

## Product datasheet for **RC209485L4V**

### LPCAT3 (NM\_005768) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	LPCAT3 (NM_005768) Human Tagged ORF Clone Lentiviral Particle
Symbol:	LPCAT3
Synonyms:	C3F; LPCAT; LPLAT 5; LPSAT; MBOAT5; nesy; OACT5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005768
ORF Size:	1461 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209485).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_005768.5</a>
RefSeq Size:	2297 bp
RefSeq ORF:	1464 bp
Locus ID:	10162
UniProt ID:	<a href="#">Q6P1A2</a>
Cytogenetics:	12p13.31
Domains:	MBOAT
Protein Families:	Transmembrane



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MW: 56 kDa

**Gene Summary:** Acyltransferase which mediates the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3-phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine or PC) (LPCAT activity). Catalyzes also the conversion of lysophosphatidylserine (1-acyl-2-hydroxy-sn-glycero-3-phospho-L-serine or LPS) into phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine or PS) (LPSAT activity). Has also weak lysophosphatidylethanolamine acyltransferase activity (LPEAT activity). Favors polyunsaturated fatty acyl-CoAs as acyl donors compared to saturated fatty acyl-CoAs. Seems to be the major enzyme contributing to LPCAT activity in the liver. Lysophospholipid acyltransferases (LPLATs) catalyze the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle.[UniProtKB/Swiss-Prot Function]