

Product datasheet for **MR208415**

Lpcat4 (NM_207206) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpcat4 (NM_207206) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lpcat4
Synonyms:	Agpat7; AI505034; Ayt13; LPEAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208415 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCAGGGAAGTCTGGGGCTGGGCCCCCTGGATCCCACCTCTGGGTCTCTGCGTCCCCAAACC
 CGTTCGTGCATGAGTTACACCTCTCCGGCTCCAGAGGGTTAAGTTCTGCCTCCTGGGGTACTGCTGGC
 CCCAATCCGAGTACTTCTAGCTTTTATTGTCTCTTTCTCCTCTGGCCCTTCGCGTGGCTCCAAGTAGCA
 GGTCTCACTGAAGAGCAGCTTCAGGAACCAATTACAGGATGGAGGAAGACTGTATGCCACAACGGGGTTC
 TTGGTCTGAGCCGCTGCTATTTTTCTGCTTGGCTTCTTCGGATCCGTGTCCGGGTCAAAGGCGCTC
 TCGCCTCGAAGCCCTGTCTGGTTGTGCCCCCACTCAACTTTCTTTGACCAATTGCTCTGCTACCC
 TGTGACCTGCCAAGGTTGTGTCTCGAGCTGAGAATCTTCTGTGCCTGTATTGGAGCACTCTTCGAT
 TTAATCAAGCCATCCTAGTCTCCCGCATGACCCCGCTCTCGGCGCAGAGTGGTTGAGGAGGTCAGAAG
 GCGGGCTACTTCAGGAGCAAGTGGCCTCAGGTAATTTTTCTGAAGGCACCTGTTCCAACAAGAAG
 GCTCTGTGAAGTTCAAACAGGAGCCTTCATCGCAGGGGTGCCGTGCAGCCCGTCTCATCCGATACC
 CCAACAGTCTGGACACCACAGCTGGGCATGGAGGGGCCCGGCGTACTCAAAGTTCTCTGGCTCACCGC
 CTCTCAGCCCTGCAGCATCGTGGATGTAGAGTTCTCCCTGTCTATCAGCCAGCCTGGAGGAGAGTAAG
 GACCCACCCCTTATGCCAACAACGTCCAGAGAGTCATGGCACAGGCCCTGGGCATTCCAACCACTGAAT
 GTGAGTTTGTAGGGAGCTTGCCGTGATTGTGGTGGGCCAGCTGAAGGTAGCGTTGGAGCCGAGCTCTG
 GGAGCTGGCAAAGGTGCTACAGAAGGCTGGGCTGTCCCTGGCTTTGTGGACATGGGGCAGAGCCAGGC
 CGGAGTCGAATGATCAGCCAAGAGGCTTTGCCAACAGTTACAGCTCTCGGATCCTCAGACAGTGGCTG
 GTGCCTTCAGTACTTCCAGCAGGATGCCAAGGTTTGGTTGACTCCGAAATGTGGCCCTAGCGCTAGC
 GGCCCTGGACGGGGCAGGAGCCTGGAGGAGTGAATCGCCTGGCCTTTGAGCTCTTTGCTGAAGAGCAG
 GAGAAGGATCTGACCGCTGCTGTACAAAGACGGCTTACGACCATCCTGCACCTGTTGCTGGGTTAC
 CCCGCCCCCGCCACGACTTTGCATGCCGAGCTGTGCCAGCCTGGATGCAGCCAGGGCCTCTCCCTCTG
 TCAGTTCCAGAATCTCCCTCCAGCCTCTGTACGGCAAGCTTTTCAGCGCTACCTACGCCCCCA
 CACAAGCCTCGAAGCACCTCCAGATACCAATGCCTCATCCCCAGCAGCCCACTGCCCTGGCCAACG
 GGACTGTGCAGGCCCCCAAGCAGAAGGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208415 protein sequence
 Red=Cloning site Green=Tags(s)

MSQSPGAWAPLDPTSGSSASPNPFVHELHL SGLQRVKFCLLVLLAPIRVLLAFIVL FLLWPF AFWLQVA
 GLTEEQLEPITGWRKTVCHNGVLGLSRLLFLLGFLRIRVRGQRASRL EAPV LVAAPHSTFFDPIVLLP
 CDLPKVVSRANLSVPVIGALLRFNQAILVSRHDPASRRRVVEEVRRRATSGGKWPQVLFPEGTCSNKK
 ALLKFKPGAFIAGVPVQPV LIRYPNSLDTTSAWRGPGVLKVLWLTASQPCSIVDVEFLPVYQPSLEESK
 DPTLYANNVQRVMAQALGIPTTECFVGS LPVIVVQ LKVALEPQLWELAKVLQKAGLSPGFVDMGAEPG
 RSRMISQEAFAQQQLQLSDPQTVAGAF SYFQQDAKGLVDFRNV ALALAALDGGRSLEELTRLAFELFAEEQ
 AEGSDRLLYKDFSTILHLLGSPRPAATTLHAELCQPGCSQGLSLCQFQNFSLHDP LYGKLF SAYLRPP
 HKPRSTSQIPNASPSSPTALANGTVQAPKQKGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_207206

ORF Size: 1575 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_207206.1](#), [NM_207206.2](#), [NP_997089.1](#)

RefSeq Size: 1920 bp

RefSeq ORF: 1575 bp

Locus ID: 99010

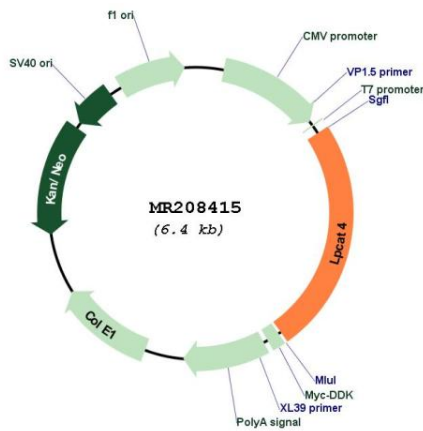
UniProt ID: [Q6NVG1](#)

Cytogenetics: 2 E3

MW: 57.2 kDa

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]

Product images:



Circular map for MR208415