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Product datasheet for SC334680

KCNMB2 (NM_001278911) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: KCNMB2 (NM_001278911) Human Untagged Clone

Tag: Tag Free

Symbol: KCNMB2

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001278911, the custom clone sequence may differ by one or more nucleotides

ATGTTTATATGGACCAGTGGCCGGACCTCTTCATCTTATAGACATGATGAAAAAAGAAATATTTACCAGA
AAATCAGGGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGGACCGAGC
TATTCTCCTGGGACTGGCTATGATGGTGTGCTCCATCATGATGTATTTTCTGCTGGGAATCACACTCCTG
CGCTCATACATGCAGAGCGTGTGGACCGAAGAGTCTCAATGCACCTTGCTGAATGCGTCCATCACGGAAA
CATTTAATTGCTCCTTCAGCTGTGGTCCAGACTGCTGGAAACTTTCTCAGTACCCCTGCCTCCAGGTGTA
CGTTAACCTGACTTCTTCCGGGGAAAAGCTCCTCCTCTACCACACAGAAGAGACAATAAAAATCAATCAG
AAGTGCTCCTATATACCTAAATGTGGAAAAAATTTTGAAGAATCCATGTCCCTGGTGAATGTTGTCATGG
AAAACTTCAGGAAGTATCAACACTTCTCCTGCTATTCTGACCCAGAAGGAAACCAGAAGAGTGTTATCCT
AACAAAACTCTACAGTTCCAACGTGCTGTTCCATTCACTCTTCTGGCCAACCTGTATGATGGCTGGGGGT
GTGGCAATTGTTGCCATGGTGAAACTTACACAGTACCTCTCCCTACTATGTGAGAGGATCCAACGGATCA
ATAGATAA

Restriction Sites: SgfI-MluI

ACCN: NM_001278911

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

View online »

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_001278911.1, NP_001265840.1

RefSeq Size: 2569 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

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]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.