

Product datasheet for **RR217060**

Kcnd3 (NM_001270962) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

**ORF Nucleotide
Sequence:**

>RR217060 representing NM_001270962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCAGGAGTTGCAGCCTGGCTGCCTTTTGGCCGGGCTGCGGCCATTGGGTGGATGCCAGTGGCCA
 ACTGCCCCATGCCCTAGCTCCAGCCGACAAGAACAAGCGGCAAGATGAGCTAATCGTCCTCAACGTGAG
 TGGCCGTGCGTTCCAGACCTGGAGGACCACTCTGGAGCGCTATCCCGACACCCTGCTGGGTAGCACAGAG
 AAGGAGTCTTCTTCAACGAGGACACCAAGGAGTACTTCTTTGACCGTGACCCGGAAGTGTTCGGTTGTG
 TGCTCAACTTCTACCGCACTGGGAAGCTGCACTACCCACGCTATGAATGCATCTCTGCCTACGACGATGA
 GCTGGCCTTCTATGGCATCTCCCTGAGATCATTGGCGACTGCTGCTATGAGGAGTACAAAGACCGCAAG
 CGGGAGAACGCTGAGCGGCTCATGGATGACAATGAGTCTGAGAACAACCAGGAGTCCATGCCCTCCCTCA
 GCTTCCGCCAGACCATGTGGCGGCCCTTCGAGAACCACACACCAGCACCCCTGGCACTGGTCTTCTACTA
 CGTGACAGGCTTCTTATTGCGGTCTCGGTGATCACCAACGTGGTGGAGACGGTGCCATGCGGCACGGTG
 CCTGGGAGCAAGGAACCTGCCGTGTGGAGAGCGCTACTCCGTGGCTTTCTTCTGCCTGGCACTGCGTGTG
 TCATGATCTTACGGTGGAGTACCTCCTCCGACTCTTCGCGGCACCCAGCAGGTACCGCTTCATCCGCAG
 TGTGATGAGCATCATCGACGTGGTGGCCATCATGCCCTATTACATTGGCCTGGTTCATGACCAACAACGAG
 GACGTGTCCGGGGCATTGTGCACACTCCGGGTCTTCCGCGTCTTCAGGATCTTCAAGTCTCCCGACATT
 CCCAGGGCCTACGGATCCTAGGCTACACCCTGAAGAGCTGTGCCTCAGAAGTGGCTTTCTTCTTCTTCTC
 CCTCACCATGGCCATCATCATCTTTGCCACTGTGATGTTTTATGCTGAGAAGGGCTCCTCCGCCAGCAAG
 TTCACAAGCATCCCTGCGTCTTCTGGTACACCATAGTACCATGACAACACTGGGGTATGGAGACATGG
 TGCTAAGACAATTGCTGGGAAGATATTTGGCTCCATCTGCTCCCTAAGCGGCGTCTGGTCAATGCTCT
 GCCAGTCCCGTCATAGTCTCCAACCTTAGCAGGATCTACCATCAGAACCAGAGAGCAGATAAACGCAGG
 GCACAGAAGAAGGCCCGCCTTGCCAGAATCCGTGTGGCCAAAACAGGGAGCTCCAATGCCTACCTGCACA
 GCAAGCGCAATGGACTCCTCAATGAAGCTCTGGAGCTGACCGGCACCCAGAAAGAGGAGCACATGGGCAA
 GACCACGTCACTCATCGAGAGCCAGCACCACCCTGCTACACTGCTTAGAAAAGACCACTGGGTTATCC
 TATCTTGTGGATGATCCCTGTTGTCTGTACGAACCTCCACCATCAAGAACCACGAGTTTATTGATGAGC
 AGATGTTTGAGCAGAAGTGCATGGAGAGCTCAATGCAGAAGTACCATCCACCAGAAGCCCTTCTGTGTC
 CAGCCACTCGGGCCTCACCACCCTGCTGCTCCCGCGTAGCAAGAAGACCACGCACCTGCCAACTCC
 AACCTGCCGGCCACCCGCTGCGCAGCATGCAAGAGCTCAGCACCATCCACATCCAGGGCAGTGAGCAGC
 CCTCCCTCACCCTAGTCGCTCCAGCCTTAATTTGAAAGCAGACGACGGACTGAGACCAAAGTGCAAAAC
 ATCCCAGATTACAACAGCCATCATCAGCATCCCTACTCCCCAGCTTAACCCAGAGGGAGAAAGTCGG
 CCACCCCTGCCAGCCAGGTCCCAACCGAACATTCTTCCATAAACCAGCAATGTTGTCAAGGTCTCTG
 CCTTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217060 representing NM_001270962
Red=Cloning site Green=Tags(s)

MAAGVAAWLPPARAAAIGWMPVANCPMPLAPADKNKRQDELIVLNVSGRRFQWTWRTTLERYPDTLLGSTE
 KEFFFNEDTKEYFFDRDPEVFRVCLNFYRTGKLYHPRYECISAYDDELAFYGLPEIIGDCCYEEYKDRK
 RENAERLMDDNESENQESMPSLSFRQTMWRAFENPHTSTLALVFYYVTGFFIAVSVITNVVETVPCGTV
 PGSKELPCGERYSVAFFCLDTACVMIFTVEYLLRLFAAPSRYRFRIRSVMSIIDVVAIMPYYIGLVMTNNE
 DVSGAFVTLRVFRVFRIFKFSRHSQGLRILGYTLKSCASELGFLFLSLTMAIIFATVMFYAEKGSASK
 FTSIPASFWYITVMTTLGYGDMVPKTIAGKIFGSICSLSGVLVIALPVPVIVSNFSRIYHQNRADKRR
 AQKKARLARIRVAKTGSSNAYLHSKRNLLEALELTGTPEEHMGKTTSLIESQHHLLHCLEKTTGLS
 YLVDDPLL SVRTSTIKNHEFIDEQMFEQNCMESSM QNYPSTRSPSLSSHGLTTTCCSRRSKKTTHLPNS
 NLPATRLRSMQELSTIHIQGEQPSLTTSRSSLNLKADDGLRPNCKTSQITTAIISIPTPALTPEGESR
 PPPASPGPNTNIPSITSNVVKVSAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001270962

ORF Size: 1965 bp

OTI Disclaimer: 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_001270962.1](#), [NP_001257891.1](#)

RefSeq Size: 6818 bp

RefSeq ORF: 1968 bp

Locus ID: 65195

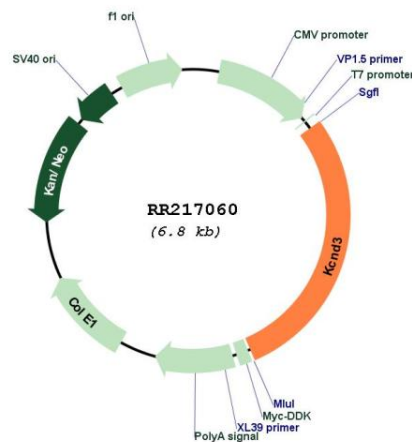
UniProt ID: [Q62897](#)

Cytogenetics: 2q34

MW: 73.5 kDa

Gene Summary: voltage-gated K⁺ channel that generates an A type K⁺ current [RGD, Feb 2006]

Product images:



Circular map for RR217060