

Product datasheet for **RG226698**

PNPLA4 (NM_001142389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA4 (NM_001142389) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PNPLA4
Synonyms:	DXS1283E; GS2; iPLA2eta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226698 representing NM_001142389 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCACATCAACCTATCATTTCAGCGTGTGGATTCTGGGCATTTACCACTGGGGGCAGCATCTG
CACTTTGCAGACATGGCAAAAACTTGTGAAGGATGTCAAAGCCTTCGCTGGGGCGTCTGCGGGATCGTT
GGGTGCTTCTGTTCTGCTAACAGCACCAGAAAAATAGAGGAATGTAACCAATTTACCTACAAGTTTGCC
GAAGAAATCAGAAGGCAGTCTTTCGGGGCAGTAACGCCCGTTATGACTTCATGGCCCGACTAAGAAGTG
GGATGGAGTCGATTCTTCTCCAGCGCTCACGAGCTGGCCAGAACCGACTGCACGTATCCATCACCAA
CGCAAAACCAGAGAAAACTCACTTAGTCTCCACTTTTTCTCCAGGGAGGGCCTCATTAAGTCCCTCCTA
GCCAGCAGTTTTGTGCCATTTATGCAGGACTGAAGCTAGTGGAATACAAAGGGCAGAAGTGGGTGGACG
GAGGCCTACCAACGCTCTTCCATCCTGCCCGTCGGCCGGACAGTAACCATCTCCCCCTTCAGTGGACG
ACTGGACATCTCCCCGAGGACAAAGGGCAGCTAGATCTGTATGTTAATATCGCCAAGCAGGATATCATG
TTGTCCCTGGCAAACCTGGTGAGACTCAACCAAGCCCTTTTTCCCAAGCAAGAGGAAAATGGAATCTT
TGATCAGTGTGGTTTTGATGACACTGTTAAGTTTTACTTAAAGAAAATTGTTTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226698 representing NM_001142389
Red=Cloning site Green=Tags(s)

MKHINLSFAACGFLGIYHLGAASALCRHGKLVKDVKAFAGASAGSLGASVLLTAPEKIEECNQFTYKFA
 EEIRRQSFQAVTPGYDFMARLRSGMESILPPSAHELAQNRLHVSITNAKTRENHLVSTFSSREGLIKVLL
 ASSFPVIYAGLKLVEYKGQKWVDGGLTNALPILPVGRTVTISPFSGRLDISPQDKGQLDLVYNIKQDIM
 LSLANLVRLNQLFPPSKRKMESLYQCGFDDTVKFLLENWFE

TRTRPLE - GFP Tag - V

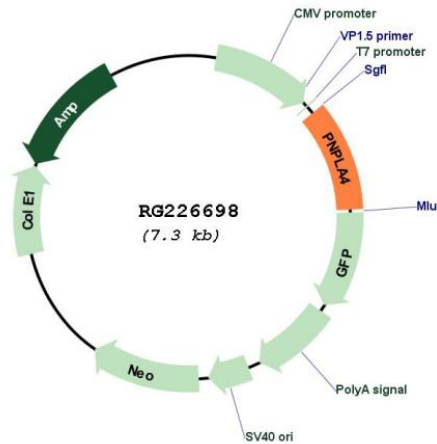
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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 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 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_001142389.1](#), [NP_001135861.1](#)

RefSeq Size: 2752 bp

RefSeq ORF: 762 bp

Locus ID: 8228

UniProt ID: [P41247](#)

Cytogenetics: Xp22.31

Protein Pathways: Retinol metabolism

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]