

## Product datasheet for **MC220063**

### **Kcnd1 (NM\_008423) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnd1 (NM_008423) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnd1
Synonyms:	1110037K09Rik; Kca2-; Kca2-1; Kv4.; Kv4.1; mSh; mShal1; S; Shal; Shal1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC220063 representing NM\_008423  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAGGTGTGCCACATGGCTACCATTTGCAAGGGCCGACAGTGGCTGGCTGCCCTTAGCCC  
 AGCAGCCCTACCCCTGCACCGAGGTGAAGGCATCCGAGGGGATGAGGTTCTGGTGGTGAATGTGAG  
 TGGTCGGCGCTTTGAGACCTGAAAAACACACTGGATCGTACCCAGACACATTGCTGGGAGCTCGGAG  
 AAGGAATCTTCTATGATGCTGAATCTGGCAGTACTTCTTTGATCGTGACCCAGACATGTTCCGGCAGC  
 TGCTGAACTTTTATCGCACTGGCCGGCTGCACTGCCCCAGGCAGGAGTGCATCCAGGCCTTTGATGAGGA  
 GCTGGCCTTCTATGGCTTGGTCCAGAGCTGGTTGGTACTGCTGTCTTGAAGAGTACAGGGACCGTAAG  
 AAGGAAAACGCAGAGCGCTGGCAGAAGATGAGGAGGCTGAGCAGGCCGGGAAGTCCAGCCCTCCAG  
 CAGGCAGCTCCCTGCGACAGCGACTCTGGAGGGCCTTTGAGAACCCACACGAGCACTGCAGCCCTGGT  
 TTTCTACTATGTACTGGCTTCTCATAGCTGTGTGAGTATTGCCAACGTCGTGGAGACCATCCCATGT  
 CGTGGTACCCACGATGGCCCTCAAAGAGCAGTCGTGTGGTGACCGCTTCCCTACAGCCTTTTTCTGTA  
 TGGACACAGCCTGTGACTCATATTCACAGGGGAGTACCTGCTGCGGCTCTTCGACGCCCCAGCCGTTG  
 TCGCTTCTCGGAGTGTGATGAGCCTTATCGATGTGGTGGCCATCCTACCCTACTATATTGGGCTGTT  
 GTGCCAAGAATGATGATGTCTCTGGTGCCTTTGTACCCTCCGTGTGTTCCGGGCTTCCGAATCTTCA  
 AGTTCTCCAGGCACTCGCAGGGCCTGAGGATTCTGGGCTACACCCCTCAAGAGCTGTGCCTCTGAGCTAGG  
 CTTTCTCCTCTTTCCCTCACCATGGCCATCATCATCTTTGCCACTGTGATGTTCTATGCTGAGAAGGGC  
 ACGAGCAAGACCAACTTACAAGCATCCCTGCTGCCTTCTGGTATACCATTGTCACCATGACCACACTTG  
 GGTATGGAGATATGGTACCTAGCACCATTGCAGGCAAAAATTTTGGGTCCATCTGCTCACTTAGCGGTGT  
 CTGGTCAATTGCCTTGCCTGTGCCAGTATTGTATCCAACCTTCAGCCGCATCTACCACCAGAACCAGCGT  
 GCTGACAAGCGCCGGGCACAGCAGAAAAGTGCAGCCTGGCAAGAATCCGTTTGGCAAAGAGTGTACCACCA  
 ATGCCTTCTGCAAGTATAAGCAAAATGGGGCCTCGAGGACAGTGGCAGTGGCGACGACAAATGCTGTG  
 CGTTAGGAGCCGCTCTGCTTTTGAACAACAGCATCACCATCTGCTGCATTGTCTGGAGAAGACTACGTGT  
 CACGAGTTCACAGACGAGCTAATTTTCACTGAGGCCCTTGGAGCAGTCTCACTGGGTGGTTCGACCCAGCC  
 GCAGTACCTCAGTATCATCCAACCAATGGGGCCTGGGAGCCTGTTCTCATCCTGCTGCTCTCGAAGGGT  
 CAATCGCAGAGCCATCCGCCTTGCCAACCTACTGCCTCTGTGAGCCGTGGCAGCATGCAGGAGCTAGAC  
 AACTAGCAGGTCTTCGGAGGAGCCCTGCCCTCAAACCCGCTCAAGCCTCAATGCCAAGCCCCACGACA  
 GCCTTGACCTGAACTGTGACAGCCGGGACTTCGTGGCCGCATCATCAGTATCCCCACCCCTGCCAA  
 CACGCCAGATGAAAGTCAACCTTCTCCCTAGTGGTGGTGGCGCAGTGGTGGCACACCCAACACCACT  
 CTCAGGAACTCCAGCTTGGGTAATCCGTGCCTCCTCCCTGAGACTGTCAAGATCTTCCCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_008423  
**Insert Size:** 1956 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_008423.2](#), [NP\\_032449.1](#)

**RefSeq Size:** 3815 bp

**RefSeq ORF:** 1956 bp

**Locus ID:** 16506

**UniProt ID:** [Q03719](#)

**Cytogenetics:** X 3.53 cM

**Gene Summary:** This gene encodes a multipass transmembrane protein that comprises a subunit of voltage-gated rapidly inactivating A-type potassium channels. [provided by RefSeq, May 2015]