

## Product datasheet for **MC216962**

### **Kcns1 (NM\_008435) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcns1 (NM_008435) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcns1
Synonyms:	Kv9.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216962 representing NM\_008435  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGT**GAGCGAGTTTCCGGTCCAGGCTCTCGGGTCCCCTGGCGCCTAGAGACGAGGCGTGC**CGGTGA  
 ACGTGGGCGGAGTGC**GGCGGCTGCTGAGCGCGCGCCCTTGCGCGCTTCCCGGCACGCGCCTGGCCG**  
 CCTACAGCGCGCGGCGTCCGAGGAGCAGCGCGCGCCTGTGCGACGACTACGACGACGCGCGCACGAG  
 TTCTACTTTGATCGGCATCCGGGCTTCTTCTCGGCTCTACACTTCTACCGCACCGGGCACCTGCACG  
 TCCTAGACGAGCTGTGCGTCTTCGCTTTCGGCCAGGAGGCTGACTACTGGGGCTGGGCGAGAACCGCT  
 GGCCACGTGCTGCCGCGCGGTATCTGGAGCGCGTGTGGCGCGCCTCGCGCTGGGACGAGGACAGC  
 GACGCGCCGAGCAGCGTGGACCCGTGTCCGACGAGATCTCGGACGTGCAGCGGAGCTGGCGCGTATG  
 GTGCGGCTCGCTGTGGCCGCTGCGCCGTCGTCTCTGGCTCACCATGGAGAATCCAGGCTACTCGTGCC  
 CAGCAAGCTCTCAGCTCGGTATCCATCGCGTGGTGCTCGCCTCCATCGCTGCCATGTGCATCCACAGC  
 CTGCCGGAGTACCAAGCTCGGGAGGCGGCGCGCGGTGGCTGCAGTGGCCGCGGGTGCAGCGCAGAGG  
 AGGTGCGCGACGACCCGGTGTGCGCGCCTGGAGTACTTCTGCATCGCTTGGTTCAGCTTCGAGGTGTC  
 GTCGCGCTGCTGCTGGCTCCCAGCACGCGCAACTTCTTCTGCCACCCGCTCAACCTCATTGACATCGTG  
 TCGGTGCTGCCCTTCTATCTCACACTGCTGGCTGGCGCAGCGCTTGGTGACCAGCGCGGAGCCAGCGGG  
 AGGAGCTCGGGGACCTGGGCAAGGTAGTGCAAGTGTCCGCCTCATGCGCATCTTCCGCGTGTCAAGCT  
 GGCGCGCCACTCCACGGGCTGCGTTGCTGGGCGCCACGCTCAAGCACAGCTACCGTGAGGTGGGCATC  
 TTA**CTGCTGTACCTGGCCGTGGGTGTGTCAGTGTCTCCGGCGTGGCCTACACAGCCGAAGAAGAAAACG**  
 AGGGCTTTCACACAATCCCTGCCTGCTGGTGGTGGGGCACAGT**GAGCATGACCACAGTGGGCTATGGGGA**  
 TGTGGTGCCAGAGACTGTGGGTGGCAAGCTGGCGCCTCGGGCTGCATCCTCGGGGCGATCCTGGTGGTC  
 GCCCTCCCATCACCATCATCTTCAACAAGTTTTCCCACTTCTACCGGCGCCAGAAGGCACTGGAGCGG  
 CCGTGCGGAGCAGCGGT**CAGCGGAGTTT**GAGGACTTGCTGAGTAGCGTTGACGGGGTATCGGATGTGTC  
 TCTGAAACATCCCGGACACTTCTCAGGAGGGACGCTCTACAGACCTGGAGACCAAGCTCCCGGGAG  
 CCTGCAAATCTCACAGTTAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_008435

**Insert Size:** 1494 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\\_008435.2](#), [NP\\_032461.2](#)

**RefSeq Size:** 2727 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 16538

**UniProt ID:** [O35173](#)

**Cytogenetics:** 2 H3

**Gene Summary:** Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1 and KCNB2; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 and KCNB2 (PubMed:9305895).[UniProtKB/Swiss-Prot Function]