

Product datasheet for **RN209019**

Kcna1 (NM_173095) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna1 (NM_173095) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcna1
Synonyms:	Kcna; Kcpvd; Kv1.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209019 representing NM_173095
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGTGATGTCAGGGGAGAATGCAGACGAGGCTTCGGCCGCTCCAGGTCACCCCAAGGATGGCAGCT
 ACCCAAGGCAGGCGGACCACGACGACCAGAATGCTGCGAGCGCGTGGTATCAACATCTCCGGGCTGCG
 CTTGAGACGCAGCTCAAGACTCTGGCCAGTTCGCCAACACGCTGCTGGCAACCCGAAGAAACGCATG
 CGTACTTTGACCCTCTGAGGAATGAGTACTTCTTTGACCGCAACCGGCCAGCTTCGATGCCATCCTTT
 ATTACTACCAGTCGGGGGGCGCCTGCGCAGGCCGGTCAACGTGCCCTGGACATGTTCTCCGAGGAGAT
 TAAATTTTACGAGTTGGGCGAGGAGGCCATGGAGAAGTTCGGGAAGATGAGGGCTTCATCAAGGAAGAG
 GAGCGCCCTACCCGAGAAGGAGTACCAGCGCCAGGTGGCTGCTCTTTGAGTATCCGGAGAGCTCAG
 GACCTGCACGGGTTATTGCCATTGTATCCGTATGGTCATCCTCATCTCCATAGTCATCTTTTGCCTGGA
 GACTCTCCCTGAGCTGAAGGATGACAAGGACTTACGGGCACCATTACCCGCATCGATAACACCACAGTC
 ATCTACACTTCTAACATCTTACAGACCCCTTCTTCATTGTGAAACCTTGTGTATCATCTGGTTCTCTT
 TTGAGCTGGTGGTGCCTTCTTCGCTGCCCAAGACAGACTTCTTTAAGAATCATGAACCTTCAT
 CGACATTTGGCCATCATCCCTTATTTACCTGGGCACAGAGATAGCTGAGCAGGAGGGGAATCAG
 AAGGGCGAGCAGGCCACTTCCCTGGCCATCCTCAGGGTATCCGCTTGGTAAGGGTGTTCAGAATCTTCA
 AACTCTCCCGCCACTCCAAGGGCCTTCCAGTCTGGGCCAGACCTCAAAGCTAGTATGAGGGAGTTAGG
 GCTGCTCATCTTTTCTTTCATTGGCGTCATACTGTTTTCTAGTGCAGTGTACTTTGCGGAGGCGGAA
 GAAGCTGAGTCGCACTTCTCCAGTATCCCGATGCTTTCTGGTGGGCGGTGGTGTCCATGACCACTGTGG
 GATACGGTGACATGTACCCTGTGACAATTGGAGGCAAGATCGTGGGCTCCTTGTGTGCCATCGCTGGTGT
 GCTGACAATTGCCCTGCCCGTACCTGTCAATTGTGTCCAATTTCAACTATTTCTACCACCGAGAACTGAG
 GGGGAAGAGCAGGCTCAGTTGCTCCATGTTAGTCTCCTAACTTAGCCTCTGACAGTGACCTCAGCCGCC
 GCAGCTCTCTACTATCAGCAAGTCTGAGTACATGGAGATCGAAGAGGACATGAACAATAGCATAGCCCA
 CTACAGGCAGGCTAATATCAGAAGTGGTAACTGCACCGCAACTGATCAAACTGCGTTAATAAGAGCAAG
 CTCCTGACCGATGTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_173095
- Insert Size:** 1488 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_173095.3](#), [NP_775118.1](#)

RefSeq Size: 1746 bp

RefSeq ORF: 1488 bp

Locus ID: 24520

UniProt ID: [P10499](#)

Cytogenetics: 4q42

Gene Summary: voltage-gated potassium channel; activation is delayed [RGD, Feb 2006]