

Product datasheet for RR211613

Kcnmb1 (NM_019273) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnmb1 (NM_019273) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnmb1
Synonyms: BKbeta; BKbeta1; k(VCA)beta-1; slo-beta; slo-beta-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211613 representing NM_019273
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAGAAGCTGGTATGGCCAGAAGCGCGGAGAGACTCGAGCCCTCTGCCTGGGGTGGCGATGG
TCGTGTGTGCCCATCACTTACTACATCTGGGTACCACTGTGCTGCCCTCTACCAGAAAAGTGTGTG
GACCCAGGAATCCACCTGTCACCTGGTTGAAACCAACATCAAGGACCAGGAAGAGCTGGAGGCAGGAAG
GTGCCCAAGTACCATGCCTTTGGGTCAATGTATCAGCTGTGGCAGATGGCCATGCTGTATCACACAG
AAGACTCGGGATCAAACCAACAGTGCCTCTATATCCCAGGAACCTGGACAACCTACCAGACAGCCTT
GGTTGATGTGAAGAAGGTGAGAGCAATTTCTACAAACACCATAATTTCTATTGCTTTTCTGCACCTCAA
GTCAATGAGACAGTGTGTGTACCAGCGCCTCTATGGGCCCCAAATCCTCCTCTCTCCTTCTTCTGGC
CCACCTTCTGCTGACTGGTGGCCTTCTTATCATTGCCATGGTAAAGCTCAACAGTCCCTCTGTCTT
GGCAGCTCAGAAG

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211613 representing NM_019273
Red=Cloning site Green=Tags(s)

MGKKLVMAQKRGETRALCLGVAMVVCAAITYYILGTTVLPLVYQKSVWTQESTCHLVETNIKDQEELEGRK
VPQYPCLVWVNSAVGRWAML YHTEDTRDQNCQCSYIPRNL DNYQTALVDVKKVRANFYKHHNFYCFSA PQ
VNETSVVYQRLYGPQILLF SFFWPTFLLTGGLLI IAMVKLNRSLSVLA AQK

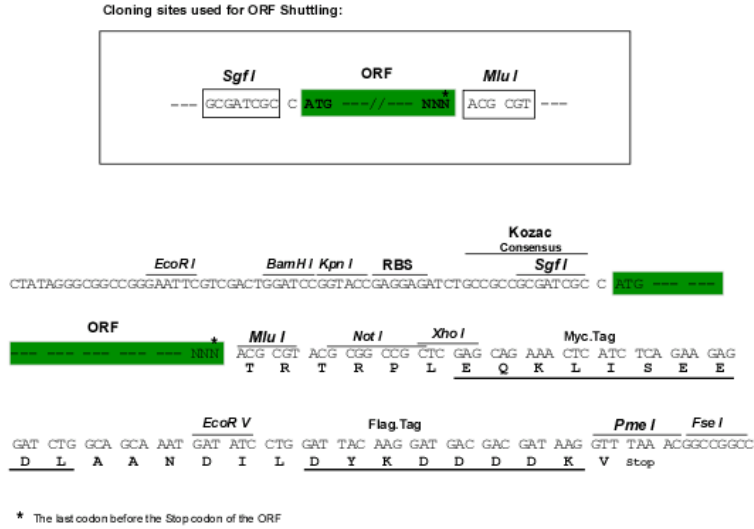
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

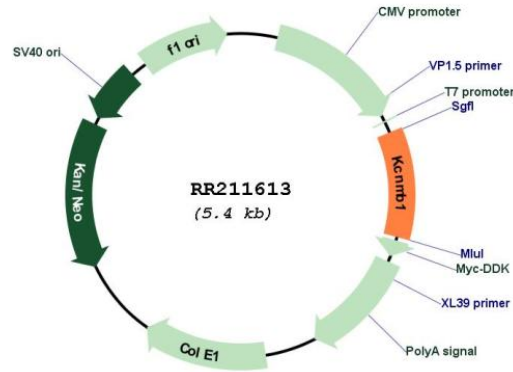


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Cloning Scheme:



Plasmid Map:



ACCN: NM_019273

ORF Size: 573 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_019273.1](#), [NP_062146.1](#)

RefSeq Size: 1278 bp

RefSeq ORF: 576 bp

Locus ID: 29747

UniProt ID: [P97678](#)

Cytogenetics: 10q12

MW: 21.9 kDa

Gene Summary: modulatory subunit of the MaxiK large conductance potassium channel; voltage and calcium-sensitive potassium channel [RGD, Feb 2006]