

## Product datasheet for **MC220809**

### **Lpin2 (NM\_001164885) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lpin2 (NM_001164885) 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:** >MC220809 representing NM\_001164885  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTTACCTAGAAGATAACAGTGAAGATGAGAAGACGGTTTCAGGAAAGCTCGTTGAGTAAACCTGCAA  
 GTGTTTACCATGGCAAGGCCCTCTGGGATTCTGTCTCAAACCATGAATTATGTGGGCCAGCTGGCTGG  
 GCAGGTGCTCGTCACTGTGAAGAACTCTACAAGGCATTAACCAAGCCACGTTGTCTGGATGCATCGAT  
 GTGGTCGTGGTGAAGCAGCAGGATGGCTCTACCAGTGTCTGCCTTTTCACGTACGCTTCGGGAAGCTGG  
 GTGTCCTGAGGTCCAAGGAGAAAGTATTGACATAGAAATCAATGGCAGTGTGTGGATCTTCACATGAA  
 ATTGGGTGATAATGGGGAAGCCTTCTTTGTAGAGGAGACTGAAGAAGAATATGAAAAATTACCTGCTTAT  
 CTTGCCACCTACCAATCCCAGTGAAGACCAGTCTTTAAACATATTGAAACCCCTTTGGTGAAATCAA  
 GTGGAAATGAAAGGCCAGCTCAGAGTTCAGACGTTTCTCACACCTTGAATCAGAGGCAGTTTTCACTCA  
 GAGTTCTGTGAAAAAGAAGAAACGAAGGAGAAAGAAGTCAAACAGGACAATAGGAAGGAGGAGCAGGCA  
 GCTTCCCCTGTTGCAGAAGATGTAGGTGATGTGGGTGTGAGCTCAGATGATGAGAAGAGAGCCAGGCAG  
 CAAGAGGATCTTCAAATGCTTCTTAAAGGAAGAGGACTACAAGGAGCCTTCACTCTTCCATTCTGGGGA  
 TAACTACCCCTTATCTGATGGAGATTGGTCCCCATTAGAAACACCTACCTCAGGCTGTGTGCCCAAG  
 AGTGACTCTGAGCTGGAGGTGAAGCCATCTGAGAGCCTCCTCAGATCTGAGCCGCACATGGAGTGGACGT  
 GGGGCGGGTCCCAGAGTCCACCAAGGTCAACAAAAGAGAACGGTATGACTATCATCAAGGACAGCTAC  
 GATTACACCATCAGAGAACACACATTTCCAGGTAATCCCAGTGAAGACAGCCTCATAAGAGAAGTTGAA  
 AAGGATGCTACTGTTGAAGATACTACCTGTACCATAGTAAACCCAAACCTAGAGCCCTGTGAAGCAAC  
 TGAGTGCAGCGTCTACTGAGCTTCCCGAATCACCTTTGAAGCACCTCAGATTTTCATCGTTATTAGA  
 TGCAGACCCTGTTCCAGCCATCAGCAGAGGCTCCCTCAGAACCACAAACAGCTGCTAAAGACTACCA  
 ACAAAAAAGAAAGGTGTTCAAAAAAGAGCCAGCACCAGGACCTGATGACATTTACCTTGTGACTTAA  
 AGGCTCTTGAGCCTGAAGTGGCGGCTCTATTTCCCTAAAAGTACACGGATCCAGGTTCCAGGCAGTG  
 GCCTGAGTCTGACACATTCTCTGGTTCTCAGTCCCACAGTCTGTGGGAGTGCAGCTGCGGACAGTGGC  
 ACTGAATGCCTCTCAGACTCTGCCATGGACTTGCCTGATGTAACCCTCTCCCTCTGTGGAGGCTCAGTG  
 AGAATGGAGAGATTTCTAAAGAGAAGTTTATGGAGCATATCATCACTTACCATGAGTTTGCAGAAAACCC  
 TGGCCTTATCGACAACCCAAACCTCGTGATCCGGATATAAACCCTTACTACAACGGGCGTTGGCTGCT  
 CCCATGATCCTTAGCTTACAGGTATTTGAGAAGAGTTTGCCTAAGGCCACCGTTGAGTCTGGGTTAAAG  
 ACAAGATGCCAAAGAAATCTGGTCGATGGTGGTTTTGGCGGAAAAAGAAAGTATGATCAAACAGTTGCC  
 AGAGACCAAGGAGGAAAATCTGAGTCCCTCCAGCAAATGACCTGCCTTCCAATGCTGAGGAGCCAACC  
 AGTGCCAGACCTGCAGAGAATGACACTTCTAGTGACGAGGGGTACAGGAGTTGGAAGAAAGCATCAAAG  
 TTGACCCCATCACCGTAGAGACTGAGTCACTGTGGGACGGCCTCATATAAGAAGTCTCTCCGACTCTC  
 CTCGGACCAGATAGCAAACTGAAGTCCATGATGGCCCCAATGACGTGGTATTCAGTATCACAAACCAG  
 TATCAGGGCACCTGTCCGTGTGCAGGGACCATCTACCTGTGGAAGTGAATGACAAAGTCACTCATCTCTG  
 ACATCGACGGAACAATAACCAAGTCTGATGCTTTGGGGCAGATTCTCCCACAGCTGGGTAAGACTGGAC  
 GCATCAGGGCATAGCTAGGCTCTACCATTCCATCAATGAGAATGGCTACAAGTTTCTGTACTGTTCTGCA  
 CGTGCCATCGGCATGGCCGACATGACCCGTGGTTATCTGCACTGGGTCATGATAAGGGGACGATCTTGC  
 CTCGAGGCCCTCTGATGCTGTCTCCAGCAGCTTGTCTCTGCCTTCCACAGGGAAGTATAGAAAAGAA  
 ACCAGAGAAGTTCAAATTTAGTGTCTGAATGATATTAAGAAGTTGTTTGCCTCCAGGCAGCCCTTCT  
 TATGCTGCCTTTGGAAACCGTCCAACGATGTCTATGCTTACACACAAGTCGGAGTTCCAGACTGTAGGA  
 TATTTACTGTGAATCAAAGGTGAATTAATCAAAGAGAGGACCAAGGGAAACAATCATCGTATCACAG  
 GCTGAGTGAAGTGTGGAACACGTGTTCCACTTCTCAGTAAGGAGCAGAATTCTGCCTTCCATGCCCA  
 GAGTTCAGCTCCTCTGCTACTGGCAGACCAATCCCTGACCTGGACCTGGATGACCTGGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001164885
<b>Insert Size:</b>	2796 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001164885.1</a></u> , <u><a href="#">NP_001158357.1</a></u>
<b>RefSeq Size:</b>	5775 bp
<b>RefSeq ORF:</b>	2796 bp
<b>Locus ID:</b>	64898
<b>Cytogenetics:</b>	17 E1.3
<b>Gene Summary:</b>	<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 (1) represents the longer transcript and encodes the longer 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>