

Product datasheet for MG206975

Rgma (BC023870) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rgma (BC023870) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Rgma

Synonyms: C230063O06, MGC38550, MGC69915

Mammalian Cell Neomycin

Selection:

iveomyem

Vector: pCMV6-AC-GFP (PS100010)

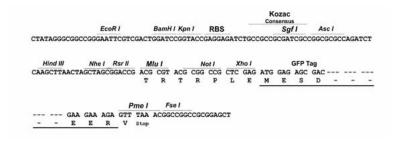
E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





ACCN: BC023870 **ORF Size:** 1313 bp



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Rgma (BC023870) Mouse Tagged ORF Clone - MG206975

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>BC023870</u>, <u>AAH23870</u>

7 D1

RefSeq Size:3407 bpRefSeq ORF:1313 bpLocus ID:244058

Cytogenetics:

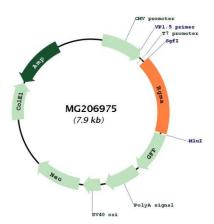
Gene Summary: Member of the repulsive guidance molecule (RGM) family that performs several functions in

the developing and adult nervous system. Regulates cephalic neural tube closure, inhibits neurite outgrowth and cortical neuron branching, and the formation of mature synapses. Binding to its receptor NEO1/neogenin induces activation of RHOA-ROCK1/Rho-kinase signaling pathway through UNC5B-ARHGEF12/LARG-PTK2/FAK1 cascade, leading to collapse of the neuronal growth cone and neurite outgrowth inhibition. Furthermore, RGMA binding to NEO1/neogenin leads to HRAS inactivation by influencing HRAS-PTK2/FAK1-AKT1 pathway. It also functions as a bone morphogenetic protein (BMP) coreceptor that may signal through

SMAD1, SMAD5, and SMAD8.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MG206975