

Product datasheet for **SC309268**

KCNMB2 (NM_181361) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB2 (NM_181361) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNMB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_005832.3</p> <pre> AGTATGAAGCAGCTTTAACGGAGCTCCAGATAACTAATTTCAAGCATGGCTGTCTAGCGT GCCTGTCACTCCTATTGTCTTCCAACTCTTTCAGACATTTTGAGCAGGGAGTATTA GCTATGAGTTAGAAAGGTTGTGACATTAATGGTCCACAAAGGCTTAGGCACAAGAGGT AATGATGATTACCGTGGCTATTTGGAGGACTGCACCGGATCGCTGTCATTAATAA CGTGGCTTTTGAGGAAGATGTGACAACTACCGGAGGTCTTTTGCATTCTCCAGGAC ATCCACATAAGGAAAGGAGACCCTGGACCAACATTCTCTAAGATGTTTATATGGACCAG TGGCCGGACCTTTCATCTTATAGACATGATGAAAAAGAAAATTTTACCAGAAAATCAG GGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGGACCG AGCTATTCTCCTGGGACTGGCTATGATGGTGTGCTCCATCATGATGATTTTCTGCTGGG AATCAGACTCCTGCGCTACATGATGAGAGCGTGTGGACGAAGAGTCTCAATGCACCTT GCTGAATGCGTCCATCACGGAAACATTTAACTGCTCCTTCAGCTGTGGTCCAGACTGCTG GAAACTTTCTCAGTACCCTGCCTCCAGGTGTACGTTAACCTGACTTCTTCCGGGAAAA GCTCCTCCTTACCACACAGAAGAGACAATAAAAATCAATCAGAAGTGCTCCTATATACC TAAATGTGAAAAAATTTGAAGAATCCATGTCCTGGTGAATGTTGTCATGGAAAATCT CAGGAAGTATCAACACTTCTCCTGCTATTCTGACCCAGAAGGAAACCAGAAGAGTGTAT CCTAACCAAACTTACAGTTCCAACGTGCTGTTCCATTCACTTCTTGGCCAACCTGTAT GATGGCTGGGGGTGGCAATTGTTGCCATGGTAAAATACACAGTACCTCTCCCTACT ATGTGAGAGGATCCAACGGATCAATAGATAAATGCAAAAATGGATAAAAATAATTTTGT AAAGCTCAAATACTGTTTCTTTTATTCTTACCAAAAGAACCTTAAGTTTGTAACTGCA GTCTGTTATGAGTTCCCTAATATATTCTTATATGTAGAGCAATAATGCAAAGCTGTTCT ATATGCAAACATGATGTCTTTATTATTCAGGAGAATAAATAACTGTTTTGTGCGAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_181361
Insert Size:	1300 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_181361.1</u> , <u>NP_852006.1</u>
RefSeq Size:	2543 bp
RefSeq ORF:	708 bp
Locus ID:	10242
UniProt ID:	<u>Q9Y691</u>
Cytogenetics:	3q26.32
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Vascular smooth muscle contraction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.</p>