

## Product datasheet for **RC201257**

### AGPAT1 (NM\_032741) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AGPAT1 (NM\_032741) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AGPAT1  
**Synonyms:** 1-AGPAT1; G15; LPAAT-alpha; LPAATA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201257 representing NM\_032741  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATTGTGGCCAGGGGCATGGATGCTGCTGCTGCTGCTCTTCTGCTGCTGCTCTTCTGCTGCCCA  
CCCTGTGGTTCTGCAGCCCCAGTGCCAAGTACTTCTCAAGATGGCCTTCTACAATGGCTGGATCCTCTT  
CCTGGCTGTGCTCGCCATCCCTGTGTGCGGTGCGAGGACGCAACGTCGAGAACATGAAGATCTTGCCT  
CTAATGCTGCTCCACATCAAATACCTGTACGGGATCCGAGTGGAGGTGCGAGGGGCTCACCCTTCCCTC  
CCTCGCAGCCCTATGTTGTTGTCTCCAACCACCAGAGCTCTCTCGATCTGCTTGGGATGATGGAGGTACT  
GCCAGGCCGCTGTGTGCCATTGCCAAGCGCGAGCTACTGTGGGCTGGCTCTGCCGGGCTGCCTGCTGG  
CTGGCAGGAGTCATCTTCATCGACCGGAAGCGCACGGGGATGCCATCAGTGTCATGTCTGAGGTGCCCC  
AGACCCTGCTCACCCAGGACGTGAGGGTCTGGGTGTTTCTGAGGGAACGAGAAACCACAATGGCTCCAT  
GCTGCCCTTCAAACGTGGCGCCTTCCATCTTGCAGTGCAGGCCAGGTTCCCATTTGCCCCATAGTCATG  
TCCTCCTACCAAGACTTCTACTGCAAGAAGGAGCGTCGTTCCACTCGGGACAATGTGAGGTGCGGGTGC  
TGCCCCAGTGCCACGGAAGGGCTGACACCAGATGACGTCCAGCTCTGGCTGACAGAGTCCGGCACTC  
CATGCTCACTGTTTTCCGGGAAATCTCCACTGATGGCCGGGTGGTGGTACTATCTGAAGAAGCCTGGG  
GGCGGTGGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201257 representing NM\_032741  
Red=Cloning site Green=Tags(s)

MDLWPGAWMLLLLLFLLLLFLLPTLWFCSPSAKYFFKMAFYNGWILFLAVLAIPVCAVRGRNVENMKILR  
 LMLLHIKYL YGIRVEVRGAHHFPPSQPYVVVSNHQSSLDLLGMMEVLPGRCVPIAKRELLWAGSAGLACW  
 LAGVIFIDRKRTGDAISVMSEVAQTLLTQDVRVWVFPEGTRNHNGSMLPFKRGAFHLAVQAQVPIVPIVM  
 SSYQDFYCKKERRFTSGQCQVRVLPVPTEGLTPDDVPALADRVRHSM LTVFREISTDGRGGGDYLLKPKG  
 GGG

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\_032741

**ORF Size:** 849 bp

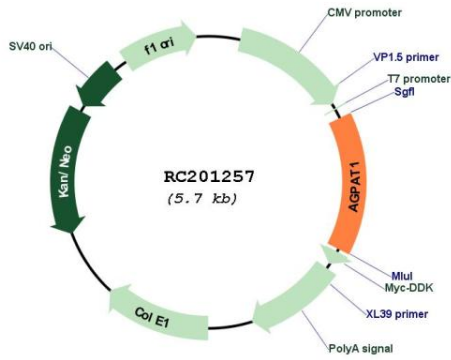
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_032741.5</u>
<b>RefSeq Size:</b>	2023 bp
<b>RefSeq ORF:</b>	852 bp
<b>Locus ID:</b>	10554
<b>UniProt ID:</b>	<u>Q99943</u>
<b>Cytogenetics:</b>	6p21.32
<b>Domains:</b>	Acyltransferase
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways
<b>MW:</b>	31.5 kDa
<b>Gene Summary:</b>	This gene encodes an enzyme that converts lysophosphatidic acid (LPA) into phosphatidic acid (PA). LPA and PA are two phospholipids involved in signal transduction and in lipid biosynthesis in cells. This enzyme localizes to the endoplasmic reticulum. This gene is located in the class III region of the human major histocompatibility complex. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201257