

Product datasheet for **RN207158**

Kcnd2 (NM_031730) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnd2 (NM_031730) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnd2
Synonyms:	Kv4.2; RK5; Shal1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207158 representing NM_031730
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCGGTGTTCAGCATGGTACCCTTTGCCAGGGCAGCCGCCATTGGGTGGATGCCTGTTGCCT
 CCGGGCCTATGCCAGCTCCCCAAGGCAGGAGAGAAAAAGGACTCAGGACGCTCTAATTGTGCTGAACGT
 GAGTGGCACCCGTTTCCAGACATGGCAAGACACCTGGAACGATACCCAGACACTCTGCTGGCAGTTCC
 GAGAGAGACTTTTTCTACCACCCAGAGACCCAACAATATTTCTTTGACCGTGACCCAGACATCTCCGCC
 ACATCCTCAACTTCTACCGCACGGGAAGCTTCACTATCCCCGCCATGAGTGCATCTCGGCTTATGATGA
 AGAATTGGCCTTCTTTGGCCTCATCCAGAAATATTGGCGACTGCTGTTATGAGGAGTACAAGGACCGC
 AGGCGGGAGAATGCAGAGCGCTCCAGGATGATGCAGACACTGACAATACAGGAGAGAGTCTGCCCCA
 CCATGACTGCTAGGCAGAGGGTCTGGAGGGCCTTTGAGAACCCACACCAGCACCATGGCCTGGTGT
 CTACTATGTGACCGGGTCTTCATTGCCGTCTCAGTCATCGGAATGTGGTGGAAACAGTCCATGTGGG
 TCTAGCCAGGCCACATAAAAGAACTGCCTTGTGGGAAAGGTATGCAGTGGCCTTCTTCTGCTTGATA
 CCGCCTGTGCATGATCTTTACGGTTGAGTACTTGTACGCCTGGCCGACGCGCCTAGTCGTTACCGTTT
 TGTGCGCAGTGCATGAGTATCATCGATGTGGTGGCCATCTACCTATTACATTGGGCTGGTATGACA
 GACAATGAGGATGTCAGTGGCGCCTTTGTCACTCCGAGTCTTTCGAGTCTTCAGGATCTTTAAGTTTT
 CCCGCCACTCTCAAGGCCTGCGTATACTGGGGTACACACTGAAGAGCTGTGCGTCAGAAGTGGGCTTCT
 GCTCTTTCCCTCAATGGCTATCATATTTTCGCTACGGTTATGTTCTACGCAGAGAAGGGCTCTTCA
 GCAAGCAAGTTCACCAGCATCCCTGCAGCCTTCTGGTACACCATCGTACCATGACAACACTGGGGTATG
 GCGCATGGTACAAAAACCATAGCAGGGAAGATTTTCGGTCTATCTGCTCTCTGAGCGGAGTCTTGGT
 CATCGCGCTACCGTGCCTGTGATCGTGTCTAACTTCAGTCGGATCTACCACAAAACCAACGAGCGGAC
 AAACGAAGGGCACAGAAGAAAGCGAGGCTGGCCAGGATCCGGGCAGCAAAAGTGAAGTCAAATGCCT
 ACATGCAGAGCAAGCGGAATGGGTTACTGAGCAACCAACTGCAGTCTCGGAGGATGAACCGGCCTTCGT
 TAGCAAATCTGGATCCAGCTTCGAGACACAACACCACCACCTGCTTCACTGCCTGGAGAAAACACGAA
 CATGAGTTTGGATGAACAAGTCTTTGAAGAAAGCTGCATGGAAGTGGCCACTGTTAATCGCCCTTCAA
 GTCACAGCCCCTCCCTCTCTTCCCAACAAGGAGTACCAGCACTGCTGCTCACGGAGACAAAAAAAC
 TTTCCGAATCCCAATGCCAATGTGTGAGGAAGTATAGAGGCAGCGTGAAGAAGTCACTACAATTCAG
 ATCAGATGTGTGGAGAGAACTCCACTATCCAACAGCCGATCCAGCTTAAATGCCAAAATGGAAGAGTGTG
 TCAAATAAAGTGTGAACAACCTTACGTGACCACAGCAATAATTAGCATTCCAACACCTCCAGTAACCAC
 CCCAGAAGGGCAGCAGAGCCCGAGTCTCTGAGTATTCGGGAGGAAACATCGTCAGGGTGTCTGCTTTG
 TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031730
- Insert Size:** 1893 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_031730.2](#), [NP_113918.2](#)

RefSeq Size: 4018 bp

RefSeq ORF: 1893 bp

Locus ID: 65180

UniProt ID: [Q63881](#)

Cytogenetics: 4q22

Gene Summary: a potassium channel responsible for transient outward K⁺ currents in cardiomyocytes [RGD, Feb 2006]