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Product datasheet for MR226260

Pnpla2 (NM_001163689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpla2 (NM_001163689) 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:

>MR226260 representing NM_001163689
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCCGAGGGAGACCAAGTGGAACATCTCATTCGCTGGCTGCGGCTTCCTCGGGGTCTACCACATTG
GCGTGGCCTCCTGCCTCCGTGAGCACGCGCCCTTCCTGGTGGCCAACGCCACTCACATCTACGGAGCCTC
GGCAGGGGCGCTCACCGCCACAGCGCTGGTCACTGGGGCCTGCCTGGGTGAAGCAGGTGCCAACATTATT
GAGGTGTCCAAGGAGGCCCGGAAGCGGTTCCTGGGTCCTCTGCATCCCTCCTTCAACCTGGTGAAGACCA
TCCGTGGCTGTCTACTAAAGACCCTGCCTGCTGATTGCCATGAGCGCGCCAATGGACGCCTGGGCATCTC
CCTGACTCGTGTTTCAGACGGAGAGAACGTCATCATATCCCACTTTAGCTCCAAGGATGAGCTCATCCAG
GCCAATGTCTGCAGCACATTTATCCCGGTGTACTGTGGCCTCATTCCTCCTACCCTCCAAGGGGTGCGCT
ATGTGGATGGCGGCATTTCAGACAACTTGCCACTTTATGAGCTGAAGAATACCATCACAGTGTCCCCATT
CTCAGGCGAGAGTGACATCTGCCCTCAGGACAGCTCCACCAACATCCACGAGCTTCGCGTCACCAACACC
AGCATCCAGTTCAACCTTCGCAATCTCTACCGCCTCTCGAAGGCTCTCTTCCCGCCAGAGCCCATGGTCC
TCCGAGAGATGTGCAAACAGGGCTACAGAGATGGACTTCGATTCCTTAGGAGGAATGGCCTACTGAACCA
ACCCAACCCTTTGCTGGCACTGCCCCCAGTTGTCCCCCAGGAAGAGGATGCAGAGGAAGCTGCTGTGGTG
GAGGAGAGGGCTGGAGAGGAGGATCAATTGCAGCCTTATAGAAAAGATCGAATTCTAGAGCACCTGCCTG
CCAGACTCAATGAGGCCCTGCTGGAGGCCTGTGTGGAACCAAAGGACCTGATGACCACCCTTTCCAACAT
GCTACCAGTGCGCCTGGCAACGGCCATGATGGTGCCCTATACTCTGCCGCTGGAGAGTGCAGTGTCCTTC
ACCATCCGCTTGTTGGAGTGGCTGCCTGATGTCCCTGAAGATATCCGGTGGATGAAAGAGCAGACGGGTA
GCATCTGCCAGTATCTGGTGATGAGGGCCAAGAGGAAATTGGGTGGCCATCTGCCTTCCAGACTGTCTGA
GCAGGTGGAACTGCGACGTGCCCAGTCTCTGCCCTCTGTGCCACTGTCTTGCGCCACCTACAGTGAGGCC
CTACCCAACTGGGTACGAAACAACCTCTCACTGGGGGACGCGCTGGCCAAGTGGGAAGAATGCCAGCGTC
AGCTACTGCTGGGTCTCTTCTGCACCAATGTGGCCTTCCCGCCGGATGCCTTGCGCATGCGCGCACCTGC
CAGCCCCACTGCCGCAGATCCTGCCACCCCACAGGATCCACCTGGCCTCCCGCCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226260 representing NM_001163689
Red=Cloning site Green=Tags(s)

MFPRETKWNISFAGCGFLGVYHIGVASCLREHAPFLVANATHIYGASAGALTATALVTGACLGEAGANII
EVSKEARKRFLGPLHPSFNLVKTIRGCLLKTLPADCHERANGRLGISLTRVSDGENVIISHFSSKDELIQ
ANVCSTFIPVYCGLIPPTLQGVRYVDGGISDNLPLYELKNTITVSPFSGESDICPQDSSTNIHELRVTNT
SIQFNLRNLYRLSKALFPPEPMVLREMCKQGYRDGLRFLRRNGLLNQPNPLLALPPVVPQEEDAEEAAVV
EERAGEEDQLQPYRKDRILEHLPARLNEALLEACVEPKDLMTTLSNMLPVRLATAMMVPYTLPLESAVSF
TIRLLEWLPDVPEDIRWMKEQTGSICQYLVMRAKRKLGGHLPSRLSEQVELRRAQSLPSVPLSCATYSEA
LPNWVRNNLSLGDALAKWEECQRQLLLGLFCTNVAFPPDALRMRAPASPTAADPATPQDPPGLPPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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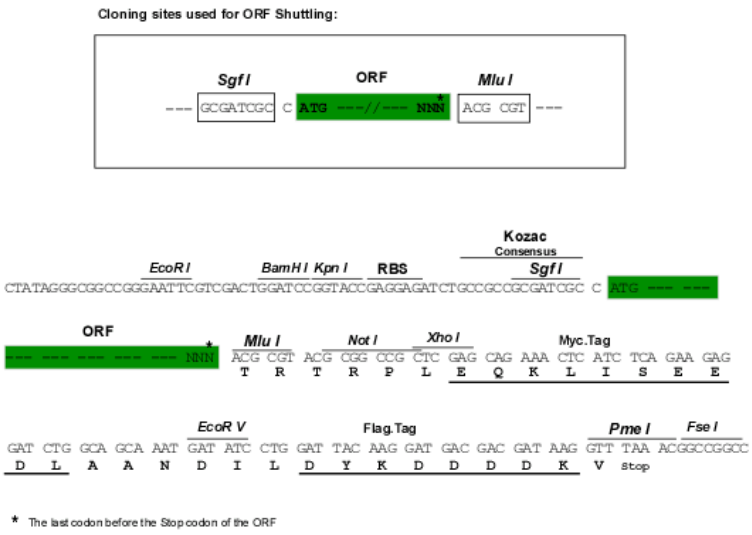
Cloning Scheme:



ACCN: NM_001163689

ORF Size: 1458 bp

OTI Disclaimer: 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_001163689.1, NP_001157161.1

RefSeq Size: 2635 bp

RefSeq ORF: 1461 bp

Locus ID: 66853

UniProt ID: Q8BJ56

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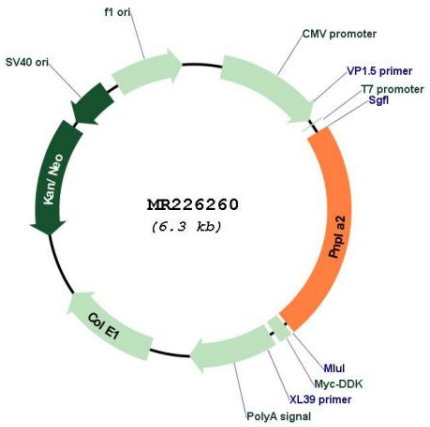
Cytogenetics: 7 F5

MW: 54.1 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 MR226260

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