OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC200622

AGPAT2 (NM_001012727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT2 (NM_001012727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGPAT2
Synonyms:	1-AGPAT2; BSCL; BSCL1; LPAAB; LPAAT-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC200622 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTGTGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGG
CCGAGTTCTACGCCAAGGTCGCCCTGTACTGCGCGCTGTGCTTCACGGTGTCCGCCGTGGCCTCGCTCGT
CTGCCTGCTGCGCCACGGCGGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCGAAGCTTC
AAGTACTTTTACGGGCTCCGCTTCGAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCGTCCCTGTGTCA
TCGTCTCCAACCACCAGAGCATCCTGGACATGATGGGCCTCATGGAGGTCCTTCCGGAGCGCTGCGTGCA
GATCGCCAAGCGGGAGCTGCTCTTCCTGGGGCCCGTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTC
ATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATGGCCGACCTGGGCGAGCGCATGGTCAGGGAGA
ACGTGCCCATCGTCCCCGTGGTGTACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCAC
TTCAGGAACAGTCACAGTGCAGGTGCTGGAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCT
GCGCTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGA
ACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC200622 protein sequence
Red=Cloning site Green=Tags(s)

MELWPCLAAALLLLLLVQLSRAAEFYAKVALYCALCFTVSAVASLVCLLRHGGRTVENMSIIGWFVRSF
KYFYGLRFEVRDPRRLQEARPCVIVSNHQSILDMMGLMEVLPERCVQIAKRELLFLGPVGLIMYLGGVFF
INRQRSSTAMTVMADLGERMVRENVPIVPVVYSSFSSFYNTKKKFFTSGTVTVQVLEAIPTSGLTAADVP
ALVDTCHRAMRTTFLHISKTPQENGATAGSGVQPAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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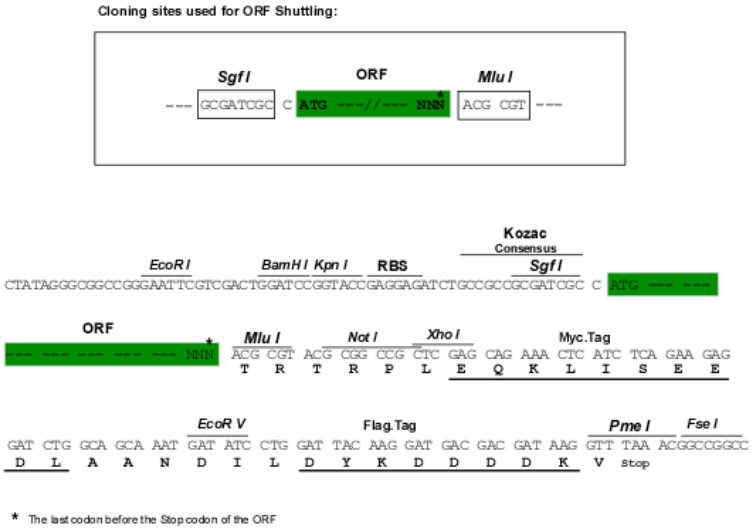
Chromatograms: https://cdn.origene.com/chromatograms/mk6408_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012727

ORF Size: 738 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001012727.2
RefSeq Size:	1480 bp
RefSeq ORF:	741 bp
Locus ID:	10555
UniProt ID:	O15120
Cytogenetics:	9q34.3
Protein Families:	Transmembrane
Protein Pathways:	Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways
MW:	27.3 kDa
Gene Summary:	This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. The protein is located within the endoplasmic reticulum membrane and converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. Mutations in this gene have been associated with congenital generalized lipodystrophy (CGL), or Berardinelli-Seip syndrome, a disease characterized by a near absence of adipose tissue and severe insulin resistance. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

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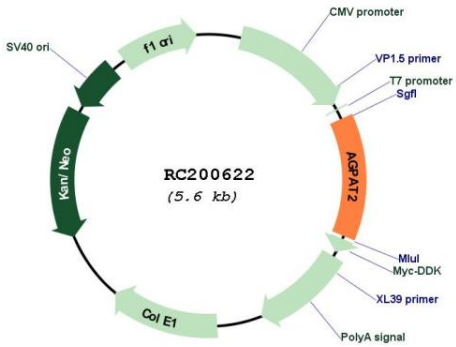
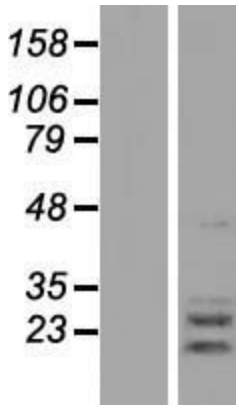
Product images:



Circular map for RC200622



Western blot validation of overexpression lysate (Cat# [LY422822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200622 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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