

Product datasheet for **RN213968**

Kcna4 (NM_012971) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna4 (NM_012971) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcna4
Synonyms:	KCHAN; Kv1.4; Kv4; RHK1; RK3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213968 representing NM_012971
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGGCAATGGTGAAGTGCAGAGCTCAGGGTGCACAGCCACATGCCTTATGGTTATGCTGCC
 AGGCCAGGGCTCGAGAGAGGGAGAGACTTGCTCACTCCAGGGCAGCTGCAGCTCTGGCTGTTGCAGCTGC
 CACGGCTGCGGTGGAAGGCACTGGAGGTTCTGGTGGAGGCCCCACCATCATCATCAGACACGTGGGGCC
 TACTCCTCCCATGATCCTCAAGGAAGCCGAGGTAGTCGGAGGAGGAGGCGACAGCGAACTGAGAAGAAGA
 AACTCCACCACAGGCAGAGCAGTTCCTCATTGCTCAGACCTGATGCCAGTGGCTCTGAAGAGAAGAT
 CCTTAGGGAGCTGAGCGAGGAGGAGGAAGACGAGGAGGAGGAAGAGGAGGAGGAAGAGGAGGGAAGGTTT
 TACTATAGTGAAGAGGACCATGGGGATGGGTGTTCTACACTGACCTACTGCCACAGGATGATGGGGTG
 GCGGGCTACAGTTCAGTCCGCTACAGTGACTGTTGTGAACCGTGGTAATAAATGTGTCTGGTCTACG
 CTTCGAAACCCAAATGAAAACCTTGGCTCAGTTCCAGAACTCTGTTGGGAGACCTGAGAAGAGGACT
 CAGTACTTCGACCCTTTCGCGCAATGAGTATTTTTTGTATAGGAACCGTCCAGCTTTGATGCCATTTTGT
 ATTATTACCAGTCAGGAGGCCGCTGAAGAGGCCAGTCAATGTCCCTTTGATATCTTCACTGAGGAGGT
 GAAGTTCTATCAGTTGGGAGAGGAAGCCCTGCTCAAGTCCGTGAGGATGAGGGCTTTGTGAGAGAAGAG
 GAGGACAGGGCTCTGCCAGAAAATGAATTTAAAAACAGATTTGGCTTCTTTGAATATCCCGAGAGTT
 CCAGCCCTGCCAGGGCGATAGCCATCGTATCTGTCCTGGTCATCTTAATCTCTATTGTATATTTTGGCT
 GGAAACCTTGCCTGAGTTCAGGGATGATAGGGACCTCATATGCCCTCAGCGCAGGTGGACACAGCAGA
 TTATTGAATGACACCTCGGCACCCACCTGGAGAACTCAGGGCACACAATATTCAATGACCTTTCTTCA
 TTGTGGAGACAGTATGTATCGTGTGGTTTTCTTTGAGTTTGTGGTTCGATGCTTTGCTTGTCCAGTCA
 AGCACTTCTTCAAAAACATCATGAACATCATTGATATCGTCTCCATTTTGCCTTACTTCATCACTCTG
 GGCACCGATCTGGCCAGCAGCAGGGGGTGGCAACGGCCAGCAGCAGCAGGCTATGTCTTTGCCATCC
 TCAGGATCATCCGTCTGGTCCGAGTGTCCGGATCTTCAAGCTCTCCAGACACTCCAAGGCCTGCAGAT
 CCTGGGCCACACCCTAAGAGCCAGCATGCGTGAAGTGGGCTTCTTATCTTTTCTTCTCATCGGGGTC
 ATCCTCTTTTCCAGCGCTGTGTATTTTGCAGAGGCAGATGAACCTACCACCCATTTCCAAAGCATTCCAG
 ATGCGTTTTGGTGGGCTGTGGTAACCATGACAAGTGGGCTACGGGGACATGAAGCCCATCACAGTGGG
 AGGAAAGATTGTGGGTCCTGTGTGCCATTGCGGGTGTCTTAACCATGCTTTGCCCGTCCCGGTGATT
 GTGTCTAACTTTAACTATTTCTACCACAGAGAGACTGAAAACGAAGAACAGACCCAGCTGACCCAAAACG
 CAGTCAGTTGCCATACCTACCTTCTAATTTGCTCAAGAAATTCGGAGCTCTACTTCTTCTCCCTGGG
 GGACAAGTCAGAGTATCTAGAGATGGAAGAAGGGGTCAAGGAGTCTTTATGTGGAAGGAAGAGAAGGT
 CAGGGAAAGGGGATGACAGCGAGACAGATAAAAACAACTGTTCTAATGCAAAGGCTGTGGAGACTGATG
 TG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_012971
- Insert Size:** 1965 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_012971.2](#), [NP_037103.1](#)

RefSeq Size: 3125 bp

RefSeq ORF: 1965 bp

Locus ID: 25469

UniProt ID: [P15385](#)

Cytogenetics: 3q33

Gene Summary: voltage-gated K⁺ channel; responsible for potassium permeability in excitable membranes [RGD, Feb 2006]