

Product datasheet for **MG224799**

Sgms2 (NM_028943) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sgms2 (NM_028943) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sgms2
Synonyms: 4933405A16Rik; 5133401H06Rik; AI854299
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224799 representing NM_028943
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATATCATAGAGACAGCAAACCTTGAAGGTCACCTGGAAAGTCAAACCAACGACTCCACCAACACTT
 ACACAAGCCCCACCGAAGCTGTAGAGGAAGAGGGCAAATGGCAAGGGCAAACCAAGACCTTATCCAA
 CGGGTTACGAAAGGGTGCCAAAAATACCCGGACTACATCCAGATTTCCATGCCAACGACTCCAAGAAC
 AAGTTTCCCTGGAGTGGTGGAAAACAGGCATCGCCTTTGTGTATGCGCTCTTCAACCTCATCCTGACAA
 CCGTCATGATCACCGTCGTGCACGAGAGGGTCCCTCCCAAGGAGCTCAGCCCTCCGCTCCAGACAAGTT
 TTTTGATTACTTCGACCGGGTCAAATGGGCATTTTCTGTATCAGAAATAACGGGATGGTATTGGTTGGG
 TTATGGATCACCCAGTGGCTCTTCTGCGTTACAAGTCAATAGTGGGGCGCAGATTTCTTCTCATCATGG
 GAACCTTATACCTGTATCGCTGTATAACTATGTATGTCACCTACGTTACCTGTGCCCGGAATGCACCTCCA
 GTGTGCTCCCAAGCTCAATGGAGACTCTCAGGCAAAAATACAGCGGATTCTCCGGCTGATTTCTGGCGGG
 GGACTGTCTATCACGGGATCTCACATCCTGTGCGGAGACTTCTCTTTCAGCGGCCACACTGTCGTGCTCA
 CACTTACTTACTTGTTTCATCAAAGAATATTCACCTCGTCACTTCTGGTGGTATCACTTGGTCTGTGGCT
 GCTGAGTGGGCTGGGATCATCTGCATTCTCGTAGCGCATGAACACTATACCGTGGACGTCATCATTGCT
 TACTATATCACAAACAGCGCTGTTTTGGTGGTACCATTCCATGGCCAAACGAAAAGAACTTGAAGGTCTTT
 CCCAGACGAACCTTCTGTCTCGGGCTTGGTGGTTCCCATCTTCTACTTTTTTGAGAAGAATGTGCAAGG
 CTAATTCTTGTGCTTTTCTGGCCGCTGCTGCGCCCTGGCTGCTTCAAGTCATCGTGCAGAAAG
 TATCCCGGGTCCAGAAGATCGGGGAGGATAATGAGAAGTCTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224799 representing NM_028943
Red=Cloning site Green=Tags(s)

MDIIEETAKLEGHLESQTNDSTNTYTSPTEAVEEEEGKNGKGPKTLNGLRKGAKKYPDYIQISMPNDSKN
 KFPLEWWTGIAFVYALFNLILTTVMITVYHERVPPKELSPPLPDKFFDYFDRVKWAFSVSEINGMVLVG
 LWITQWFLFRYSIVGRRFFIFMGTLYLRCITMYVTLLPVPGMHFQCAPKLNQDSQAKIQRLRLISGG
 GLSITGSHILCGDFLFSGHTVVLTLTYLFIKEYSPRHFWYHLVCWLLSAAGIICILVAHEHYTVDVIIA
 YYITTRLFWWYHSMANEKNLKVSSQTNFLSRAWWFPIFYFFEKNVQGSIPCCFSWPLSWPPGCFKSSCRK
 YSRVQKIGEDNEKST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028943

ORF Size: 1095 bp

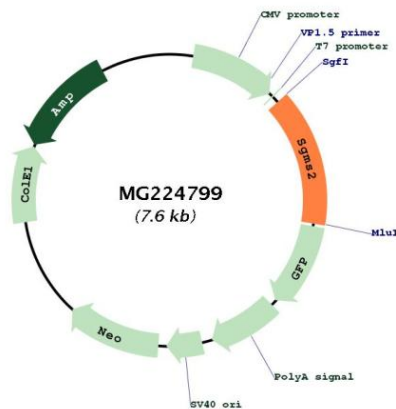
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_028943.6](#)
- RefSeq Size:** 5791 bp
- RefSeq ORF:** 1098 bp
- Locus ID:** 74442
- UniProt ID:** [Q9D4B1](#)
- Cytogenetics:** 3 G3
- Gene Summary:** Sphingomyelin, a major component of cell and Golgi membranes, is made by the transfer of phosphocholine from phosphatidylcholine onto ceramide, with diacylglycerol as a side product. The protein encoded by this gene is an enzyme that catalyzes this reaction primarily at the cell membrane. The synthesis is reversible, and this enzyme can catalyze the reaction in either direction. The encoded protein is required for cell growth. [provided by RefSeq, Oct 2008]

Product images:



Circular map for MG224799