

Product datasheet for **RC235001**

Lipin 1 (LPIN1) (NM_001261427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 1 (LPIN1) (NM_001261427) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lipin 1
Synonyms:	PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC235001 representing NM_001261427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCTGAAGGAGC
 TCTACAAGGGGCTGAATCCCGCCCACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAATGG
 AAACCTCCAATGCTCCCTTTCCACGTCCGCTTTGGGAAGATGGGGTCTCGCTCCCGAGAGAAAGTG
 GTTGACATAGAAATCAATGGGAATCTGTGGATTTGCATATGAAATGGGAGATAATGGAGAAGCATT
 TTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGA
 AGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCTGGACCCAGC
 ACGCCAGCCCAAGTGATCGCTCCAGCGAGACGCCGTCAGCAGCTCTGTAGTAAAGAAGAGAAGAAAA
 GGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACAT
 GTTCCCCATCGAGATGAGCTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTCTCCTAATGAT
 ATACCTCCATTCCAAGATGATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCTCAGTCAGCCT
 CATAACCCTAATTCGGATAGAGAGTGGTCAACCCACTCCAGTCTTCCGGTCCCGACCTTCAACACCTAA
 AAGTGATTCAGAAATGGTCAGCAAGTCCACGAAAGGACAGGGCAGAAGAACCAGAAATGCTTTGGCTG
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 TGCCAGTGTAGTCCAGACAGCAAAAGACGGATTCTCCTCCAGGAAAAGAGATAAACGAACCCGACA
 TCTTGGTCTGACGGCGTCTACTTGGATGACCTCACAGACATGGATCCTGAAGTGGCGGCCCTGTATTT
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 CCCTTCCATCGCCATCTCCCTCTGCGGGGGCTCAGCGACCACCGGAGATCACGAAAGATGCATTCCTG
 GAGCAAGCTGTGCATATCAACAGTTTGTGGACAACCCCGCTATTATCGATGACCCCAATCTCGTGGTAA
 AGATTGGGAGTAAATATTATAACTGGACAACAGCAGCACCCCTCCTCCTGGCAATGCAGGCCCTCCAGAA
 ACCTTTGCCAAAGGCCACTGTGGAATCTATCATGAGGGATAAAATGCCAAAAAGGGAGGAAGATGTTGG
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 AAACCAGGACATTATTGCTCAGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235001 representing NM_001261427
 Red=Cloning site Green=Tags(s)

MSRVQTMNYVQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPPHFVRFKMGVLR SREKV
 VDIEINGESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMECQLKRGSVDRMRGLDPS
 TPAQVIAPSETPSSSSVVKRRRKRRLKSQLDSLKRDDNMNTSEDEDMFPIEMSSDEAMELLESRTL PND
 IPPFQDDIPEENLSLAVIYPQSASYPNSDREWSPTPSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWL
 WGELPQAAKSSSPHKMKESSPLSSRKICDKSHFQAIHSESSDTFSDQSPTLVGGALLDQNKPQTEMQFVN
 EEDLETLGAAAPLLPMIEELKPPSASVVTANKTDSPSRKRDKRSRHLGADGVYLLDDL TDM DPEVAALYF
 PKNGDPSGLAKHASDNGARSANQSPQSVGSSGVD SGVESTSDGLRDLPSIAISL CGGLSDHREITKDAFL
 EQAVSYQQFVDNPAIIDDPNLVVIGSKYYNWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKGGRRWW
 FSWRGRNTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSDEERAAKPSNAGHLPLLPNVSY
 KKTLRLTSEQLSLKLKNGPNDVVFVSVTTQYQGT CRCEGTIYLVNWDKVIISDIDGTITRSDTLGHILP
 TLGKDWITHQGI AKLYHKVSQNGYKFLYCSARAIGMADMTRGYLHWVNERGT VLPQGPLLLSPSSLF SALH
 REVIEKKPEKFKVQCLTDIKNLFFPNTPEFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKT
 NISSYVRLCEVDHVFLLKRSHSSDFPCSDTF SNFTFWREPLPPFENQDIHSASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

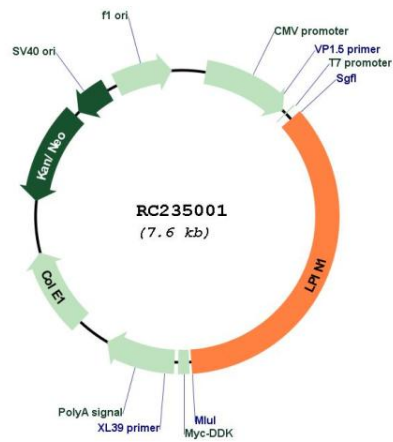
Cloning Scheme:



ACCN: NM_001261427

ORF Size:	2688 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:	<ol style="list-style-type: none">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_001261427.2
RefSeq Size:	5591 bp
RefSeq ORF:	2691 bp
Locus ID:	23175
UniProt ID:	Q14693
Cytogenetics:	2p25.1
MW:	99.8 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]

Product images:



Circular map for RC235001