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Product datasheet for MC227824

Plin5 (NM_025874) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plin5 (NM_025874) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plin5
Synonyms:	2310076L09Rik; AI415325; AW109675; Lsdp5; MLDP; PAT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC227824 representing NM_025874
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCAGAGAGGTGAAGACACCACCCTAGCGCCACACAGCAGAATGTCCGGTGATCAGACAGCTCAGG
ACCCTGGATCCAGCCTGGGAGAACTGGACCAGCAGAATGTGGTGAATCGAGTGGTGGCTTTGCCCCTGGT
CAAGGCCACGTGCACTGCCGTGTCCAGTGCTTACAACTCGGCCAAGGACAGGCACCCGCTGCTGGGCTCC
GCCTGCCGCCTTGCTGAGCACTGTGTGTGTAGTGTGACTACCTGTGCCCTGGACCACGCACAGCCACTGC
TGGAGCACCTGCAGCCCCAGTTGGCCACAGTGAATGATCTTGCCTGCAGGGGACTAGACAAATTGGAAGA
GAAGCTGCCCTTCCTGCAGCAGCCATCAGACATGGTGGTGACATCAGCCAAGGATACAGTGGCCAAAAGT
GTCACAGGCATGGTGGACCTGGCCCAAAGGGGCCGGCGTTGGAGTGGGGAGCTGAGGCGCTCCATGAGTC
AAGCCATGGACATGGTGCTGGGCAAGTCGGAGAAGCTGGTGGACCGCTTCCTGCCCATGACTGAGGCTGA
GCTAGCAGTCCTGGCAGCTGAGGCCGAGGGCCCAGAAGTGGGCACAGTGGAGGAGCAGAGGCAGCAACAG
GGCTACTTTGTGCGTCTGGGGTCCCTATCGGCACGCCTCCGCCATCTCGCCTATGAACACTCTTTGGGGA
AACTGAGGCAGAGCAAACACCGTACCCAGGAGATGCTGGCCCAGCTGCAGGAAACGCTGGAGCTGATCCA
GCATATGCAGAGAGGGGCAAGCCCTAGCCCTACTTTCCATCCCCCAAAGACTCAGGAGCTGTGGGGGAGC
TGGAGCCCGTGTCTAGAGAATGGCCGCAGCCACAGTGAGGTGGAGCTGGAGACACTGGCTCTGTCTCGAA
GTTTGACCCTGGAGCTGCAGAATGCAGTGGATGCCCTGGCAGGCTGTGTTCGGGGCCTGCCACCTAGTGC
CCAGGCCAAGGTGGCTGAGGTGCAGCGCAGCGTGGATGCTCTACAGGCCACCTTTGCTGATGCACACTGC
CTTGGTGATGTGGCACCCACTGCTCTGGCTGAGGGCCGGGGCAGTGTGGCCCGGGCACATGCCTGTGTGG
ATGAGTTCCTGGATTTGGTCCTGCGGGCCATGCCACTGCCCTGGCTTGTGGGGCCCTTTGCACCCATCCT
GGTGGAACAGTCGGAGCCCCTGATCAACCTGGCCACCTGTGTGGACGAGGTGGTGGGTGACCCTGATCCT
CGCTGGGCACACATGGACTGGCCAGCCCAGAAGAGGGCCTGGGAGGCTGAGTCTGCAGATCCTGGGGGGC
AAGAGGCTGAGCCCCCAAGGGGGCAAGGCAAGCACACAATGATGCCAGAGCTGGACTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_025874

Insert Size: 1392 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_025874.3, NP_080150.2
RefSeq Size:	1940 bp
RefSeq ORF:	1392 bp
Locus ID:	66968
UniProt ID:	Q8BVZ1
Cytogenetics:	17 D
Gene Summary:	Lipid droplet-associated protein that maintains the balance between lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of LIPE.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the predominant transcript. Variants 1 and 2 encode the same protein.