

## Product datasheet for **MR221001**

### **Kcnd3 (NM\_001039347) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnd3 (NM_001039347) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnd3
Synonyms:	AW045978; Kcnd3; Kv4.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221001 representing NM\_001039347  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCAGGAGTTGCAGCCTGGCTGCCTTTTGCCCGGCTGCGGCCATTGGATGGATGCCAGTGGCCA  
 ACTGCCCCATGCCCTAGCTCCAGCGGACAAGAACAAGCGGCAAGACGAGCTGATCGTCCTCAACGTAAG  
 TGGACGACGGTCCAGACCTGGAGGACCACTCTGGAGCGCTATCCCGACACCTTGCTGGGTAGCACAGAG  
 AAGGAGTCTTCTCAATGAGGACACGAAGGAGTACTTCTTTGACCGTGACCCGGAAGTGTCCGTTGTG  
 TGCTTAACTTCTACCGCACCGGGAAGCTGCACTACCCACGCTATGAATGCATCTCTGCCTACGACGATGA  
 ACTGGCCTTCTATGGCATCTCCCCGAGATCATCGGAGACTGCTGCTACGAGGAGTACAAAGACCGCAAG  
 CGGGAGAATGCGGAGCGGCTCATGGATGACAATGACTCTGAAAACAACCAGGAGTCCATGCCCTCTCTCA  
 GCTTCCGTGAGACCATGTGGCGGGCCTTCGAGAACCACACACCAGCACCCCTGGCACTGGTCTTCTACTA  
 TGTGACTGGCTTCTTATTGCCGTCTCGTTCATACCAATGTGGTGGAGACGGTGCCTTGGCGCACCGTG  
 CCTGGGAGCAAGGAGCTGCCGTGTGGAGAGCGCTATTCGGTGGCTTTCTTTTGCCTGGCACTGCCTGTG  
 TAATGATCTTACAGTGGAGTACCTCCTCCGACTCTTTGCGGCACCCAGCAGATACCGCTTCATCCGCGAG  
 TGTGATGAGCATTATCGACGTTGTGGCCATCATGCCCTATTACATTGGCCTGGTTCATGACCAACAATGAG  
 GACGTGTCTGGGGCATTGTGCACACTCCGGGTCTTCCGTGTCTTCCAGGATCTTCAAGTCTCCCGACATT  
 CCCAGGGTCTACGGATCCTGGGTACACCCTGAAGAGCTGTGCCTCAGAACTGGGCTTTCTTCTCTTCTC  
 CCTTACCATGGCCATCATCATCTTTGCCACTGTGATGTTTTATGCTGAGAAGGGCTCCTCTGCCAGCAAG  
 TTCACAAGCATCCCTGCATCTTCTGGTACACCATAGTACCATGACTACACTGGGATATGGAGACATGG  
 TGCTAAAGACAATCGCAGGGAAGATATTTGGCTCCATCTGCTCCCTCAGCGGTGTCTGGTATTGCCCT  
 GCCGGTCCCTGTGATAGTCTCCAACCTTTAGCAGGATCTACCACCAGAATCAGAGAGCAGATAAACGCAAG  
 GCACAAAAGAAGGCCCGCCTTGCCAGGATCCGGGTGGCCAAAACGGAAGCTCCAATGCCTACCTGCACA  
 GCAAGCGCAATGGGCTCCTCAATGAGGCCCTGGAGCTGACGGGCACCCAGAAAGAGGAGCAGATGGGCAA  
 GACCACCTCACTCATCGAGAGCCAGCACCACCCTGCTACACTGCTTAGAAAAGACCACTAACCATGAG  
 TTTATTGATGAGCAGATGTTTGAGCAGAACTGCATGGAGAGCTCGATGCAGAACTACCCCTCCACCAGAA  
 GTCCTTCTGTCCAGCCACTCGGGCCTCACCACCCTGCTGCTCCCGTCTAGCAAGAAGACCACACA  
 CCTGCCAACTCTAACCTGCCTGCCACCCGCTGCGCAGCATGCAGGAGCTCAGCAGCTCCACATCCAG  
 GGCAGCGAGCAGCCCTCCCTCACCACAGTCGCTCCAGCCTTAATTTGAAAGCAGACGATGGACTGAGAC  
 CAAACTGCAAAACATCCCAGATTACCACGGCCATCATCAGCATCCCCACCCCCAGCTCTGACCCCGGA  
 GGGAGAAAGTCGGCCACCCCTGCCAGCCAGGCCCAACACGAACATTCCTTCCATAACCAGCAATGTC  
 GTCAAGGTCTCTGCCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001039347.2](#)

**RefSeq Size:** 7182 bp

**RefSeq ORF:** 1911 bp

**Locus ID:** 56543

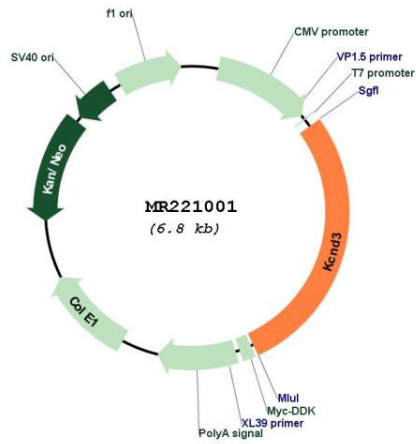
**UniProt ID:** [Q9Z0V1](#)

**Cytogenetics:** 3 F2.2

**MW:** 71.9 kDa

**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]

Product images:



Circular map for MR221001