

Product datasheet for RC226698

PNPLA4 (NM 001142389) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PNPLA4 (NM_001142389) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: PNPLA4

Synonyms: DXS1283E; GS2; iPLA2eta

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC226698 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC226698 protein sequence

Red=Cloning site Green=Tags(s)

MKHINLSFAACGFLGIYHLGAASALCRHGKKLVKDVKAFAGASAGSLGASVLLTAPEKIEECNQFTYKFA EEIRRQSFGAVTPGYDFMARLRSGMESILPPSAHELAQNRLHVSITNAKTRENHLVSTFSSREGLIKVLL ASSFVPIYAGLKLVEYKGQKWVDGGLTNALPILPVGRTVTISPFSGRLDISPQDKGQLDLYVNIAKQDIM LSLANLVRLNQALFPPSKRKMESLYQCGFDDTVKFLLKENWFE

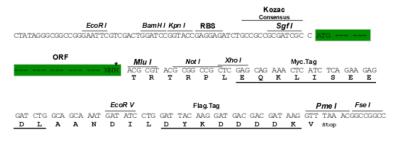
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6069 b06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001142389

ORF Size: 759 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 customercom 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

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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: <u>NM 001142389.1</u>, <u>NP 001135861.1</u>

 RefSeq Size:
 2752 bp

 RefSeq ORF:
 762 bp

 Locus ID:
 8228

 UniProt ID:
 P41247

 Cytogenetics:
 Xp22.31

Protein Pathways: Retinol metabolism

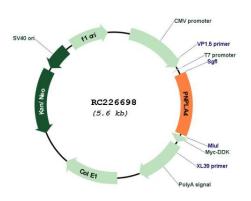
MW: 27.9 kDa

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

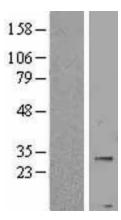
pseudogene of this gene is found on chromosome Y. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RC226698





Western blot validation of overexpression lysate (Cat# [LY428061]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226698 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).