

Product datasheet for **RN201426**

Lpcat3 (NM_001012189) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpcat3 (NM_001012189) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lpcat3
Synonyms:	Grcc3f; Mboat5; Oact5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201426 representing NM_001012189
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCTACAGCGGACGGGACGTGGGAGAGACGCTAGGGCAGATGCGGGGACTGTGGCCGGGTGTCG
 AGGATCTGAGCCTTAACAAGTTGGCGACGTCCTGGGCGCGTCGGAACAGGCGCTGCGGCTCATCTTCTC
 CATCTTCTGGGCTACCCGTTGGCTCTGTTTTATCGGCATTACCTTTTCTACAAGGACAGCTACCTCATC
 CATCTCTCCACGCCTTCTCAGGCCTCTCAATCGCTTATTTCAACTTCGGCCACCAGTTCTACCACTCCT
 TGCTATGTGTTGTCTTCAATTCCTCATCTGCGACTCATGGCCGGACCATCACTGCCGTTTTACTAC
 TCTTTGCTCCAGATGGCTACCTTCTTGCTGGTTATTACTACACAGCCACCGGTGACTACGATACAAG
 TGGACAATGCCACATTGTGCTTGACATTGAAGCTAATGGGCTGTCTATTGACTACTATGACGGAGGCA
 AAGACAGGAACCTCTTGCTCTGAGCAACAGAAATATGCCATACTGGGTGCCCTCATTGCTGGAAGT
 CGCTGGCTTCTCCTACTTCTATGGAGCCTTCTTGTTAGGGCCCCAGTTTTCAATGAACCACTACATGAAG
 CTGGTGAAGGGACAGCTGACTGACGTACCAGGAAAGATGCCAAACAGCACCATACCTGCTCTCAAGCGCC
 TGAGTCTGGGCCTTGCTACCTGGTGGGCTACACCCTGCTGAGCCCCACATCACAGAAGACTATCTCCT
 CACTGAAGACTATGATACCCGCCCTTTCTGGTCCGCTGCATGTACATGCTGATCTGGGGCAAATTCGTG
 CTGTACAAATACGTCACCTGTTGGCTGGTCACAGAAGGAGTGTGCATCTTGTGAGGCTGGGCTTTAATG
 GCTTTGAAGAAAATGGGACTGTGAAATGGGATGCCTGTGCCAACATGAAAGTGTGGCTCTTTGAAACCAC
 CCCTCGCTTCACTGGCACCATCGCCTCTTTCAACATCAATACCAATGCCTGGGTAGCCCGTTACATCTTC
 AAACGCCTCAAGTTTCTTGAAAATAAAGAGCTCTACAAGTCTCTCCTTGCTATTCTTGCCCTCTGGC
 ATGGTCTGCACCTCAGGATACCTGATTTGCTTCCAGATGGAGTTCCTCATTGTTATCGTGGAAAAGCAGGC
 CACCAACCTCATTGGGACAGCCCGGCCCTGAGCAGCCTGGCCTCCATCACTGCCCTCCAGCCCTTCTAC
 TACTTGGTGAACAGACCATCCACTGGCTTTTCATGGGCTACTCTATGACTGCCTTCTGCCTCTTACAT
 GGGACAAATGGCTTAAGGTGTACAGATCCATCTATTTCTTGGACACGTCTTCTTCTGAGCCTACTTTT
 CACATTGCCTTACGTTTACAAAGCAATGGTGCCAAAGGAAAGAAAAGTTAAAAAAGAGGGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001012189

Insert Size: 1464 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:	<u>NM_001012189.1, NP_001012189.1</u>
RefSeq Size:	1935 bp
RefSeq ORF:	1464 bp
Locus ID:	362434
UniProt ID:	<u>Q5FVN0</u>
Cytogenetics:	4q42
Gene Summary:	Seems to be the major enzyme contributing to lysophosphatidylcholine acyltransferase activity in the liver. Favors unsaturated fatty acyl-CoAs as acyl donors compared to saturated fatty acyl-CoAs. Displays lysophosphatidylserine acyltransferase (LPSAT) activity (By similarity). [UniProtKB/Swiss-Prot Function]