

Product datasheet for **MR211201**

Lpin1 (NM_015763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpin1 (NM_015763) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lpin1
Synonyms:	4631420P06; fld; Kiaa0188; Lipin1; mKIAA0188
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR211201 representing NM_015763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTACGTGGGGCAGCTGGCCGGCCAGGTGTTTGTGACGGTGAAGGAGCTCTACAAGGGACTGAACC
 CCGCCACGCTGTCGGGATGCATCGACATCATTGTCATCCGGCAGCCCAATGGCAGTCTGCAGTGTCCCC
 TTTCCACGTCCGCTTCGGCAAGATGGGTGTCTCCGCTCCCGAGAGAAAAGTGGTGGACATAGAAATCAAT
 GGGGAGTCCGTGGATTTGCACATGAAGTTGGGAGACAACGGAGAAGCATTTTTTTTGTTCAAGAGACTGACA
 ACGATCAGGAAATCATCCCCATGTACCTGGCCACGTCCCCATCTGTCAGAAGGAGCTGCGAGAATGGA
 AAGCCAGTGAAGAGGAAGTCTGTAGACAGAATCAGGTGCCTGGATCCACTACAGCTGCCAGGGCCTG
 CCTCCAGCGACACCCCATCCACTGGTTCTCTGGGAAGAAGAGAAGGAAAAGGAGGAGGAAGGCCAGT
 TGGACAATCTCAAAGAGATGACAATGTCAACACATCTGAGGATGAGGACATGTTTCCCATAGAGATGAG
 CTCGGATGAGGACACAGCACCGATGGATGGAAGCAGAAGTCTTCTAATGATGTACCACATTCCAAGAT
 GATATTCCTAAGGAAAATTCCTTCGATTTCAACGTACCCCAAGTACAGCATCGTATCCAGTTCGGACA
 GAGAATGGTCCCCAGCCCCAGCAGCCTGGTAGATTGCCAGAGGACTCCCCCTCACCTGGCCGAGGGAGT
 TCTCTAGCTCTGTCTCTGACGTCTTGCCACTTCCATGCTTCGAAAAGTCTTCAGGCTCCCGGCC
 TCAACACCAAAAAGTGAAGTCTGAGCTGGTCAAGTCTGCAGACAGGTTGACGCCAAAAGAATAACCTGG
 AAATGCTCTGGCTGTGGGGTGAATTGCCACAGGCTGCAAAGTCTCTTCTCCACACAAGATGAAAGAGTC
 CAGCCCCTTAGGGAGCCGGAAGACTCCTGATAAAATGAATTTTCAGGCCATTACAGCGAGTCTTCAGAT
 ACTTTTAGTGACCAGTCGCCAACAAATGGCCGGGGACTGCTCATCCACCAGAGTAAGGCCAGACGGAAA
 TGCAGTTTGTGAACGAGGAGGATCTCGAGTCTTGGGGGGCAGCCCCACCTTACCCCTGGCCGAAGA
 GCTCAAGGCCCATATCCCAACACCCGACAGTCTGTCGAGCAAGACAGATTCCCTTCCAGGAAGAAGAT
 AAACGGAGCCGACACCTGGAGCTGATGGTGTATCTGGACGACCTCACGGACATGGACCTGAAGTGG
 CAGCCCTGATTTCCCAAGAATGGGGATCCTGGTGGGCTCCCAACAAGCCAGTGACAACGGAGCCAG
 GTCAGCCAACAGTCAACACAGTCTGTGGGAGGCTCGGGCATCGACAGTGGTGTGGAGAGCACCTCCGAC
 AGCCTGAGGGACCTGCCATCCATCGCCATCTCCCTCTGCGGTGGCCTCAGTGACCACAGAGAGATACCA
 AAGATGCATTTTGAACAAGCCGTGCATATCAGCAATTTGCCGACAACCCTGCTATCATCGATGACCC
 CAACCTCGTGGTCAAGGTTGGCAATAAGTATTACAAGTGGACAACAGCAGCTCCTCTACTCTGGCGATG
 CAGGCTTTCCAGAAACCTTTGCCAAAGGCCACTGTGGAATCCATCATGAGAGATAAGATGCCAAAAGG
 GAGGAAGATGGTGGTTTTCTGGAGAGGAAGAAATGCCACAATCAAGAGGAAAGCAAGCCTGAACAGTG
 CCTGACTGGGAAAGGCCACAATACCGGAGAGCAGCCTGCCAGCTTGGCCTGGCCACCAGGATAAAGCAT
 GAGTATCCTCCAGTGAAGAGCACGACGCCAAGCCATCAGGTTCCAGCCACCTCTCTCTTGT
 CCAACGTGAGTGTGGTGTTCAGTGTCACTACCCAGTACCAGGGCACCTGTCTGTCGAGGGCACCATCTAC
 CTGTGGAATTGGGACGACAAAGTCACTCATCTCAGATATCGATGGGACCATCACAAGATCTGATACTTG
 GTCACATTTTCCACAGCTGGGAAAGGATTGGACTCACCAGGGCATTGCAAAGCTGTACCACAAAGTAAG
 CCAGAATGGCTACAAGTTTCTCTATTGTTCCGGCAGTCCATTGGGATGGCGGACATGACGAGGGGCTAC
 CTGCACTGGGTCAACGAGAGGGGACGGTCTTCCACAGGGCCGCTTCTGCTCAGCCCGAGCAGCCTCT
 TCTCCGCTTGCACAGAGAAGTGATTGAAAAGAAGCCAGAAAAGTTCAAAGTCCAGTGTGTTGACAGACAT
 CAAGAACCTGTTTTTCCAAACACAGAACCCTTATGCTGCTTTTGGGAACCGCCTGCTGATGTGAT
 TCCTACAAGCAAGTGGGAGTGTCCCTGAATAGGATCTTCACTGTGAACCCCAAGGGTGGAGCTGGTGCAGG
 AGCATGCCAAGACCAACATCAGCTCGTACGTGCGGCTCTGCGAAGTGGTGCATCAGTCTTCCCATTGCT
 AAAGAGAAGCCATTCTGTGACTTCCCCTGTTCCAGACACTTTCAGTAAGTACCTTTTGGAGAGAGCCA
 CTGCCACCTTTTAAAACCAGGACATGCATTACGCTCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence: >MR211201 representing NM_015763
 Red=Cloning site Green=Tags(s)

MNYVQG LAGQVF VTKEL YKGLNPATLSGCIDII VIRQPNGSLQCSPFHVRF GKMVLR SREKVV DII E I N
 GESVDLHMKLGDNGEAFVQETDNDQE I IPMYLATSPILSEGAARMESQLKRNSVDRI RCLDPTTAAQGL
 PPSDTPSTGSLGKKRRRKRRAQLDNLKRDDNVNTSEDEDMFPIEMSSDEDTAPMDGSR TLPNDVPPFQD
 DIPKENFPSISTY PQSASYPSSDREWSPSSSLVDCQRTPPHLAEGVLS SSCP LQSCHFHASESPSGSRP
 STPKSDSELVSKSADRLTPKNNLEMLWLW GELPQAAKSSSPHKMKESSPLGSRKTPDKMNFQAIHSESSD
 TFSQDQPTMARGLLIHQSKAQTEMQFVNEEDLESLGAAAPPSPVAEELKAPYPNTAQSSSKTDSPSRK KD
 KRSHR LGADGVYLDLTDMDPEVAALYFPKNGDPGGLPKQASDNGARSANQSPQSVGGSGIDSGVESTSD
 SLRDLPSIAISL CGGLSDHREITKDAFLEQAVSYQQFADNPAIIDDPNLVVKVGNKYNNWTTAAPLLLAM
 QAFQKPLPKATVESIMRDKMPKKGGRWWFSWRGRNATIKEESKPEQCLTGKGHNTGEQPAQLGLATRIKH
 ESSSSDEEHAAAKPSGSSHL SLLSNVSYKKT LRLTSEQLKSLKLNKPN DVVFSVTTQYQGT CRCEGTIY
 LWNWDDKVIISDIDGTITRSDTLGHILPTL GKDWTHQGI AKLYHKVSQNGYKFLYCSARAIGMADMTRGY
 LHWVNERGTVLPQG PLLSPSSLF SALHREVIEKKPEKFKVQCLTDIKNLFFPNT EFPYAAFGNRPADVY
 SYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYVRLCEVVDHVFPLLKRSHSCDFPCSDTF SNFTFWREP
 LPPFENQDMHSASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



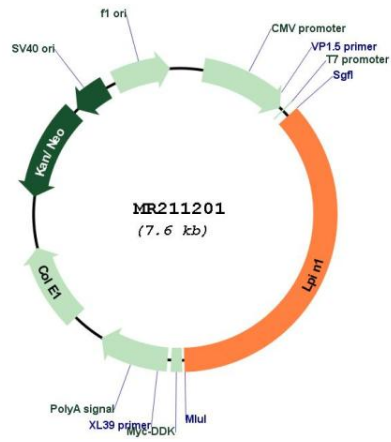
* The last codon before the Stop codon of the ORF

ACCN: NM_015763

ORF Size: 2772 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_015763.4 , NP_056578.2
RefSeq Size:	5581 bp
RefSeq ORF:	2775 bp
Locus ID:	14245
UniProt ID:	Q91ZP3
Cytogenetics:	12 7.9 cM
MW:	102.5 kDa
Gene Summary:	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. Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression. Is involved in adipocyte differentiation. Isoform 1 is recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211201