

Product datasheet for **RG234161**

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:	TurboGFP
Symbol:	Lipin 1
Synonyms:	PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234161 representing NM_001261429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCTGAAGGAGC
 TCTACAAGGGGCTGAATCCCGCCCACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAATGG
 AAACCTCCAATGCTCCCTTTCCACGTCCGCTTTGGGAAGATGGGGTCTCGCTCCCGAGAGAAAGTG
 GTTGACATAGAAATCAATGGGGAATCTGTGGATTTGCATATGAAATGGGAGATAATGGAGAAGCATTTT
 TTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGA
 AGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGACCCAGC
 ACGCCAGCCCAAGTGATCGCTCCAGCGAGACGCCGTCAGCAGCTCTGTAGTAAAGAAGAGAAGAAAA
 GGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACAT
 GTTCCCCATCGAGATGAGCTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTCTTCTAATGAT
 ATACCTCCATTCCAAGATGATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCTCAGTCAGCCT
 CATAACCTAATTCGGATAGAGAGTGGTCAACCCACTCCCAGTAGCCTGGTAGATTGCAAAAGGACTGCCCC
 TCATCTTGCGATTGCGGCCGAGGGAGGTCTGTCTAGTTCTTGCCCTCCACAGTCTTCCCTGTTCCATCCT
 TCGGAAAGTCCTCCGGTCCCGACCTTCAACACCTAAAAGTGATTGAGAATTGGTCAGCAAGTCCACGG
 AAAGGACAGGGCAGAAGAACCAGAAATGCTTTGGCTGTGGGAGAGCTGCCGACGGCTGCTAAGTCTTC
 TTCTCCACACAAGATGAAAGAGTCCAGCCATTGAGCAGTAGAAAAATTTGTGATAAAAGTCACTTTTCAG
 GCCATTCACAGCGAATCTTCAGACACTTTTAGTGACCAATCGCCAACTCTGGTCGGTGGGCACTTTTGG
 ACCAGAACAAGCCTCAGACAGAAATGCAGTTTGTGAATGAAGAAGACCTGGAGACCTTAGGAGCAGCAGC
 GCCACTCTTGCCCATGATCGAGGAGCTCAAACCCCTCTGCCAGTGTAGTCCAGACAGCAAAACAAGACG
 GATTCTCCTTCCAGGAAAAGAGATAAACGAAGCCGACATCTTGGTGTGACGGCGTCTACTTGGATGACC
 TCACAGACATGGATCCTGAAGTGGCGCCCTGTATTTCCAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234161 representing NM_001261429
 Red=Cloning site Green=Tags(s)

MSRVQTMNYVQLAGQVFVTKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPPHFVRFKMGVLRSLREKV
 VDIEINGESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMQCQLKRGSVDRMRGLDPS
 TPAQVIAPSETPSSSSVVKRRRKRRLSQLDSLKRDDNMNTSEDEDMFPIEMSSDEAMELLESSRTL PND
 IPPFQDDIPEENLSLAVIYPQSASYPNSDREWSPTPSSLVDCRRTAPHLAVAAEGGLSSSCPQSSLFHP
 SESPSGSRPSTPKSDELVSSTERTGQKNPEMLWLGELPQAAKSSSPHKMKESSPLSSRKICDKSHFQ
 AIHSESSDTFSDQSPTLVGGALLDQNKPTQTEMQFVNEEDLETLGAAAPLLPMIEELKPPSASVVQTANKT
 DSPSRKRDKRSRHLGADGVYLLDDLTDMDPEVAALYFPPK

TRTRPLE - GFP Tag - V

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

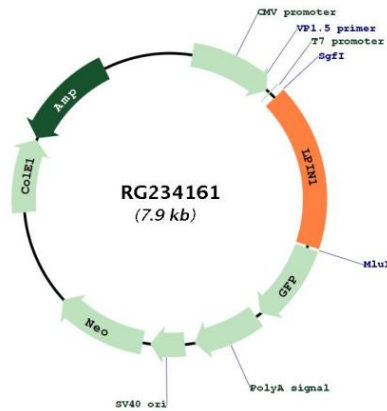
UniProt ID: [Q14693](#)

Cytogenetics: 2p25.1

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 RG234161