

Product datasheet for **SC123922**

KCNMB3 (NM_171828) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB3 (NM_171828) 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:	>OriGene ORF within SC123922 sequence for NM_171828 edited (data generated by NextGen Sequencing)

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ATGCAGCCCTTCAGCATCCCCGTGCAAATCACACTTCAGGGCAGCCGGAGGCCAGGGG
AGGACAGCCTTTCTGCCTCAGGGAAGAAGAGAGACAGACTACAGTGATGGAGACCCA
CTAGATGTGCACAAGAGGCTGCCATCCAGTACTGGAGAGACCGAGCCGTGATGCTGGGG
TTTGCCATGATGGGCTTCTCAGTCCTAATGTTCTTCTTGCTCGGAACAACCATTCTAAAG
CCTTTTATGCTCAGCATTAGAGAGAAGAATCGACCTGCACTGCCATCCACACAGATATC
ATGGACGACTGGCTGGACTGTGCCTTCACCTGTGGTGTGCACTGCCACGGTCAGGGGAAG
TACCCGTGCTTTCAGGTGTTGTGAACCTCAGCCATCCAGGTCAGAAAGCTCTCCTACAT
TATAATGAAGAGGCTGTCCAGATAAATCCCAAGTGCTTTTACACACCTAAGTGCCACCAA
GATAGAAATGATTTGCTCAACAATGCTCTGGACATAAAAGAATTCTTCGATCACAAAAAT
GGAACCCCTTTTCATGCTTCTACAGTCCAGCCAGCCAATCTGAAGATGTCATTCTTATA
AAAAAGTATGACCAAATGGCTATCTTCCACTGTTTATTTTGGCCCTTCACTGACTCTGCTA
GGTGGTGCCTGATTGTTGGCATGGTGAGATTAACACAACACCTGTCTTACTGTGTGAA
AAATATAGCACTGTAGTCAGAGATGAGGTAGGTGAAAAGTACCTTATATAGAACAGCAT
CAGTTCAAACCTGTGCATTATGAGGAGGAGCAAAGGAAGAGCAGAGAAATCTTAA
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Clone variation with respect to NM_171828.1
151 g=>a;503 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_171828 unedited CCACTCACTATATGGCGGCCGCGCAGCAGACCACGCAGGTCTTCTTGATCATCTAGAAC TGACCGCTCCGCCTTGCCAGGAGTCTGCAGAACCAGTGGCTAGCCTGCCTGAAGTTCTC ACCTCTCCAGGAAGGCGGGGGCTTCTAATGGCTGCAGCTGCCTGGGGGCTGGGGGCTC CCGCTGGGACTCCACTTCCGTGGATGTCTAAGCTTACCTTTCTTGCGCCGACAGGGCA TGACTCAGGTGAAAGGGAGCCATTTTCTCAGACCCCTGGCCTCATGCAGCCCTTCAGCAT CCCCCTGCAAATCACACTTCAGGGCAGCCGGAGGCGCCAGGGGAGGACAGCCTTTCTGC CTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGCACAAGAG GCTGCCATCCAGTACTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTT CTCAGTCTAATGTTCTTCTTGCTCGGAACAACCATTCTAAAGCCTTTTATGCTCAGCAT TCAGAGAGAAGAATCGACCTGCACTGCCATCCACACAGATATCATGGACGACTGGCTGGA CTGTGCCCTTACCTGTGGTGTGCACTGCCACGGTCAGGGGAAGTACCCGTGTCTTCAGGT GTTTGTGAACCTCAGCCATCCAGGTCAGAAAGCTCTCTACATTATAATGAAGAGGCTGT CCAGATAAATCCAAGTCTTTTACACACCTAAGTGCN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_171828 unedited TCCGGGCCAGGATAGGCACTGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCCAGG AAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTGGTTTTTTTTTTTTTTT TTTTAAATTTTTTCCACATGAAAATATGATACTTTAATTATTACCTTTTACATTGTTAG TTTGCAGACAGGCATAATTAGGTCCTCAGTTGCAGAAATCACAGACATCTGAAGGCCAGC ACTTTAATTTGGCCACCGTCTTAAGATTTCTCTGCTTCTCTTTGCTCCTCCTCATAATG CACAGTTTGAAGTATGCTGTTCTATATAAGGTACTTTTCCACCTACCTCATCTCTGACT ACAGTGTATATTTTTACACAGTAAGGACAGGTGTTGTGTTAATCTCACCATGCCAACA ATCAGGGCACCACCTAGCAGAGTCAGTGAAGGCCAAAATAAACAGTGGAAGATAGCCATT TGGTCATACTTTTTTATAAGAATGACATCTTCAGATTGGCTGGCTGGACTGTAGAAGCAT GAAAAGGGGGTCCATTTTTGTGATCGAAGAATTCTTTATGTCCAGAGCATTGTTGAGC AAATCATTTCTATCTTGGTGGCACTTAGGTGTGTAAGCACTTGGGATTTATCTGGACA GCCTCTTATTATAATGTAGGAGAGCTTCTGACCTGGATGGCTGAGGTTCAAAACACC TGAAGACACGGTACTTCCCCTGACCGTGGCAGTGCAC
Restriction Sites:	NotI-NotI
ACCN:	NM_171828
Insert Size:	6200 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_171828.1</u> , <u>NP_741979.1</u>

RefSeq Size: 1272 bp
RefSeq ORF: 834 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 (1) differs in the 5' UTR and 5' coding region, and uses an alternate translational start codon, compared to variant 4. The resulting isoform (a) has a distinct N-terminus and is shorter than isoform d. CCDS Note: This CCDS representation is supported by accession AF204159.1 and data in PMID:10766764.