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Product datasheet for SC121700

PNPLA4 (NM_004650) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNPLA4 (NM_004650) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNPLA4
Synonyms:	DXS1283E; GS2; iPLA2eta
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121700 sequence for NM_004650 edited (data generated by NextGen Sequencing)

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ATGAAGCACATCAACCTATCATTTGCAGCGTGTGGATTTCTGGGCATTTACCACTTGGGG
GCAGCATCTGCACTTTGCAGACATGGCAAAAAACTTGTGAAGGATGTCAAAGCCTTCGCT
GGGGCGTCTGCGGGATCGTTGGTTGCTTCTGTTCTGCTAACAGCACCAGAAAAAATAGAG
GAATGTAACCAATTTACCTACAAGTTTGCCGAAGAAATCAGAAGGCAGTCTTTCGGGGCA
GTAACGCCCGGTTATGACTTCATGGCCCGACTAAGAAGTGGGATGGAGTCGATTCTTCCT
CCCAGCGCTCACGAGCTGGCCCAGAACCGACTGCACGTATCCATCACCAACGCCAAAACC
AGAGAAAATCACTTAGTCTCCACTTTTTCCTCCAGGGAGGACCTCATTAAGGTCCTCCTA
GCCAGCAGTTTTGTGCCCATTTATGCAGGACTGAAGCTAGTGGAATACAAAGGGCAGAAG
TGGGTGGACGGAGGCCTCACCAACGCTCTTCCCATCCTGCCCGTCGGCCGGACAGTAACC
ATCTCCCCCTTCAGTGGACGACTGGACATCTCCCCGCAGGACAAAGGGCAGCTAGATCTG
TATGTTAATATCGCCAAGCAGGATATCATGTTGTCCCTGGCAAACCTGGTGAGACTCAAC
CAAGCCCTTTTTCCCCCAAGCAAGAGGAAAATGGAATCTTTGTATCAGTGTGGTTTTGAT
GACACTGTTAAGTTTTTACTTAAAGAAAATTGGTTTGAATAA

Clone variation with respect to NM_004650.2
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004650 unedited
TTGTAATACGACTCACTTAGGGCGGCCGCGACTTCGGCACGAGGCAGGACTTTCCTGGGC
CGGCTCGCGGAGAGCGTAGCGCGGCCTTGGTGGCGGAATGGCGTTGAGTGACGGCCCGGC
CCCGCCATCTGGTTAAAGGGACTCGTTCACACGGAAGTGTCCCGGGGCTGCATTGTGCTA
CAGCTAGAATGAAGCACATCAACCTATCATTTGCAGCGTGTGGATTTCTGGGCATTTACC
ACTTGGGGGCAGCATCTGCACTTTGCAGACATGGCAAAAAACTTGTGAAGGATGTCAAAG
CCTTCGCTGGGGCGTCTGCGGGATCGTTGGTTGCTTCTGTTCTGCTAACAGCACCAGAAA
AAATAGAGGAATGTAACCAATTTACCTACAAGTTTGCCGAAGAAATCAGAAGGCAGTCTT
TCGGGNGCAGTAACGCCCGGTTATGACTTCATGGCCCACTAAGAAGTGGGAAGGGAGTCG
ATTCTTCCTCCCAGCGCTCACGAGCTGGCCCAGAACCGACTGCACGTATCCATCACCAAC
GCCAAAACCAGAGAAAATCACTTAGTCTCCACTTTTCCTTNGGGGGGAAGACCTCATTTT
AGGTCCTCTACCCANCAAGGTTTTTGTGCCCATTNATGCANGACTGAAGCTAGTGGATAC
AAGGCCAAAGTGGGGGGGACACGGAGCCTCACCACGCTCTTCCATNCCTGCCGTCGGCCG
GACAGTACCATCTCCCCTTCAGTGGACGACTGGACATCTCCCCGCAGGACAAGGCAGCTA
ATTTNTGTATGTTATATCGCCAGCAGATATAAAGGGTTGTCCTGGCAAACCTGGTGAGAT
CAACCCAGCCTTTTTCCCCAGCAGAAGAAATGGATCTTGTTANNNNNGGGGTTTTTAAAA
CTTTGTAAAC
```

Restriction Sites: NotI-NotI

ACCN: NM_004650

Insert Size: 2500 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:
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_004650.1, NP_004641.1

RefSeq Size: 2809 bp

RefSeq ORF: 762 bp

Locus ID: 8228

UniProt ID: P41247

Cytogenetics: Xp22.31

Protein Pathways: Retinol metabolism

Gene Summary: This gene encodes a member of the patatin-like family of phospholipases. The encoded enzyme has both triacylglycerol lipase and transacylase activities and may be involved in adipocyte triglyceride homeostasis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome Y. [provided by RefSeq, Feb 2010] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.