

Product datasheet for **RG202500**

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:	TurboGFP
Symbol:	ADFP
Synonyms:	ADFP; ADRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202500 representing NM_001122 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAAGCT
CCACGTATGACCTCATGTCCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTG
TGAGATGGCAGAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGTCTGCCATCATCCAG
AAGCTAGAGCCGCAAATGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGAC
TGCCATTCTGAATCAGCCATCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAGA
TGCTGTGACGACTACTGTGACTGGGGCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAG
ACCAAAGGGGCAGTACTGGCAGTGTGGAGAAGACCAAGTCTGTGGTCACTGACGATTAAACAGTCT
TGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGCGTAGAAAAATGCACTACCAAATCAGAGCTGTTGGT
AGAACAGTACCTCCCTCTCACTGAGGAAGAACTAGAAAAAGCAAAAAAGTTGAAGGATTTGATCTG
GTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACCAAGCTTCACTCCCCTGCCACCAGC
AGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATTTCTCAGCTCCATTCTACTGT
TCACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAAATCAGGATGCTCAGGATAAG
CTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCCCCTGTGCTG
AGCACATTGAGTCACGACTCTTGCAATTGCCCGCAACCTGACTCAGCAGCTCCAGACCAGTGCCACAC
CCTCCTGTCCAACATCCAAGGTGTACCACAGAATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTCCGCAATGCTGCCTCCTTTAAAGAAGTGTCTGACAGCCTCCTCACTTCTA
GCAAGGGGCGAGCTGCAGAAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAACAACACGCC
CCTCAACTGGCTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCA
GAGATGGACAAGAGCAGCCAGGAGACCCAGCGATCTGAGCATAAAACCTCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202500 representing NM_001122
 Red=Cloning site Green=Tags(s)

MASVAVDPQPSSVTRVNLPLVSSYDLMSSAYLSTKDQYPYLKSVCEMAENGVKTITSVAMTSALPIIQ
 KLEPQIAVANTYACKGLDRIEERLPILNQPSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDK
 TKGAVTGSVEKTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDL
 VQKPSYYVRLGSLSTKLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDK
 LYL~~SWVEWKRSIGYDDTD~~ESHCAEHIESRTLAIARNLTQQQLTTCHTLLSNIQGV~~PQNIQDQAKHMGVMA~~
 GDIYSVFRNAASFKEVSDSLLTSSKQLQMKESLDDVMDYL~~VNNTPLNWL~~VGPFYPQLTESQNAQDQGA
 EMDKSSQETQRSEHKTH

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

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.

RefSeq: [NM_001122.4](#)

RefSeq Size: 2010 bp

RefSeq ORF: 1314 bp

Locus ID: 123

UniProt ID: [Q99541](#)

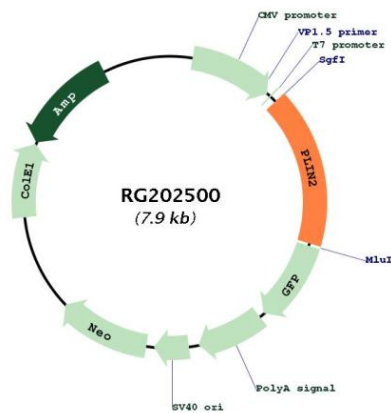
Cytogenetics: 9p22.1

Domains: perilipin

Protein Families: Druggable Genome

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 RG202500