

Product datasheet for **SC306910**

PNPLA1 (NM_173676) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA1 (NM_173676) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPLA1
Synonyms:	ARCI10; dj50j22.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306910 representing NM_173676. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGGTGCAGATGATGAGGCAGTTTCTGTACCGGGTCTGCCCGAGGACTCCTACAAGGTCAACACGGGG
 AAGCTCCATGTGAGCCTACCCGCTTAACGGACGGGGAGAATGTGGTGGTTTCAGAGTTCACGTCCAAG
 GAGGAGCTCATTGAGGCCCTATACTGCAGCTGCTTCGTCCCGGTGTACTGTGGCCTCATCCCCCGACT
 TACCGCGGTGTGAGGTACATCGATGGGGGCTTCACGGGCATGCAGCCCTGTGCCTTCTGGACCGACGCC
 ATCACCATCTCCACCTTCAGTGGGCAGCAGGACATCTGTCCCGGGACTGCCCGGCCATCTTCCACGAC
 TTCCGCATGTTCAACTGCTCCTTCCAGTCTCCCTGGAGAACATCGCCAGGATGACCCACGCATTGTTC
 CCCCCGACCTGGTGATCCTGCACGATTACTACTACCGAGGGTACGAGGATGCAGTTTTGTACTTGAGG
 CGGCTGAATGCTGTTTATCTTAATTCTTCTCCTCCAAGAGAGTGATTTTCCCCCGGGTGGAAGTGACTGC
 CAGATAGAACTCGCCCTTGGCAATGAGTGCCCTGAACGCAGTCAACCAAGCCTTCGAGCACGGCAGGCC
 AGTCTGGAAGGAGCCACACAACCTCACAGGAGTGGGTTCCTCAAGGGGATGGAAGGGGCAGCCATGGT
 CCGCCTGTGTCCCAACCTGTGCAGACACTTGAATTCACATGCGAGTCACCTGTTTCAGCACCAGTCTCT
 CCACTTGAGCAGCCACCTGCACAGCCACTGGCCTCTTCAACTCCACTTTCTCTAAGTGGCATGCCACCT
 GTATCATTCCCAGCTGTGCACAAGCCACCCAGCTCCACACCTGGTTCATCACTGCCACCCCAACACCT
 GGACTGTCACCTCTGTACCTCAGCAGCAGGTACAACCGTCTGGATCACCAGCCAGATCCCTACACTCT
 CAGGCACCCACTTCACCCAGGCCATCCCTGGGGCCTTCAACTGTGGGGGCACCTCAAACACTGCCCGGA
 AGTTCTCTTTAGCCTTCCCTGCTCAGCCACCTGTGGAGGAACTAGGCCAAGAAGAGCCCAAGCTGTA
 GCTCTTCTGTCTCTTCAAAACCAAAAAGCGCCGTGCCTCTGGTTCATGTGAAGGAAACCGTCAGCAAG
 CCTATGTAACGGAGAGCCCTGCTGAAGACTCAAACCTGGGTGAATAAGGTCTTCAAGAAGAACAAGCAA
 AAGACAAGTGGCACCAGAAAAGGCTTCCCAAGACATTCGGGATCCAAAAACCAAGCAGCAAGTGCAG
 TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_173676
Insert Size:	1314 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_173676.2</u>
RefSeq Size:	2367 bp
RefSeq ORF:	1314 bp
Locus ID:	285848
UniProt ID:	<u>Q8N8W4</u>
Cytogenetics:	6p21.31
MW:	47.8 kDa

Gene Summary:

The protein encoded by this gene belongs to the patatin-like phospholipase (PNPLA) family, which is characterized by the presence of a highly conserved patatin domain. PNPLA family members have diverse lipolytic and acyltransferase activities, and are key elements in lipid metabolism. While other members of this family have been well characterized, the function of this gene remained an enigma. However, recent studies show that this gene is expressed in the skin epidermal keratinocytes, and has a role in glycerophospholipid metabolism in the cutaneous barrier. Consistent with these observations, mutations in this gene are associated with ichthyosis in human (autosomal recessive congenital ichthyoses, ARCI) and dog. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Transcript Variant: This variant (1) encodes the shortest isoform (1), which lacks the N-terminal catalytic patatin domain, and thought unlikely to function as a lipolytic enzyme (PMID:16799181).