

## Product datasheet for **MR206855**

### **Pnpla2 (BC019188) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pnpla2 (BC019188) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnpla2
Synonyms:	TTS-2.2, Atgl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206855 representing BC019188  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCCATGCCTGCCAAGGTGAAGCAGGTGCCAACATTATTGAGGTGTCCAAGGAGGCCGGAAGCGGT  
 TCCTGGGTCTCTGCATCCCTCCTTCAACCTGGTGAAGACCATCCGTGGCTGTCTACTAAAGACCCTGCC  
 TGCTGATTGCCATGAGCGCGCCAATGGACGCTGGGCATCTCCCTGACTCGTGTTCAGACGGAGAGAAC  
 GTCATCATATCCCACTTTAGCTCCAAGGATGAGCTCATCCAGGCCAATGTCTGCAGCACATTTATCCCGG  
 TGTACTGTGGCCTCATTCTCTACCTCCAAGGGTGCCTATGTGGATGGCGGATTTAGACAACCT  
 GCCACTTTATGAGCTGAAGAATACCATCACAGTGTCCCCATTCTCAGGCGAGAGTGACATCTGCCCTCAG  
 GACAGCTCCACCAACATCCACGAGCTTCGCGTCACCAACACCAGCATCCAGTTCAACCTTCGCAATCTCT  
 ACCGCCTCTCGAAGGCTCTTCCCGCCAGAGCCCATGGTCTCCGAGAGATGTGCAAACAGGGCTACAG  
 AGATGGACTTCGATTCTTAGGAGGAATGGCCTACTGAACCAACCAACCTTTGCTGGCACTGCCCCCA  
 GTTGTCCCCAGGAAGAGGATGCAGAGGAAGCTGCTGTGGTGGAGGAGAGGGCTGGAGAGGAGGATCAAT  
 TGCAGCCTTATAGAAAAGATCGAATTCTAGAGCACCTGCCTGCCAGACTCAATGAGGCCCTGCTGGAGGC  
 CTGTGTGGAACCAAGGACCTGATGACCACCCTTCCAACATGCTACCAGTGCCTGGCAACGGCCATG  
 ATGGTGCCTATACTCTGCCGCTGGAGAGTGCAGTGTCTTACCATCCGCTTGTGGAGTGGCTGCCTG  
 ATGTCCCTGAAGATATCCGGTGGATGAAAGAGCAGACGGGTAGCATCTGCCAGTATCTGGTGTGAGGGC  
 CAAGAGGAAATGGGTGACCATGCCTTCCAGACTGTCTGAGCAGGTGGAAGTGCAGCTGCCAGTCT  
 CTGCCCTCTGTGCCACTGTCTTGCGCCACCTACAGTGAAGCCCTACCAACTGGGTACGAAACAACCTCT  
 CACTGGGGGACGCGCTGGCCAAGTGGGAAGAATGCCAGCGTCAGCTACTGCTGGGTCTCTTCTGCACCAA  
 TGTGGCCTTCCCGCCGGATGCCTTGCAGTGCAGCGCACCTGCCAGCCCCACTGCCGAGATCTGCCACC  
 CCACAGGATCCACCTGGCCTCCCGCCTTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206855 representing BC019188  
 Red=Cloning site Green=Tags(s)

MSHACQGEAGANIIEVSKEARKRFLGPLHPSFNLVKTIRGCLLKTLPADCHERANGRLGISLTRVSDGEN  
 VIISHFSSKDEL IQANVCSTFIPVYCGLIPPTLQGVRYVDGGISDNLPL YELKNTITVSPFSGESDIPQ  
 DSSTNIHEL RVTNTSIQFNLRNL YRLSKALFPPEPMLREMCKQGYRDGLRFLRRNGLLNQPNLLALPP  
 VVPQEEAEEAAVVEERAGEEDQLQPYRKDRILEHLPARLNEALLEACVEPKDLMTTLSNMLPVRLATAM  
 MVPYTLPLESAVSFTIRLLEWL PDVPEDIRWMKEQTGSICQYLVMRAKRKLGDHLP SRLSEQVELRRAQS  
 LPSVPLSCATYSEALPNWVRNLSLGDALAKWEECQRQLLLGLFCTNVAFPDALARMRAPASPTAADPAT  
 PQDPPGLPPC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** BC019188

**ORF Size:** 1290 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

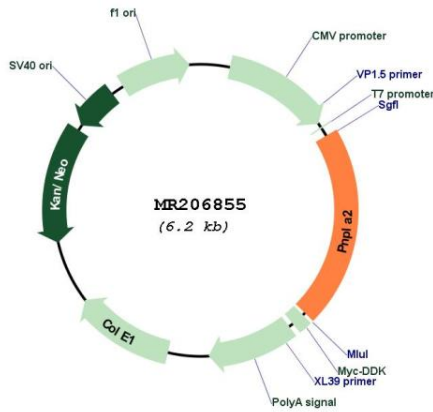
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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:** [BC019188.1](#)

RefSeq Size: 2064 bp  
 RefSeq ORF: 1292 bp  
 Locus ID: 66853  
 Cytogenetics: 7 F5  
 MW: 75.7 kDa

**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]

**Product images:**



Circular map for MR206855