

Product datasheet for **MR230108**

Kcns2 (NM_001271704) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns2 (NM_001271704) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcns2
Synonyms:	E130006J24Rik; Kv9.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230108 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCCGCCAGAGCCTGTGGGATGTGTCCGATACCGACGTCGAGGATGGAGAGATCCGCATCAATGTGG
 GTGGCTTCAAGAGACGGCTGCGTCCCATACGCTGCTGCGCTCCCTGAGACACGCTGGGCCGTCTGCT
 CCTCTGCCACTCGCGAGAGGCCATTCTGGAACCTGCGATGACTACGATGACGTTTCAGCGTGAGTTCTAC
 TTCGACCGTAACCCCGAGCTCTCCCTATGTGTTGCATTTCTACCACACCGCAAGCTTACGTCATGG
 CTGAGCTGTGCGTCTTCTCCTTCAGCCAGGAGATCGAGTACTGGGGTATCAATGAGTTCTTCATCGACTC
 TTGCTGCAGCTATAGCTATCACGGCCGAAAGTGAACCTGAGCAGGAGAAATGGGACGAGCAGAGTGAC
 CAGGAAAGCACCCTTCTCCTTCGATGAGATCTTGGCCTTCTATAATGATGCTTCCAAGTTCGATGGGC
 AACCCCTGGGCAACTCCCGAGGACGCTGTGGCTGGCGTTGGACAACCCAGGCTACTCAGTCTAAGCAG
 GGTCTTCAGTGTCTTTCCATCTTGGTGGTGTGGGCTCCATCATCACCATGTGCCTCAATAGCCTGCCA
 GACTTCCAAATCCCTGATAGCCAGGGTAACCCCGTGAAGACCCAGGTTGCGAAATTGTGGAGCACTTTG
 GCATTGCTTGTTTACATTTGAGTTGGTGGCCAGGTTTGTGTGGCCCTGACTTCTTAAAGTTCTTCAA
 GAATGCTCTAAACCTTATTGATCTCATGTCCATTGTCCATTTTACATAACTCTAGTGGTGAACCTGGTG
 GTGGAGAGTTCTCCTACCTTGGCTAACTTGGGCAGGGTGGCTCAAGTCTGAGGCTAATGAGGATCTTCC
 GAATTCTCAAGCTGGCCAGACACTCCACTGGCCTCCGCTCCTTGGGAGCCACCCTGAAGTACAGTACAA
 GGAAGTGGGGTTGCTCTTGCTCTACCTCTCAGTGGGGATTCCATCTTCTGTGGTGGCCTACACCATT
 GAAAAGGAGGAGAACAAGGCCCTGGCCACCATCCCTGCCTGCTGGTGGTGGGCCACTGTCAGTATGACCA
 CAGTTGGGTACGGAGATGTGGTCCAGGACAACAGCTGGGAAGTTGACTGCCTCTGCCTGCTTGGC
 AGGCATCCTGGTGGTGGTCTTGCCCATCACTTTGATCTTCAATAAGTTCTCCATTCTATCGGCGCCAA
 AAGCAACTTGAGAGTGCTATGCGCAGCTGTGACTTTGGAGATGGAATGAAAGAGGTCCCTTCGGTCAATT
 TAAGGGACTACTATGCTCATAAAGTTAAGTCCCTCATGGCAAGTCTGACAAACATGAGTAGGAGTTCACC
 TAGTGAAGTGAAGTTAGATGATTCTCTACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230108 protein sequence
 Red=Cloning site Green=Tags(s)

MTRQSLWDVSDTDVEDGEIRINVGGFKRRLRSHTLLRFPETRLGRLLLCHSREAILELCDDYDDVQREFY
 FDRNPELFPYVLHFYHTGKLVHMAELCVFSFSQIEIYWGINEFFIDSCCSYSHGRKVEPEQEKWDEQSD
 QESTTSSFDEILAFYNDASKFDGQPLGNFRRQLWLALDNPYVLSRVFVLSILVVLGSIITMCLNSLP
 DFQIPDSQGNPGEPRFEIVEHFGIAWTFELVARFAVAPDFLKFKNALNIDLMSIVPFYITLVVNLV
 VESSPTLANLGRVAQVLRMRIFRILKLARHSTGLRSLGATLKYSYKEVGLLLL YL SVGISIFS VVAYTI
 EKEENEGLATIPACWWWATVSMTTVGYGDVVPGTAGKLTASACILAGILVVLPITLIFNKFSHFYRRQ
 KQLESAMRSCDFGDGMKEVPSVNLRDYYAHKVKSLMASLTNMSRSPSELSDDSLH

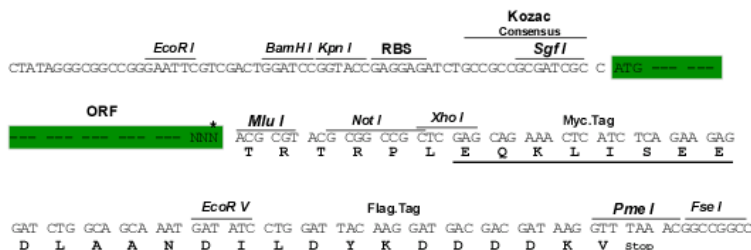
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271704

ORF Size: 1434 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_001271704.1](#), [NP_001258633.1](#)
RefSeq Size: 5105 bp

RefSeq ORF: 1434 bp

Locus ID: 16539

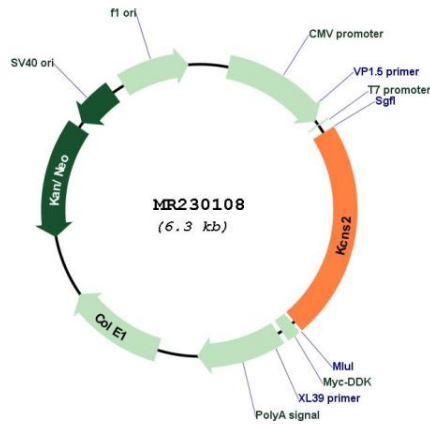
UniProt ID: [O35174](#)

Cytogenetics: 15 B3.1

MW: 54.3 kDa

Gene Summary: Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1 and KCNB2; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 and KCNB2 (PubMed:9305895).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230108