

Product datasheet for **MR226261**

Pnpla2 (NM_025802) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR226261 representing NM_025802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCCGAGGGAGACCAAGTGAACATCTCATTGCTGGCTGCGGCTTCTCGGGGTCTACCACATTG
 GCGTGGCCTCCTGCCTCCGTGAGCACGCGCCCTTCTGGTGGCCAACGCCACTACATCTACGGAGCCTC
 GGCAGGGGCGCTCACCGCCACAGCGCTGGTCACTGGGCGCTGCCTGGGTGAAGCAGGTGCCAACATTATT
 GAGGTGTCCAAGGAGGCCCGAAGCGGTTCTGGGTCCTTCGCATCCCTCCTTCAACCTGGTGAAGACCA
 TCCGTGGTGTCTACTAAAGACCCTGCCTGCTGATTGCCATGAGCGCGCCAATGGACGCCTGGGCATCTC
 CCTGACTCGTGTTCAGACGGAGAGAACGTCATCATATCCCCTTTAGCTCCAAGGATGAGCTCATCCAG
 GCCAATGTCTGCAGCACATTTATCCCGGTGTACTGTGGCCTCATTCTCTACCTCCAAGGGTGCCT
 ATGTGGATGGCGCATTTAGACAACCTGCCACTTTATGAGCTGAAGAATACCATCACAGTGTCCCATT
 CTCAGGCGAGAGTGACATCTGCCCTCAGGACAGCTCCACCAACATCCACGAGCTTCGCGTACCAACACC
 AGCATCCAGTTCAACCTTCGCAATCTCTACCGCCTCTCGAAGGCTCTTCCCGCCAGAGCCCATGGTCC
 TCCGAGAGATGTCAAACAGGGCTACAGAGATGGACTTCGATTCTTAGGAGGAATGCCCTGCTGGAGGC
 CTGTGTGGAACCAAAGGACCTGATGACCACCCTTCCAACATGCTACCAGTGCGCCTGGCAACGGCCATG
 ATGGTGCCTATACTCTGCCGCTGGAGAGTGCAGTGCCTTACCATCCGCTTGTGGAGTGGCTGCCTG
 ATGTCCCTGAAGATATCCGGTGGATGAAAGAGCAGACGGGTAGCATCTGCCAGTATCTGGTGTGAGGGC
 CAAGAGGAAATGGGTGACCATTCGCTTCCAGACTGTCTGAGCAGGTGGAAGTGCAGCTGCCAGTCT
 CTGCCCCTGTGCCACTGTCTTGCGCCACTACAGTGAAGGCTTACCAACTGGGTACGAAACAACCTCT
 CACTGGGGGACGCGCTGGCCAAGTGGGAAGAATGCCAGCGTCAGCTACTGCTGGTCTCTTCTGCACCAA
 TGTGGCCTTCCCGCCGGATGCCTTGCAGTGCAGCGCACCTGCCAGCCCCACTGCCGAGATCTGCCACC
 CCACAGGATCCACTGGCCTCCCGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226261 representing NM_025802
 Red=Cloning site Green=Tags(s)

MFPRETKWNISFAGCGFLGVYHIGVASCLREHAPFLVANATHIYGASAGALTATALVTGACLGEAGANII
 EVSKEARKRFLGPLHPSFNLVKTIKIRGCLLKLTPADCHERANGRLGISLTRVSDGENVIISHFSSKDELIQ
 ANVCSTFIPVYCGLIPTLQGVRYVDGGISDNLPLYELKNTITVSPFSGESDIPQDSSTNIHELVRTNT
 SIQFNLRNLYRLSKALFPPEPMVLREMCKQGYRDGLRFLRRNALLEACVEPKDLMTLSNMLPVRLATAM
 MVPYTLPLESAVSFTIRLLEWLPDVPEDIRWMKEQTGSICQYLVMRAKRKLGDLHPSRLEQVELRRAQS
 LPSVPLSCATYSEALPNWVRNLSLGDALAKWEECQRQLLLGLFCTNVAFPDALARMRAPASPTAADPAT
 PQDPPGLPPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3338_a02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_025802

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 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: [NM_025802.3](#), [NP_080078.2](#)

RefSeq Size: 2467 bp

RefSeq ORF: 1293 bp

Locus ID: 66853

UniProt ID: [Q8BJ56](#)

Cytogenetics: 7 F5

MW: 47.4 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]