

Product datasheet for **RG235001**

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



[View online »](#)

ORF Nucleotide
Sequence:

>RG235001 representing NM_001261427
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCTGAAGGAGC
TCTACAAGGGGCTGAATCCCGCCCACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAATGG
AAACCTCCAATGCTCCCTTTCCACGTCCGCTTTGGGAAGATGGGGTCTCGCTCCCGAGAGAAAGTG
GTTGACATAGAAATCAATGGGAATCTGTGGATTTGCATATGAAATGGGAGATAATGGAGAAGCATT
TTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGA
AGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCTGGACCCAGC
ACGCCAGCCCAAGTGATCGCTCCAGCGAGACGCCGTCAGCAGCTCTGTAGTAAAGAAGAGAAGAAAA
GGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACAT
GTTCCCATCGAGATGAGCTCGGATGAGCCATGGAGCTGCTGGAGAGCAGCAGAACTCTCCTAATGAT
ATACCTCCATTCCAAGATGATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCTCAGTCAGCCT
CATAACCCTAATTCGGATAGAGAGTGGTCACCCACTCCCAGTCTTCCGGTCCCGACCTTCAACACCTAA
AAGTGATTCAGAAATGGTCAGCAAGTCCACGAAAGGACAGGGCAGAAGAACCAGAAATGCTTTGGCTG
TGGGGAGAGCTGCCGAGGCTGTAAGTCTTCTCCACACAAGATGAAAGAGTCCAGCCCATGAGCA
GTAGAAAAATTTGTGATAAAAGTCACTTTCAGGCCATTCACAGCGAATCTTCAGACACTTTTAGTGACCA
ATCGCCAACTCTGGTCGGTGGGGCACTTTGGACCAGAACAAGCCTCAGACAGAAATGCAGTTTGTGAAT
GAAGAAGACCTGGAGACCTTAGGAGCAGCAGCCCACTTTCCTTCCAGGAAAAGAGATAAACGAAAGCCGACA
TCTTGGTCTGACGGCGTCTACTTGGATGACCTCACAGACATGGATCCTGAAGTGGCGGCCCTGTATTTT
CCCCAAAACGGAGATCCTTCCGGACTCGAAAACATGCAAGCGACAACGGAGCCCGGTGACGCCAACCACT
CCCCGAGTCCGTGGGACGCTCGGGCGTGGACAGTGGCGTGGAGAGCACCTCGGACGGGCTGAGGGACCT
CCCTTCCATCGCCATCTCCCTCTGCGGGGGCTCAGCGACCACCGGAGATCACGAAAGATGCATTCCTG
GAGCAAGCTGTGCATATCAACAGTTTGTGGACAACCCCGCTATTATCGATGACCCCAATCTCGTGGTAA
AGATTGGGAGTAAATATTATAACTGGACAACAGCAGCACCCCTCCTCCTGGCAATGCAGGCTTCCAGAA
ACCTTTGCCAAAGGCCACTGTGGAATCTATCATGAGGGATAAAATGCCAAAAAGGGAGGAAGATGTTGG
TTTTCATGGAGGGGAAGAAACACCACAATCAAGGAGGAAAGTAAAGCCAGAGCAGTCTTGGCTGGCAAGG
CCCATAGCACCGGAGAGCAACCGCCGAGCTCAGCTTGGCCACCAGGGTAAAGCATGAATCATCCTCCAG
TGATGAGGAGCGCGCAGCTGCCAAGCCATCAAACGCAGGCCACCTCCCTCTTCTGCCTAATGTCAGCTAC
AAGAAGACTCTCCGGTACTTCCGAGCAGCTTAAAAGCTTGAAGTTGAAGAATGGCCCCAACGACGTGG
TTTTCAGTGTACACCGCAGTACCAAGGCAGTCCGCTGTGAGGGCACCATCTATCTGTGGAACCTGGGA
TGATAAAGTATCATTCTGATATTGATGGGACAATTACCAGATCAGATACTCTTGGCCACATTTTGCC
ACCCTTGGGAAGGATTGGACCCATCAGGGCATCGCTAAGCTGTACCATAAAGTGAAGCAGAAATGGATATA
AATTTCTACTGTTCTGCCGTGCCATCGGATGGCGGACATGACGCGGGCTACCTGCACTGGGTCAA
CGAGAGGGGCACGGTCTGCCCCAGGGGCCCTGCTGCTGAGTCCCAGCAGCCTCTTCTGCCCTGCAC
AGAGAAGTGATTGAAAAGAACCCAGAAAAGTTTAAAGTCCAGTGTGACAGACATCAAAAACCTGTTTT
TCCCCAACACAGAACCTTTTATGCTGCTTTTGGAAACCGACCAGCTGATGTGATTATACAAGCAAGT
AGGAGTGTCTTTGAATAGAATATTTACCGTCAACCCTAAAGGAGAGCTGGTACAGGAACATGCAAGACC
AACATCTCTCGTATGTGAGACTCTGTGAAGTAGTCGACCACGTTTTCCCGTTGCTGAAAAGAAGCCATT
CTTCAGACTTTCCCTGTTCCGATACCTTACGTAACCTTACCTTTTGGAGAGAGCCACTGCCACCTTTTGA
AAACCAGGACATTCTGCCTCAGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG235001 representing NM_001261427
 Red=Cloning site Green=Tags(s)

MSRVQTMNYVQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPFHVRFGKMGVLR SREKV
 VDIEINGESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMECQLKRGSVDRMRGLDPS
 TPAQVIAPSETPSSSSVVKRRRKRRLKSQLDSLKRDDNMNTSEDEMFPIEMSSDEAMELLESRTL PND
 IPPFQDDIPEENLSLAVIYPQSASYPNSDREWSPTPSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWL
 WGELPQAAKSSSPHKMESSPLSSRKICDKSHFQAIHSESSDTFSDQSPTLVGGALLDQNKPQTEMQFVN
 EEDLETLGAAAPLLPMIEELKPPSASVQ TANKT DSPSRKRDKRSRHLGADGVYLLDDL TDM DPEVAALYF
 PKNGDPSGLAKHASDNGARSANQSPQSVGSSGVD SGVESTSDGLRDLPSIAISLCGGLSDHREITKDAFL
 EQAVSYQQFVDNPAIIDDPNLVVKIGSKYYNWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKKGRRWW
 FSWRGRNTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSSDEERAAAKPSNAGHLLPNVSY
 KKT LRLTSEQLKSLKLNPNVDFSVTTQYQGT CRCEGTIYLVNWDKVIISDIDGTITRSDTLGHILP
 TLGKDWTHQGI AKLYHKVSQNGYKFLYCSARAIGMADMTRGYLHWWNERGT VLPQGPLLLSPSSLF SALH
 REVIEKKPEKFKVQCLTDIKNLFFPNTPEFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKT
 NISSYVRLCEVDHVFLLKRSHSSDFPCSDTF SNFTFWREPLPPFENQDIHSASA

TRTRPLE - GFP Tag - V

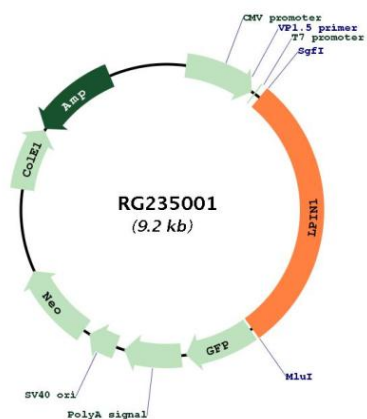
Restriction Sites: SgfI-MluI

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
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 RG235001