

Product datasheet for **SC332776**

Lipin 1 (LPIN1) (NM_001261429) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lipin 1 (LPIN1) (NM_001261429) Human Untagged Clone
Tag: Tag Free
Symbol: Lipin 1
Synonyms: PAP1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332776 representing NM_001261429.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCTGAAGGAG
CTCTACAAGGGGCTGAATCCCGCCACACTCTCAGGGTGCATTGACATCATTGTGTCATCCGCCAGCCCAAT
GGAAACCTCCAATGCTCCCCTTTCCACGTCGCTTTGGGAAGATGGGGTCTGCGCTCCCGAGAGAAA
GTGTTGACATAGAAATCAATGGGAATCTGTGGATTTGCATATGAAATGGGAGATAATGGAGAAGCA
TTTTTTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTG
TCAGAAGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGAC
CCCAGCAGCCAGCCCAAGTGATCGCTCCAGCGAGACGCGTCAAGCAGCTCTGTAGTAAAGAAGAGA
AGAAAAAGGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGAT
GAGGACATGTTCCCATCGAGATGAGCTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTTT
CCTAATGATATACCTCCATTCCAAGATGATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCT
CAGTCAGCCTCATACCCTAATTCGGATAGAGAGTGGTCACCCACTCCCAGTAGCCTGGTAGATTGCAAA
AGGACTGCCCTCATCTTGCAGTTGCGGCCGAGGGAGGTCTGTCTAGTTCTTGCCTCCACAGTCTTCC
CTGTTCCATCCTTCGAAAAGTCTTCCGGTTCCCGACCTCAACACCTAAAAGTGATTGAGAAATGGTC
AGCAAGTCCACGAAAGGACAGGGCAGAAAGAACCCAGAAATGCTTTGGCTGTGGGAGAGCTGCCGCAG
GCTGCTAAGTCTTCTTCCACACAAGATGAAAGAGTCCAGCCATTGAGCAGTAGAAAAATTTGTGAT
AAAAGTCACTTTTCAGGCCATTACAGCGAATCTTACAGACTTTTGTGACCAATCGCCAACTCTGGTC
GGTGGGGCACTTTTGGACCAGAACAAGCCTCAGACAGAAATGCAGTTTGTGAATGAAGAAGACCTGGAG
ACCTTAGGAGCAGCAGCGCCACTTTGCCATGATCGAGGAGCTCAAACCCCTCTGCCAGTGTAGTC
CAGACAGCAAACAAGACGGATTCTCTTCCAGGAAAAGAGATAAACGAAGCCGACATCTTGGTGTGAC
GGCGTCTACTTGGATGACCTCACAGACATGGATCTGAAGTGGCGGCCCTGTATTTCCCAAAAAGTAA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001261429
Insert Size: 1380 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001261429.1
RefSeq Size:	2147 bp
RefSeq ORF:	1380 bp
Locus ID:	23175
UniProt ID:	Q14693
Cytogenetics:	2p25.1
MW:	50.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) has multiple differences, compared to variant 1. These differences result in an isoform (4) with a slightly longer N-terminus and a greatly truncated C-terminus, compared to isoform 1.</p>