

## Product datasheet for **RC234161**

### Lipin 1 (LPIN1) (NM\_001261429) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 1 (LPIN1) (NM_001261429) 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:**

>RC234161 representing NM\_001261429  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCTGAAGGAGC  
 TCTACAAGGGGCTGAATCCCGCCCACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAATGG  
 AAACCTCCAATGCTCCCTTTCCACGTCCGCTTTGGGAAGATGGGGTCTCGCTCCCGAGAGAAAGTG  
 GTTGACATAGAAATCAATGGGAATCTGTGGATTTGCATATGAAATGGGAGATAATGGAGAAGCATT  
 TTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGA  
 AGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCTGGACCCAGC  
 ACGCCAGCCCAAGTATCGCTCCAGCGAGACGCCGCAAGCAGCTCTGTAGTAAAGAAGAGAAGAAAA  
 GGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACAT  
 GTTCCCCATCGAGATGAGCTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTCTCCTAATGAT  
 ATACCTCCATTCCAAGATGATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCTCAGTCAGCCT  
 CATAACCTAATTCGGATAGAGAGTGGTCAACCCACTCCAGTAGCCTGGTAGATTGAAAAGGACTGCCCC  
 TCATCTTGCGATTGCGGCCGAGGGAGGTCTGTCTAGTTCTTGCCCTCCACAGTCTTCCCTGTTCCATCCT  
 TCGGAAAGTCTTCCGGTCCCGACCTTCAACACCTAAAAGTGATTGAGAATTGGTCAGCAAGTCCACGG  
 AAAGGACAGGGCAGAAGAACCAGAAATGCTTTGGCTGTGGGAGAGCTGCCGACGGCTGCTAAGTCTTC  
 TTCTCCACACAAGATGAAAGAGTCCAGCCATTGAGCAGTAGAAAAATTTGTGATAAAAGTCACTTTTCAG  
 GCCATTCACAGCGAATCTTCAGACACTTTTAGTGACCAATCGCCAACCTGGTCCGGTGGGCACTTTTGG  
 ACCGAAACAAGCCTCAGACAGAAATGCAGTTTGTGAATGAAGAAGACCTGGAGACCTTAGGAGCAGCAGC  
 GCCACTTTGCCATGATCGAGGAGCTCAAACCCCTCTGCCAGTGTAGTCCAGACAGCAAAACAAGACG  
 GATTCTCCTTCCAGGAAAAGAGATAAACGAAGCCGACATCTTGGTGTGACGGCGTCTACTTGGATGACC  
 TCACAGACATGGATCCTGAAGTGGCGCCCTGTATTTCCAAAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234161 representing NM\_001261429  
 Red=Cloning site Green=Tags(s)

MSRVQTMNYVQQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPPFHVRFKMGVLR SREKV  
 VDIEINGESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMQC LKRGSVDRMRGLDPS  
 TPAQVIAPSETPSSSSVVKRRRKRRLSQLDSLKRDDNMNTSEDEMFP IEMSSDEAMELLESSRTL PND  
 IPPFQDDIPEENLSLAVIYPQSASYPNSDREWSPTPSSLVDCRRTAPHLAVAAEGLSSSCP PSSLFHP  
 SESPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWLGELPQAAKSSSPHKMKES SPLSSRKICDKSHFQ  
 AIHSESSDTFSDQSPTLVGGALLDQNKPQTEMQFVNEEDLETLGAAAPLLPMIEELKPPSASV VQTANKT  
 DSPSRKRDKRSRHLGADGVYLLDLDMDPEVAALYFPPK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001261429

ORF Size: 1377 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\\_001261429.1](#), [NP\\_001248358.1](#)

RefSeq Size: 2147 bp

RefSeq ORF: 1380 bp

Locus ID: 23175

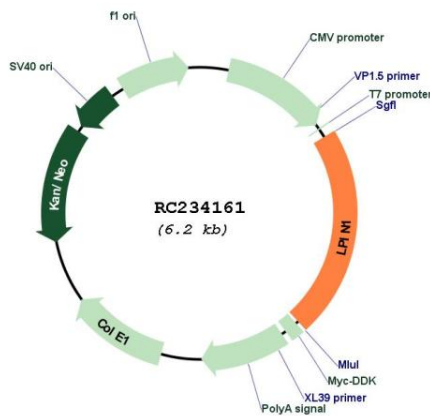
UniProt ID: [Q14693](#)

**Cytogenetics:** 2p25.1

**MW:** 51 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 RC234161