

Product datasheet for **SC107379**

Adipose Triglyceride Lipase (PNPLA2) (NM_020376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adipose Triglyceride Lipase (PNPLA2) (NM_020376) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adipose Triglyceride Lipase
Synonyms:	1110001C14Rik; ATGL; FP17548; iPLA2zeta; PEDF-R; TTS-2.2; TTS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC107379 sequence for NM_020376 edited (data generated by NextGen Sequencing)

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ATGTTTCCC CGC GAGAAGACGTGGAACATCTCGTTCGCGGGCTGCGGCTTCTCGGCGTC
TACTACGTGCGCGTGGCCTCCTGCCTCCGCGAGCACGCGCCCTTCTGGTGGCCAACGCC
ACGCACATCTACGGCGCCTCGGCCGGGGCGCTCACGGCCACGGCGCTGGTCAACGGGGTC
TGCTGGGTGAGGCTGGTCCAAGTTTCATTGAGGTATCTAAAGAGGCCCGGAAGCGGTTT
CTGGGCCCCCTGCACCCCTCCTCAACCTGGTAAAGATCATCCGAGTTTCTGTGTAAG
GTCCCTGCCTGCTGATAGCCATGAGCATGCCAGTGGGCGCCTGGGATCTCCCTGACCCGC
GTGTCAGACGGCGAGAATGTCATTATATCCCACTTCAACTCCAAGGACGAGCTCATCCAG
GCCAATGTCTGCAGCGGTTTCATCCCCGTACTGTGGGCTCATCCCTCCCTCCCTCCAG
GGGGTGCCTACGTGGATGGTGGCATTTCAGACAACCTGCCACTCTATGAGCTTAAGAAC
ACCATCACAGTGTCCCCCTTCTCGGGCGAGAGTGACATCTGTCCGACGAGCAGCTCCACC
AACATCCACGAGTGCGGGTACCAACACCAGCATCCAGTTCAACCTGCGCAACCTCTAC
CGCTCTCCAAGGCCCTTCCC GCCGGAGCCCTGGTGTGCGAGAGATGTGAAGCAG
GGATACCGGGATGGCCTGCGCTTCTGCAGCGGAACGGCCTCCTGAACCGGCCAACCC
TTGCTGGCGTTGTC CCCC GCCCGCC CCGCCACGGCCAGAGGACAAGGACCGGAGTGAG
AGCGCCCAAGCGGAGGATTACTCGCAGCTGCCCGAGAAGATCACATCTGGAGCACCTG
CCCCCGGGCTCAATGAGGCCCTGCTGGAGGCCTGCGTGGAGCCACGGACCTGTGACC
ACCCTCTCCAACATGCTGCCTGTGCGTCTGGCCACGGCCATGATGGTGCCTACACGCTG
CCGCTGGAGAGCGCTCTGTCTTACCATTCCGCTTGTGGAGTGGCTGCCGACGTTCCC
GAGGACATCCGGTGGATGAAGGAGCAGACGGGCAGCATCTGCCAGTACCTGGTGTGCGC
GCCAAGAGGAAGTGGGACGGCACCTGCCCTCCAGGCTGCCGAGCAGGTGGAGCTGCC
CGCTCCAGTCCGCTGCCGTCCGTCCGTCCGCTGTCTGCGCCGCCCTACAGAGAGGCACTGCC
GGCTGGATGCGCAACAACCTCTCGCTGGGGACGCGCTGGCCAAGTGGGAGGAGTGCCAG
CGCCAGCTGCTGCTCGGCTCTTCTGCACCAACGTGGCCTTCCC GCCGAAGCTGTGCGC
ATGCGCGCACCCGCCACCCGGCTCCCCCCCCCGGACCCAGCATCCCCGACGACCCAG
CCGGCCGGGCTGCCCTTGTGAGCACCCCTGCTCCCGAGGCCCGGCCGTGATCGGG
GCCCTGGGGCTGTGA
    
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Clone variation with respect to NM_020376.3
793 c=>t;1442 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020376 unedited

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TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGACCTGCCCGGCC
CCCCGGCTCCAGCGAGCGAGCGGCGAGCAGGCGGCTCACAGAGGCCCTGGCCGCCACGGAA
CCCCGGGCCCCGGCGCCGCCCGCGATGTTTCCCCGCGAGAAGACGTGGAACATCTCGT
TCGCGGGCTGCGGCTTCTCGGCTCTACTACGTGCGGCTGGCCTCCTGCCTCCGCGAGC
ACGCGCCCTTCTGGTGGCCAACGCCACGCACATCTACGGCGCCTCGGCCGGGGCGCTCA
CGGCCACGGCGTGGTACCGGGGTCTGCCTGGGTGAGGCTGGTCCAAGTTTCATTGAGG
TATCTAAAGAGGCCCGGAAGCGGTTCTGGGCCCTGCACCCCTCCTTCAACCTGGTAA
AGATCATCCGAGTTTCTGCTGAAGGTCTGCCTGCTGATAGCCATGAGCATGCCAGTG
GGCGCTGGGCATCTCCCTGACCCGCGTGTGACGCGGCGAGAATGTCATTATATCCCACT
TCAACTCCAAGGACGAGCTCATCCAGGCAATGTCTGCAGCGTTTCATCCCCGTGACT
GTGGGCTCATCCCTCCCTCCCTCCAGGGGTGCGCTACGTGGATGGTGGCATTTCAGACA
ACCTGCCACTCTATGAGTTAAGAACACCATCACAGTGTCCCCCTTCTCGGGCGAGAGTG
ACATCTGTCCGCANGACAGCTCCACCAACATCCACGAGCTGCGGGTACCAACACCAGCA
TNCAGTTNAACCTGCGCAACCTCTACCGNCTNTNACGGGCTCTTNC CGCGAGCCCTGT
TGCTGCGAGAGAGTGACGAGGATACCGGATGGCTGGCTTCTGCACGNACGNCTCTGACC
CGCCACCCTTGTGGCGTGTCCCCGCCGCC
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_020376

Insert Size:	1950 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_020376.2</u> , <u>NP_065109.1</u>
RefSeq Size:	2113 bp
RefSeq ORF:	1515 bp
Locus ID:	57104
UniProt ID:	<u>Q96AD5</u>
Cytogenetics:	11p15.5
Protein Families:	Transmembrane
Gene Summary:	This gene encodes an enzyme which catalyzes the first step in the hydrolysis of triglycerides in adipose tissue. Mutations in this gene are associated with neutral lipid storage disease with myopathy. [provided by RefSeq, Jul 2010]