

Product datasheet for **RC236480**

Lysophospholipase 1 (LYPLA1) (NM_001279356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lysophospholipase 1 (LYPLA1) (NM_001279356) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LYPLA1
Synonyms: APT-1; APT1; hAPT1; LPL-I; LPL1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236480 representing NM_001279356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGCGGCAATAACATGTCAACCCCGCTGCCCGCCATCGTGCCCGCCCGGAAGGCCACCGCTGCGG
 TGATTTCTGCATGGATTGGGAGATACTGGGCACGGATGGGCAGAAGCCTTTCAGGTATCAGAAGTTC
 ACATATCAAATATATCTGCCCGCATGCGCCTGTTAGGCCTGTTACATTAATATGAACGTGGCTATGCCT
 TCATGGTTTGATATTATTGGGCTTTCACAGATTACAGGAGGATGAATCTGGGATTAACAGGCAGCAG
 AAAATATAAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTTCTAACAGAATTATTTGGGAGG
 GTTTTCTCAGGGTCTATCGGTGGTCTAATAGAGATATTTCTATTCTCCAGTGCCACGGGGATTGTGAC
 CCTTTGGTTCCCTGATGTTTGGTTCTTACGGTGGAAAACTAAAAACATTGGTGAATCCAGCCAATG
 TGACCTTTAAACCTATGAAGGTATGATGCACAGTTCGTGTCAACAGGAAATGATGGATGTCAAGCAATT
 CATTGATAAACTCCTACCTCCAATTGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236480 representing NM_001279356
 Red=Cloning site Green=Tags(s)

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIIKICPHAPVRPVTLMNMVAMP
 SWFDIIGLSPDSQEDESIGKQAENIKALIDQEVKNGIPSNRIILGGFSQGPIGGANRDISILQCHGDCC
 PLVPLMFGSLTVEKLTLPANVTFKTYEGMMHSSCQEMMDVKQFIDKLLPPID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

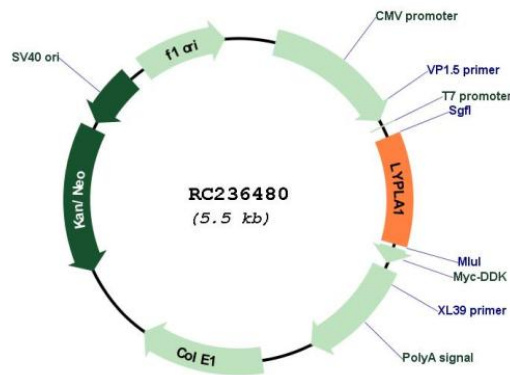


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001279356

ORF Size: 588 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_001279356.1](#), [NP_001266285.1](#)

RefSeq Size: 2494 bp

RefSeq ORF: 591 bp

Locus ID: 10434

UniProt ID: [O75608](#)

Cytogenetics: 8q11.23

Protein Pathways: Glycerophospholipid metabolism

MW: 21.6 kDa

Gene Summary: This gene encodes a member of the alpha/beta hydrolase superfamily. The encoded protein functions as a homodimer, exhibiting both depalmitoylating as well as lysophospholipase activity, and may be involved in Ras localization and signaling. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene have been defined on chromosomes 4, 6, and 7. [provided by RefSeq, Jul 2013]