

## Product datasheet for RR203122L3

# Lpcat1 (NM\_001100735) Rat Tagged Lenti ORF Clone

### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** Lpcat1 (NM\_001100735) Rat Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol:

Aytl2; RGD1311599 Synonyms:

**Mammalian Cell** Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Lpcat1

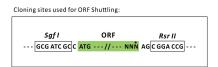
E. coli Selection: Chloramphenicol (34 ug/mL)

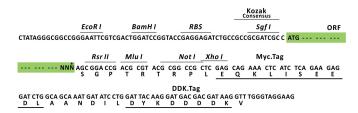
The ORF insert of this clone is exactly the same as(RR203122). **ORF Nucleotide** 

Sequence:

**Restriction Sites:** Sgfl-RsrII

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.



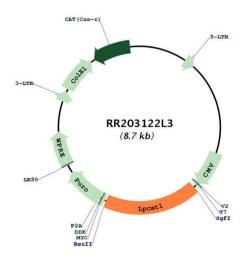
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#### Plasmid Map:



**ACCN:** NM\_001100735

ORF Size: 1602 bp

**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. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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 001100735.1</u>, <u>NP 001094205.1</u>

RefSeq Size: 3621 bp RefSeq ORF: 1605 bp



### Lpcat1 (NM\_001100735) Rat Tagged Lenti ORF Clone - RR203122L3

 Locus ID:
 361467

 UniProt ID:
 Q1HAQ0

 Cytogenetics:
 1p11

**Gene Summary:** Possesses both acyltransferase and acetyltransferase activities (PubMed:16864775). Activity is

calcium-independent (By similarity). Mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC) (PubMed:16864775). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively (PubMed:16864775). May synthesize phosphatidylcholine in

pulmonary surfactant, thereby playing a pivotal role in respiratory physiology (PubMed:16864775). Involved in the regulation of lipid droplet number and size (By

similarity).[UniProtKB/Swiss-Prot Function]