

Product datasheet for **RN212411**

Kcnd3 (NM_031739) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnd3 (NM_031739) 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: >RN212411 representing NM_031739
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGGAGTTGCAGCCTGGCTGCCTTTTGCCCGGCTGCGGCCATTGGGTGGATGCCAGTGGCCA
 ACTGCCCCATGCCCTAGCTCCAGCCGACAAGAACAAGCGCAAGATGAGCTAATCGTCCTCAACGTGAG
 TGGCCGTCGGTCCAGACCTGGAGGACCACTCTGGAGCGCTATCCCGACACCCTGCTGGGTAGCACAGAG
 AAGGAGTCTTCTTCAACGAGGACACCAAGGAGTACTTCTTTGACCGTGACCCGGAAGTGTCCGTTGTG
 TGCTCAACTTCTACCGACTGGGAAGCTGCACTACCCACGCTATGAATGCATCTCTGCCTACGACGATGA
 GCTGGCCTTCTATGGCATCTCCCTGAGATCATTGGCGACTGCTGCTATGAGGAGTACAAAGACCGCAAG
 CGGGAGAACGCTGAGCGGCTCATGGATGACAATGAGTCTGAGAACAACCAGGAGTCCATGCCCTCCCTCA
 GCTTCCGCCAGACCATGTGGCGGCCTTCGAGAACCACACACCAGCACCCCTGGCACTGGTCTTCTACTA
 CGTGACAGGCTTCTTATTGCGGTCTCGGTGATCACCAACGTGGTGGAGACGGTGCCATGCGGCACGGTG
 CCTGGGAGCAAGAACTGCCGTGTGGAGAGCGCTACTCCGTGGCTTTCTTCTGCCTGGCACTGCCTGTG
 TCATGATCTTACGGTGGAGTACCTCCTCCGACTCTTCGCGGCACCCAGCAGGTACCGCTTCATCCGCAG
 TGTGATGAGCATCATCGACGTGGTGGCCATCATGCCCTATTACATTGGCCTGGTCAATGACCAACAACGAG
 GACGTGTCGGGGCATTGTGCACACTCCGGTCTTCCGCGTCTTCCAGGATCTTCAAGTCTCCCGACATT
 CCCAGGGCCTACGGATCCTAGGCTACACCCTGAAGAGCTGTGCCTCAGAAGTGGCTTTCTTCTTCTCTC
 CCTCACCATGGCCATCATCATCTTTGCCACTGTGATGTTTTATGCTGAGAAGGGCTCCTCCGCCAGCAAG
 TTCACAAGCATCCCTGCGTCTTTCTGGTACACCATAGTCACCATGACAACACTGGGGTATGGAGACATGG
 TGCTAAGACAATTGCTGGGAAGATATTTGGCTCCATCTGCTCCCTAAGCGGCGTCTGGTATTGCTCT
 GCCAGTCCCGTCAAGTCTCCAACCTTAGCAGGATCTACCATCAGAACCAGAGAGCAGATAAACGCAGG
 GCACAGAAGAAGGCCCGCTTGGCAGAATCCGTGTGGCCAAAACAGGGAGCTCCAATGCCTACCTGCACA
 GCAAGCGCAATGGACTCCTCAATGAAGCTCTGGAGCTGACCGGCACCCAGAAAGAGGAGCACATGGGCAA
 GACCACGTCACTCATCGAGAGCCAGCACCACCCTGCTACACTGCTTAGAAAAGACCACTAACCACGAG
 TTTATTGATGAGCAGATGTTTGGAGCAACTGCATGGAGAGCTCAATGCAGAAGTACCCATCCACCAGAA
 GCCCTTCTGTCCAGCCACTCGGGCTCACCACCCTGCTGCTCCCGCGTAGCAAGAAGACCACGCA
 CCTGCCAACTCCAACCTGCCGGCCACCCGCTGCGCAGCATGCAAGAGCTCAGCACCATCCACATCCAG
 GGCAGTGAGCAGCCCTCCCTCACCCTAGTCCGCTCCAGCCTTAATTTGAAAGCAGACGACGGACTGAGAC
 CAAACTGCAAAACACAAGACCAAGAGCAGCCAGAGGCCGAGTCGTACATGCAAAACAGGAAGAAATTAT
 AACACTGTGATT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_031739

Insert Size: 1836 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_031739.3](#), [NP_113927.2](#)

RefSeq Size: 6267 bp

RefSeq ORF: 1836 bp

Locus ID: 65195

UniProt ID: [Q62897](#)

Cytogenetics: 2q34

Gene Summary: voltage-gated K⁺ channel that generates an A type K⁺ current [RGD, Feb 2006]
Transcript Variant: This variant (3, also known as Kv4.3S and Kv4.3b) lacks an in-frame exon in the 3' coding region, and lacks a segment in the 3' coding region, which results in a frameshift compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript was derived from the reference genome assembly. The genomic coordinates were determined from transcript alignments.