

## Product datasheet for **RC202500**

### ADFP (PLIN2) (NM\_001122) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADFP (PLIN2) (NM_001122) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADFP
Synonyms:	ADFP; ADRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC202500 representing NM\_001122  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTACTCGGGTGGTCAACCTGCCCTTGGTGAGCT  
 CCACGTATGACCTCATGTCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTG  
 TGAGATGGCAGAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCATCATCCAG  
 AAGCTAGAGCCGCAAATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGAC  
 TGCCTATTCTGAATCAGCCATCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGCAAAAGA  
 TGCTGTGACGACTACTGTGACTGGGGCCAAGGATTCTGTGGCCAGCAGATCACAGGGGTGATGGACAAG  
 ACCAAAGGGGCGAGTACTGGCAGTGTGGAGAAGACCAAGTCTGTGGTCACTGAGCAGCATTAAACAGTCT  
 TGGGGAGTCGGATGATGCAGCTCGTGGCAGTGGCGTAGAAAATGCACTACCAAATCAGAGCTGTTGGT  
 AGAACAGTACCTCCCTCACTGAGGAAGAACTAGAAAAAGAAGCAAAAAAGTTGAAGGATTTGATCTG  
 GTTCAGAAAGCAAGTTATTATGTTAGACTGGGATCCCTGTCTACCAAGCTTCACTCCCGTGCCTACCAGC  
 AGGCTCTCAGCAGGGTTAAGAAGCTAAGCAAAAAAGCCAACAGACCATTCTCAGCTCCATTCTACTGT  
 TCACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAGGATGCTCAGGATAAG  
 CTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCCCCTGTGCTG  
 AGCACATTGAGTACGTAATCTTGAATTTGCCGCAACCTGACTCAGCAGCTCCAGACCAGTGGCCACAC  
 CCTCTGTCCAACATCCAAGGTGTACCACAGAATCAAGATCAAGCAAGCACATGGGGGTGATGGCA  
 GGCGACATCTACTCAGTGTCCGCAATGCTGCCTCCTTTAAGAAGTGTCTGACAGCCTCCTCACTTCTA  
 GCAAGGGGCGAGTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTAAACAACACGCC  
 CCTCAACTGGCTGGTAGGTCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCA  
 GAGATGGACAAGAGCAGCCAGGAGACCCAGCGATCTGAGCATAAACTCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202500 representing NM\_001122  
 Red=Cloning site Green=Tags(s)

MASVAVDPQPSVTRVVNLPLVSSSTYDLMSSAYLSTKDQYPYLKSVCEMAENGVKTIITSVAMTSALPIIQ  
 KLEPQIAVANTYACKGLDRIEERLPILNQPSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDK  
 TKGAVTGSVEKTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDL  
 VQKPSYVYVRLGSLSTKLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDK  
 LYL SWVEWKRSIGYDDTDESHCAEHIESRTLAIARNLTQQLTTCHTLLSNIQGVQNIQDQAKHMGVMA  
 GDIIYSVFRNAASFKEVSDSLLTSSKGQLQKMKESLDDVMDYL VNNTPLNWL VGPFYPQLTESQNAQDQGA  
 EMDKSSQETQRSEHKTH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2697\\_b09.zip](https://cdn.origene.com/chromatograms/mg2697_b09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001122

**ORF Size:** 1311 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001122.4](#)

**RefSeq Size:** 2010 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 123

UniProt ID: [Q99541](#)

Cytogenetics: 9p22.1

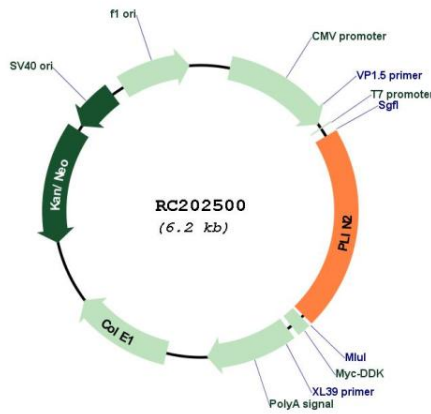
Domains: perilipin

Protein Families: Druggable Genome

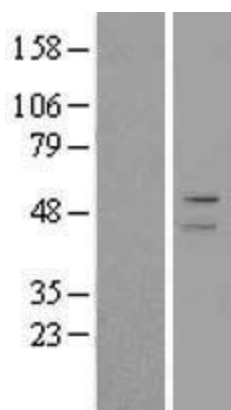
MW: 47.9 kDa

**Gene Summary:** The protein encoded by this gene belongs to the perilipin family, members of which coat intracellular lipid storage droplets. This protein is associated with the lipid globule surface membrane material, and maybe involved in development and maintenance of adipose tissue. However, it is not restricted to adipocytes as previously thought, but is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells, and tissues, such as lactating mammary gland, adrenal cortex, Sertoli and Leydig cells, and hepatocytes in alcoholic liver cirrhosis, suggesting that it may serve as a marker of lipid accumulation in diverse cell types and diseases. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2011]

**Product images:**



Circular map for RC202500



Western blot validation of overexpression lysate (Cat# [LY400454]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202500 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLIN2 protein (Cat# [TP302500]). The protein was produced from HEK293T cells transfected with PLIN2 cDNA clone (Cat# RC202500) using MegaTran 2.0 (Cat# [TT210002]).