

Product datasheet for MC218367

Pnpla2 (BC019188) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpla2 (BC019188) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pnpla2
Synonyms:	TTS-2.2, Atgl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC019188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCATGCCTGCCAAGGTGAAGCAGGTGCCAACATTATTGAGGTGTCCAAGGAGGCCCGGAAGCGGT
TCCTGGGTCTCTGCATCCCTCCTTCAACCTGGTGAAGACCATCCGTGGTGTCTACTAAAGACCCTGCC
TGCTGATTGCCATGAGCGCGCCAATGGACGCTGGGCATCTCCCTGACTCGTGTTTCAGACGGAGAGAAC
GTCATCATATCCCACTTTAGCTCCAAGGATGAGCTCATCCAGGCCAATGTCTGCAGCACATTTATCCCGG
TGTAAGTGTGGCCTCATTCTCCTACCCTCCAAGGGGTGGCCTATGTGGATGGCGGCATTTTCAGACAACT
GCCACTTTATGAGCTGAAGAATACCATCACAGTGTCCCCATTCTCAGGCGAGAGTGACATCTGCCCTCAG
GACAGCTCCACCAACATCCACGAGCTTCGCGTCCACCAACACCAGCATCCAGTTCAACCTTCGCAATCTCT
ACCGCCTCTCGAAGGCTCTCTTCCCGCCAGAGCCCATGGTCTCCGAGAGATGTGCAAACAGGGCTACAG
AGATGGACTTCGATTCTTAGGAGGAATGGCCTACTGAACCAACCAACCCTTTGCTGGCACTGCCCCCA
GTTGTCCCCCAGGAAGAGGATGCAGAGGAAGCTGCTGTGGTGGAGGAGAGGGCTGGAGAGGAGGATCAAT
TGCAGCCTTATAGAAAAGATCGAATTCTAGAGCACCTGCCTGCCAGACTCAATGAGGCCCTGCTGGAGGC
CTGTGTGGAACCAAGGACCTGATGACCACCTTTCCAACATGCTACCAGTGCGCCTGGCAACGGCCATG
ATGGTGCCTATACTCTGCCGCTGGAGAGTGAGTGTCTTACCATCCGCTTGTGGAGTGGCTGCCTG
ATGTCCCTGAAGATATCCGGTGGATGAAAGAGCAGACGGGTAGCATCTGCCAGTATCTGGTGTGAGGGC
CAAGAGGAAATGGGTGACCATCTGCCTTCCAGACTGTCTGAGCAGGTGGAAGTGCAGCTGCCAGTCT
CTGCCCTCTGTGCCACTGTCTTGCGCCACCTACAGTGAGGCCCTACCAACTGGGTACGAAACAACCTCT
CACTGGGGACGCGCTGGCCAAGTGGGAAGAATGCCAGCGTCAGCTACTGCTGGGTCTCTTCTGCACCAA
TGTGGCCTTCCCGCCGATGCCTTGCATGCGCGCACCTGCCAGCCCCACTGCCGAGATCCTGCCACC
CCACAGGATCCACTGGCCTCCCGCCTTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	BC019188
Insert Size:	1293 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>BC019188</u> , <u>AAH19188</u>
RefSeq Size:	2064 bp
RefSeq ORF:	1292 bp
Locus ID:	66853
Cytogenetics:	7 F5
Gene Summary:	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets (PubMed:15550674). Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion. [UniProtKB/Swiss-Prot Function]