

Product datasheet for **SC123933**

KCNMB3 (NM_171829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB3 (NM_171829) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNMB3
Synonyms:	BKBETA3; HBETA3; K(VCA)BETA-3; KCNMB2; KCNMBL; SLO-BETA-3; SLOBETA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_171829, the custom clone sequence may differ by one or more nucleotides

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ATGACAGCCTTTCCTGCCTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGC
ACAAGAGGCTGCCATCCAGTGCTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTTCTC
AGTCCTAATGTTCTTCTTGCTCGGAACAACCACTTCTAAAGCCTTTTATGCTCAGCATTGAGAGAGAAGAA
TCGACCTGCACTGCCATCCACACAGATATCATGGACGACTGGCTGGACTGTGCCTTACCTGTGGTGTGC
ACTGCCACGGTCAGGGGAAGTACCCGTGCTTTCAGGTGTTTGTGAACCTCAGCCATCCAGGTCAGAAAGC
TCTCCTACATTATAATGAAGAGGCTGTCCAGATAAATCCCAAGTGCTTTTACACACCTAAGTGCCACCAA
GATAGAAATGATTGCTCAACAGTGCTCTGGACATAAAAAGATTCTTCGATCACAAAAATGGAACCCCT
TTTCATGCTTCTACAGTCCAGCCAGCCAATCTGAAGATGTCATTCTTATAAAAAAGTATGACCAAATGGC
TATCTTCCACTGTTTATTTGGCCTTCACTGACTCTGCTAGGTGGTGCCTGATTGTTGGCATGGTGA
TTAACACAACACCTGTCTTACTGTGTGAAAAATATAGCACTGTAGTCAGAGATGAGGTAGGTGGAAAAG
TACCTTATATAGAACAGCATCAGTTCAAACGTGTCATTATGAGGAGGAGCAAAGGAAGAGCAGAGAAATC
TTAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_171829 unedited CCGTCTTAAGATTTCTCTGCTCTTCCTTTGCTCCTCCTCATAATGCACAGTTTGAAGTGA TGCTGTTCTATATAAGGTAAGTACTTTTCCACCTACCTCATCTCTGACTACAGTGCATATTTT TCACACAGTAAGGACAGGTGTTGTGTTAATCTCACCATGCCAACAAATCAGGGCACCACCT AGCAGAGTCAGTGAAGGCCAAAAATAACAGTGAAGATAGCCATTTGGTCATACTTTTTT ATAAGAATGACATCTTCAGATTGGCTGGCTGGACTGTAGAAGCATGAAAAGGGGGTTCCA TTTTTGTGATCGAAGAATTCTTTTATGTCCAGAGCACTGTTGAGCAAATCATTCTATCT TGGTGGCACTTAGGTGTGTAAGCACTTGGGATTTATCTGGACAGCCTCTTCATTATAA TGTAGGAGAGCTTTCTGACCTGGATGGCTGAGGTTCACAAACACCTGAAGACACGGGTAC TTCCCCTGACCGTGGCAGTGCACACCACAGGTGAAGGCACAGTCCAGCCAGTCGTCATG ATATCTGTGTGGATGGCAGTGCAGGTCGATTCTTCTCTCTGAATGCTGAGCATAAAAGGC TTTAGAATGGTTGTTCCGAGCAAGAAGAACATTAGGACTGAGAAGCCCATCATGGCAAAC CCCAGCATCACGGCTCGGTCCTCTCCAGCACTGGATGGCAGCCTCTTGTGCACATCTAGT GGGTCTCCATCACTGTAGTCTGTCTCTCTTCTCCCTGAGGCANGAAAGGCTGTCATT
Restriction Sites:	NotI-NotI
ACCN:	NM_171829
Insert Size:	3700 bp
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).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_171829.1</u> , <u>NP_741980.1</u>
RefSeq Size:	1709 bp
RefSeq ORF:	774 bp
Locus ID:	27094
UniProt ID:	<u>Q9NPA1</u>
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 may partially inactivate or slightly decrease the activation time of MaxiK alpha subunit currents. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 22. [provided by RefSeq, Jul 2009]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and uses an alternate translational start codon, compared to variant 4. The resulting isoform (b) has a distinct N-terminus and is shorter than isoform d.