

Product datasheet for SC301710

AGPAT2 (NM_001012727) Human Untagged Clone

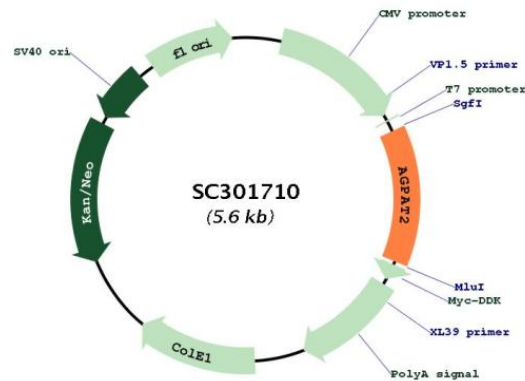
Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT2 (NM_001012727) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC301710 representing NM_001012727. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCTGTGGCCGTGTCTGGCCGCGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCG
GCCGAGTCTACGCCAAGGTCGCCCTGTACTGCGCGCTGTGCTTACGGGTGTCGCCCGTGGCCTCGCTC
GTCTGCCTGTGCGCCACGGCGCCGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCCAAGC
TTCAAGTACTTTACGGGCTCCGCTTCGAGGTGCGGGACCGCGCAGGCTGCAGGAGGCCCTCCCTGT
GTCATCGTCTCCAACCACGAGCATCCTGGACATGATGGCCTCATGGAGGTCTTCCGGAGCGCTGC
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TTCTTCATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATGGCCGACCTGGGCGAGCGCATGGTC
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TTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTGGAAGCCATCCCCACCGCGCCTCACTGCGGCG
GACGTCCTGCGCTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCTCCACATCTCCAAGACC
CCCCAGGAGAACGGGGCCACTGCGGGTCTGGCGTGCAGCCGGCCAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCG
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Restriction Sites: Sgfl-Mlul



Plasmid Map:


ACCN: NM_001012727

Insert Size: 741 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001012727.1](#)

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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b).</p>