

Product datasheet for **MR223610**

Lpin1 (NM_172950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpin1 (NM_172950) 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:

>MR223610 representing NM_172950
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTACGTGGGGCAGCTGGCCGGCCAGGTGTTTGTGACGGTGAAGGAGCTCTACAAGGGACTGAACC
 CCGCCACGCTGTCGGGATGCATCGACATCATTGTCATCCGGCAGCCCAATGGCAGTCTGCAGTGTCTCCC
 TTTCCACGTCCGCTTCGGCAAGATGGGTGTCTCCGCTCCCGAGAGAAAAGTGGTGGACATAGAAAACAAT
 GGGGAGTCCGTGGATTTGCACATGAAGTTGGGAGACAACGGAGAAGCATTTTTTTTTCAAGAGACTGACA
 ACGATCAGGAAATCATCCCCATGTACCTGGCCACGTCCCCATCTGTGAGAAGGAGCTGCGAGAATGGA
 AAGCCAGTGAAGAGGAAGTCTGTAGACAGAATCAGGTGCCTGGATCCCACTACAGCTGCCAGGGCCTG
 CCTCCAGCGACACCCCATCCACTGGTTCTCTGGGAAGAAGAGAAGGAAAAGGAGGAGGAAGGCCAGT
 TGGACAATCTCAAAGAGATGACAATGTCAACACATCTGAGGATGAGGACATGTTTCCCATAGAGATGAG
 CTCGGATGAGGACACAGCACCGATGGATGGAAGCAGAAGTCTTCTAATGATGTACCACCATTCCAAGAT
 GATATTCCTAAGGAAAATTTCCCTCGATTTCAACGTACCCCAAGTACAGCATCGATCCCAAGTTCGGACA
 GAGAATGGTCCCCAGCCCCAGTCTTCCAGGCTCCCGGCCCTCAACACCAAAAAGTACTCTGAGCTGGT
 CAGTAAGTCTGCAGACAGGTTGACGCCAAAGAATAACCTGGAATGCTCTGGCTGTGGGGTGAATTGCCA
 CAGGCTGCAAAGTCTCTTCTCCACACAAGATGAAAGAGTCCAGCCCCTTAGGGAGCCGGAAGACTCCTG
 ATAAAAAGATTTTTCAGGCCATTCACAGCGAGTCTTCCAGATACTTTAGTGACCAGTCCCAACAATGGC
 CCGGGGACTGCTCATCCACCAGAGTAAGGCCAGACGGAAATGCAGTTTGTGAACGAGGAGGATCTCGAG
 TCCTTGGGGCGGCAGCCCCACCTTCCCGTGGCCGAAGAGCTCAAGGCCCATATCCCAACACCGCAC
 AGTCGTGAGCAAGACAGATTCCCCTTCCAGGAAGAAGATAAACGGAGCCGACACCTTGGAGCTGATGG
 TGTATCTGGACGACCTCACGGACATGGACCCTGAAAGTGGCAGCCCTGATTTTCCCAAGAATGGGGAT
 CCTGGTGGGCTCCCCAAACAAGCCAGTGAACAACGGAGCCAGGTCAGCCAACCAAGTCAACAGTCTGTGG
 GAGGCTCGGGCATCGACAGTGGTGTGGAGAGCACCTCCGACAGCCTGAGGGACCTGCCATCCATCGCCAT
 CTCCCTCTGCGGTGGCCTCAGTGACCACAGAGAGATCACCAAGATGCATTTTGGAAACAAGCCGTGTCA
 TATCAGCAATTTGCCGACAACCTGTATCATCGATGACCCCAACCTCGTGGTCAAGTTGGCAATAAGT
 ATTACAAGTGGACAACAGCAGCTCCTCTACTTCTGGCGATGCAGGCTTCCAGAAAACCTTTGCCAAAGGC
 CACTGTGGAATCCATCATGAGAGATAAGATGCCAAAAAGGGAGGAAGATGGTGGTTTTCTGGAGAGGA
 AGAAATGCCACAATCAAAGAGGAAAGCAAGCCTGAACAGTGCCTGACTGGGAAAGGCCACAATACCGGAG
 AGCAGCCTGCCAGCTTGGCCTGGCCACCAGGATAAAGCATGAGTCATCTCCAGTATGAAGAGCACGC
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 CCTTCTATGCTGCTTTTGGGAACCGCCTGCTGATGTGTATTCTACAAGCAAGTGGGAGTGTCCCTGAA
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 GTGCGGCTCTGCGAAGTGGTCGATCACGTCTTCCATTGCTAAAGAGAAGCCATTCTGTGACTTCCCT
 GTTCAGACACTTTCAGTAACTTACCTTTTGGAGAGGCCACTGCCACCTTTTGAACCAGGACATGCA
 TTCAGCCTCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223610 representing NM_172950
 Red=Cloning site Green=Tags(s)

MNYVVGQLAGQVFVTVKELYKGLNPATLSGCIDIIIVIRQPNGSLQCSPFHVRFGKMGVLSREKVVVDIEIN
 GESVDLHMKLGDNGEAFVQETDNDQEIIIPMYLATSPILSEGAARMESQLKRNSVDRIKLDPTTAAQGL
 PPSDTPSTGSLGKKRRRKRKAQLDNLKRDDNVNTSEDEDMFPIEMSSDEDTAPMDGSRTLPNDVPPFQD
 DIPKENFPSISTYQASYPSSDREWSPSPSPSGSRPSTPKSDSELVKSADRLTPKNNLEMLWLWGELP
 QAAKSSSPHKMESSPLGSRKTPDKMNFQAIHSESSDTFSDQSPTMARGLLIHQSKAQTEMQFVNEEDLE
 SLGAAAPPSPVAEELKAPYPNTAQSSSKTSDSPSRKDKRSRHLGADGVYLDLTDMDPEVAALYFPKNGD
 PGGLPKQASDNGARSANQSPQSVGGSGIDSGVESTSDSLRDLPSIAISLCCGGLSDHREITKDAFLEQAVS
 YQQFADNPAIIDDPNLVVKVGNKYNNWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKGGRRWFSWRG
 RNATIKESKPEQCLTGKGHTGEQPAQLGLATRIKHESSSSDEEHAAPSGSSHLSLLSNVSYKKTLLR
 LTSEQLSLKLKNGPNDVVFVSVTTQYQGTCRCEGTIYLVNWDKVIISDIDGTITRSDTLGHILPTLGKD
 WTHQGIKLYHKVSQNGYKFLYCSARAIGMADMTRGYLHWVNERGTVLPQGPLLLSPSSLSALHREVIE
 KKPEKFKVQCLTDIKNLFPPNTEPFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSY
 VRLCEVVDHVFLLKRSHSCDFPCSDTFSNFTFWREPLPPFENQDMHSASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

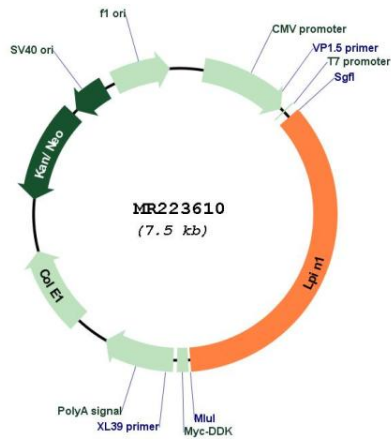
Cloning Scheme:



ACCN: NM_172950

ORF Size:	2673 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_172950.3 , NP_766538.2
RefSeq Size:	5482 bp
RefSeq ORF:	2676 bp
Locus ID:	14245
UniProt ID:	Q91ZP3
Cytogenetics:	12 7.9 cM
MW:	99 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 MR223610