

## Product datasheet for **RG236786**

### KCNMB2 (NM\_001278911) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNMB2 (NM\_001278911) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCNMB2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236786 representing NM\_001278911.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTATATGGACCAGTGGCCGGACCTTTCATCTTATAGACATGATGAAAAAGAAATATTTACCAG
AAAATCAGGGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGGCCGA
GCTATTCTCCTGGGACTGGCTATGATGGTGTGCTCCATCATGATGATTTTCTGCTGGGAATCACACTC
CTGCGCTCATACATGCAGAGCGTGTGGACCGAAGAGTCTCAATGCACCTTGTGAATGCGTCCATCAG
GAAACATTTAACTGCTCCTTCAGCTGTGGTCCAGACTGCTGAAACTTTCTCAGTACCCCTGCCTCCAG
GTGTACGTTAACCTGACTTCTTCGGGGAAAAGCTCCTCCTACCACAGAAGAGACAATAAAAATC
AATCAGAAGTGTCTATATACCTAAATGTGGAATAATTTTGAAGAATCCATGTCCTGGTGAATGTT
GTCATGGAAAACCTCAGGAAGTATCAACACTTCTCCTGCTATTCTGACCCAGAAGGAAACCAAGAAGT
GTTATCTAACCAAACCTTACAGTTCCAACGTGCTGTTCCATTCACTTCTGCGCAACCTGTATGATG
GCTGGGGGTGGCAATTGTTGCCATGGTAACTTACACAGTACCTCTCCCTACTATGTGAGAGGATC
CAACGGATCAATAGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236786  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MFIWTSGR TSSSYRHDEKRNIYQKIRDHLLDKRKTVTALKAGEDRAILLGLAMMVCSIMMYFLLGITL
LRSYMQSVWTEESQCTLLNASITETFNCSFSCGPDCWKL SQYPCLQVYVNL TSSGEKLL YHTEETIKI
NQKCSYIPKCGKNFEESMSLVNVVMENFRKYQHFSCYSDPEGNQKSVILTKLYSSNVLFHSLFWPTCMM
AGGVAIVAMVKLTQYLSLLCERIQRINR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY
```



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<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>RefSeq:</b>	<a href="#">NM_001278911.1</a> , <a href="#">NP_001265840.1</a>
<b>RefSeq Size:</b>	2569 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	10242
<b>UniProt ID:</b>	<a href="#">Q9Y691</a>
<b>Cytogenetics:</b>	3q26.32
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Protein Pathways:</b>	Vascular smooth muscle contraction
<b>MW:</b>	27.1 kDa
<b>Gene Summary:</b>	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]