

Product datasheet for **MC210442**

Pnpla2 (NM_025802) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpla2 (NM_025802) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pnpla2
Synonyms:	0610039C21Rik; 1110001C14Rik; Atgl; TTS-2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC210442 representing NM_025802
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCCGAGGGAGACCAAGTGAACATCTCATTGCTGGCTGCGGCTTCTCGGGGTCTACCACATTG
 GCGTGGCCTCCTGCCTCGGTGAGCACGCGCCCTTCTGGTGGCCAACGCCACTCACATCTACGGAGCCTC
 GGCAGGGGCGCTCACCGCCACAGCGCTGGTCACTGGGCGCTGCCTGGGTGAAGCAGGTGCCAACATTATT
 GAGGTGTCCAAGGAGGCCGGAAGCGGTTCTGGGTCTCTGCATCCCTCCTTCAACCTGGTGAAGACCA
 TCCGTGGTGTCTACTAAAGACCCTGCCTGCTGATTGCCATGAGCGCGCCAATGGACGCCTGGGCATCTC
 CCTGACTCGTGTTCAGACGGAGAGAACGTCATCATATCCCCTTTAGCTCCAAGGATGAGCTCATCCAG
 GCCAATGTCTGCAGCACATTTATCCCGGTACTGTGGCCTCATTCTCTACCCTCCAAGGGTGCCT
 ATGTGGATGGCGCATTTAGACAACCTGCCACTTTATGAGCTGAAGAATACCATCACAGTGTCCCATT
 CTCAGGCGAGAGTGACATCTGCCCTCAGGACAGCTCCACCAACATCCACGAGCTTCGCGTACCAACACC
 AGCATCCAGTTCAACCTTCGCAATCTCTACCGCCTCTCGAAGGCTCTTCCCGCCAGAGCCCATGGTCC
 TCCGAGAGATGTCAAACAGGGCTACAGAGATGGACTTCGATTCTTAGGAGGAATGCCCTGCTGGAGGC
 CTGTGTGGAACCAAAGGACCTGATGACCACCCTTCCAACATGCTACCAGTGCAGCCTGGCAACGGCCATG
 ATGGTGCCTATACTCTGCCGCTGGAGAGTGCAGTGCCTTACCATCCGCTTGTGGAGTGGCTGCCTG
 ATGTCCCTGAAGATATCCGGTGGATGAAAGAGCAGACGGGTAGCATCTGCCAGTATCTGGTGTGAGGGC
 CAAGAGGAAATTGGGTGACCATCTGCCTTCCAGACTGTCTGAGCAGGTGGAAGTGCAGCTGCCAGTCT
 CTGCCCTCTGTGCCACTGTCTTGCGCCACCTACAGTGAAGGCTTACCAACTGGGTACGAAACAACCTCT
 CACTGGGGGACGCGCTGGCCAAGTGGGAAGAATGCCAGCGTCAGCTACTGCTGGGTCTCTTCTGCACCAA
 TGTGGCCTTCCCGCCGGATGCCTTGGCATGCGCGCACCTGCCAGCCCCACTGCCGAGATCTGCCACC
 CCACAGGATCCACCTGGCCTCCCGCCTTGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1711_d06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_025802

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:

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_025802.3](#), [NP_080078.2](#)

RefSeq Size: 2467 bp

RefSeq ORF: 1293 bp

Locus ID: 66853

UniProt ID: [Q8BJ56](#)

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]
Transcript Variant: This variant (2) lacks an in-frame coding exon, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1.