

Product datasheet for **SC324854**

PNPLA4 (NM_001142389) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA4 (NM_001142389) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPLA4
Synonyms:	DXS1283E; GS2; iPLA2eta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324854 representing NM_001142389. Blue=Insert sequence Red=Cloning site Green=Tag(s)

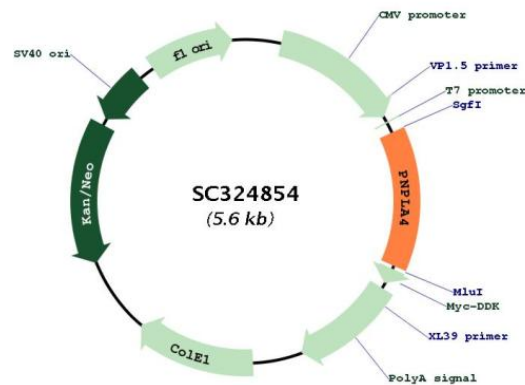
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCACATCAACCTATCATTTGCAGCGTGTGGATTTCTGGGCATTTACCACTGGGGGCAGCATCT
GCACTTTGCAGACATGGCAAAAACTTGTGAAGGATGTCAAAGCCTTCGCTGGGGCGTCTGCGGGATCG
TTGGTTGCTTCTGTTCTGCTAACAGCACCAGAAAAATAGAGGAATGTAACCAATTTACCTACAAGTTT
GCCGAAGAAATCAGAAGGCAGTCTTTGGGGCAGTAACGCCGGTTATGACTTCATGGCCCGACTAAGA
AGTGGGATGGAGTCGATTCTTCTCCAGCGCTCAGGAGCTGGCCAGAACCGACTGCACGTATCCATC
ACCAACGCCAAAACCAGAGAAAATCACTTAGTCTCCACTTTTTCTCCAGGGAGGACCTCATTAAAGTC
CTCTAGCCAGCAGTTTTGTGCCATTTATGCAGGACTGAAGCTAGTGAATACAAAGGGCAGAAGTGG
GTGGACGGAGGCCTACCAACGCTCTTCCCATCCTGCCCGTGGCCGGACAGTAACCATCTCCCCCTTC
AGTGGACGACTGGACATCTCCCCGAGGACAAAGGGCAGCTAGATCTGTATGTTAATATCGCAAGCAG
GATATCATGTTGTCCCTGGCAAACCTGGTGAGACTCAACCAAGCCCTTTTCCCCAAGCAAGAGGAAA
ATGGAATCTTTGTATCAGTGTGTTTTGATGACACTGTTAAGTTTTACTTAAAGAAAATTGTTTTGAA
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_001142389

Insert Size: 762 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001142389.1](#)

RefSeq Size: 2752 bp

RefSeq ORF: 762 bp

Locus ID: 8228

UniProt ID: [P41247](#)

Cytogenetics: Xp22.31

Protein Pathways: Retinol metabolism

MW: 28 kDa

Gene Summary: This gene encodes a member of the patatin-like family of phospholipases. The encoded enzyme has both triacylglycerol lipase and transacylase activities and may be involved in adipocyte triglyceride homeostasis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome Y. [provided by RefSeq, Feb 2010]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.