

## Product datasheet for SC127716

### ADFP (PLIN2) (NM\_001122) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADFP (PLIN2) (NM_001122) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADFP
Synonyms:	ADFP; ADRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127716 sequence for NM_001122 edited (data generated by NextGen Sequencing)

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ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCC
TTGGTGAGCTCCACGTATGACCTCATGTCTCAGCCTATCTCAGTACAAAGGACCAGTAT
CCCTACCTGAAGTCTGTGTGTGAGATGGCAGAGAACGGTGTGAAGACCATCACCTCCGTG
GCCATGACCAGTCTCTGCCATCATCCAGAAGCTAGAGCCGCAAATTGCAGTTGCCAAT
ACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAGATGCTGTGACG
ACTACTGTGACTGGGGCAAAGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAG
ACCAAAGGGGCAGTGACTGGCAGTGTGGAGAAGACCAAGTCTGTGGTCAGTGGCAGCATT
AACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGCGTAGAAAATGCACTC
ACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAACTAGAAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTTCAAGCAAGTATTATTGTTAGACTG
GGATCCCTGTCTACCAAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAA
GAAGCTAAGCAAAAAAGCCAACAGACATTTCTCAGCTCCATTCTACTGTTACACCTGATT
GAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAGGATGCTCAGGATAAG
CTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCACATTGAGTCACGTACTCTTGCAATTGCCCGCAACCTGACTCAGCAG
CTCCAGACCAGTGCCACACCCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAA
GATCAAGCCAAGCACATGGGGGTGATGGCAGGCGACATCTACTCAGTGTTCGCAATGCT
GCCTCCTTTAAAGAGTGTCTGACAGCCTCCTCACTTCTAGCAAGGGGCAGCTGCAGAAA
ATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAAACACGCCCTCAACTGG
CTGGTAGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCA
GAGATGGACAAGAGCAGCCAGGAGACCCAGCGATCTGAGCATAAAACTCATTA

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Clone variation with respect to NM\_001122.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001122 unedited</p> <pre> NGGGTCAGATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCAGCCGGA GTCGTCTTCGGGACGCGCCTGCTCTTCGCCTTCGCTGCAGTCCGTTCGATTTCTTTCTCC AGGAAGAAAAAGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTC AACCTGCCCTTGGTGAGCTCCACGTATGACCTCATGTCCTCAGCCTATCTCAGTACAAAG GACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCAGAGAACGGTGTGAAGACCATC ACCTCCGTGGCCATGACCAGTGTCTGCCCATCATCCAGAAGCTAGAGCCGCAAATTGCA GTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTG AATCAGCCATCAACTCAGATTGTTGCCAATGCCAAAGGCCTGTGACTGGGGCAAAGAT GCTGTGACGACTACTGTGACTGGGGCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTG ATGGACAAGACCAAAGGGCAGTGACTGGCAGTGTGGAGAAGACCAAGTCTGTGGTCAGT GGCAGCATTAAACACAGTCTTGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGCGTAGAA AATGCACTACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAA CTAGAAAAAGAAGCAAAAAAAGTTGAAGGGATTTGATCTGGTTCAGAAGCCAAGTTATTA TGTTAGACTGGGATCCCTGTCTACCAAGCTTCACTCCCGTGCCTACCAGCANGCTCTCAG CAGGGTTAAAGAAGCTAAGCANAAAAGCCACAGACCATTCTCAGCTCATTCTACTGNTC ACCTGATA </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001122 unedited</p> <pre> NTTCACTCTGGACCGGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTATC CTGCAGTGAATTTTATTGAATTCAGGTAGTATTCCTATTTGAGAAATGAAAACTAAAA TCAAGTTTTACAAGCAAGCATCATGAGATAAAGCAGTGAAGACGCCTTTTCAGATCACAC CAGAGCAGACACCAGTTTCTACCCAGCCACATGAAGATGTTTTTATTCAATACAAACA GTAAACAGAGGCAACACAATGGCCATAGAATGAGAACATAAGTGCAATTTGAATTTTTCTG AGTTCTGGCTATAGGCTCTGACAAGCCTATCATTCTTTTCTTACCAGGTGAACAGAAATC ATCTGCTAATGCCAGAACTTTAAAGCTCTTAATTCAGCTGGAACAACACTACAATTGAGG GCCTTTATACTAGCTACTTGGCTCCCAATTTAGGGTTGCCTAGCAAGTTAATTTCAACAT AACAAAAGGTGTCATCTGTCTGGCCACAGCATGCACTAGTGATAGGGGCAGGTTAATGA GTTTTATGCTCAGATCGCTGGGTCTCCTGGCTGCTCTTGTCCATCTGACCTTGGTCC TGAGCATTCTGAGACTCAGTCAGCTGAGGATAAAAAGGGACCTACCAGCCAGTTGAGGGGG CGTGTGTTGTTAACAAGATAATCCATCACGTCATCTAAAGATTCCTTCAATTTCTGCAGTG CCCTTGTCTAGAAGTGAGGAGGCTGTGACACTTCTTTAAAGGGAGCAGCATTGCGGGA CACTGAGTAGATGTCGCCTGCCATACCCCATGTGCTTGGCTTGGATCTGGGATGTCTG TGGTACACCTTGGNATGTGGACAGGAGGTGTGGCACGTGGTCTGGAGCTGCTGAGTCAG GTTGCGGGCNAATGCAGAATACGTGACTCATGTGCTCAGACAGTGGGACTCATCA </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001122
<b>Insert Size:</b>	1950 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_001122.2](#), [NP\\_001113.2](#)

**RefSeq Size:** 2010 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 123

**UniProt ID:** [Q99541](#)

**Cytogenetics:** 9p22.1

**Domains:** perilipin

**Protein Families:** Druggable Genome

**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]  
Transcript Variant: This variant (1) represents the protein-coding transcript.