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Product datasheet for SC332774

Lipin 1 (LPIN1) (NM_001261427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 1 (LPIN1) (NM_001261427) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lipin 1
Synonyms:	PAP1
Vector:	pCMV6-Entry (PS100001)

View online »

Fully Sequenced ORF:

>SC332774 representing NM_001261427.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAGCAGAGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTCACCGTGAAGGAG
CTCTACAAGGGGCTGAATCCCGCCACACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAAT
GGAAACCTCCAATGCTCCCCTTTCCACGTCCGCTTTGGGAAGATGGGGGTCCTGCGCTCCCGAGAGAAA
GTGGTTGACATAGAAATCAATGGGGAATCTGTGGATTTGCATATGAAATTGGGAGATAATGGAGAAGCA
TTTTTTGTTCAAGAAACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCCATCCTG
TCAGAAGGAGCTTCGAGAATGGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGAC
CCCAGCACGCCAGCCCAAGTGATCGCTCCCAGCGAGACGCCGTCAAGCAGCTCTGTAGTAAAGAAGAGA
AGAAAAAGGAGGAGAAAGTCACAGCTGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGAT
GAGGACATGTTCCCCATCGAGATGAGCTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTCTT
CCTAATGATATACCTCCATTCCAAGATGATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCCT
CAGTCAGCCTCATACCCTAATTCGGATAGAGAGTGGTCACCCACTCCCAGTCCTTCCGGTTCCCGACCT
TCAACACCTAAAAGTGATTCAGAATTGGTCAGCAAGTCCACGGAAAGGACAGGGCAGAAGAACCCAGAA
ATGCTTTGGCTGTGGGGAGAGCTGCCGCAGGCTGCTAAGTCTTCTTCTCCACACAAGATGAAAGAGTCC
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GAGCTCAAACCCCCCCTCTGCCAGTGTAGTCCAGACAGCAAACAAGACGGATTCTCCTTCCAGGAAAAGA
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GCCCGGTCAGCCAACCAGTCCCCGCAGTCGGTGGGCAGCTCGGGCGTGGACAGTGGCGTGGAGAGCACC
TCGGACGGGCTGAGGGACCTCCCTTCCATCGCCATCTCCCTCTGCGGGGGCCTCAGCGACCACCGGGAG
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GATGACCCCAATCTCGTGGTAAAGATTGGGAGTAAATATTATAACTGGACAACAGCAGCACCCCTCCTC
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CCCAAAAAGGGAGGAAGATGGTGGTTTTCATGGAGGGGAAGAAACACCACAATCAAGGAGGAAAGTAAG
CCAGAGCAGTGCTTGGCTGGCAAGGCCCATAGCACCGGAGAGCAACCGCCGCAGCTCAGCTTGGCCACC
AGGGTAAAGCATGAATCATCCTCCAGTGATGAGGAGCGCGCAGCTGCCAAGCCATCAAACGCAGGCCAC
CTCCCTCTTCTGCCTAATGTCAGCTACAAGAAGACTCTCCGGCTGACTTCCGAGCAGCTTAAAAGCTTG
AAGTTGAAGAATGGCCCCAACGACGTGGTTTTCAGTGTCACCACGCAGTACCAAGGCACGTGCCGCTGT
GAGGGCACCATCTATCTGTGGAACTGGGATGATAAAGTCATCATTTCTGATATTGATGGGACAATTACC
AGATCAGATACTCTTGGCCACATTTTGCCCACCCTTGGGAAGGATTGGACCCATCAGGGCATCGCTAAG
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GACATGACGCGGGGCTACCTGCACTGGGTCAACGAGAGGGGCACGGTGCTGCCCCAGGGGCCCCTGCTG
CTGAGTCCCAGCAGCCTCTTCTCTGCCCTGCACAGAGAAGTGATTGAAAAGAAGCCAGAAAAGTTTAAA
GTCCAGTGTTTGACAGACATCAAAAACCTGTTTTTCCCCAACACAGAACCCTTTTATGCTGCTTTTGGA
AACCGACCAGCTGATGTGTATTCATACAAGCAAGTAGGAGTGTCTTTGAATAGAATATTTACCGTCAAC
CCTAAAGGAGAGCTGGTACAGGAACATGCAAAGACCAACATCTCTTCGTATGTGAGACTCTGTGAAGTA
GTCGACCACGTTTTCCCGTTGCTGAAAAGAAGCCATTCTTCAGACTTTCCCTGTTCGGATACCTTCAGT
AACTTCACCTTTTGGAGAGAGCCACTGCCACCTTTTGAAAACCAGGACATTCATTCTGCCTCAGCGTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001261427

Insert Size: 2691 bp

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:	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_001261427.1
RefSeq Size:	5591 bp
RefSeq ORF:	2691 bp
Locus ID:	23175
UniProt ID:	Q14693
Cytogenetics:	2p25.1
MW:	99.4 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] Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a longer and distinct N-terminus compared to isoform 1.