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 SC128138

LPCAT1 (NM_024830) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LPCAT1 (NM_024830) Human Untagged Clone
Tag:	Tag Free
Symbol:	LPCAT1
Synonyms:	AGPAT9; AGPAT10; AYTL2; lpcat; LPCAT-1; lysoPAFAT; PFAAP3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_024830, the custom clone sequence may differ by one or more nucleotides

ATGAGGCTGCGGGGATGCGGACCCCGGGCCGCCCCTGCCTCCAGCGCAGGGGCCAGCGACGCTCGGCTGC
TGGCGCCCCCGGGGCGGAACCCCTTCGTGCACGAGCTGCGCCTCAGCGCCCTGCAGAAGGCCCAGGTGGC
CCTCATGACACTGACGCTCTTCCCGGTCCGGCTCCTGGTTGCCGCTGCCATGATGCTGCTGGCCTGGCCC
CTCGCACTTGTCGCATCCCTGGGCTCTGCGGAGAAGGAACCCGAGCAGCCCCCGGCCCTGTGGAGGAAGG
TTGTGGACTTCCTGCTGAAGGCCATCATGCGCACCATGTGGTTCGCCGGCGGCTTCCACCGGGTGGCCGT
GAAGGGGCGGCAGGCGCTGCCCACCGAGGCGGCCATCCTCACGCTCGCGCCTCACTCGTCCTACTTCGAC
GCCATCCCTGTGACCATGACGATGTCCTCCATCGTGATGAAGGCAGAGAGCAGAGACATCCCGATCTGGG
GAACTCTGATCCAGTATATACGGCCTGTGTTCGTGTCCCGGTCAGACCAGGATTCTCGCAGGAAAACAGT
AGAAGAAATCAAGAGACGGGCGCAGTCCAACGGAAAGTGGCCACAGATAATGATTTTTCCAGAAGGAACT
TGTACAAACAGGACCTGCCTAATTACCTTCAAACCTGGTGCATTCATCCCTGGAGCGCCCGTCCAGCCTG
TGGTTTTACGATATCCAAATAAACTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAAT
CCTGTGGCTCACGCTGTGTCAGTTTCACAACCAAGTGGAAATCGAGTTCCTTCCTGTGTACAGCCCTTCT
GAGGAGGAGAAGAGGAACCCCGCGCTGTATGCCAGCAACGTGCGGCGAGTCATGGCCGAGGCCTTGGGTG
TCTCCGTGACTGACTACACGTTCGAGGACTGCCAGCTGGCCCTGGCGGAAGGACAGCTCCGTCTCCCCGC
TGACACTTGCCTTTTAGAATTTGCCAGGCTCGTGCGGGGCCTCGGGCTAAAACCAGAAAAGCTTGAAAAA
GATCTGGACAGATACTCAGAAAGAGCCAGGATGAAGGGAGGAGAGAAGATAGGTATTGCGGAGTTTGCCG
CCTCCCTGGAAGTCCCCGTTTCTGACTTGCTGGAAGACATGTTTTCACTGTTCGACGAGAGCGGCAGCGG
CGAGGTGGACCTGCGAGAGTGTGTGGTTGCCCTGTCTGTCGTCTGCCGGCCGGCCCGGACCCTGGACACC
ATCCAGCTGGCTTTCAAGATGTACGGAGCGCAAGAGGACGGCAGCGTCGGCGAAGGTGACCTGTCCTGCA
TCCTCAAGACGGCCCTGGGGGTGGCAGAGCTCACCGTGACCGACCTATTCCGAGCCATTGACCAAGAGGA
GAAGGGGAAGATCACATTCGCTGACTTCCACAGGTTTGCAGAAATGTACCCTGCCTTCGCAGAGGAATAC
CTGTACCCGGATCAGACACATTTCGAAAGCTGTGCAGAGACCTCACCTGCGCCAATCCCAAACGGCTTCT
GTGCCGATTTCAGCCCGGAAAACTCAGACGCTGGGCGGAAGCCTGTTCGCAAGAAGCTGGATTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024830 unedited
GGGGGGNNNGGGGGGANNNNNNNNNNTTTNNNNNNNNTTTTTTCCCCCGCCCGTTGNCGC
AAAGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAAGCAGAGCTCATTTAGGTGACAC
TATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGCGCCGC
GCATCCTCGGCCCGCGCCCCGAGACCCGCGCCCAGCTAGCCCCGGCCCCGCTCGGCGCCC
CAGGCAGCTCGGCTGCGCTCGCCGCGGGACGGCGCGGCCATGAGGCTGCGGCGATGCGGA
CCCCGGGCCGCCCCTGCCTCCAGCGCAGGGGCCAGCGACGCTCGGCTGCTGGCGCCCCCG
GGGCGGAACCCCTTCGTGCACGAGCTGCGCCTCAGCGCCCTGCAGAAGGCCCAGGTGGCC
CTCATGACACTGACGCTCTTCCCGGTCCGGCTCCTGGTTGCCGCTGCCATGATGCTGCTG
GCCTGGCCCCTCGCACTTGTCGCATCCCTGGGCTCTGCGGAGAAGGAACCCGAGCAGCCC
CCGGCCCTGTGGAGGAAGGTTGTGGACTTCCTGCTGAAGGCCATCATGCGCACCATGTGG
TTCGCCGGCGGCTTCCACCGGGTGGCCGTGAAGGGGCGGCAGGCGCTGCCCACCGAGGCG
GNCATNCTCACGCTCGCGCCTCACTCGTNCTACTTCGACGCCATCCCTGTGACCATGACG
ATGTCCTCCATCGTGATGAAGGCAGAGAGCAGAGACATCCCGATCTGGGGAACTCTGATC
CAGTATATACGGCCTGTGTTCGTGTCCCGGTCAGACCAGNATTCTCGCAGGAAAACAGTN
GAAAGAAATCAGAGACGGGCGCAGTCCAACGGGAAGTGGCCACAGATAATGATTTTTCCA
GAAGGACCTGTACAACAGGACCTGNCTAATACCTTCAACCTG

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_024830 unedited
NNNAACCATTAANCTTTTAGTTTTCATTATTCCATGNAAAATCCAGTTCCTTCAGGCAAC
CCTCCCTCTGCCCTCAACCCCACAGTCCCCGCAGCCAGGGCCCTGCCCCACCTGCCCACG
GGTCTGGCCCCCAGGCCACCAGGGGCCCGCTGCGTCCTGTCTCACACACAAGGGGTTTAA
CTCAACGCTATGTACATTCACAGTTCCGAATATCCGCCAACTCTAAGTCGCCACGAAGAG
AAAAGAGAATCAGGAGGAACAAACATCCATTCAAAGTCTGTTTATCAGAGATTTTTTTTT
CTGAAAATGCACAGTGGCATTTCATTCAAAAAACCCTTCATCTGCAGACCTGCGGAAGGG
AGGTGGCCTGGGTCCCTTCCCTCGGAATATCTTAGTTTATTTACCTCCTTCATTGGCCAT
TTGCAGGCTCTTCTCCTTGAAAAATGAATCTTTACGCATTCTCCAATTATAAAATCAGTG
ACTGTTAGCTACCAAAGGCTGCACTAGGATTTCTTCTGTGTCCAACACGCCAAGAGCCCT
GAAATTGACTTCGGTTTACTCCATCCCTGTCTGTCCTGCTGGCAGTGTCCATGCTAAAAA
ACAAGTCGAGGTGATTGATTGAAACGGAGCTGAAGGTTGTTTTTAAATGTCTGTCAGTGG
AGAAACGCGTATCACGAATCTCTGAGGAAGTTAGTAAACATTTTTTCCCGTACTTACTGG
CCTTGGTGGTCACTTTCTATAGAGATGCCCCANATATAAAAATCAATTCATTTCAGANAT
CAAAAAAATTTCCAAACAAACCCGGAGCCTTTGCTTTANGAAGCAAACTCAAGTCTGTGA
TGATTATTGTGCTTGAAGGATGGGTTTCTAATTCTGTCATANAAAATGATGAAACA
```

Restriction Sites: NotI-NotI

ACCN: NM_024830

Insert Size: 4100 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).

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_024830.3, NP_079106.3

RefSeq Size: 3994 bp

RefSeq ORF: 1605 bp

Locus ID: 79888

UniProt ID: Q8NF37

Cytogenetics: 5p15.33

Domains: EFh, Acyltransferase

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the 1-acyl-sn-glycerol-3-phosphate acyltransferase family of proteins. The encoded enzyme plays a role in phospholipid metabolism, specifically in the conversion of lysophosphatidylcholine to phosphatidylcholine in the presence of acyl-CoA. This process is important in the synthesis of lung surfactant and platelet-activating factor (PAF). Elevated expression of this gene may contribute to the progression of oral squamous cell, prostate, breast, and other human cancers. [provided by RefSeq, Sep 2016]