

Product datasheet for RG233349

OriGene Technologies, Inc.

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KCNMA1 (NM_001271522) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: KCNMA1 (NM_001271522) Human Tagged ORF Clone

Tag: TurboGFP Symbol: KCNMA1

Synonyms: bA205K10.1; BKTM; CADEDS; hSlo; IEG16; KCa1.1; LIWAS; MaxiK; mSLO1; PNKD3; SAKCA; SLO;

SLO-ALPHA; SLO1

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG233349 representing NM_001271522

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GATGTCGTCGGCTT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233349 representing NM_001271522

Red=Cloning site Green=Tags(s)

MANGGGGGGGSGGGGGGSSLRMSSNIHANHLSLDASSSSSSSSSSSSSSSSSSVHEPKMDALI IPVTMEVPCDSRGQRMWWAFLASSMVTFFGGLFIILLWRTLKYLWTVCCHCGGKTKATHFGSPEMPPAAR

SWSGSPPEAAVLRGASSLALEVARCRRL

SGPTRTRRLE - GFP Tag - V



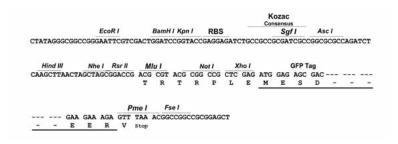


Restriction Sites:

Sgfl-Rsrll

Cloning Scheme:





ACCN: NM_001271522

ORF Size: 504 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: 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 001271522.2

RefSeq Size: 882 bp
RefSeq ORF: 507 bp
Locus ID: 3778
UniProt ID: Q12791

KCNMA1 (NM_001271522) Human Tagged ORF Clone - RG233349

Cytogenetics: 10q22.3

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

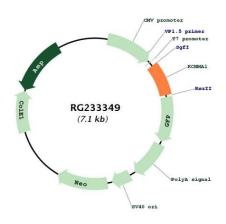
Protein Pathways: Vascular smooth muscle contraction

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, which is the product of this gene, and the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits. Alternatively spliced transcript variants

encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG233349