

## Product datasheet for **RG224070**

### Lipin 2 (LPIN2) (NM\_014646) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 2 (LPIN2) (NM_014646) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lipin 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224070 representing NM_014646 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAAAGAAATCTGGTCGCTGGTGGTTTTGGCGAAAGAGAGAAAGCATGACCAAACAGCTGCCAGAAT  
CCAAGGAGGGAAAATCTGAGGCACCGCCAGCCAGTGACCTGCCATCCAGCTCCAAGGAGCCGGCCGGTGC  
CAGGCCGCGCGAGAATGACTCCTCGAGTGACGAGGGATCACAGGAGCTCGAAGAATCCATCACAGTGGAC  
CCCATCCCCACAGAGCCCCTGAGCCACGGCAGCACAACTTCATATAAGAAGTCTCTCCGCCTCTCCCTCAG  
ACCAGATCGCAAACTGAAGCTCCACGATGGCCCAAATGATGTTGTGTTTATTACAACCCAGTATCA  
AGGCACCTGTCGCTGTGCAGGGACATTTACCTGTGGAAGTGAATGACAAGATCATCATTTCTGATATT  
GATGGGACAATAACCAAGTCGGATGCTTTGGGACAGATTCTCCACAGCTGGGCAAGACTGGACCCACC  
AGGGTATAGCAAAGCTCTACCATTCCATCAATGAGAATGGCTACAAGTTTCTGACTGCTCGGCTCGTGC  
CATCGGCATGGCCGACATGACCCGTGGCTACCTGCACTGGGTCAATGACAAGGGCACAATCTTGCCCGG  
GGCCCCCTGATGCTGTCCCCAGCAGCTTGTCTCCGCCTCCACAGAGAAGTATAGAAAAGAAACCAG  
AGAAGTTCAAAATTGAGTGTCTAAATGATATCAAGAATCTGTTTGCCCGTCTAAGCAGCCCTTCTATGC  
TGCCTTTGAAACCGTCAAATGATGTCTATGCCTACACAAAGTTGGAGTTCAGACTGTAGAATTC  
ACCGTGAACCCCAAGGGTGAATTAATACAAGAAAGAACCAAGGAAACAAGTCATCGTATCACAGGCTGA  
GTGAGCTCGTGGAGCATGTGTTCCCTTCTCAGTAAGGAGCAGAATCCGCTTTTCCCTGCCCGGAGTT  
CAGCTCCTTCTGCTACTGGCGAGACCCGATCCCTGAAGTGGACCTGGATGACCTGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224070 representing NM\_014646  
 Red=Cloning site Green=Tags(s)

MPKKSGRWWFWRKRESMTKQLPESKEGKSEAPPASDLPSSSKEPAGARPAENDSSSDEGSQEELESITVD  
 PIPTEPLSHGSTTSYKSLRLSSDQIAKLKLDHGPNDVVFSTTTQYQGTCTRCAGTIYLNWWDKIIISDI  
 DGTITKSDALGQILPQLGKDWTHQGIKLYHSINENGYKFLYCSARAIGMADMTRGYLHWVNDKGTILPR  
 GPLMLSPSSLFSAFHREVIEKKPEKFKIECLNDIKNLFAPSKQPFYAAFGNRPNDVYAYTQVGVPCRI  
 TVNPKGELIQERTKGNKSSYHRLSELVEHVFPLLSKEQNSAFPCPEFSSFCYWRDPIPEVDLDDL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014646

**ORF Size:** 1038 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\\_014646.2](#), [NP\\_055461.1](#)

**RefSeq Size:** 6245 bp

**RefSeq ORF:** 2691 bp

**Locus ID:** 9663

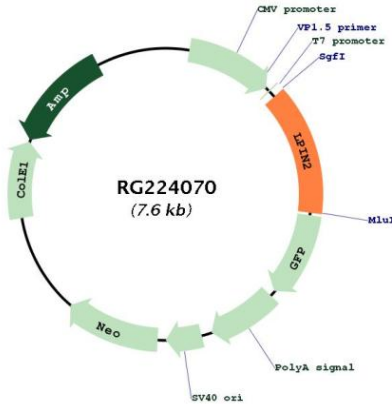
**UniProt ID:** [Q92539](#)

**Cytogenetics:** 18p11.31

**Domains:** lipin\_N

**Gene Summary:** Mouse studies suggest that this gene functions during normal adipose tissue development and may play a role in human triglyceride metabolism. This gene represents a candidate gene for human lipodystrophy, characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG224070