

## Product datasheet for **MC210183**

### Kcnmb4 (NM\_021452) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnmb4 (NM_021452) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnmb4
Synonyms:	1700058G18Rik; 2900045G12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210183 representing NM_021452 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGGCGAAGCTCAGGGTGTCTTACGAGTACACGGAAGCCGAAGACAAGAGCATCCGGCTCGGCTTGTTC  
TCATCGTCTCCGGCATCCTGTCGCTCTTCATCTTCGGCTTCTGCTGGCTCAGTCCCCTTGCAGGATCT  
GCAAGCCACGGCGCCAACCTGCACCGTGTGTCGGTGCAGCAGATCGGCGAGGTGTTGAGTGCACCTTC  
ACCTGTGGCACCAGTGCAGGGGCACCTCGCAGTATCCCTGCGTCCAGGTGTACGTGAACAACCTCCGAGT  
CCAACCTCCAGGGCGTGTACACAGCGACCAGCACCAGCTCCTGACCAACCCCAAGTGTCTCTATATCCC  
GCCTGTAAAGAGAGAAAACCAGAAGAACTCGGAGAGCGTCACTGAACTGGCAGCAGTATTGGAAAGATGAG  
ATCGGTTCCAGCCATCACTTGCTATTTTAAATCAGCATCAGAGACCAGAGGACGTTCTCTACAGCGCA  
CACACGACGAGATTGCTCTCCTGCACTGCTTCTCTGGCCGGTGGTGGCGTTTGTGGTGGGTGTTCTCAT  
CGTGGTCTGACCATCTGTGCCAAGAGCCTGGCCGTCAAGGCGGAAGCCATGAAGAAACGCAAGTTCTCT  
TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_021452
Insert Size:	633 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_021452.1</a></u> , <u><a href="#">NP_067427.1</a></u>
<b>RefSeq Size:</b>	1032 bp
<b>RefSeq ORF:</b>	633 bp
<b>Locus ID:</b>	58802
<b>UniProt ID:</b>	<u><a href="#">Q9JIN6</a></u>
<b>Cytogenetics:</b>	10 D2
<b>Gene Summary:</b>	Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Decreases the gating kinetics and calcium sensitivity of the KCNMA1 channel, but with fast deactivation kinetics. May decrease KCNMA1 channel openings at low calcium concentrations but increases channel openings at high calcium concentrations. Makes KCNMA1 channel resistant to 100 nM charybdotoxin (CTX) toxin concentrations (By similarity).[UniProtKB/Swiss-Prot Function]