

Product datasheet for **RG207138**

Lipin 1 (LPIN1) (NM_145693) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 1 (LPIN1) (NM_145693) 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:

>RG207138 representing NM_145693
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCGTGAAGGAGCTCTACAAGGGGCTGAATC
CCGCCACACTCTCAGGGTGCATTGACATCATTGTCATCCGCCAGCCCAATGGAAACCTCCAATGCTCCCC
TTTCCACGTCCGCTTTGGGAAGATGGGGTCTCCTGCGCTCCCGAGAGAAAGTGTTGACATAGAAATCAAT
GGGAATCTGTGGATTTGCATAGAAATTTGGGAGATAATGGAGAAGCATTTTTTTTGTTCAAGAAACAGATA
ATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTCAGAAGGAGCTTCGAGAATGGA
ATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGACCCAGCAGCCAGCCCAAGTGATC
GCTCCAGCGAGACGCCGTCAAGCAGCTCTGTAGTAAAGAAGAGAAGAAAAAGGAGGAGAAAGTACACGC
TGGACAGCCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACATGTTCCCCATCGAGATGAG
CTCGGATGAGGCCATGGAGCTGCTGGAGAGCAGCAGAACTTTCCTAATGATATACCTCCATTCCAAGAT
GATATTCCTGAGGAAAACCTCTCCCTGGCTGTGATTTACCTCAGTCAGCCTCATACCCTAATTCGGATA
GAGAGTGGTCACCCACTCCAGTCTTCCGGTCCCGACCTTCAACACCTAAAAGTGATTAGAATTGGT
CAGCAAGTCCACGGAAAGGACAGGGCAGAAGAACCAGAAATGCTTTGGCTGTGGGGAGAGCTGCCCGAG
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CAGCAACAAGACGGATTCTCTTCCAGGAAAAGAGATAAACGAAGCCGACATCTTGGTGTGACGGCGC
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AGACTCTGTGAAGTAGTCGACCAGTGTTCCTGTTGCTGAAAAGAAGCCATTCTTCAGACTTTCCTGTT
CGGATACCTTCAGTAACCTCACCTTTTGGAGAGAGCCACTGCCACCTTTTAAAACAGGACATTCATTC
TGCCTCAGCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207138 representing NM_145693
 Red=Cloning site Green=Tags(s)

MNYVQG LAGQVFVTKELYKGLNPATLSGCIDIIIVIRQPNGNLQCSPFHVRFGKMGVLRSRKVVVDIEIN
 GESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGASRMECQLKRGSDVDRMRGLDPSTPAQVI
 APSETPSSSSVVKRRRKRKSQLDSLKRDDNMNTSEDEMFPPIEMSSDEAMELLESSRTL PNDIPPFQD
 DIPEENLSLAVIYPQASYPNSDREWSPTSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWLGELPQ
 AAKSSSPHKMKESSPLSSRKICDKSHFQAIHSESDTFSDQSPTLVGGALLDQNKPQTEMQFVNEEDLET
 LGAAAPLLPMIEELKPPSASVVQTANKTDSPSRKRDKRSRHLGADGVYLLDDL TDMPEVAALYFPKNGDP
 SGLAKHASDNGARSANQSPQSVGSSGVDSGVESTSDGLRDLPSIAISLCCGGLSDHREITKDAFLAQVSY
 QQFVDNPAIIDDPNLVKIGSKYINWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKGGRRWFSWRGR
 NTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSDEERAAAKPSNAGHLLPNVSYKKTLLRL
 TSEQLSKLKLKNGPNDVVFVTTQYQGTCEGTIYLNWDDKVIISDIDGTITRSDTLGHILPTLGKDW
 THQGI AKLYHKVSQNGYKFLYCSARAIGMADMT RGYLHWVNERGT VLPQG P L L S P S S L F S A L H R E V I E K
 KPEKFKVQCLTDIKNLFFPNTEPFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYV
 RLCEVDHVFP LLKRS H S S D F P C S D T F S N F T F W R E P L P P F E N Q D I H S A S A

TRTRPLE - GFP Tag - V

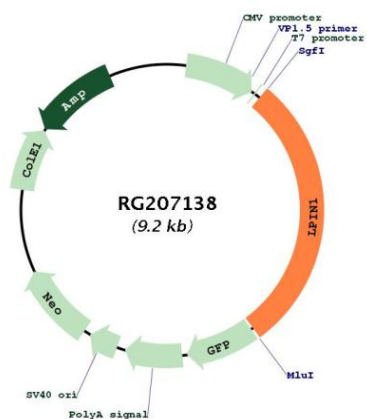
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_145693
ORF Size:	2670 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_145693.4
RefSeq Size:	5363 bp
RefSeq ORF:	2673 bp
Locus ID:	23175
UniProt ID:	Q14693
Cytogenetics:	2p25.1
Domains:	lipin_N
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 RG207138