

## Product datasheet for **RG204732**

### **PNPLA4 (NM\_004650) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PNPLA4 (NM\_004650) 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:** >RG204732 representing NM\_004650  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCACATCAACCTATCATTTCAGCGTGTGGATTCTGGGCATTTACCACTTGGGGGCAGCATCTG  
CACTTTGCAGACATGGCAAAAACTTGTGAAGGATGTCAAAGCCTTCGCTGGGGCGTCTGCGGGATCGTT  
GGGTGCTTCTGTTCTGCTAACAGCACCAGAAAAATAGAGGAATGTAACCAATTTACCTACAAGTTTGCC  
GAAGAAATCAGAAGGCAGTCTTTCGGGGCAGTAACGCCCGTTATGACTTCATGGCCCGACTAAGAAGTG  
GGATGGAGTCGATTCTTCTCCAGCGCTCACGAGCTGGCCAGAACCGACTGCACGTATCCATCACCAA  
CGCCAAAACAGAGAAAACTCACTTAGTCTCCACTTTTTCTCCAGGGAGGGCCTCATTAAGTCTCCTA  
GCCAGCAGTTTTGTGCCATTTATGCAGGACTGAAGCTAGTGGAATACAAAGGGCAGAAGTGGGTGGACG  
GAGGCCTACCAACGCTCTTCCATCCTGCCCGTGGCCGGACAGTAACCATCTCCCTTCAGTGGACG  
ACTGGACATCTCCCGCAGGACAAAGGGCAGCTAGATCTGTATGTTAATATCGCCAAGCAGGATATCATG  
TTGTCCCTGGCAAACCTGGTGAGACTCAACCAAGCCCTTTTTCCCAAGCAAGAGGAAAATGGAATCTT  
TGATCAGTGTGGTTTTGATGACACTGTTAAGTTTTACTTAAAGAAAATGGTTTGAA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG204732 representing NM\_004650  
 Red=Cloning site Green=Tags(s)

MKHINLSFAACGFLGIYHLGAASALCRHGKLVKDVKAFAGASAGSLGASVLLTAPEKIEECNQFTYKFA  
 EEIRRQSFQAVTPGYDFMARLRSGMESILPPSAHELAQNRLHVSITNAKTRENHLVSTFSSREGLIKVLL  
 ASSFVPIYAGLKLVEYKQKQWVDGGLTNALPILPVGRTVTISPFSGRLDISPQDKGQLDLVYNIKQDIM  
 LSLANLVRLNQLFPPSKRKMESLYQCGFDDTVKFLLENWFE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004650

**ORF Size:** 759 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:**

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\\_004650.1](#), [NP\\_004641.1](#)

**RefSeq Size:** 2809 bp

**RefSeq ORF:** 762 bp

**Locus ID:** 8228

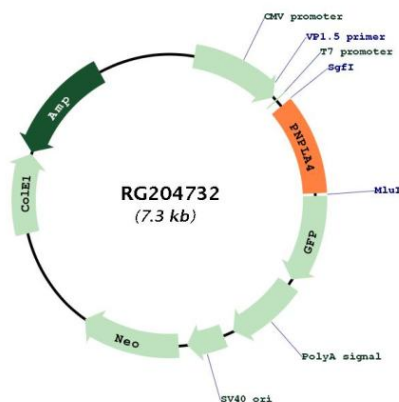
**UniProt ID:** [P41247](#)

**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]

## Product images:



Circular map for RG204732