

Product datasheet for **SC123923**

KCNMB3 (NM_014407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB3 (NM_014407) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNMB3
Synonyms:	BKBETA3; HBETA3; K(VCA)BETA-3; KCNMB2; KCNMBL; SLO-BETA-3; SLOBETA3
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014407, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTTTCACCAAGCTCTGAACTGGGATTTTCATTTTGTTCATTTCATCCTGCTCACGAGACACAGGA  
CAGCCTTTCCTGCCTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGCACAA  
GAGGCTGCCATCCAGTGTGGAGAGACCAGCCGTGATGCTGGGGTTTGCCATGATGGCTTCTCAGTC  
CTAATGTTCTTCTGCTCGGAACAACCATTCTAAAGCCTTTTATGCTCAGCATTTCAGAGAGAAGAATCGA  
CCTGCACTGCCATCCACACAGATATCATGGACGACTGGCTGGACTGTGCCTTCACCTGTGGTGTGCACTG  
CCACGGTCAGGGGAAGTACCCGTGCTTTCAGGTGTTTGTGAACCTCAGCCATCCAGGTGAGAAAGCTCTC  
CTACATTATAATGAAGAGGCTGTCCAGATAAATCCCAAGTGCTTTTACACACCTAAGTGCCACCAAGATA  
GAAATGATTTGCTCAACAGTGTCTGGACATAAAAGAATTCTTCGATCACAAAAATGGAACCCCTTTTC  
ATGCTTCTACAGTCCAGCCAGCCAATCTGAAGATGTCAATCTTATAAAAAAGTATGACCAATGGCTATC  
TTCCACTGTTTATTTTGGCCTTCACTGACTCTGCTAGGTGGTGCCTGATTGTTGGCATGGTGAGATTAA  
CACACACCTGTCCTTACTGTGTGAAAAATATAGCACTGTAGTCAGAGATGAGGTAGGTGAAAAAGTACC  
TTATATAGAACAGCATCAGTTCAAACCTGTGCATTATGAGGAGGAGCAAAGGAAGAGCAGAGAAATCTTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014407 unedited CCACTTTAGCAGTCCCCATCGTCATAGAGAGAGATGAAGAAATATTTTGGACTTATGC ATAACCATGAGTCTACCAGAAGAATTTATAAAGAACCCTAGATATCCAACCACCCATTCC AACTTCATAATTTGACTGGACTGCGCACTGGCCACAAATTTCTGGTGGTGGATATGCTGC CTTTCCAACAGGTGAATATGAAATAATAAGTCAAACCCTGTTCAAGACGCTGTTAATTCC AAATGGCAACTTTTTGACTCATTCTTTTCCACTCACAATCAATTTACTCACAACACAC CTCTCTCACCCCTCACTCAACCCTCCCCTCTCCATTCCCTCCCTCATACCCTATCC CATCCAACCGTACACCTATCATCAGCTCTCACTCAACAACCTCAACCCTCGTCACCCCAT CTACCACTACATCAACACTCATTCTACATTAACCCCTACCTATCACATCCTTATCCTCC TCGCATCTCTCCAGTCACTCCTCTCCTATATCACACTGACCGATCCTCCATAGTCCGTA ACTCCTACAACCCCGTATAATCTCACGTCTACCTAGAAGTATGGCACTAACATATGCTG TCGTTCATATGACTCCACTACCACTACTCGTATTATCAATATCGTCACACTCATACCC TACATTACATATGCACCCTACCATCGATCACAATATATCTCTCTATCTGTGCTATCGCA CCATATGTGATGCCTCAGCATACTATGTATCTCTGAGANATTCTCTGCGTATTCTCTCTA ACGCTATCCTACTGCATATGTCACTACACATGTATAGCACTATGTAATCCACACGCTAC GACACATANGCTCAGATCTCTAACGCCTCTCTTAGTCGATATAGATTATCCACACAC ACACAATACTCAGTATCCCTACTTCATAGCTATCATCGTCAAAGCTCC
Restriction Sites:	NotI-NotI
ACCN:	NM_014407
Insert Size:	1500 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:	NM_014407.3 , NP_055222.3
RefSeq Size:	1492 bp
RefSeq ORF:	840 bp
Locus ID:	27094
UniProt ID:	Q9NPA1
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 (4) encodes the longest isoform (d).