

Product datasheet for **RR210633**

Kcns2 (NM_023966) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns2 (NM_023966) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcns2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR210633 representing NM_023966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCCGCCAGAGCCTGTGGACCTGTCTGAGACCGACGTCGAGGATGGAGAGATCCGAATCAATGTAG
 GCGGCTTCAAGAGACGGCTGCGTCCCACACGCTGCTGCGCTCCCTGAGACACGCTGGCCGCTGCT
 CCTCTGCCACTCGAGAGAGGCCATTCTGGAACCTGCGATGACTACGACGATGTCCAGCGTGAGTCTAC
 TTCGACCGTAACCCTGAGCTCTTCCCCTACGTGTTGCATTTCTACCACACCGGAAGCTCCATGTATGG
 CCGAGCTGTGCGTCTTCTCCTCAGCCAGGAGATCGAGTACTGGGGTATCAACGAGTTCTTTATTGACTC
 TTGCTGCAGCTACAGCTATCACGGCCGAAAGTGAACCTGAGCAGGAGAAGTGGGACGAGCAGAGTGAC
 CAGGAAAGCACTACTTCTCCTTCGACGAGATCTTAGCCTTCTATAATGATGCTTCCAAGTTCGATGGGC
 AACCCCTGGGCAACTCCGCAGGACGCTGTGGTGGCGTTGGATAACCCGGGCTACTCAGTCTGAGCAG
 GGTCTTACAGCTCTTTCCATCTTGGTGGTGTGGGCTCCATCATCACCATGTGCCTCAACAGCCTGCCA
 GACTTCCAGATCCCCGATAGCCAGGGTAACCCCTGGCGAAGACCCAGGTTTCGAAATCGTGGAGCACTTTG
 GCATTGCCTGGTTCACGTTTGGTGGCCAGGTTTCGCTGTGGCCCTGACTTTCTCAAGTTCTTCAA
 GAATGCCCTAAACCTTATTGACCTCATGTCCATTGTCCGTTTTACATAACTCTAGTGGTGAACCTGGT
 GTGGAGAGTTCGCTACCTTGGCTAACTTGGGCAGGGTGGCTCAAGTCTGAGGCTGATGAGAATCTTCC
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 GGAAGTGGGGTTGCTCTTGTCTACCTCTCGGTGGGGATTCCATCTTCTGTGGTGGCCTACACCATT
 GAAAAGGAAGAGAACGAGGGCCTGGCCACCATTCTGCCTGCTGGTGGTGGGCCACGGTCAGCATGACTA
 CCGTTGGGTATGGAGACGTGGTCCAGGGACACAGCTGGGAAGCTGACTGCCTCTGCCTGATCTTGGC
 AGGTATCCTGGTGGTCTTGGCCATCACTTTGATCTTCAATAAGTTCTCCCACTTTTATCGGGCCAG
 AAGCAACTTGAGAGCGCCATGCGCAGCTGTGACTTTGGGATGGAATGAAGGAGGTCCCCTCCGTAATT
 TAAGGGACTACTATGCTCATAAAGTTAAGTCCCTCATGGCAAGCCTGACAAATATGAGTAGGAGTTCACC
 CAGTGAAGTGGTTAGACGACTCTCTACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RR210633 representing NM_023966
 Red=Cloning site Green=Tags(s)

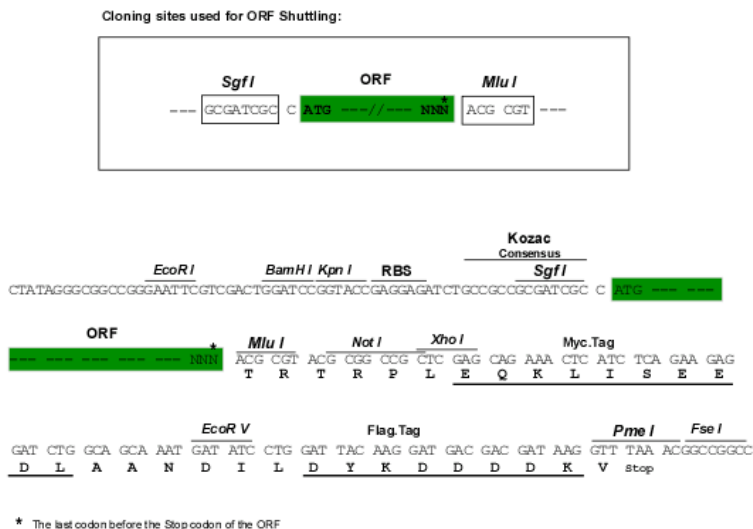
MTRQSLWDLSETDVEDGEIRINVGGFKRRLRSHTLLRFPETRLGRLLLCHSREAILELDDYDDVQREFY
 FDRNPELFPYVLHFYHTGKLVHMAELCVFSFSQEIYWGINEFFIDSCCSYSHGRKVEPEQEKWDEQSD
 QESTTSSFDEILAFYNDASKFDGQPLGNFRRQLWLALDNPYSVLSRVFVLSILVVLGSIITMCLNSLP
 DFQIPDSQGNPGEPRFEIVEHFGIAWTFELVARFAVAPDFLKFFKNALNLDLMSIVPFYITLVVNLV
 VESSPTLANLGRVAQVLRMLRIFRILKLARHSTGLRSLGATLKYSYKEVGLLLLVLVSVGISIFSVVAYTI
 EKEENEGLATIPACWWWATVSMTTVGYGDVVPPTAGKLTASACILAGILVVVLPITLIFNKFSHFYRRQ
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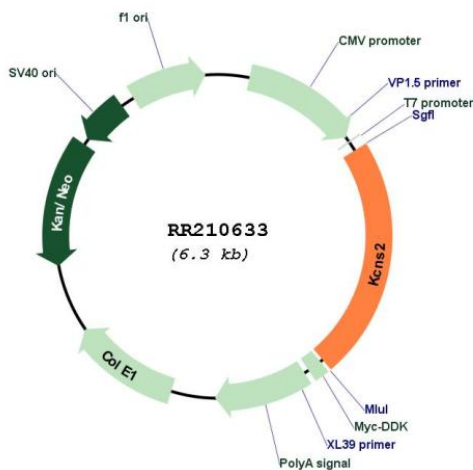
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_023966

ORF Size: 1431 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_023966.1](#), [NP_076456.1](#)

RefSeq Size: 1660 bp

RefSeq ORF: 1434 bp

Locus ID: 66022

UniProt ID: [Q9ER26](#)

Cytogenetics: 7q22

MW: 54.3 kDa

Gene Summary: human homolog is a alpha subunit of a delayed-rectifier potassium channel [RGD, Feb 2006]