

Product datasheet for **SC118500**

Perilipin-1 (PLIN1) (NM_002666) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Perilipin-1 (PLIN1) (NM_002666) Human Untagged Clone
Tag:	Tag Free
Symbol:	Perilipin-1
Synonyms:	FPLD4; PERI; PLIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118500 sequence for NM_002666 edited (data generated by NextGen Sequencing)

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ATGGCAGTCAACAAAGGCCTCACCTTGCTGGATGGAGACCTCCCTGAGCAGGAGAATGTG
CTGCAGCGGGTCTGCAGCTGCCGGTGGTGGAGTGGCACCTGCGAATGCTTCCAGAAGACC
TACACCAGCACTAAGGAAGCCCACCCCTGGTGGCCTCTGTGTGCAATGCCTATGAGAAG
GGCGTGCAGAGCGCCAGTAGCTTGGCTGCCTGGAGCATGGAGCCGGTGGTCCGCAGGCTG
TCCACCCAGTTACAGCTGCCAATGAGCTGGCCCTGCCGAGGCTTGACCACCTGGAGGAA
AAGATCCCCGCCCTCCAGTACCCCTGAAAAGATTGCTTCTGAGCTGAAGGACCCATC
TCCACCCGCCCTCCGAGTGCCAGAAACAGCATCAGCGTCCCATCGCGAGCACTTCAGAC
AAGTCTCGGGGGCCGCTTTGGCCGGTGCAGCTTGCCTGGGGGTGGCCAGAGACACT
GCGGAATTTGCTGCCAACAACACTCGAGCTGGCCGACTGGCTTCTGGAGGGCCGACTTGGCC
TTGGGCAGCATTGAGAAGGTGGTGGAGTACCTCCTCCTCGACACAAGGAAGAGTCAGCC
CCTGCTCCTGGACACCAGCAAGCCAGAAAGTCTCCAAGGCCAAGCCAAGCCTCTTGAGC
AGGTTGGGGCTCTGACCAACACCCTCTCTCGATACACCGTGCAGACCATGGCCCGGGCC
CTGGAGCAGGGCCACACCGTGGCCATGTGGATCCAGGCGTGGTCCCTGAGCAGCCTG
GCCAGTGGGGTGCCTCAGTGGCCATGCAGGCGGTGTCCGCGGAGGAGCGAAGTGC GG
GTACCCTGGCTGCACAGCCTCGCAGCCGCCAGGAGGAGATCATGAGGACCAGACAGAC
ACGGAGGGAGAGGACACGGAGGAGGAGGAAGAATTGGAGACTGAGGAGAACAAAGTTCAGT
GAGGTAGCAGCCCTGCCAGGCCCTCGAGGCCTCCTGGGTGGTGTGGCACATACCTTGCAG
AAGACCTCCAGACCACCATCTCGGCTGTGACATGGGCACCTGCAGCTGTGCTGGGCATG
GCAGGGAGGGTGTGCACCTCACACCAGCCCCTGCTGTCTCCTCAACCAAGGGGAGGGCC
ATGTCCCTATCAGATGCCCTGAAGGGCGTTACTGACAACGTGGTGGACACAGTGGTGCAT
TACGTCCCGCTCCCAGGCTGTCTGATGGAGCCGAGAGCGAATTCGGGGACATCGAC
AACCCACAGCCGAGGTGAGCGCCGGGAGGCGGAGCGCAGAGCGTCTGGGGCCCGTCC
GCCGGCCCGAGCCCGCCCGCTCTCGCACAGCCCGCCGAGCCTGCGCAGCGCGCAG
AGCCCCGGCGCGCCCCCGGCCGNNNNNGGACGAAGTCGCCACGCCCGCAGCGCCG
CGCCCGGGCTTCCCGCCGTGCCCGGAGAAAGCAAAGCGCAGGGTCAGCGACAGCTTC
TTCCGGCCAGCGTCATGGAGCCATCCTGGGCCGACGCATTACAGCCAGCTGCGCAAG
AAGAGCTGA
    
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Clone variation with respect to NM_002666.4
 580 c=>g;1407 c=>n;1408 c=>n;1409 t=>n;1410 g=>n;1411 g=>n;1412 a=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002666 unedited

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GGGGTTCAGGATTTGTATACGACTCATATAGGCGGCNCGCAATTCGCACGAGGACAGGA
ATTGTTTCTGCCTGAGGAGACACTCTGCAGCCTGGGCTCTGTGAGACTGAGGTGGCGGTC
AGCCGGAGTGAGTGTGGGGTCTGGGGCACCTGCCTTACATGGCTTGTATGAACATT
AAAGGGAAGAAGTTGAAGCTTGAGGAGCGAGGATGGCAGTCAACAAAGGCCTCACCTTGC
TGGATGGAGACCTCCCTGAGCAGGAGAATGTGCTGCAGCGGGTCTGCAGCTGCCGGTGG
TGAGTGGCACCTGCGAATGCTTCCAGAAGACCTACACCAGCACTAAGGAAGCCCACCCCT
TGGTGGCCTCTGTGTGCAATGCCTATGAGAAGGGCGTGCAGAGCGCCAGTAGCTTGGCTG
CCTGGAGCATGGAGCCGGTGGTCCGCAGGCTGTCCACCCAGTTCACAGCTGCCAATGAGC
TGGCCTGCCGAGGCTTGGACCACCTGGAGGAAAAGATCCCCGCCCTCCAGTACCCCTG
AAAAGATTGCTTCTGAGCTGAAGGACACCATCTCCACCCGCTCCGAGTCCAGAAAACA
GCATCAGCGTTCCATCGCGAGCACTTCAGACAAGGTCTGNGGGCCGCTTTGGCCGGGT
GCGAGCTTGCCTGNGGGGTGGCCAGAGACACTGCGGAATTTGCTGCCAACAACCTGAGCT
GGCCGACTGGCTTCTGGAGGGGCCGACTTGGCCTTGGGCAGCATTGAGAAGGTGGNTGGA
GTACCTNCTCCCTGCAGACAGGAAGAGTCAGNCCCTGCTCCTGGACACCAGCAGCCAGA
AGTCTCCAGGCCAGCCAGCTCTGAGCAGGTTNTGGGCTCTGACCACACCTCTCTCGA
ACAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002666 unedited NCTTACTTGNNACCGCGGCCGCATCTANATCGAGTTTTTTTTTTTTTTTTTTTGGATAA GGACATTTATTATAGCATCGTTTGCAGTAGCAAAAAGAAAAAAGGGAAACAACCTAA AAGTCCATCATTAGGGAAGTAAATCAAATAAGGCGTATCCATATTATGCAGTAGTT ATTATGTGGCCATCAAAAAGAGCGAGTGGGATTATAATGTGATACAAAATCTCTCAA GCTGTATTATTAAGTAAAAAAGCAGGCATGCGTAACACCCACAGCTTGTGTAACAC AAGCGGGAGTGCATACACACGTGCCTGCAGGTGCATAGCCCTGCATACACAAGAGATGG CACCGTGGTGGTTTTCAATGAAGGGGAACAGGGGAGCTCGGGGAGAAAGACACATCCT TTTGCAATATTTGAATTCTGTAATTGTATGAATGCATTTTCTAGATTTATCAAATATTAA CATTTGGAAGACTAGGGTTGGGGATGAACTGTGGCTATACATAAAGTCTATATATCATCA CCATTTTGGTTCCCAGCATCAAAGAGTACTATGCAGGTGAAGGCAGTAATGATGCAA ATGAAATGTGGCTGTGAGCAAGCAGCTGGCTCTACAAAGCACACAGGCCTGGACTCAGC CTGTGAAGCGCGGGTACTCAGAAAGTGACACTAGTATTTAAATAAACACCCAAGAAGC TTTTGCATCTGATTGCCCTTCAAGTAGCTGCTGGGAGCCTAGATCATCAGAGGATGTT CATCAGAGGGGAACAGATCATCTAGATCACANGAGGAGNTCAGTGCTAAGAATGTGTC AAAACCTTCTGTCTGGACCTCANAGTGNTGACAGGNAGTACTCATTCTGGCCANNATAT TATCCGCAGAGGCAATCTGAAATTTGGAAACNGNNTCAATATCTTTGGCCACAAGTTN NGGTAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_002666
Insert Size:	3000 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_002666.3, NP_002657.2</u>
RefSeq Size:	2922 bp
RefSeq ORF:	1569 bp
Locus ID:	5346
UniProt ID:	<u>O60240</u>
Cytogenetics:	15q26.1
Domains:	perilipin

Protein Families: Druggable Genome

Protein Pathways: PPAR signaling pathway

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]
Transcript Variant: This variant (1) represents the predominant transcript. Transcript variants 1 and 2 encode the same protein.