

## Product datasheet for **RN217060**

### **Kcnd3 (NM\_001270962) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnd3 (NM_001270962) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnd3
Synonyms:	Kv4.3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217060 representing NM\_001270962  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAGGAGTTGCAGCCTGGCTGCCTTTTGCCCGGCTGCGGCCATTGGGTGGATGCCAGTGCCCA  
 ACTGCCCATGCCCTAGCTCCAGCCGACAAGAACAAGCGCAAGATGAGCTAATCGTCCTCAACGTGAG  
 TGGCCGTGCGTTCAGACCTGGAGGACCACTCTGGAGCGCTATCCCGACACCCTGCTGGGTAGCACAGAG  
 AAGGAGTCTTCTTCAACGAGGACACCAAGGAGTACTTCTTTGACCGTGACCCGGAAGTGTCCGTGTG  
 TGCTCAACTTCTACCGACTGGGAAGCTGCACTACCCACGCTATGAATGCATCTCTGCCTACGACGATGA  
 GCTGGCCTTCTATGGCATCTCCCTGAGATCATTGGCGACTGCTGCTATGAGGAGTACAAAGACCGCAAG  
 CGGGAGAACGCTGAGCGGCTCATGGATGACAATGAGTCTGAGAACAACCAGGAGTCCATGCCCTCCCTCA  
 GCTTCCGCCAGACCATGTGGCGGCCCTTCGAGAACCACACACCAGCACCCCTGGCACTGGTCTTCTACTA  
 CGTGACAGGCTTCTTATTGCGGTCTCGGTGATCACCAACGTGGTGGAGACGGTGCCATGCGGCACGGTG  
 CCTGGGAGCAAGAACTGCCGTGTGGAGAGCGCTACTCCGTGGCTTTCTTCTGCCTGGCACTGCGTGTG  
 TCATGATCTTACGGTGGAGTACCTCCTCCGACTCTTCGCGGCACCCAGCAGGTACCGCTTCATCCGCAG  
 TGTGATGAGCATCATCGACGTGGTGGCCATCATGCCCTATTACATTGGCCTGGTTCATGACCAACAACGAG  
 GACGTGTCCGGGCATTTGTACACTCCGGGTCTTCCGCGTCTTCAGGATCTTCAAGTCTCCCGACATT  
 CCCAGGGCCTACGGATCCTAGGCTACACCCTGAAGAGCTGTGCCTCAGAAGTGGCTTTCTTCTTCTC  
 CCTCACCATGGCCATCATCATCTTTGCCACTGTGATGTTTTATGCTGAGAAGGGCTCCTCCGCCAGCAAG  
 TTCACAAGCATCCCTGCGTCTTTCTGGTACACCATAGTACCATGACAACACTGGGGTATGGAGACATGG  
 TGCTAAGACAATTGCTGGGAAGATATTTGGCTCCATCTGCTCCCTAAGCGGCGTCTGGTATTGCTCT  
 GCCAGTCCCGTCAAGTCTCCAACCTTAGCAGGATCTACCATCAGAACCAGAGAGCAGATAAACGCAGG  
 GCACAGAAGAAGGCCCGCTTGGCAGAATCCGTGTGGCCAAAACAGGGAGCTCCAATGCCTACCTGCACA  
 GCAAGCGCAATGGACTCCTCAATGAAGCTCTGGAGCTGACCGGCACCCAGAAAGAGGAGCACATGGGCAA  
 GACCACGTCACTCATCGAGAGCCAGCACCACCCTGCTACACTGCTTAGAAAAGACCACTGGGTTATCC  
 TATCTTGTGGATGATCCCTGTTGTCTGTACGAACCTCCACCATCAAGAACCACGAGTTTATTGATGAGC  
 AGATGTTTGAGCAGAAGTGCATGGAGAGCTCAATGCAGAAGTACCATCCACCAGAAGCCCTTCTGTGTC  
 CAGCCACTCGGGCCTCACCACCCTGCTGCTCCCGCGTAGCAAGAAGACCACGCACCTGCCAACTCC  
 AACCTGCCGGCCACCCGCTGCGCAGCATGCAAGAGCTCAGCACCATCCACATCCAGGGCAGTGAGCAGC  
 CCTCCCTCACCCTAGTCTGCTCCAGCCTAATTTGAAAGCAGACGACGGACTGAGACCAAAGTGCAAAAC  
 ATCCCAGATTACAACAGCCATCATCAGCATCCCTACTCCCCAGCTCTAACCCAGAGGGAGAAAGTCGG  
 CCACCCCTGCCAGCCAGGTCCCAACCGAACATTCTTCCATAAACCAGCAATGTTGTCAAGGTCTCTG  
 CCTTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001270962

**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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001270962.1</u> , <u>NP_001257891.1</u>
<b>RefSeq Size:</b>	6818 bp
<b>RefSeq ORF:</b>	1968 bp
<b>Locus ID:</b>	65195
<b>UniProt ID:</b>	<u>Q62897</u>
<b>Cytogenetics:</b>	2q34
<b>Gene Summary:</b>	voltage-gated K <sup>+</sup> channel that generates an A type K <sup>+</sup> current [RGD, Feb 2006] Transcript Variant: This variant (1, also known as Kv4.3L and Kv4.3c) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript was derived from the reference genome assembly. The genomic coordinates were determined from transcript alignments.