

## Product datasheet for **MC220177**

### **Kcnd3 (NM\_019931) Mouse Untagged Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                    |
| Product Name:      | Kcnd3 (NM_019931) Mouse Untagged Clone |
| Tag:               | Tag Free                               |
| Symbol:            | Kcnd3                                  |
| Synonyms:          | AW045978; Kcnd3; Kv4.3                 |
| Vector:            | pCMV6-Entry (PS100001)                 |
| E. coli Selection: | Kanamycin (25 ug/mL)                   |
| Cell Selection:    | Neomycin                               |



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**Fully Sequenced ORF:** >MC220177 representing NM\_019931  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAGGAGTTGCAGCCTGGCTGCCTTTTGCCTGGCTGCGGCCATTGGATGGATGCCAGTGGCCA  
 ACTGCCCCATGCCCTAGCTCCAGCGGACAAGAACAAGCGGCAAGACGAGCTGATCGTCCTCAACGTAAG  
 TGGACGACGGTCCAGACCTGGAGGACCACTCTGGAGCGCTATCCCGACACCTTGTGGGTAGCACAGAG  
 AAGGAGTCTTCTCAATGAGGACACGAAGGAGTACTTCTTTGACCGTGACCCGGAAGTGTCCGTGTG  
 TGCTTAACTTCTACCGCACCGGGAAGCTGCACTACCCACGCTATGAATGCATCTCTGCCTACGACGATGA  
 ACTGGCCTTCTATGGCATCTCCCCGAGATCATCGGAGACTGCTGCTACGAGGAGTACAAAGACCGCAAG  
 CGGGAGAATGCGGAGCGGCTCATGGATGACAATGACTCTGAAAACAACCAGGAGTCCATGCCCTCTCTCA  
 GCTTCCGTGAGACCATGTGGCGGGCCTTCGAGAACCACACACCAGCACCTGGCACTGGTCTTCTACTA  
 TGTGACTGGCTTCTTATTGCCGTCTCGTTCATCACCAATGTGGTGGAGACGGTGCCTTGGCGCACCGTG  
 CCTGGGAGCAAGGAGCTGCCGTGTGGAGAGCGCTATTCGGTGGCTTTCTTTTGCCTGGACTGCCTGTG  
 TAATGATCTTACAGTGGAGTACCTCCTCCGACTCTTGGCGCACCCAGCAGATACCGCTTCATCCGCAG  
 TGTGATGAGCATTATCGACGTTGTGGCCATCATGCCCTATTACATTGGCCTGGTTCATGACCAACAATGAG  
 GACGTGTCTGGGGCATTGTGCACACTCCGGGTCTTCCGTGTCTTCCAGGATCTTCAAGTCTCCCGACATT  
 CCCAGGTCTACGGATCCTGGGTACACCCTGAAGAGCTGTGCCTCAGAAGTGGGCTTCTTCTCTTCTC  
 CCTTACCATGGCCATCATCATCTTTGCCACTGTGATGTTTTATGCTGAGAAGGGCTCCTCTGCCAGCAAG  
 TTCACAAGCATCCCTGCATCTTCTGGTACACCATAGTACCATGACTACACTGGGATATGGAGACATGG  
 TGCTAAGACAATCGCAGGGAAGATATTTGGCTCCATCTGCTCCCTCAGCGGTGTCTGGTATTGCCCT  
 GCCGGTCCCTGTGATAGTCTCCAACCTTAGCAGGATCTACCACAGAATCAGAGAGCAGATAAACGCAGG  
 GCACAAAAGAAGGCCCGCTTGGCAGGATCCGGGTGGCCAAAACGGGAAGCTCCAATGCCTACCTGCACA  
 GCAAGCGCAATGGGCTCCTCAATGAGGCCCTGGAGCTGACGGGCACCCAGAAAGAGGAGCAGATGGGCAA  
 GACCACCTCACTCATCGAGAGCCAGCACCACCCTGCTACACTGCTTAGAAAAGACCACTGGGTTATCC  
 TATCTTGTGGATGATCCCTGTTATCTGTACGAACCTCCACCATCAAGAACCATGAGTTTATTGATGAGC  
 AGATGTTTGAGCAGAAGTGCATGGAGAGCTCGATGCAGAAGTACCCTCCACCAGAAGTCTTCTCTGTC  
 CAGCCACTCGGGCTCACCACCCTGCTGCTCCCGTGTAGCAAGAAGACCACACACTGCCAACTCT  
 AACCTGCCTGCCACCCGCTGCGCAGCATGCAGGAGCTCAGCACGCTCCACATCCAGGGCAGCGAGCAGC  
 CCTCCCTCACCACAGTGCCTCCAGCCTAATTTGAAAGCAGACGATGGACTGAGACCAAACTGCAAAAC  
 ATCCCAGATTACCACGGCCATCATCAGCATCCCCACCCCCAGCTCTGACCCCGAGGGAGAAAGTCGG  
 CCACCCCTGCCAGCCAGGCCCAACACGAACATTCTTCCATAAACCAGCAATGTCGTCAAAGTCTCTG  
 CCTTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019931
- Insert Size:** 1968 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\\_019931.1](#), [NP\\_064315.1](#)

**RefSeq Size:** 1968 bp

**RefSeq ORF:** 1968 bp

**Locus ID:** 56543

**UniProt ID:** [Q9Z0V1](#)

**Cytogenetics:** 3 F2.2

**Gene Summary:** Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) lacks an alternate in-frame segment, compared to variant 1, resulting in a shorter protein (isoform 2) that has a shorter C-terminus, compared to isoform 1.