

Product datasheet for **RN213756**

Kcnc4 (NM_001122776) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc4 (NM_001122776) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN213756 representing NM_001122776
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCAGCTCGGTGTGTCTCTCTACCGGGCGCAAGTCGGGAACAAGCCTCCGTCCAAAACAT
 GTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACGGGACA
 TGAGACCTACCGCAGCACCCCTGCGCACCCCTACCGGGCACCCGCTTGCCTGGCTGGCGGATCCCGACGGC
 GGGGGTCGGCCAGAGTCGGATGGCGGGGTGCAGGCAGCAGCGGCAGCAGCGGGCGGGGGGCTGTG
 AGTTCTTCTTTGATCGGCACCCGGGTGTTTTGCCTATGTGCTCAACTACTACCGCACGGCAAGCTGCA
 TTGCCCCGACAGCTCTGTGGCCTCTCTTTGAGGAAGAGCTCACTTTCTGGGTATCGATGAGACAGAT
 GTGGAACCCTGCTGCTGGATGACCTACCGGCAGCACCCGATGCTGAAGAGGCACTGGACATCTTCGAGA
 GCCCGGACGGGGCGGGGTGGCGCAGGCCCGCGCAGGCTGGAGACGATGAGCGGGAGTTGGCCTT
 GCAGCGCTGGGCCCCATGAAGGAGGCTCTGGCCCTGGTGTGGTCCGGGGTTGCCGTGGCTGGCAG
 CCCGAATGTGGGCGCTCTTCGAGGACCCGTAATCATCCCGGGCGGCCAGGGTGGTAGCCTTTGCCTCTC
 TCTTCTTCATCTTGGTCTCCATTACCACCTTCTGCCTGGAGACCCACGAGGCCTTCAACATTGACCGAAA
 TGTGACGGAGATCCACGGGTAGGGAATATCACCAGCGTGCCTTCCGGCGGGAGGTAGAAAACAGAACCC
 ATTCTTACCTACATCGAGGGCGTGTGCGTGATGTGGTTCACTCTAGAGTTCTGGTTTCGATTGTGTGCT
 GCCCTGATACGTTGGACTTTGTCAAGAACCTGCTCAACATCATCGACTTTGTGGCCATCTTGCCCTTTTA
 CCTGGAGTGAGTGGATGAGTGGCCTGTATCCAAGGCAGCTCGAGATGTGCTGGGTTTCTGCGTGTGGT
 CGCTTTGTACGCATCTGCGGATCTTCAAGCTCACACGCCACTTTGTGGGGTGGTGTGCTCGGCCACA
 CACTCCGGGCCAGCACCAACGAGTTCTGCTGCTTATCATCTTCTGGCCCTGGGTGTGCTCATCTTGC
 CACCATGATCTATTATGCTGAGCGAATCGGGGCCAGGCCATCTGACCCACGGGGCAATGACCACACCGAC
 TTCAAGAACATCCCCATCGGTTTCTGGTGGGCTGTGGTACCATGACAACGCTTGGCTATGGGGACATGT
 ATCCTAAGACATGGTCAGGAATGCTGGTGGGTGCGCTGTGTGCACTGGCTGGTGTGCTAACCATTGCCAT
 GCCTGTGCTGTATCGTCAATAACTTTGGTATGTACTACTCCCTGGCTATGGCCAAGCAGAAGCTTCCC
 AAGAAACGAAAGAAGCATGTACCACGGCCACCCAGCTTGAGTCACCCATTTACTGCAAGCTGAGGAGA
 CTTACCCCGGGACAGCACCTACAGTGACACCAGCCCCCTGCCCGGAAGAGGGTATGGTCGAGAGGAA
 ACGAGCAGACTCCAAGCAGAATGGTACGCTAATGCGGTGCTGTCCGATGAGGAGGGAGCTGGCCTCACC
 CAGCCCCCTGGCCTCGGCCCCACCCCTGAAGAGCGTCGAGCCCTGAGACGCTCAGGCACACGGGACAGAA
 ACAAGAAGGCAGCTGCCTGCTTCTGCTCAGTGTGGGGACTATGCCTGTGCTGATGGCAGTGTCCAGAA
 AGAAGGCAGTGTGAGCCGAAAGCGTGGTCCCAGTGTCTCACACCTGTGCTCTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001122776

Insert Size: 1878 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_001122776.1](#), [NP_001116248.1](#)

RefSeq Size: 2858 bp

RefSeq ORF: 1878 bp

Locus ID: 684516

UniProt ID: [Q63734](#)

Cytogenetics: 2q34

Gene Summary: This protein mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.[UniProtKB/Swiss-Prot Function]