

Product datasheet for **RC235095**

Lipin 1 (LPIN1) (NM_001261428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 1 (LPIN1) (NM_001261428) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LPIN1
Synonyms:	PAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC235095 representing NM_001261428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAACAGGACGGCATTTCGACGCTCCAGCTGGGAGACCTCGCAGGGCAAGAGCTCCCCAGACTCGG
 CTTGGTCATGGATTCCAATAATGAGAGACCCTGGGTGGATTGCAAATGTATGGTCTTCAAACATTAACTG
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 CTGAATCCCGCCACACTCTCAGGGTGCATTGACATCATTGTATCCGCCAGCCCAATGGAACCTCCAAT
 GCTCCCCTTCCACGTCCGCTTTGGGAAGATGGGGTCTGCGCTCCCGAGAGAAAGTGGTTGACATAGA
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 ACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGAAGGAGCTTCGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235095 representing NM_001261428
 Red=Cloning site Green=Tags(s)

MGEQDGIRSSSWETSQ GKSSPDSAWSWIPIMRDPGWIRNVSSNINVQTMNYVQG LAGQVFVTKELYK
 LNPATLSGCIDIIVIRQPNGNLQCSPFHVRF GKMGVLSREKVV DIEINGESVDLHMKLDNGEAFVQ E
 TDNDQEVIPMHLATSPILSEGA SRMECQLKRGSVDRMRGLDPSTPAQVIAPSETPSSSSVVKKRRRKR
 SQLDSLKRDDNMNTSEDEMFPIEMSSDEAMELLESSRTL PNDIPPFQDDIPEENLSLAVIYPQSASYPN
 SDREWSPTPSSLVDCRRTAPHLAVAAEGLSSSCPPQSSLFHPSESPSGSRPSTPKSDSELVSKSTERTG
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 PQTEMQFVNEEDLETLGAAAPLLPMIEELKPPSASVVQTANKTDSRSRKRDRSRHLGADGVYLDL TDM
 DPEVAALYFPKNGDPSGLAKHASDNGARSANQSPQSVGSSGVDSGVESTSDGLRDLPSIAISLCGGLSDH
 REITKDAFLEQAVSYQQFVDNPAIIDDPNLVV KIGSKYYNWTTAAPLLLAMQAFQKPLPKATVESIMRDK
 MPKKGGRWWF SWRGRNTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSSDEERAAAKPSNAGH
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 SDTLGHILPTLGKDWTHQGI AKLYHKVSQNGYKFLYCSARAIGMADMRGYLHWVNERGT VLPQGPLLLS
 PSSLF S ALHREVIEKKPEKFKVQCLTDIKNLFFP NTEPFYAAFGNRPADVYSYKQVGVSLNRIFTV NPKG
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

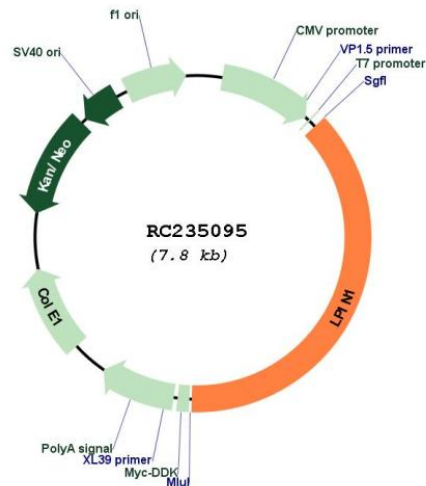
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001261428

ORF Size: 2925 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: [NM_001261428.3](#)

RefSeq Size: 5620 bp

RefSeq ORF: 2928 bp

Locus ID: 23175

UniProt ID: [Q14693](#)

Cytogenetics: 2p25.1

MW: 108.3 kDa

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]