

Product datasheet for **SC320209**

Acyltransferase like 1 (LPCAT2) (NM_017839) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acyltransferase like 1 (LPCAT2) (NM_017839) Human Untagged Clone
Tag:	Tag Free
Symbol:	Acyltransferase like 1
Synonyms:	AGPAT11; AYTL1; LysoPAFAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_017839.3
 CAGGCGCTAAGTAACTTCAGCGCCTGCGCAGAGGCTCCCCAGCGTCGCCCTAGGCTGGG
 ACTCTAGTAGGTCTTCGGCTCAGTTTTGGCTGCAGCGCCCGCGTAGATCGCTTCGGCCGG
 GTTCTACGCCCGGCTCAACTATGAGCCGGTGCGCCAGGCGGGGAAGTGGCGGCCACAG
 TGCCAGGTGCCGGCGTCGGAACGTGGGGCTGCGGCCGCCCATGGTGCCCGTCAGGCGT
 CCTTCTTCCCGCCGGTGCCTTCTTGGGATTATCTTGCTTCCAATTGGTGTCTTATTGGTTG
 GCGGGTCCAGATTGTCCTTCTTGGGATTATCTTGCTTCCAATTGGTGTCTTATTGGTTG
 CGTTAATTTTACTTGCATGGCCATTTGCTGCAATTTCAACAGTATGCTGTCTGAAA
 AGCTGACCCACCAATAACTGGTTGGAGGAGGAAAATTAACAACAGCTTTGAAATTTT
 TGGGTCGTGCTATGTTCTTTTCAATGGGATTTATAGTTGCTGTAAAAGGAAAGATTGCAA
 GTCCTTTGGAAGCACCAGTTTTTGTGCTGCCCTCATTCAACATTTCTTGATGGAATTG
 CCTGTGTGTAGCTGGGTACCTTCTATGGTATCTCGAAATGAGAATGCACAAGTCCCTC
 TGATTGGCAGACTGTTACGGGCTGTGCAACCAGTTTTGGTGTCCCGTGTAGATCCGGATT
 CCCGAAAAACACAATAAATGAAATAATAAAGCGAACAACATCAGGAGGAGAATGGCCCC
 AGATACTAGTTTTCCAGAAGGTAATGTAATAATCGTTCTGTGTTGATTACTTTTAAAC
 CAGGAGCCTTCATTCCAGGAGTTCAGTGCAGCCAGTCCCTCCTCAGATACCCAAACAAGC
 TGGATACTGTGACCTGGACATGGCAAGGATATACATTCATTTCAGCTTTGTATGCTTACTT
 TCTGCCAGCTCTTCACAAAGGTAGAAGTTGAGTTTATGCCAGTTCAAGTACCAAATGATG
 AAGAAAAAATGATCCTGTCTTTTTGCCAATAAAGTCCGGAAATTTAATGGCAGAAGCTC
 TGGGAATACCAGTAACAGATCATACCTATGAAGACTGCAGATTGATGATTCAGCAGGAC
 AGCTAACATTGCCTATGGAAGCTGGGCTGGTGGAAATTTACTAAAATTAGCCGAAAATTGA
 AATTAGATTGGGATGGTGTTCGTAAGCATTGGATGAATATGCATCTATTGCGAGTTCCT
 CAAAAGGAGGAAGAATTGGAATTGAAGAATTCGCAAGTATTTAAAGTTGCTGTTTCAG
 ATGTCTTGAGACAACTTTTTGCACCTTTGACAGGAACCATGATGGCAGCATTGACTTCC
 GAGAGTATGTGATTGGCCTGGCTGTCTTGTGCAACCCTTCCAACACAGAGGAGATCATCC
 AGGTGGCATTAAAGCTGTTTACGTTGATGAGGATGGCTACATAACGGAGGAAGATTCT
 CCACCATTCTACAGGCTTCCCTTGGAGTGCCTGACCTTGATGTTTCTGGTCTCTTCAAGG
 AAATAGCCCAAGGGGACTCAATTTCTATGAGGAATTTAAAAGTTTTGCCTTAAAGCATC
 CAGAATATGCTAAGATATTTACAACATACCTAGACCTCCAGACGTGCCATGTGTTTTTCAT
 TACCAAAAAGAAGTCCAGACAACCCCTCCACCGCCAGTAATAAAGTCAGCCCTGAAAAGC
 ATGAAGAGAGTACCTCAGACAAAAAAGTACTGAAAGCAGTATTTCCAATAAGGAAAAC
 ACAGTAGCTTTTCTTGAATTGTAAAGCACTTATTGATAATACTTTTAAATGTGTGGT
 AATGATGTTTAAAATTGAAAGATTTTTAAAATAAAAATGATAGATTTTCTACTAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_017839

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_017839.3](#), [NP_060309.2](#)

RefSeq Size: 1937 bp

RefSeq ORF: 1635 bp

Locus ID: 54947

UniProt ID: [Q7L5N7](#)

Cytogenetics: 16q12.2

Domains: EFh, Acyltransferase

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi. [provided by RefSeq, Feb 2009]