

Product datasheet for **RN213936**

Kcnv1 (NM_021697) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnv1 (NM_021697) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnv1
Synonyms:	Kv8.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN213936 representing NM_021697
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTGTACCCCGCAACCGCCGCTTCTGGACTCGTCTCGCTGGACAGTGGCTCCCTGACCTCGC
 TGGACTCCAGCGTCTTCTGCAGCGAGGGCGAAGGGGAACCTTGGCTCTGGGGACTGCCTTACGGTCAA
 CGTGGGAGGCAGCCGCTTCTGTGCTCTCTCAGCAAGCTCTGTCTGCTTCCCGCACACGCGCTGGGCAAA
 CTGGCCGTGGTGGTGGCCTCTACCGCCGCTGGGCGCCCTGGCTGCAGCCCCAGCCCCCTGGAGCTTT
 GTGATGATGCCAACCCGGTAGACAACGAGTACTTCTCGACCGCAGCTCTCAGGCATTCCGTTATGTCT
 AACTATTATCGCACTGGCCGCTTGACGTCATGGAGCAGCTCTGTGCACTCTCCTTTCTCAGGAGATC
 CAGTACTGGGGCATCGATGAACCTCAGCATCGACTCCTGCTGCAGGGACAGATACTCAGAAGAAAGGAGC
 TGAGTGAACCTTTGACTTCAAGAAGGACACAGATGACCAGGAAAGTCAACATGAGAGTGAACAGGACTT
 CTCACAAGGACCTTGCCTACCGTCCGACAAAAGCTCTGGGATATTCTGGAGAAGCTGGGTCTCCACA
 GCAGCCCGGATCTTTGGAGTGATCTCCATCATTTTTGTGGCAGTGTCCATCGTCAACATGGCCCTGATGT
 CAGCTGAGCTAAGCTGGCTCAACCTACAGCTGCTGGAGATTTTGGAGTATGTGTGCATCAGTTGGTTTAC
 CGGGGAGTTTCTTCTGCGCTTCTGTGTGAAAGACAGGTGCCACTTCTGAGGAAGGTTCCAAACATC
 ATAGACCTCCTTGCCATCTTGCCCTTCTACATAACTCTTCTGGTGGAAAGCCTGAGCGGCAGCCACACCA
 CCCAAGAGCTGGAAAATGTAGGACGCTCTGGTCCAGGTTTTGAGGCTCCTTAGAGCTCTGCGCATGCTGAA
 GCTGGGAAGGCATTCTACAGGATTGCGCTCACTTGGGATGACAATCACCCAGTGCATGAAGAAGTCGGC
 CTACTGCTCCTGTTTCTATCTGTGGGAATTTCTATATTTTCAACAATAGAATACTTTCAGAGCAAAGCA
 TTGCTGATACAACCTTCAACAAGTGTTCCTTGTGCATGGTGGTGGCCACAACATCCATGACTACAGTAGG
 ATATGGGGACATTAGACCAGACACCAGCAGGCAAAATCGTGGCTTCATGTGTATTCTATCAGGAATC
 CTTGTCTTGGCCTTGCCTATTGCCATTATAATGATCGCTTCTCTGCTTGTATTTCACCTTGAACCTCA
 AGGAAGCAGCTGTGAGACAGCGTGAAGCTCTCAAGAAGCTTACCAAGAATATAGCCACTGACTCATACAT
 TAGTGTTAACCTGAGGGATATCTATGCCCGGAGCATCATGGAGATGCTTCGATTAAGGGCAGGGAGAGA
 GCGAGTACTAGAAGCAGTGGTGGAGATGATTTCTGTTT**TAA**

ACGGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_021697
- Insert Size:** 1512 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_021697.1](#), [NP_067729.1](#)

RefSeq Size: 2325 bp

RefSeq ORF: 1512 bp

Locus ID: 60326

UniProt ID: [P97557](#)

Cytogenetics: 7q31

Gene Summary: potassium channel alpha subunit that is able to form functional K⁺ channels by itself but can also form heteromultimeric K⁺ channels with other alpha subunits and modulate the channel properties from those seen with the parent channel [RGD, Feb 2006]