

Product datasheet for **MC222426**

Lpin2 (NM_022882) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpin2 (NM_022882) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lpin2
Synonyms:	2610511G02Rik; AI481352; AW742896
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222426 representing NM_022882
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTATGTGGCCAGCTGGCTGGGCGAGGTGCTCGTCACTGTGAAGGAACTCTACAAGGGCATTAAAC
 AAGCCACGTTGTCTGGATGCATCGATGTGGTCTGGTGAGGCAGCAGGATGGCTCCTACCAGTGGCTCGCC
 TTTTCACGTACGCTTCGGGAAGCTGGGTGTCTGAGGTCCAAGGAGAAAGTGATTGACATAGAAAACAAT
 GGCAGTGTGTGGATCTTACATGAAAATGGGTGATAATGGGGAAGCCTTCTTTGTAGAGGAGACTGAAG
 AAGAATAGAAAATTACCTGCTTATCTTGCCACCTCACCAATCCCAGTGAAGACCAGTTCTTTAAACA
 TATTGAAACCCCTTTGGTAAAATCAAGTGGAAATGAAAGGCCAGCTCAGAGTTCAGACGTTTCTCACACC
 TTGGAATCAGAGGCAGTTTCACTCAGAGTTCGTGAAAAAGAAGAAACGAAGGAGAAAGAAGTGAACAC
 AGGACAATAGGAAGGAGGAGCAGGCAGCTTCCCCTGTTGCAGAAGATGTAGGTGATGTGGGTGTGAGCTC
 AGATGATGAGAAGAGAGCCAGGCAGCAAGAGGATCTTCAAATGCTTCCCTAAAGGAAGAGGACTACAAG
 GAGCCTTCACTCTCCATTCTGGGGATAACTACCCCTTATCTGATGGAGATTGGTCCCCATTAGAAACCA
 CCTACCCTCAGGCTGTGTGCCCAAGAGTGACTCTGAGCTGGAGGTGAAGCCATCTGAGAGCCTCCTCAG
 ATCTGAGCCGCACATGGAGTGGACGTGGGGCGGGTCCCAGAGTCCACCAAGGTACCAAAAAGAGAACGG
 TATGACTATCATCCAAGGACAGCTACGATTACACCATCAGAGAACACACATTTACGGGTAATTTCCAGTG
 AAGACAGCCTCATAAGAGAAGTTGAAAAGGATGCTACTGTTGAAGATACTACCTGTACCATAGTGAACCC
 CAAACCTAGAGCCCTGTGTAAGCAACTGAGTGTGCAGCGTCTACTGAGCTTCCCGAATCACCTCTTGAA
 GCACCTCAGATTTTCATCGTTATTAGATGCAGACCCTGTTCCAGCCCATCAGCAGAGGCTCCCTCAGAAC
 CCAAACAGCTGCTAAAGACTCACCAACAAAAAGAAAGGTGTTCAAAAAGAAGCCAGCAGCAGCCAGGACC
 TGATGACATTTACCTTGATGACTTAAAGGCTCTTGAGCCTGAAGTGGCGGCTCTCTATTTCCCTAAAAGT
 GACACGGATCCAGGTTCCAGGCAGTGGCCTGAGTCTGACACATTCTCTGTTTCTCAGTCCCCACAGTCTG
 TGGGGAGTGCAGCTGCGGACAGTGGCACTGAATGCCTCTCAGACTCTGCCATGGACTTGCCTGATGTAAC
 CCTCTCCCTCTGTGGAGGCTCAGTGAGAATGGAGAGATTTCTAAAGAGAAGTTCATGGAGCATATCATC
 ACTTACCATGAGTTTGCAGAAAACCTGGCCTTATCGACAACCCAAACCTCGTGATCCGGATATATAACC
 GTTACTACAACGGGCGTTGGCTGCTCCATGATCCTTAGCTTACAGGTATTTCAGAAGAGTTTGCCTAA
 GGCCACCGTTGAGTCTGGGTTAAAGACAAGATGCCAAAGAAATCTGGTGCATGGTGGTTTTGGCGGAAA
 AAAGAAAGTATGATCAAACAGTTGCCAGAGACCAAGGAGGAAAACTGAGGTCCCTCCAGCAAATGACC
 TGCCCTTCCAATGCTGAGGAGCCAACCAAGTCCAGACCTGCAGAGAATGACACTTCTAGTGACGAGGGGTC
 ACAGGAGTTGGAAGAAAGCATCAAAGTTGACCCCATCACCGTAGAGACACTGAGTCACTGTGGGACGGCC
 TCATATAAGAAGTCTCTCCGACTCTCTCGGACCAGATAGCAAACTGAAGCTCCATGATGGCCCAATG
 ACGTGGTATTAGTATCACAACCCAGTATCAGGGCACCTGTGGTGTGCAGGGACCATCTACCTGTGGAA
 CTGGAATGACAAAGTATCATCTCTGACATCGACGGAACAATAACCAAGTCTGATGCTTTGGGGCAGATT
 CTCCCACAGCTGGGTAAGACTGGACGCATCAGGGCATAGCTAGGCTCTACCATTCCATCAATGAGAATG
 GCTACAAGTTTCTGTACTGTTCTGCACGTGCCATCGGCATGGCCGACATGACCCGTGGTTATCTGCACGT
 GGTCAATGATAAGGGGACGATCTTGCTCGAGGCCCTCTGATGCTGTCTCCAGCAGCTTGTCTCTGCTGC
 TTCCACAGGGAAGTGATAGAAAAGAAACAGAGAAGTTCAAATGAGTGTCTGAATGATATTAAGAACT
 TGTTTGGCCCGTCCAGGCAGCCCTTCTATGCTGCCTTTGAAACCGTCCCAACGATGTCTATGCTTACAC
 ACAAGTCCGAGTTCAGACTGTAGGATATTTACTGTGAATCCAAAGGGTGAATTAATCCAAGAGAGGACC
 AAAGGGAACAAATCATCGTATCACAGGCTGAGTGAAGTGTGGAACACGTGTTCCCACTTCTCAGTAAGG
 AGCAGAATTTGCCTTTCCATGCCAGAGTTCAGCTCCTTCTGCTACTGGCGAGACCCAATCCCTGACCT
 GGACCTGGATGACCTGGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_022882

Insert Size:	2682 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:	<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:	<u>NM_022882.4</u> , <u>NP_075020.2</u>
RefSeq Size:	5651 bp
RefSeq ORF:	2682 bp
Locus ID:	64898
UniProt ID:	<u>Q99PI5</u>
Cytogenetics:	17 E1.3
Gene Summary:	<p>Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane. Acts also as a nuclear transcriptional coactivator for PPARGC1A to modulate lipid metabolism.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>