

Product datasheet for **RC222841**

KCNMB2 (NM_181361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB2 (NM_181361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNMB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222841 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTATATGGACCAGTGGCCGACCTCTTCATCTTATAGACATGATGAAAAAGAAATATTTACCAGA
AAATCAGGGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGACCAGC
TATTCTCCTGGGACTGGCTATGATGGTGTGCTCCATCATGATGTATTTCTGCTGGGAATCACACTCCTG
CGCTCATACATGCAGAGCGTGTGGACCGAAGAGTCTCAATGCACCTTGCTGAATGCGTCCATCACGGAAA
CATTTAACTGCTCCTTCAGCTGTGGTCCAGACTGCTGAAAATTTCTCAGTACCCCTGCCAGGTGTA
CGTTAACCTGACTTCTTCCGGGGAAAAGCTCCTCCTACCACACAGAAGAGACAATAAAAAATCAATCAG
AAGTGCTCCTATATACCTAAATGTGAAAAAATTTGAAGAATCCATGTCCTGTTGAATGTTGTCATGG
AAAACCTCAGGAAGTATCAACACTTCTCCTGCTATTCTGACCCAGAAGGAAACCAGAAGAGTGTATCCT
AACCAAACCTACAGTTCCAACGTGCTGTTCCATTCACTCTTCTGGCCAACCTGTATGATGGCTGGGGT
GTGGCAATTGTTGCCATGGTGAACCTTACACAGTACCTCTCCCTACTATGTGAGAGGATCCAACGGATCA
ATAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_181361.3](#)

RefSeq Size: 2698 bp

RefSeq ORF: 708 bp

Locus ID: 10242

UniProt ID: [Q9Y691](#)

Cytogenetics: 3q26.32

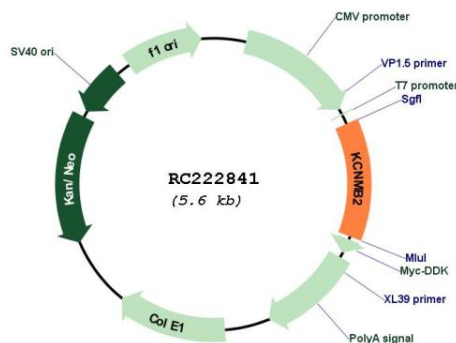
Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways: Vascular smooth muscle contraction

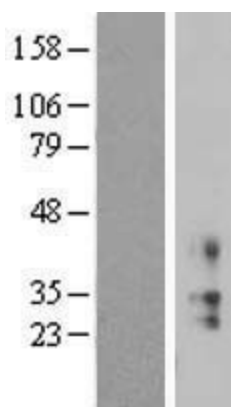
MW: 27.1 kDa

Gene Summary: MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which decreases the activation time of MaxiK alpha subunit currents. Alternative splicing results in multiple transcript variants of this gene. Additional variants are discussed in the literature, but their full length nature has not been described. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC222841



Western blot validation of overexpression lysate (Cat# [LY405752]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222841 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).