

## Product datasheet for **MC202704**

### Lpcat4 (NM\_207206) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lpcat4 (NM_207206) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lpcat4
Synonyms:	Agpat7; AI505034; Ayt13; LPEAT2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC068131 sequence for NM\_207206  
 GCTGCCAGTGCCGCACGAGCCGCGCTGCTCTGCAGAGCCGGACCGGGAGCGGGGCCGGCCGGGAGCGG  
 GGGGTCGCGGCCCTCGCTCGACCTTCTCCACCATGAGCCAGGGAAGTCTGGGGCTGGGCCCCCTGG  
 ATCCCACCTCTGGGTCTCTGCGTCCCCAAACCGTTCGTGCATGAGTTACACCTCTCCGGCCTCCAGAG  
 GGTAAAGTTCTGCCTCTGGGGTACTGCTGGCCCAATCCGAGTACTTCTAGCTTTTATTGTCCTTTT  
 CTCCTCTGGCCCTTCGCGTGGCTCCAAGTAGCAGGTCTCACTGAAGAGCAGCTTCAGGAACCAATTACAG  
 GATGGAGGAAGACTGTATGCCACAACGGGTTCTTGGTCTGAGCCGCTGCTATTTTTCTGCTTGGCTT  
 CCTTCGGATCCGTGTTCCGGGTCAAAGGCCTCTCGCTCGAAGCCCTGTCTGGTTGCTGCCCCAC  
 TCAACTTTCTTTGACCAATTGTCTGCTACCCTGTGACCTGCCCAAGGTTGTGTCTCGAGCTGAGAATC  
 TTTCTGTGCTGTCAATTGGAGCACTCTTCGATTTAATCAAGCCATCCTAGTCTCCCGCATGACCCCGC  
 CTCTCGGCGCAGAGTGGTTGAGGAGTCAAGAGCGGGCTACTTCAGGAGCAAGTGGCCTCAGGACTA  
 TTTTTCTGAAGGCACCTGTTCAACAAGAAGGCTCTGCTGAAGTTCAAACCAGGAGCCTTCATCGCAG  
 GGGTGCCCGTGCAGCCCGTCTCATCCGATACCCCAACAGTCTGGACACCACAGCTGGGCATGGAGGGG  
 CCCCAGGCTACTCAAAGTTCTCTGGCTCACCGCTCTCAGCCCTGCAGCATCGTGGATGTAGAGTTCCTC  
 CCTGTCTATCAGCCAGCCTGGAGGAGTAAGGACCCACCCCTTATGCCAACAACGTCCAGAGAGTCA  
 TGGCACAGGCCCTGGGCATTCCAGCCACTGAATGTGAGTTGTAGGGAGCTTGCCTGTGATTGTGGTGGG  
 CCAGCTGAAGGTAGCGTTGGAGCCGAGCTCTGGGAGCTGGCAAAGGTGTACAGAAGGCTGGGCTGTCC  
 CCTGGCTTTGTGGACATGGGGCAGAGCCAGGCCGAGTCAAGTATGATCAGCCAAGAGGCCTTTGCCAAC  
 AGTTACAGCTCTCGGATCCTCAGACAGTGGCTGGTGCCTTCAGCTACTTCCAGCAGGATGCCAAGGTTT  
 GGTTGACTTCCGAAATGTGGCCCTAGCGCTAGCGGCCCTGGACGGGGCAGGAGCCTGGAGGAGCTGACT  
 CGCCTGGCCTTTGAGCTCTTGTGAAGAGCAGGCAGAAGGATCTGACCGGCTGTGTACAAAGACGGCT  
 TCAGCACCATCTGCACCTGTTGCTGGGTTACCCCGCCCGCTGCCACGACTTTGCATGCCGAGCTGTG  
 CCAGCCTGGATGCAGCCAGGCCCTCTCCCTCTGTCAAGTCCAGAACTTCTCCCTCCACGACCTCTGAC  
 GGCAAGCTTTTTCAGCGCTACCTACGCCCCACACAAGCCTCGAAGCACCTCCAGATACCAAATGCCT  
 CATCCCCCAGCAGCCCACTGCCCTGGCCAACGGGACTGTGCAGGCCCAAGCAGAAGGGAGACTGAGC  
 GCCTCAGTTCCCACTTTCTCAGCTCAAACCCAGCCCTGCTCTCAGGACGGCGTCAGAGCCCTACCCTA  
 TGCTCAACCCACCTCTGCTCTGTTGATTTTTTTTTTTTTTTGGTTATTTTTTTTTTTTATTTTTTT  
 TGTTTGGTGGGTCTTTTGTAAAAGACTATTTTATATATAAATATAAATATATATCTAATAAAAAAAA  
 CCTGAAGCTTGAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_207206

**Insert Size:** 1575 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: [BC068131](#), [AAH68131](#)

RefSeq Size: 1919 bp

RefSeq ORF: 1575 bp

Locus ID: 99010

UniProt ID: [Q6NVG1](#)

Cytogenetics: 2 E3

**Gene Summary:** Displays acyl-CoA-dependent lysophospholipid acyltransferase activity with a subset of lysophospholipids as substrates; converts lysophosphatidylethanolamine to phosphatidylethanolamine, 1-alkenyl-lysophosphatidylethanolamine to 1-alkenyl-phosphatidylethanolamine, lysophosphatidylglycerol and alkyl-lysophosphatidylcholine to phosphatidylglycerol and alkyl-phosphatidylcholine, respectively. In contrast, has no lysophosphatidylinositol, glycerol-3-phosphate, diacylglycerol or lysophosphatidic acid acyltransferase activity. Prefers long chain acyl-CoAs (C16, C18) as acyl donors (By similarity). Converts lysophosphatidylcholine to phosphatidylcholine.[UniProtKB/Swiss-Prot Function]