

## Product datasheet for **MG202855**

### **Kcnmb2 (NM\_028231) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnmb2 (NM\_028231) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Kcnmb2  
**Synonyms:** 2700049B16Rik; 3110031N04Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202855 representing NM\_028231  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTATATGGACCACTGGCCGACCTCTTCATCTTACAGACAGGACGAGAAAAGAAATATCTACCAGA  
AAATCAGGGACCATGACCTCCTGGACAAAAGGAAAAGTGTGACAGCTCTGAAGGCTGGGGAGACCGGGC  
CATCCTGCTCGGCTGGCCATGATGGTGTGCTCCATCATGATGTACTTCTGCTGGGAATCACACTGCTG  
CGCTCCTACATGCAGAGCGTGTGGACAGAAGAAGCCAGTGTGCCCTGCTGAATGTGTCAATCACAGAAA  
CGTTTAACTGTTCTTCAGCTGTGGCCCGACTGTTGGAAGCTCTCTCAGTACCCTTGCCTGCAGGTGTA  
CGTGAACCTGACATCTTCCGGGGAGAGGCTCCTCCTCTACCACACGGAAGAGACCATGAAGATCAATCAA  
AAGTGCTCCTATATTCCTAAGTGTGAAACAACCTTTGAGGAGTCCATGTCTCTCGTGAGTGTGTCATCGG  
AAAACCTCAGGAGACCAACACTTCCCCTGCTATTCTGACCCAGAAGGAAACCAGAAGAGTGTGTCATCCT  
GACCAAACCTACAGCTCCAATGTGCTGTTCCATTCTCTCTTCTGGCCAACCTTGATGATGGCTGGGGGT  
GTGGCAATCGTTGCTATGGTAAACTAAGTACCTCCTCCTGCTTTGTGAGAGGATCCAACGGATCA  
ACAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202855 representing NM\_028231  
 Red=Cloning site Green=Tags(s)

MFIWTSGR TSSSYRQDEKRNIYQKIRDHLLDKRKTVTALKAGEDRAILLGLAMMVCSIMMYFLLGITLL  
 RSYMQSVWTEEAQCALLNVSITETFNCSFSCGPDCWKL SQYPCLQYVNL TSSGERLLL YHTEETMKINQ  
 KCSYIPKCGNFFEESMSLVSVVMENFRRHQHFPCYSDPEGNQKSVILTKLYSSNVLHSLFWPTCMMAGG  
 VAIVAMVKLTQYLSLLCERIQRINR

TRTRPLE - GFP Tag - V

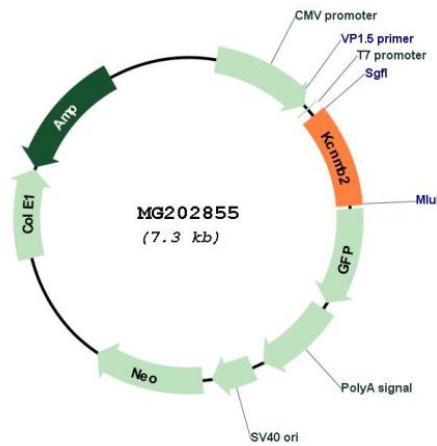
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_028231

**ORF Size:** 705 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_028231.2</a> , <a href="#">NP_082507.1</a>
<b>RefSeq Size:</b>	2947 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	72413
<b>UniProt ID:</b>	<a href="#">Q9CZM9</a>
<b>Cytogenetics:</b>	3 A3
<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. Acts as a negative regulator that confers rapid and complete inactivation of KCNMA1 channel complex (By similarity).[UniProtKB/Swiss-Prot Function]