

Product datasheet for **RG202318**

KCNMB4 (NM_014505) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNMB4 (NM_014505) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNMB4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202318 representing NM_014505
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAGCTCCGGGTGGCTTACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTC
TCATCATCTCCGGCGTCGTGTCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGTGCAGGATCT
GCAAGCCACGGAGGCCAATTGCACGGTGTGTCGGTGCAGCAGATCGGCGAGGTGTTTCGAGTGCACCTTC
ACCTGTGGCGCCGACTGCAGGGGCACCTCGCAGTACCCCTGCGTCCAGGTCTACGTGAACAACCTGAGT
CCAACTAGGGCGTGTGTCACAGCGACGAGCACCAGTCCCTGACCAACCCCAAGTCTCCTATATCCC
TCCTGTAAAGAGAGAAAATCAGAAGAATTTGAAAGTGTATGAATTGGCAACAGTACTGGAAAGATGAG
ATTGGTCCCAGCCATTTACTTGCTATTTTAATCAACATCAAAGACCAGATGATGTGCTTCTGCATCGCA
CTCATGATGAGATTGTCCTCCTGCATTGCTTCTCTGGCCCTGGTGACATTTGGTGGGCGTTTCAT
TGTGGTCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAGGCGGAAGCCATGAAGAAGCGCAAGTCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202318 representing NM_014505
Red=Cloning site Green=Tags(s)

MAKLRVAYEYEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFECTF
TCGADCRGTSQYPCVQVYVNNSESNRALLHSDEHQLLTNPKCSYIPPCRENQKNLESVMNQQYWKDE
IGSQPFTCYFNQHQPDDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVLITICAKSLAVKAEAMKKRKF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_014505

ORF Size: 630 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.

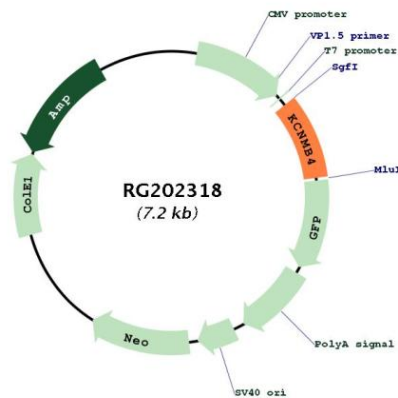
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_014505.6
RefSeq Size:	1631 bp
RefSeq ORF:	633 bp
Locus ID:	27345
UniProt ID:	Q86W47
Cytogenetics:	12q15
Domains:	CaKB
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Vascular smooth muscle contraction
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 slows activation kinetics, leads to steeper calcium sensitivity, and shifts the voltage range of current activation to more negative potentials than does the beta 1 subunit. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202318