

## Product datasheet for **RC206292**

### Perilipin-1 (PLIN1) (NM\_002666) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Perilipin-1 (PLIN1) (NM_002666) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Perilipin-1
Synonyms:	FPLD4; PERI; PLIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC206292 representing NM\_002666  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGTCAACAAAGGCTCACCTTGCTGGATGGAGACCTCCCTGAGCAGGAGAATGTGCTGCAGCGGG  
 TCCTGCAGCTGCCGGTGGTGAGTGGCACCTGCGAATGCTTCCAGAAGACCTACACCAGCACTAAGGAAGC  
 CCACCCACTGGTGGCCTCTGTGTCAATGCCTATGAGAAGGGCGTGCAGAGCGCCAGTAGCTTGGCTGCC  
 TGGAGCATGGAGCCGGTGGTCCGCAAGGTGCCACCCAGTTCACAGCTGCCAATGAGCTGGCCTGCCGAG  
 GCTTGGACCACCTGGAGGAAAAGATCCCGCCCTCCAGTACCCCTGAAAAGATTGCTTCTGAGCTGAA  
 GGACACCATCTCCACCCGCTCCGCAAGTCCAGAAACAGCATCAGCGTCCCATCGCGAGCACTTCAGAC  
 AAGTCTGGGGCGCTTTGGCCGGTGCAGCTTGCCTGGGGGTGCCAGAGACTGCGGAATTTG  
 CTGCCAACCTCGAGCTGGCCGACTGGCTTCTGGAGGGCGGACTTGGCCTTGGCAGCATTGAGAAGT  
 GGTGGAGTACCTCCTCCCTGCAGACAAGGAAGAGTCAGCCCTGCTCCTGGACACCAGCAAGCCAGGAG  
 TCTCCAAAGGCCAAGCCAAGCCTTTGAGCAGGGTTGGGGCTCTGACCAACCCCTCTCTGATACACCG  
 TGACAGACCATGGCCCGGCCCTGGAGCAGGGCCACACAGTGGCCATGTGGATCCCAGGCGTGGTGCCCT  
 GAGCAGCTGGCCAGTGGGGTGCCTCAGTGGCCATGCAGGCGGTGCCCGCGGAGGAGCGAAGTGCAG  
 GTACCCTGGTGCACAGCCTCGCAGCCGCCAGGAGGAGGATCATGAGGACCAGACAGACACGGAGGGAG  
 AGGACACGGAGGAGGAGGAAGAATTGGAGACTGAGGAGAACAAGTTCAGTGAGGTAGCAGCCCTGCCAGG  
 CCCTCGAGGCTCCTGGTGGTGTGGCAGATACCTGCAGAAGACCCCTCCAGACCACCATCTCGGCTGTG  
 ACATGGCACCTGCAGCTGTGCTGGCAGTGGCAGGGAGGGTGTGCACCTCACACCAGCCCCGCTGTCT  
 CCTCAACCAAGGGGAGGCCATGTCCCTATCAGATGCCCTGAAGGGCGTTACTGACAACCTGGTGGACAC  
 AGTGGTGCATTACGTGCCGCTCCCGAGGCTGTGCTGATGGAGCCCGAGAGCGAATTCGGGACATCGAC  
 AACCCACAGCCGAGGTGCAGCGCCGGAGGCGGAGCGCAGAGCGTCTGGGGCGCCGTCGCCCGGCCGG  
 AGCCCGCCCGCGCTCTCGCACAGCCCGCCGCGAGCCTGCGCAGCGCGCAGAGCCCGCGCGCCCCCGG  
 CCCGGGCTGGAGGACGAAGTCGCCACGCCCGCAGCGCCCGCGCCGGCTTCCCGCCGTGCCCGCGAG  
 AAGCCAAAGCGCAGGGTCAAGCAGCTTCTCCGGCCAGCGTCATGGAGCCCATCTGGGCCGCGACGC  
 ATTACAGCCAGCTGCGCAAGAAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206292 representing NM\_002666  
 Red=Cloning site Green=Tags(s)

MAV NKGL TLL DGL PEQENVL QRVLQL PVVSGTCECFQKTYTSTKEA HPLVASVCNAYEKGVQSASSLAA  
 WSEPVVRRRLSTQFTAANELACRGLDHLEEKIPALQYPPEKIASSELKDTISTR LRSARNSISVPIASTSD  
 KVLGAALAGCELAWGVARDTAEF AANTRAGRLASGGADLALGSIKVVVEYLLPADKEESAPAPGHQQAQE  
 SPKAKPSLLSRVGALTNL SRYTVQTMARALEQGHTVAMWIPGVVPLSSLAQWGASVAMQAVSRRRSEVR  
 VPWLHSLAAAQEEHDHEDQTDTEGEDTEEEETEENKFSEVAALPGPRGLLGGVAHTLQKTLQTTISAV  
 TWAPAAVLGMAGRVLHL TPAPAVSSTKGRAMSLSDALKGVTDNVVDTVVHYVPLPRLSLMEPESEFRDID  
 NPPAEVERREAERRASGAPSAPEPAPRLAQPRRSLRSAQSPGAPPGLEDEVATPAAPRPGFPAVPRE  
 KPKRRVSDSFFRPSVMEPILGRTHYSQLRKKS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3818\\_d05.zip](https://cdn.origene.com/chromatograms/mg3818_d05.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_002666

**ORF Size:** 1566 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\\_002666.5](#)

**RefSeq Size:** 2922 bp

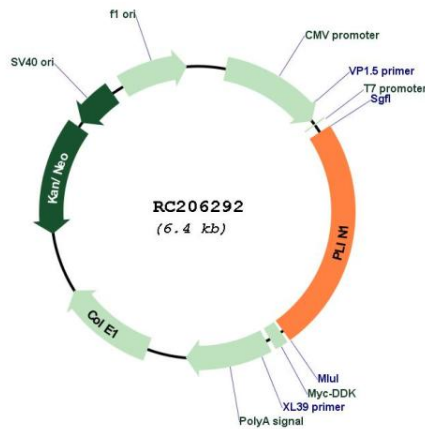
**RefSeq ORF:** 1569 bp

**Locus ID:** 5346

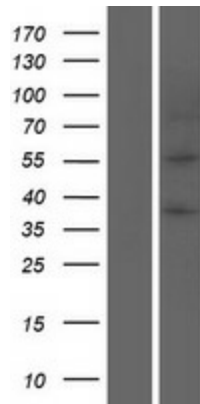
UniProt ID: O60240  
 Cytogenetics: 15q26.1  
 Domains: perilipin  
 Protein Families: Druggable Genome  
 Protein Pathways: PPAR signaling pathway  
 MW: 55.8 kDa

**Gene Summary:** The protein encoded by this gene coats lipid storage droplets in adipocytes, thereby protecting them until they can be broken down by hormone-sensitive lipase. The encoded protein is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in the inhibition of lipolysis. Alternatively spliced transcript variants varying in the 5' UTR, but encoding the same protein, have been found for this gene. [provided by RefSeq, Feb 2009]

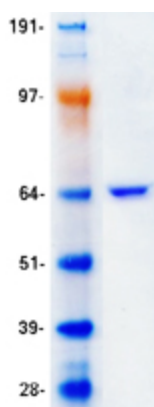
**Product images:**



Circular map for RC206292



Western blot validation of overexpression lysate (Cat# [LY428814]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226949] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLIN1 protein (Cat# [TP306292]). The protein was produced from HEK293T cells transfected with PLIN1 cDNA clone (Cat# RC206292) using MegaTran 2.0 (Cat# [TT210002]).