

## Product datasheet for **MC207847**

### **Pnpla3 (NM\_054088) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pnpla3 (NM_054088) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pnpla3
Synonyms:	Adpn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_054088, the custom clone sequence may differ by one or more nucleotides

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ATGTATGACCCAGAGCGCCGCTGGAGCCTGTCGTTTGCAGGCTGCGGCTTCTGGGCTTCTACCACGTCG
GGGCTACGCTATGTCTGAGCGAGCGCGCCCGCACCTCCTCCGCGATGCGCGCACTTTCTTTGGCTGCTC
GGCCGGTGCACTGCACGCGGTACCTTCGTGTGCAGTCTCCCTCTCGGCCGTATAATGGAGATCCTCATG
GACCTCGTGGGAAAGCCAGGAGCCGCAACATCGGCACCCTCCACCCGTTCTTCAACATTAACAAGTGCA
TCAGAGACGGGCTCCAGGAGAGCCTCCCAGACAATGTCCACCAGGTCATTTCTGGCAAGGTTACATCTC
ACTCACCAGGGTGTCCGATGGGAGAACGTGCTGGTGTCTGAGTCCATTCCAAAGACGAAGTCGTGGAT
GCCCTGGTGTGTTCTCTGCTTCATTCCCCTTTCTCTGGCCTAATCCCTCCTTCCCTCCGAGGCGAGCGGT
ACGTGGACGGAGGAGTGAGCGACAACGTCCCTGTGCTGGATGCCAAAACCACCATCACGGTGTACCTTT
CTACGGTGAGCATGACATCTGCCCAAAGTCAAGTCCACCAACTTCTTCCACGTGAATATCACCAACCTC
AGCCTCCGCTCTGCACTGGGAACCTCCAATTCTGACCAGAGCGCTCTTCCCGTCTGATGTGAAGGTGA
TGGGAGAGCTGTGCTATCAAGGGTACCTGGACGCTTCCGGTTCCTGGAGGAGAAATGGCATCTGTAACGG
GCCACAGCGCAGCCTGAGTCTGTCTTGGTGGCGCCAGAAGCCTGCTTGGAAAATGGCAAACCTGTGGGA
GACAAGGTGCCAGTCAGCCTATGCTTTACAGATGAGAACATCTGGGAGACTGTCCCCGAGCTCAGCA
CAGCTCTGAGTGAAGCGATTAAGGACAGGGAGGGCTACCTGAGCAAAGTCTGCAACCTCCTGCCCCGTCAG
GATCCTGTCTACATCATGCTGCCCTGCAGTCTGCCCGTGGAGTCGGCTATCGCTGCAGTCCACAGGCTG
GTGACATGGCTCCCTGATATCCAGGATGATATCCAGTGGCTACAATGGGCGACATCCCAGGTTTGTGCC
GAATGACGATGTGCCTGCTCCCCTCTACCAGATCCCGAGCATCCAAGGATGACCATCGAATGCTCAAGCA
TGGCCATCACCCATCTCCCACAAGCCTCAAGGCAACTCTGCTGGTTTGTAA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_054088



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<b>Insert Size:</b>	1242 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC028792</a></u> , <u><a href="#">AAH28792</a></u>
<b>RefSeq Size:</b>	1915 bp
<b>RefSeq ORF:</b>	1155 bp
<b>Locus ID:</b>	116939
<b>UniProt ID:</b>	<u><a href="#">Q91WW7</a></u>
<b>Cytogenetics:</b>	15 E2
<b>Gene Summary:</b>	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]