

## Product datasheet for **RC220664L3V**

### LCLAT1 (NM\_182551) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | LCLAT1 (NM_182551) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | LCLAT1   |
| Synonyms:                 | 1AGPAT8; AGPAT8; ALCAT1; HSRG1849; LYCAT; UNQ1849  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_182551  |
| ORF Size:                 | 1242 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC220664).   |
| 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_182551.3</a>  |
| RefSeq Size:              | 5077 bp  |
| RefSeq ORF:               | 1245 bp  |
| Locus ID:                 | 253558   |
| UniProt ID:               | <a href="#">Q6UWP7</a>   |
| Cytogenetics:             | 2p23.1   |
| Protein Families:         | Transmembrane  |



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|                          |   |
|--------------------------|---|
| <b>Protein Pathways:</b> | Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Limonene and pinene degradation, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism   |
| <b>MW:</b>               | 48.7 kDa  |
| <b>Gene Summary:</b>     | Exhibits acyl-CoA:lysocardiolipin acyltransferase (ALCAT) activity; catalyzes the reacylation of lyso-cardiolipin to cardiolipin (CL), a key step in CL remodeling (By similarity). Recognizes both monolysocardiolipin and dilyocardiolipin as substrates with a preference for linoleoyl-CoA and oleoyl-CoA as acyl donors (By similarity). Also exhibits 1-acyl-sn-glycerol-3-phosphate acyltransferase activity (AGPAT) activity; converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:16620771). Possesses both lysophosphatidylinositol acyltransferase (LPIAT) and lysophosphatidylglycerol acyltransferase (LPGAT) activities (PubMed:19075029). Required for establishment of the hematopoietic and endothelial lineages (By similarity).[UniProtKB/Swiss-Prot Function] |