

Product datasheet for **SC117547**

KCNMB1 (NM_004137) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB1 (NM_004137) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNMB1
Synonyms:	BKbeta1; hbeta1; hslo-beta; K(VCA)beta; k(VCA)beta-1; SLO-BETA; slo-beta-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117547 sequence for NM_004137 edited (data generated by NextGen Sequencing)

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ATGGTGAAGAAGCTGGTGTGGCCAGAAAGCGGGAGAGACACGAGCCCTTTGCCTGGGT  
GTAACCATGGTGGTGTGTGCCGTACCTACTACATCCTGGTCACGACTGTGTGCC  
CTCTACCAGAAAAGCGTGTGGACCCAGGAATCCAAGTGCCACCTGATTGAGACCAACATC  
AGGGACCAGGAGGAGCTGAAGGGCAAGAAGGTGCCCCAGTACCCATGCCTGTGGGTCAAC  
GTGTCAGCTGCCGGCAGGTGGGCTGTGCTGTACCACACGGAGGACACTCGGGACCAGAAC  
CAGCAGTGCTCCTACATCCCAGGCAGCGTGGACAATTACCAGACGGCCCGGGCCGACGTG  
GAGAAGGTCAGAGCCAAATTC AAGAGCAGCAGGTCTTCTACTGCTTCTCCGCACCTCGG  
GGGAACGAAACCAGCGTCTATTCCAGCGCCTCTACGGGCCCCAGGCCCTCTCTCTCC  
CTCTTCTGGCCACCTTCTGCTGACCGGTGGCCTCCTCATTATCGCCATGGTGAAGAGC  
AACCAGTACCTGTCCATCCTGGCGGCCAGAAAGTAG
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Clone variation with respect to NM_004137.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004137 unedited</p> <pre> CTGGATTTGTAACGACTTATATAGGCGGCAGCGCAATTCGCACGAGGGAAGAAATATTTCC CAATATACCAGGCTGATCTTTTCGTAGTTTCTCAGTCTTGCTGTCTGTTGTGCTTTGAAA TCTGTTTCCCACGAGACTCTGGGAAGATGGAGGTGCAGGGCTTGGGTAACAGCTGCCTTC CTCAGGGCTGGGTACCTGCTCTCCGAGTCTGTGTCTCCAGGCTGTGTGCTCAGACTTGAC CATGTTTGGGCATGGAGGCTTGCCTGCTGAAGCTCTGTGGCCTTTTTGGGGTGGGGCGGGGGT GCGGGGAGGCCAAACTTCTGCTGAAGCTCTGTGGCCTTTTTGGGGTGGGGCGGGGGT CCAGGCAGAAAGAAACCGTCTGCTGCTCAAGACCCACAGGACGCCGGGAAGACTAAATGA TCACTGCCCCAGTGAATATGGTGAAGAAGCTGGTGTGATGGCCAGAAGCGGGGAGAGACA CGAGCCCTTTGCCTGGGTGAACCATGGTGGTGTGTGCCGTATCACCTACTACATCCTG GTCACGACTGTGCTGCCCTCTACCAGAAAAGCGTGTGGACCCAGGAATCCAAGTGCCAC CTGATTGAGACCAACATCANGGACCAGGAGGAGCTGAAGGGCAAGAAGGTGCCCCAGTAC CCATGCCTGTGGTCAACGTGTGCTGCTGCCGACAGGTGGGCTGTGCTGTACCACACGGAG GACTCGGGACCAGAACCAGCAGTGTCTCTACATCCNAGCAGCGTGGACATTACCAGAC GCCCGGGCCGACGTGNAGAAGTCAGAGCAATTNCCAAGACAGCAGTCTTCTACTGCTTC TCCGGCACTCGGGGGGACGAAACCAGCGTCCTTATCCAGCGCCTTACGGGCCCAAGCC CTNCTCTTCTCCCTCTTCTGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004137 unedited</p> <pre> NNTTTTCACTTTGGACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGT TGGTTGGCATACTTTTATTAATATTGGAATTAATAATATATGGCACTTTATATCCTAGA AAATAGTAATACTGTAATGTGTTCTAGAAATGGGAGCTGCTGTGCTCTTATTAGAGAA TTCAAACAAGAAGGGAGGCTCGCTGGGGACAGCTTCTGGGGGAGGATGGGTACCGCTTT GAGACAACAGGGAGAAGTCAAGGCACAGAGGTGACGATCATCGTTCTGTGGGGACATA GTGATGCAGCCGAAACAGGTATGAGTCAGTTGAGTGGGGACAGGTAATAGAGAGCTAGA ACTGGCTGGCCTTATGGCCTCCAAGGCATTGGGGAGCCACTGTACATTCTTGAGCAGGCA ATGACTTCACAAAAGGATTTCTCAAAGGTTAGTCTGCAACAGAAAGACAGCGTGGATTGG ACTGGAAGAGTGGGAGGGCAGGTGGAGAAGGCATTGTGCTGCAAGTGGGGAGCAGCCCTG GGGGCCAGCCAGTCCCCTGTGCCCTGACAAGTGGTATGGCATGGATGGATGGTCTACT TCTGGGCCGCCAGGATGGACAGGTAAGTGGTCTTCCACATGGCGATAATGAGGAGGC CACCGTCAAGAGGAGGTTGGGCGAGAAGAGGGAGAAGAGGGGCGCTGGGGCCCGTANA GGCGCTGGAATAGGACGCTGGTTTCGTTCCCGGAGGTGCGGAGAAGCAGTAGAAGACCT GCTGCTTTGAAATTTGCTCTGACCTTCTCCAGTCGGCCCGGGCGTCTGTTATTGTC CACGCTGCCTGGGATGTANGAGCACTGCTGGNTCTGTCCCGAGTGCCTCCGTGTGTACA G </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004137
Insert Size:	1600 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:

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_004137.2](#), [NP_004128.1](#)

RefSeq Size: 1518 bp

RefSeq ORF: 576 bp

Locus ID: 3779

UniProt ID: [Q16558](#)

Cytogenetics: 5q35.1

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 product of this gene, the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits. [provided by RefSeq, Jul 2008]