

## Product datasheet for **MG208415**

### Lpcat4 (NM\_207206) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lpcat4 (NM_207206) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lpcat4
Synonyms:	Agpat7; AI505034; Ayt13; LPEAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208415 representing NM\_207206  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCCAGGGAAGTCTGGGGCTGGGCCCCCTGGATCCCACCTCTGGGTCTCTGCGTCCCAAAC  
 CGTTCGTGCATGAGTTACACCTCTCCGGCTCCAGAGGGTTAAGTTCTGCCTCCTGGGGTACTGCTGGC  
 CCAATCCGAGTACTTCTAGCTTTTATTGTCTCTTTCTCCTCTGGCCCTTCGCGTGGCTCCAAGTAGCA  
 GGTCTCACTGAAGAGCAGCTTCAGGAACCAATTACAGGATGGAGGAAGACTGTATGCCACAACGGGGTTC  
 TTGGTCTGAGCCGCTGCTATTTTTCTGCTTGGCTTCTTCGGATCCGTGTCCGGGTCAAAGGCGCTC  
 TCGCCTCGAAGCCCTGTCTGGTTGTGCCCCCACTCAACTTTCTTTGACCAATTGCTCTGCTACCC  
 TGTGACCTGCCAAGGTTGTGTCTCGAGCTGAGAATCTTCTGTGCTGTATTGGAGCACTCTTCGAT  
 TTAATCAAGCCATCCTAGTCTCCCGCATGACCCCGCTCTCGGCGCAGAGTGGTTGAGGAGGTGAGAAG  
 GCGGGCTACTTCAGGAGCAAGTGGCCTCAGGTAATTTTTCTGAAGCACCTGTTCCAACAAGAAG  
 GCTCTGCTGAAGTTCAAACAGGAGCCTTCATCGCAGGGGTGCCGTGCAGCCCGTCTCATCCGATACC  
 CCAACAGTCTGGACACCACAGCTGGGCATGGAGGGGCCCGGCGTACTCAAAGTTCTCTGGCTCACCGC  
 CTCTCAGCCCTGCAGCATCGTGGATGTAGAGTTCTCCCTGTCTATCAGCCAGCCTGGAGGAGAGTAAG  
 GACCCACCCCTTATGCCAACAACGTCCAGAGAGTCATGGCACAGGCCCTGGGCATTCCAACCACTGAAT  
 GTGAGTTTGTAGGGAGCTTGCCTGTGATTGTGGTGGGCCAGCTGAAGGTAGCGTTGGAGCCGAGCTCTG  
 GGAGCTGGCAAAGGTGCTACAGAAGGCTGGGCTGTCCCTGGCTTTGTGGACATGGGGCAGAGCCAGGC  
 CGGAGTCGAATGATCAGCCAAGAGGCTTTGCCAACAGTTACAGCTCTCGGATCCTCAGACAGTGGCTG  
 GTGCCTCAGTACTTCCAGCAGGATGCCAAGGTTTGGTTGACTCCGAAATGTGGCCCTAGCGTAGC  
 GGCCCTGGACGGGGCAGGAGCCTGGAGGAGCTGACTCGCCTGGCCTTTGAGCTCTTTGCTGAAGAGCAG  
 GAGAAGGATCTGACCGCTGCTGTACAAAGACGGCTTACGACCATCCTGCACCTGTTGCTGGGTTAC  
 CCCGCCCGCCGACGACTTTGCATGCCGAGCTGTGCCAGCCTGGATGCAGCCAGGGCCTCTCCCTCTG  
 TCAGTTCCAGAATCTCCCTCCAGCCTCTGTACGGCAAGCTTTTCAGCGCTACCTACGCCCCCA  
 CACAAGCTCGAAGCACCTCCAGATACCAATGCCTCATCCCCAGCAGCCCACTGCCCTGGCCAACG  
 GGACTGTGCAGGCCCAAGCAGAAGGGAGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208415 representing NM\_207206  
 Red=Cloning site Green=Tags(s)

MSQSPGAWAPLDPTSGSSASPMPFVHELHLSGLQRVKFCLLGVLLAPIRVLLAFIVLFLWPFAWLQVA  
 GLTEEQLEPITGWRKTVCHNGVLLSRLFFLLGFLRIRVRGQRASRLVVAAPHSTFFDPIVLLP  
 CDLPKVSRAENLSVPVIGALLRFNQAILVSRHDPASRRRVVEEVRRRATSGGKWPQVLFPEGTCSNKK  
 ALLKFKPGAFIAGVPVQPVLI RYPNSLDTTSAWRGPGVLLKVLWLTASQPCSIVDVEFLPVYQPSLEESK  
 DPTLYANNVQRVMAQALGIPTTECFVGSPLVIVVQLKVALEPQLWELAKVLQKAGLSPGFVDMGAEPG  
 RSRMISQEAFAQQLQLSDPQTVAGAFSYFQQDAKGLVDFRNVALLAALDGGRSLEELTRLAFELFAEEQ  
 AEGSDRLLYKDFSTILHLLGSPRPAATTLHAELCQPGCSQGLSLCQFQNFSLHDPYGLKFSAYLRPP  
 HKPRSTSQIPNASSPSSPTALANGTVQAPKQKGD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_207206
<b>ORF Size:</b>	1572 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_207206.1</a> , <a href="#">NP_997089.1</a>
<b>RefSeq Size:</b>	1919 bp
<b>RefSeq ORF:</b>	1575 bp
<b>Locus ID:</b>	99010
<b>UniProt ID:</b>	<a href="#">Q6NVG1</a>
<b>Cytogenetics:</b>	2 E3
<b>Gene Summary:</b>	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]