

Product datasheet for **RG236333**

Lysophospholipase 1 (LYPLA1) (NM_001279359) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lysophospholipase 1 (LYPLA1) (NM_001279359) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Lysophospholipase 1
Synonyms: APT-1; APT1; hAPT1; LPL-I; LPL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236333 representing NM_001279359.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAGAAGCCTTTGCAGGCCTGTTAGGCCTGTTACATTAATATGAACGTGGCTATGCCTTCATGG
TTTGATATTATTGGGCTTTCACCAGATTCACAGGAGGATGAATCTGGGATTAACAGGCAGCAGAAAAAT
ATAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTTCTAACAGAATTATTTGGGAGGGTTT
TCTCAGGAGGAGCTTTATCTTTATACTGCCCTTACCACAGCAGAACTGGCAGGTGTCAGTCA
CTCAGTTGCTGGCTTCCACTTCGGGCTTCTTTCCACAGGGTCTATCGGTGGTCTAATAGAGATATT
TCTATTCTCCAGTGCCACGGGATTGTGACCTTTGGTCCCCTGATGTTTGGTCTCTTACGGTGGAA
AACTAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAAACCTATGAAGGTATGATGCACAGTTGC
TGCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

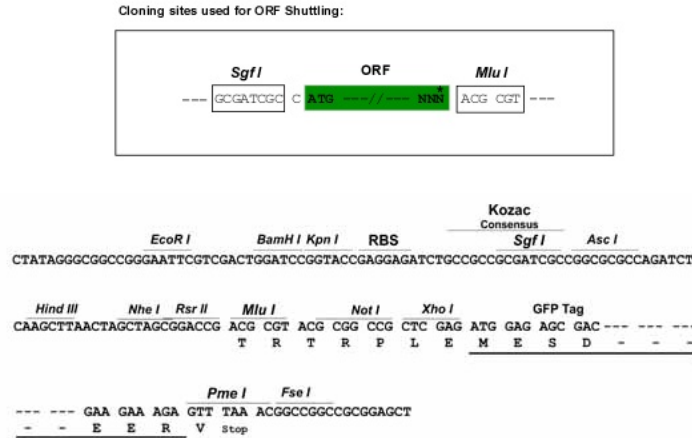
Protein Sequence: >Peptide sequence encoded by RG236333
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGRSLCRPVRPVTLMNMVAMPWFDIIGLSPDSQEDESIGKQAAENIKALIDQEVKNGIPSNRIILGGF
SQGGALSLYTALTTQQLAGVTALSCWLPLRASFPQGPIGGANRDISILQCHGDCDPLVPLMFGSLTVE
KLKTLVNPANVTFKTYEGMMHSSCQEMMDVKQFIDKLLPPID
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001279359

ORF Size: 543 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).

RefSeq: [NM_001279359.2](#)

RefSeq Size: 2556 bp

RefSeq ORF: 546 bp

Locus ID: 10434

UniProt ID: [O75608](#)

Cytogenetics: 8q11.23

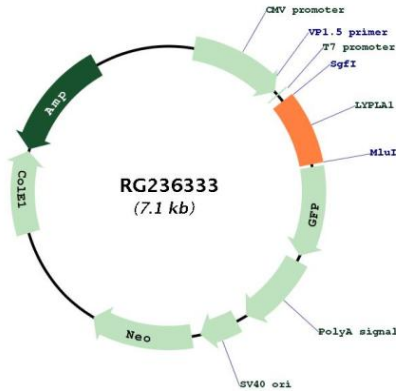
Protein Pathways: Glycerophospholipid metabolism

MW: 20.1 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]

Product images:



Circular map for RG236333