

Product datasheet for **MG203879**

Agpat1 (BC009651) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agpat1 (BC009651) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Agpat1
Synonyms: 1-AGPAT, 1-AGP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203879 representing BC009651
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGTGGCCCGGGCCTGGACGGCGCTGCTGCAGCTGCTGCTCCTGCTGCTGCCACCCTGTGGT
 TCTGCAGCTCCAGTGCCAAGTATTTCTTTAAGATGGCCTTCTACAACGGCTGGATCCTCTTCTGGCGAT
 CCTCGCAATCCCCGTGTGTGCTGTGCGAGGGCGCAATGTCGAGAACATGAAGATCTTGCCTGTGCTGCTG
 CTCCACGTCAAATACCTGTATGGGATCCGAGTGGAGGTGCGCGGGGCTCACCCTCCCTCCACGCAGC
 CCTACGTGGTTGTGTCCAACCACAGAGTCCCTCGACCTGCTTGAATGATGGAGTCTGCCAGATCG
 TTGTGTGCCATTGCCAAGCGTGAGCTACTATGGGCTGGCTCTGCTGGGCTGGCCTGCTGGCTGGCAGGA
 ATCATCTTCATTGACCGAAACGCACAGGGGACGCCATCAGTGTGATGTCGAGGTGGCTCAGACCTTGC
 TCAACCAGGATGTGAGAGTCTGGGTTTTCTGAAGGAACAAGAAACCACAATGGCTCCATGCTGCCCTT
 CAAACGAGGCGCCTTCCACCTTGACAGTACAGGCCAGGTCATCCCATCGTCATGCTCCTCTAT
 CAAGACTTCTACTCAAAAAGGAAAGACGCTTACCTCGCCTGGACGTTGTGAGGTGCGGGTGTGCCTC
 CAGTGTCCACAGAAGGGCTGACACCAGATGACGTCCCAGCTCTGGCAGACAGCGTCCGGCACTCCATGCT
 CACCATCTCCGGGAGATCTCCACTGACGGCCTGGGTGGTGGCGACTGTCTGAAGAAGCCTGGGGAGCG
 GGCGAAGCCCGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203879 representing BC009651
 Red=Cloning site Green=Tags(s)

MELWPGAWTALLQLLLLLSTLWFCSSSAKYFFKMAFYNGWILFLAILAIPVCAVRGRNVENMKILRLLL
 LHVKYL YGIRVEVRGAHHFPPTQPYVVVSNHQSSDLLGMMEVLPDRCVPIAKRELLWAGSAGLACWLAG
 IIFIDRKRRTGDAISVMSEVAQTLTLDVVRVWVFPEGTRNHNGSMLPFKRGAFHLAVQAQVPIPIVMSSY
 QDFYSKKERRFTSPGRCQVRVLPVSTEGLTPDDVPALADSVRHSMLTIFREISTDGLGGDCLKKPGGA
 GEARL

TRTRPLE - GFP Tag - V

Restriction Sites:

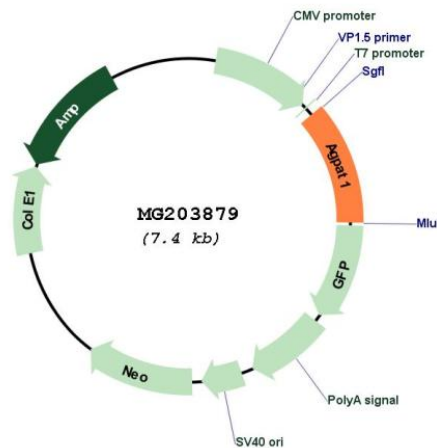
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC009651

ORF Size: 857 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:	BC009651 , AAH09651
RefSeq Size:	2048 bp
RefSeq ORF:	857 bp
Locus ID:	55979
Cytogenetics:	17 18.18 cM
Gene Summary:	Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.[UniProtKB/Swiss-Prot Function]