

Product datasheet for **RG217636**

KCNMB3 (NM_171829) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNMB3 (NM_171829) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNMB3
Synonyms:	BKBETA3; HBETA3; K(VCA)BETA-3; KCNMB2; KCNMBL; SLO-BETA-3; SLOBETA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217636 representing NM_171829 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGCCTTTCCTGCCTCAGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGC
ACAAGAGGCTGCCATCCAGTGCTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTTCTC
AGTCCTAATGTTCTTCTTGCTCGGAACAACCATTCTAAAGCCTTTATGCTCAGCATTAGAGAGAAAGAA
TCGACCTGCACTGCCATCCACAGATATCATGGACGACTGGCTGGACTGTGCCTCACCTGTGGTGTGC
ACTGCCACGGTCAGGGGAAGTACCGGTGTCTTCAGGTGTTGTGAACCTCAGCCATCCAGGTCAGAAAGC
TCTCTACATTATAATGAAGAGGCTGTCCAGATAAATCCCAAGTGCTTTACACACCTAAGTGCCACCAA
GATAGAAATGATTTGCTCAACAGTGCTCTGGACATAAAAAGAAATCTTCGATCACAAAAATGGAACCCCT
TTTCATGCTTCTACAGTCCAGCCAGCCAATCTGAAGATGTCATTCTTATAAAAAAGTATGACCAAATGGC
TATCTTCCACTGTTATTTTGGCCTTCACTGACTCTGCTAGGTGGTGCCCTGATTGTTGGCATGGTGA
TTAACACAACACCTGTCTTACTGTGTGAAAAATATAGCACTGTAGTCAGAGATGAGGTAGGTGAAAAAG
TACCTTATATAGAACAGCATCAGTTCAAAGTGTGCATTATGAGGAGGAGCAAAGGAAGAGCAGAGAAATC
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217636 representing NM_171829
 Red=Cloning site Green=Tags(s)

MTAFPASGKKRETDYSDGDPLDVHKRLPSSAGEDRAVMLGFAMMGFSVLMFFLLGTTILKPFMLSIIQREE
 STCTAIHTDIMDDWLDCAFTCGVHCHGQKYPCLQVFNLSHPGQKALLHYNEEAVQINPKCFYTPKCHQ
 DRNDLLNSALDIKEFFDHKNGTPFSCFYSPASQSEDEVILIKKYDQMAIFHCLFWPSLTLGGALIVGMVR
 LTQHLSELLCEKYSTVVRDEVGGKVPYIEQHFKLCIMRRSKGRAEKS

TRTRPLE - GFP Tag - V

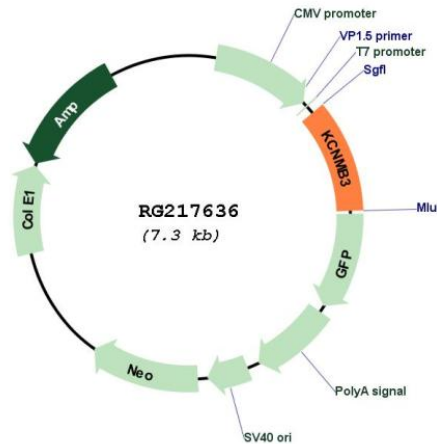
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_171829

ORF Size: 771 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_171829.2
RefSeq Size:	1709 bp
RefSeq ORF:	774 bp
Locus ID:	27094
UniProt ID:	Q9NPA1
Cytogenetics:	3q26.32
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 modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which may partially inactivate or slightly decrease the activation time of MaxiK alpha subunit currents. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 22. [provided by RefSeq, Jul 2009]