

Product datasheet for MR206522

Pnpla3 (NM_054088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpla3 (NM_054088) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnpla3
Synonyms:	Adpn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206522 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGACCCAGAGCGCCGCTGGAGCCTGTCGTTTGCAGGCTGCGGCTTCTGGGCTTCTACCACGTCG
GGGCTACGCTATGTCTGAGCGAGCGCCCCGCACCTCCTCCGCGATGCGCGCACTTTCTTTGGTGCTC
GGCCGGTGCACTGCACGCGGTACCTTCGTGTGCAGTCTCCCTCTCGGCCGTATAATGGAGATCCTCATG
GACCTCGTGCGGAAAGCCAGGAGCCGCAACATCGGCACCCTCCACCCGTTCTTCAACATTAACAAGTGCA
TCAGAGACGGGCTCCAGGAGAGCCTCCCAGACAATGTCCACCAGGTCATTTCTGGCAAGGTTACATCTC
ACTCACCAGGGTGTCCGATGGGGAGAACGTGCTGGTGTCTGAGTCCATTCCAAAGACGAAGTCGTGGAT
GCCCTGGTGTGTTCTGCTTCATTCCTCTTCTCTGGCCTAATCCCTCCTTCTCCGAGGCGAGCGGT
ACGTGGACGGAGGAGTGAGCGACAACGTCCCTGTGCTGGATGCCAAAACCACCATCACGGTGTACCTTT
CTACGGTGAGCATGACATCTGCCCAAAGTCAAGTCCACCAACTTCTTCCACGTGAATATCACCAACCTC
AGCCTCCGCTCTGCACTGGGAACCTCCAATTCTGACCAGAGCGCTCTTCCCGTCTGATGTGAAGGTGA
TGGGAGAGCTGTGCTATCAAGGGTACCTGGACGCTTCCGGTCTGGAGGAGAATGGCATCTGTAAACGG
GCCACAGCGCAGCCTGAGTCTGTCCTTGGTGGCCAGAAGCCTGCTTGGAAAATGGCAAACCTGTGGGA
GACAAGGTGCCAGTCAGCCTATGCTTTACAGATGAGAACATCTGGGAGACACTGTCCCCGAGCTCAGCA
CAGCTCTGAGTGAAGCGATTAAGGACAGGGAGGGCTACCTGAGCAAAGTCTGCAACCTCCTGCCCGTCAG
GATCCTGTCTACATCATGCTGCCCTGCAGTCTGCCCGTGGAGTGGGCTATCGCTGCAGTCCACAGGCTG
GTGACATGGCTCCCTGATATCCAGGATGATATCCAGTGGCTACAATGGGCGACATCCAGGTTTGTGCC
GAATGACGATGTGCTGCTCCCTCTACCAGATCCCGAGCATCCAAGGATGACCATCGAATGCTCAAGCA
TGGCCATACCCATCTCCCAAGCCTCAAGGCAACTCTGCTGGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206522 protein sequence
Red=Cloning site Green=Tags(s)

MYDPERRWSLSFAGCGFLGFYHVGATLCLSERAPHLLRDARTFFGCSAGALHAVTFVCSLPLGRIMEILM
 DLVRKARSNIGTLHPFFNINKCIRDGLQESLPDNVHQVLSGKVIHSLTRVSDGENVLVSEFHSKDEVVD
 ALVCSCFIPLFSGLIPPSFRGERIYVDDGGVSDNVPVLDAKTTITVSPFYGEHDIKPKVKSTNFFHVNITNL
 SLRLCTGNLQLLTRALFPSDVKVMGELCYQGYLDAFRFLEENGICNGPQRSLSLSLVAPEACLENGKLVG
 DKVPVSLCFTDENIWETLSPELSTALSEAIKDREGYLSKVCNLLPVRILSYIMLPCSLPVEAIAAVHRL
 VTWLPDIQDDIQWLQWATSQVCARMTMCLLPSTRSRASKDDHRMLKHGHPSPHKPQGNISAGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_054088

ORF Size: 1242 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_054088.2](#)

RefSeq Size: 4649 bp

RefSeq ORF: 1155 bp

Locus ID: 116939

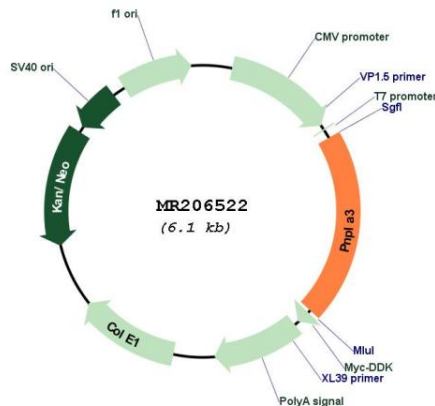
UniProt ID: [Q91WW7](#)

Cytogenetics: 15 E2

MW: 45.8 kDa

Gene Summary: Specifically catalyzes coenzyme A (CoA)-dependent acylation of 1-acyl-sn-glycerol 3-phosphate (2-lysophosphatidic acid/LPA) to generate phosphatidic acid (PA), an important metabolic intermediate and precursor for both triglycerides and glycerophospholipids. Does not esterify other lysophospholipids. Acyl donors are long chain (at least C16) fatty acyl-CoAs: arachidonoyl-CoA, linoleoyl-CoA, oleoyl-CoA and at a lesser extent palmitoyl-CoA (PubMed:22560221). Additionally possesses low triacylglycerol lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in acyl-chain remodeling of triglycerides (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206522