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Product datasheet for SC321376

AGPAT2 (NM_006412) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT2 (NM_006412) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGPAT2
Synonyms:	1-AGPAT2; BSCL; BSCL1; LPAAB; LPAAT-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_006412.3
GGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCCGGGCCATGGAGCTGTGGCCG
TGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCCGAG
TTCTACGCCAAGGTCGCCCTGTACTGCGCGCTGTGCTTCACGGTGTCCGCCGTGGCCTCG
CTCGTCTGCCTGCTGCGCCACGGCGGCCGGACGGTGGAGAACATGAGCATCATCGGCTGG
TTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTCGAGGTGCGGGACCCGCGCAGG
CTGCAGGAGGCCCGTCCCTGTGTCATCGTCTCCAACCACCAGAGCATCCTGGACATGATG
GGCCTCATGGAGGTCCTTCCGGAGCGCTGCGTGCAGATCGCCAAGCGGGAGCTGCTCTTC
CTGGGGCCCGTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTCATCAACCGGCAGCGC
TCTAGCACTGCCATGACAGTGATGGCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTC
AAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAATGGGGACCTGCTGCCTTTTAAG
AAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCTTCCCCGTGGTGTACTCT
TCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACTTCAGGAACAGTCACAGTG
CAGGTGCTGGAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTG
GACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAG
AACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCAGTAGCCCAGACCACGGCAGGGC
ATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGACTCCTCC
CGGCTTCCAAATACCACTCTGTCCGGCTCCCCCAGCTCTCACTCAGCCCGGGAAGCAGGA
AGCCCCTTCTGTCACTGGTCTCAGACACAGGCCCCTGGTGTCCCCTGCAGGGGGCTCAGC
TGGACCCTCCCCGGGCTCGAGGGCAGGGACTCGCGCCCACGGCACCTCTGGGAGCTGGGA
TGATAAAGATGAGGCTTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGGCCCCCGAT
GGCCCAGGAGCAGATGGGAGGACCCCGAGGCCAGACGCACACTGTCCGAGCCCTCTGCTC
AGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAGCCCACAAGCTGCATC
AGGGTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG
CCACAGGGAGCCGGGAATCGGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGT
CAGCACTGTACTCCGTTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_006412
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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_006412.3, NP_006403.2
RefSeq Size:	1576 bp
RefSeq ORF:	837 bp
Locus ID:	10555
UniProt ID:	O15120
Cytogenetics:	9q34.3
Domains:	Acyltransferase
Protein Families:	Transmembrane
Protein Pathways:	Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways

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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).