.1](#), [NP_631962.1](#)

RefSeq Size: 3064 bp

RefSeq ORF: 1842 bp

Locus ID: 246153

UniProt ID: [P22462](#)

Cytogenetics: 7q22

Gene Summary: a voltage-gated K⁺ channel; functions as a delayed rectifier-type K⁺ channel activated by large membrane depolarizations [RGD, Feb 2006]
Transcript Variant: This variant (a) includes alternate penultimate exons, compared to variant b, resulting in a novel 3' coding region and longer 3' UTR. It encodes isoform a which has a distinct C-terminus, compared to isoform b.