

Product datasheet for **MR202855**

Kcnmb2 (NM_028231) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnmb2 (NM_028231) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnmb2
Synonyms: 2700049B16Rik; 3110031N04Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202855 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTATATGGACCACTGGCCGGACCTCTTCATCTTACAGACAGGACGAGAAAAGAAATATCTACCAGA
AAATCAGGGACCATGACCTCCTGGACAAAAGGAAAAGTGTGACAGCTCTGAAGGCTGGGGAGACCGGGC
CATCCTGCTCGGCCTGGCCATGATGGTGTGCTCCATCATGATGTACTTCTGCTGGGAATCACACTGCTG
CGCTCCTACATGCAGAGCGTGTGGACAGAAGAAGCCAGTGTGCCCTGCTGAATGTGTCAATCACAGAAA
CGTTTAACTGTTCTTCAGCTGTGGGCCGACTGTTGGAAGCTCTCTCAGTACCCTTGCCTGCAGGTGTA
CGTGAACCTGACATCTTCCGGGGAGAGGCTCCTCCTCTACCACACGGAAGAGACCATGAAGATCAATCAA
AAGTGCTCCTATATTCCTAAGTGTGAAACAACCTTTGAGGAGTCCATGTCTCTCGTGAGTGTGTCATCGG
AAAACCTCAGGAGACCAACACTTCCCCTGCTATTCTGACCCAGAAGGAAACCAGAAGAGTGTGTCATCCT
GACCAAACCTACAGCTCCAATGTGCTGTTCCATTCTCTTCTGCGCAACTTGTATGATGGCTGGGGGT
GTGGCAATCGTTGCTATGGTAAACTAAGTCACTCAGTACCTCTCCCTGCTTTGTGAGAGGATCCAACGGATCA
ACAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202855 protein sequence
 Red=Cloning site Green=Tags(s)

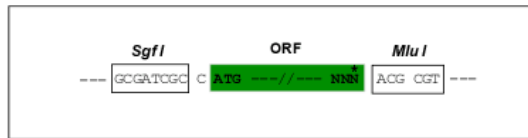
MFIWTSGR TSSSYRQDEKRNIYQKIRDHLLDKRKTVTALKAGEDRAILLGLAMMVCSIMMYFLLGITLL
 RSYMQSVWTEEAQCALLNVSITETFNCSFSCGPDCWKL SQYPCLQYVNL TSSGERLLL YHTEETMKNIQ
 KCSYIPKCGNNFEESMSLVSVVMENFRRHQHFPCYSDPEGNQKSVILTKLYSSNVLHSLFWPTCMMAGG
 VAIVAMVKLTQYLSLLCERIQRINR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028231

ORF Size: 708 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_028231.2](#), [NP_082507.1](#)

RefSeq Size: 2947 bp

RefSeq ORF: 708 bp

Locus ID: 72413

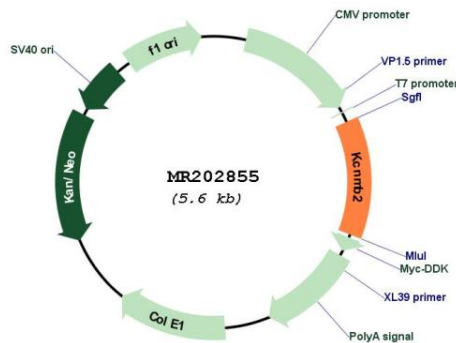
UniProt ID: [Q9CZM9](#)

Cytogenetics: 3 A3

MW: 27.1 kDa

Gene Summary: Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Acts as a negative regulator that confers rapid and complete inactivation of KCNMA1 channel complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202855