

## Product datasheet for **MR226965L4V**

### Lpcat1 (NM\_145376) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Lpcat1 (NM_145376) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Lpcat1
Synonyms:	2900035H07Rik; Ayt12; BB137372; BC005662; C87117; LPCAT; rd11
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_145376
ORF Size:	1602 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226965).
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_145376.5</a>
RefSeq Size:	1605 bp
RefSeq ORF:	1605 bp
Locus ID:	210992
UniProt ID:	<a href="#">Q3TFD2</a>
Cytogenetics:	13 C1



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**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]