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Product datasheet for MC217637

Lpcat1 (NM_145376) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpcat1 (NM_145376) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lpcat1
Synonyms:	2900035H07Rik; Aytl2; BB137372; BC005662; C87117; LPCAT; rd11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC217637 representing NM_145376
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCTGCGGGGCCGCGGGCCGCGGGCCGCCCCCTCCTCCAGCTCTGGGGCAGGCGACGCGCGGCGCC
TAGCGCCCCCGGGGCGGAACCCCTTCGTGCACGAGCTGCGACTGAGCGCCCTGCAGAAGGCCCAGGTGGC
TTTCATGACGTTGACGCTGTTCCCCATCCGGCTCCTGTTCGCTGCTTTCATGATGCTGCTGGCCTGGCCC
TTTGCACTCCTGGCTTCCCTGGGACCTCCTGATAAGGAGCCAGAGCAGCCCCTGGCCTTATGGAGGAAGG
TCGTGGACTTCCTGCTCAAGGCCATCATGCGCACCATGTGGTTTGCTGGCGGCTTCCACCGTGTAGCTGT
GAAGGGGCGGCAGGCCCTGCCTACTGAGGCTGCTATCCTCACCTTGGCTCCACATTCCTCCTACTTTGAT
GCCATCCCGGTCACCATGACCATGTCCTCCATTGTGATGAAGGCAGAGAGCAGAGACATCCCAATCTGGG
GAACTCTGATAAGATACATCAGGCCAGTGTTCGTGTCCCGCTCTGACCAGGACTCGCGAAGGAAGACAGT
GGAGGAGATCAAGCGACGGGCACAGTCGAATGGAAAGTGGCCTCAGATAATGATTTTTCCAGAAGGAACT
TGTACAAATAGGACCTGCCTCATTACCTTCAAACCTGGTGCGTTCATTCCTGGAGTTCCTGTCCAGCCCG
TGGTGCTACGCTACCCAAACAAATTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGTTGAAAAT
CCTGTGGCTCACTCTGTGCCAGTTTCAAAACCAAGTGGAAATTGAATTTCTGCCTGTGTATTGCCCTTCT
GAAGAGGAGAAGAGGAATCCTGCCCTGTATGCCAGCAATGTGAGGCGTGTCATGGCCAAGGCCCTGGGTG
TCTCAGTAACCGACTATACATTTGAGGACTGCCAGCTGGCTCTGGCAGAAGGACAACTTCGCTTGCCTGC
TGACACCTGCCTGCTAGAGTTTGCCAGGCTTGTGAGGGGCCTCGGACTAAAACCAGAAAATCTTGAAAAA
GATCTAGACAAATATTCAGAAAGTGCGAGGATGAAGAGAGGAGAGAAAATCCGCCTTCCAGAGTTTGCGG
CCTACTTGGAAGTTCCTGTCTCAGATGCACTGGAAGACATGTTCTCGCTTTTTGACGAGAGTGGTGGTGG
TGAGATTGACCTTCGTGAATATGTGGTCGCCTTGTCTGTGGTGTGCAGGCCATCCCAGACCTTAGCCACC
ATCCAGCTGGCATTCAAGATGTACGGATCTCCTGAGGATGGCAGCATAGATGAGGCCAACCTGTCCTGCA
TCCTCAAGACTGCACTGGGTGTATCAGAATTAACAGTGACCGACTTGTTCCAGGCTATTGACCAAGAGGA
CAAGGGAAGAATCACCTTTGATGACTTCTGCGGGTTTGCGGAAATGTACCCCGACTACGCAGAGGACTAC
TTGTACCCTGATCAGACACATTTCGACAGCTGTGCACAGACACCCCCAGCACCAACTCCCAATGGCTTCT
GCATTGACTTCAGCCCTGAGAACTCAGACTTTGGGAGAAAGAATTCTTGTAAGAAAGCGGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_145376

Insert Size: 1605 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).

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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_145376.5, NP_663351.3
RefSeq Size:	1605 bp
RefSeq ORF:	1605 bp
Locus ID:	210992
UniProt ID:	Q3TFD2
Cytogenetics:	13 C1
Gene Summary:	Possesses both acyltransferase and acetyltransferase activities (PubMed:16704971). Activity is calcium-independent (PubMed:18285344). Mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC) (PubMed:16704971, PubMed:18156367). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively (PubMed:16704971, PubMed:18285344). May synthesize phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory physiology (PubMed:16704971). Involved in the regulation of lipid droplet number and size (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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