

Product datasheet for **MG223779**

Agpat1 (NM_001163379) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agpat1 (NM_001163379) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Agpat1
Synonyms: 1-AGP; 1-AGPAT; AW047140
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223779 representing NM_001163379
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGCTGTGGCCCGGGCCTGGACGGCGCTGCTGCAGCTGCTGCTCCTGCTGCTGCCACCCTGTGGT
TCTGCAGCTCCAGTGCCAAGTATTTCTTTAAGATGGCCTTCTACAACGGCTGGATCCTCTTCTGGCGAT
CCTCGCAATCCCCGTGTGTGCTGTGCGAGGGCGCAATGTCGAGAACATGAAGATCTTGCCTGCTGCTGCT
CTCCACGTCAAATACCTGTATGGGATCCGAGTGGAGGTGCGCGGGGCTCACCCTCCCTCCACGCAGC
CCTACGTGGTTGTGTCCAACCACAGAGTCCCTCGACCTGCTTGAATGATGGAGTCTGCCAGATCG
TTGTGTGCCATTGCCAAGCGTGAGCTACTATGGGCTGGCTCTGCTGGGCTGGCCTGCTGGCTGGCAGGA
ATCATCTTCATTGACCGAAACGCACAGGGGACGCCATCAGTGTGTCATGTCGAGGTGGCTCAGACCTTGC
TCAACCAGGATGTGAGAGTCTGGGTTTTCTGAAGGAACAAGAAACCACAATGGCTCCATGCTGCCCTT
CAAACGAGGCGCCTTCCACCTTGACAGTACAGGCCAGGTCATCCCATCGTCATGCTCCTCTAT
CAAGACTTCTACTCAAAAAGGAAAGACGCTTACCTCGCCTGGACGTTGTGAGGTGCGGGTGTGCCTC
CAGTGTCCACAGAAGGGCTGACACCAGATGACGTCCCAGCTCTGGCAGACAGCGTCCGGCACTCCATGCT
CACCATCTCCGGGAGATCTCCACTGACGGCCTGGGTGGTGGCGACTGTCTGAAGAAGCCTGGGGAGCG
GGCGAAGCCCGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223779 representing NM_001163379
 Red=Cloning site Green=Tags(s)

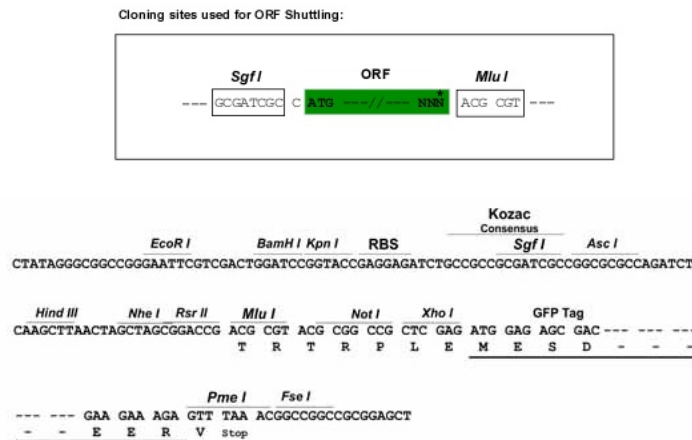
MELWPGAWTALLQLLLLLLSTLWFCSSSAKYFFKMAFYNGWILFLAILAIPVCAVRGRNVENMKILRLLL
 LHVKYL YGIRVEVRGAHHFPPTQPYVVVSNHQSSLDLLGMMVEVLPDRCVPIAKRELLWAGSAGLACWLAG
 IIFIDRKRTGDAISVMSEVAQTLLTQDVRVWVFPEGTRNHNGSMLPFKRGAFHLAVQAQVPIPIVMSSY
 QDFYSKKERRFTSPGRCQVRVLPVSTEGLTPDDVPALADSVRHSMLTIFREISTDGLGGDCLKKPGGA
 GEARL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2330_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163379

ORF Size: 855 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_001163379.1](#), [NP_001156851.1](#)

RefSeq Size: 2190 bp

RefSeq ORF: 858 bp

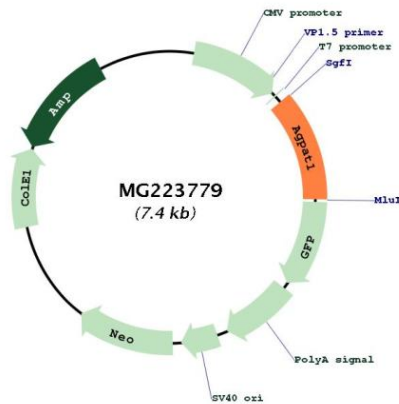
Locus ID: 55979

UniProt ID: [O35083](#)

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]

Product images:



Circular map for MG223779