

Product datasheet for **RG236623**

Lysophospholipase 1 (LYPLA1) (NM_001279357) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lysophospholipase 1 (LYPLA1) (NM_001279357) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LYPLA1
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:	>RG236623 representing NM_001279357. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTGCGGCAATAACATGTCAACCCCGCTGCCCGCCATCGTGCCCGCCCGCCGGAAGGCCACCGCTGCG
GTGATTTTCTGCATGGATTGGGAGATACTGGGCACGGATGGGCAGAAGCCTTTGCAGGTATCAGAAGT
TCACATATCAAATATATCTGCCCGCATGCGTTTGATATTATTGGGCTTTCACCAGATTCACAGGAGGAT
GAATCTGGGATTAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATT
CCTTCTAACAGAATTATTTGGGAGGTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACC
ACACAGCAGAACTGGCAGGTGTCAGTGCAGTTCAGTTGCTGGCTTCCACTTCGGGCTTCCCTTCCACAG
GGTCTATCGGTGGTGTAAATAGAGATATTTCTATTCTCCAGTGCCACGGGGATTGTGACCTTTGGTT
CCCCTGATGTTTGGTTCTTACGGTGGAAAACTAAAAACATTGGTGAATCCAGCCAATGTGACCTTT
AAAACCTATGAAGGTATGATGCACAGTTCGTGTCAACAGGAAATGATGGATGTCAAGCAATTCATTGAT
AAACTCTACCTCCAATTGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236623
 Blue=ORF Red=Cloning site Green=Tag(s)

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIIKVICPHAFDIIIGLSPDSQED
 ESGIKQAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTTQQKLAGVTALSCWPLRASFPQ
 GPIGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQEMMDVKQFID
 KLLPPID

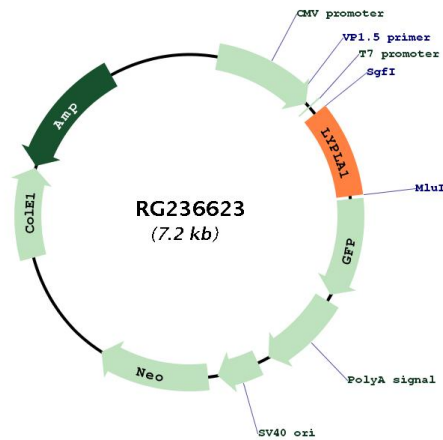
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAVTEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001279357

ORF Size:	642 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_001279357.2
RefSeq Size:	2548 bp
RefSeq ORF:	645 bp
Locus ID:	10434
UniProt ID:	O75608
Cytogenetics:	8q11.23
Protein Pathways:	Glycerophospholipid metabolism
MW:	23.3 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]