

## Product datasheet for **RC207138L4V**

### Lipin 1 (LPIN1) (NM\_145693) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Lipin 1 (LPIN1) (NM_145693) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Lipin 1
Synonyms:	PAP1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_145693
ORF Size:	2670 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207138).
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_145693.1</a>
RefSeq Size:	5363 bp
RefSeq ORF:	2673 bp
Locus ID:	23175
UniProt ID:	<a href="#">Q14693</a>
Cytogenetics:	2p25.1
Domains:	lipin_N
MW:	98.5 kDa



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**Gene Summary:**

This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of phosphatidic acid to yield diacylglycerol. Expression of this gene is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism. Mutations in this gene are associated with metabolic syndrome, type 2 diabetes, acute recurrent rhabdomyolysis, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes. [provided by RefSeq, Mar 2017]