

## Product datasheet for MR223779

### Agpat1 (NM\_001163379) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat1 (NM_001163379) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agpat1
Synonyms:	1-AGP; 1-AGPAT; AW047140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223779 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAGCTGTGGCCCGGGCCTGGACGGCGTCTGCAGCTGCTGCTCCTGCTGCTGCCACCCTGTGGT  
TCTGCAGCTCCAGTGCCAAGTATTTCTTTAAGATGGCCTTCTACAACGGCTGGATCCTCTTCTGGCGAT  
CCTCGCAATCCCCGTGTGTGCTGTGCGAGGGCGCAATGTCGAGAACATGAAGATCTTGCCTGTGCTGCTG  
CTCCACGTCAAATACCTGTATGGGATCCGAGTGGAGGTGCGCGGGGCTCACCCTCCCTCCACGCAGC  
CCTACGTGGTTGTGCCAACACCAGAGTCCCTCGACCTGCTTGAATGATGGAGTCTGCCAGATCG  
TTGTGTGCCATTGCCAAGCGTGAGCTACTATGGGCTGGCTCTGCTGGGCTGGCCTGCTGGCTGGCAGGA  
ATCATCTTCATTGACCGAAACGCACAGGGGACGCCATCAGTGTGTCATGTCGAGGTGGCTCAGACCTTGC  
TCAACCAGGATGTGAGAGTCTGGGTTTTCTGAAGGAACAAGAAACCACAATGGCTCCATGCTGCCCTT  
CAAACGAGGCGCCTTCCACCTTGACAGTACAGGCCAGGTCATCATCCCCATCGTCATGCTCCTCTAT  
CAAGACTTCTACTCAAAAAGGAAAGACGCTTACCTCGCCTGGACGTTGTGAGGTGCGGGTGTGCCTC  
CAGTGTCCACAGAAGGGCTGACACCAGATGACGTCCCAGCTCTGGCAGACAGCGTCCGGCACTCCATGCT  
CACCATCTCCGGGAGATCTCCACTGACGGCCTGGGTGGTGGCGACTGTCTGAAGAAGCCTGGGGAGCG  
GGCGAAGCCCGGCTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223779 protein sequence  
Red=Cloning site Green=Tags(s)

MELWPGAWTALLQLLLLLSTLWFCSSSAKYFFKMAFYNGWILFLAILAIPVCAVRGRNVENMKILRLLL  
 LHVKYL YGIRVEVRGAHHFPPTQPYVVVSNHQSSLDLLGMMVEVLPDRCVPIAKRELLWAGSAGLACWLAG  
 IIFIDRKRTGDAISVMSEVAQTLTQDVRVWVFPEGTRNHNGSMLPFKRGAFHLAVQAQVPIPIVMSSY  
 QDFYSKKERRFTSPGRCQVRVLPVSTEGLTPDDVPALADSVRHSMLTIFREISTDGLGGDCLKKPGGA  
 GEARL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001163379

**ORF Size:** 858 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

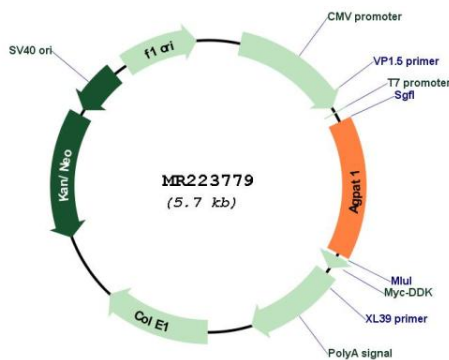
**UniProt ID:** [O35083](#)

**Cytogenetics:** 17 18.18 cM

**MW:** 31.8 kDa

**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 MR223779