

Product datasheet for **MG206522**

Pnpla3 (NM_054088) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pnpla3 (NM_054088) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pnpla3
Synonyms: Adpn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206522 representing NM_054088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTATGACCCAGAGCGCCGCTGGAGCCTGTCGTTTGCAGGCTGCGGCTTCTGCGCTTCTACCACGTCG
 GGGCTACGCTATGTCTGAGCGAGCGCCCGCACCTCTCCGCGATGCGCGCACTTTCTTTGGCTGCTC
 GGCCGGTGCACCTGCACGCGGTACCTTCGTGTGCAGTCTCCCTCTCGGCCGTATAATGGAGATCCTCATG
 GACCTCGTGCGGAAAGCCAGGAGCCGCAACATCGGCACCCTCCACCCGTTCTTCAACATTAACAAGTGCA
 TCAGAGACGGGCTCCAGGAGAGCCTCCAGACAATGTCCACCAGGTCATTTCTGGCAAGGTTACATCTC
 ACTCACCAGGGTGTCCGATGGGGAGAACGTGCTGGTGTCTGAGTTCCATTCCAAAGACGAAGTCGTGGAT
 GCCCTGGTGTGTTCTGCTTCATTCCTCTTCTCTGGCCTAATCCCTCCTTCTCCGAGGCGAGCGGT
 ACGTGGACGGAGGAGTGAGCGACAACGTCCCTGTGCTGGATGCCAAAACCACCATCACGGTGTACCTTT
 CTACGGTGAGCATGACATCTGCCCAAAGTCAAGTCCACCAACTTCTTCCACGTGAATATCACCAACCTC
 AGCCTCCGCTCTGCACTGGGAACCTCCAATTCTGACCAGAGCGCTCTTCCCGTCTGATGTGAAGGTGA
 TGGGAGAGCTGTGCTATCAAGGGTACCTGGACGCTTCCGGTCTGGAGGAGAATGGCATCTGTAAACGG
 GCCACAGCGCAGCCTGAGTCTGTCTTGGTGGCGCCAGAAGCCTGCTTGGAAAATGGCAAACTTGTGGGA
 GACAAGGTGCCAGTCAGCCTATGCTTTACAGATGAGAACATCTGGGAGACACTGTCCCGAGCTCAGCA
 CAGCTCTGAGTGAAGCGATTAAGGACAGGGAGGGCTACCTGAGCAAAGTCTGCAACCTCCTGCCCGTCAG
 GATCCTGTCTACATCATGCTGCCCTGCAGTCTGCCCGTGGAGTGGGCTATCGTGCAGTCCACAGGCTG
 GTGACATGGCTCCCTGATATCCAGGATGATATCCAGTGGCTACAATGGGCGACATCCAGGTTTGTGCC
 GAATGACGATGTGCTGCTCCCTCTACCAGATCCCGAGCATCCAAGGATGACCATCGAATGCTCAAGCA
 TGGCCATACCCATCTCCCAAGCCTCAAGGCAACTCTGCTGGTTTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**



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Protein Sequence: >MG206522 representing NM_054088
Red=Cloning site Green=Tags(s)

MYDPERRWSLSFAGCGFLGFYHVGATLCLSERAPHLRLDARTFFGCSAGALHAVTFVCSLPLGRIMEILM
 DLVRKARSRNIGTLHPFFNINKCIRDGLQESLPDNPVHQVLSGKVHISL TRVSDGENVLVSEFHSKDEVVD
 ALVCSCFIPLFSGLIPPSFRGERIYVDDGGVSDNPVLDAKTTITVSPFYGEHDICPKVKSTNFFHVNITNL
 SLRLCTGNLQLL TRALFPSDVKVMGELCYQGYLDAFRFLEENGICNGPQRSLSLSLVAPEACLENGKLVG
 DKVPVSLCFTDENIWETLSPELSTALSEAIKDREGYLSKVCNLLPVRILSYIMLPCSLPVEAIAAVHRL
 VTWLPDIQDDIQWLQWATSQVCARMTMCLLPSTRSRASKDDHRMLKHGHHPSPHKPQGNSAGL

TRTRPLE - GFP Tag - V

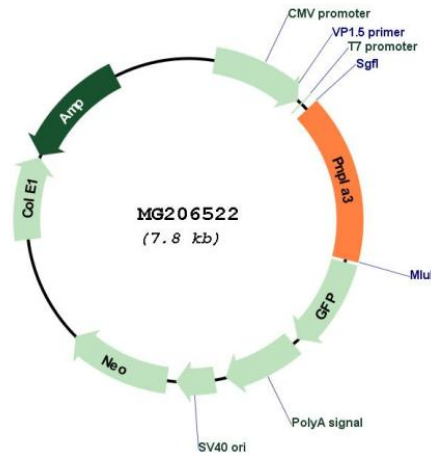
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_054088

ORF Size:	1239 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:	<ol style="list-style-type: none">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:	3007 bp
RefSeq ORF:	1155 bp
Locus ID:	116939
UniProt ID:	Q91WW7
Cytogenetics:	15 E2
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]