

## Product datasheet for MR202765

### Lypla1 (NM\_008866) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lypla1 (NM_008866) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lypla1
Synonyms:	APT-1; Gm39587; LPL-I; Pla1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202765 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCGGCAACAACATGTCCGCTCCGATGCCCGCGTTGTGCCGGCCGCCGGAAGGCCACCGCCGCGG  
TTATTTTCCTTCACGGATTGGGAGATACAGGGCATGGATGGGCAGAAGCCTTTCAGGTATCAAAGTCC  
CCACATCAAATACATCTGTCCACATGCCCTGTGATGCCAGTCACATTAATATGAATATGGCTATGCCT  
TCTTGGTTTGATATCGTTGGACTTTCACCAGATCCCAGGAAGATGAATCTGGAATTAACAGGCAGCAG  
AAACCGTAAAAGCCTTGATAGATCAAGAAGTGAAGAATGGCATTCTTCTAACAGGATTATTTGGGAGG  
ATTTTCTCAGGGAGGCGCCTTGTCTTTATACACTGCTCTCACCACACAGCAGAACTGGCTGGTGTCACT  
GCACTCAGTTGCTGGCTTCCACTTCGGGCTTCGTTTTACAGGGGCTGATCAACAGTGCTAATCGAGATA  
TTTCCGTTCTCCAGTGCCATGGAGATTGTGACCCTTTAGTTCCCTAATGTTGGTTCTTACTGTTGA  
AAGACTAAAAGCATTGATAAATCCAGCCAATGTAACTTCAAATCTATGAAGGCATGATGCACAGCTCA  
TGTCAGCAGGAAATGATGGATGTCAAGCACTTCATTGATAAGCTCCTACCTCAATTGAT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202765 protein sequence  
Red=Cloning site Green=Tags(s)

MCGNNMSAPMPAVVPAARKATAAVIFLHGLGDTGHGWAEAFAGIKSPHIKICYCPHAPVMPVTLNMNMAMP  
 SWFDIVGLSPDSQEDESIGIKAAETVKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTTQQLAGVT  
 ALSWLPLRASFSQGLINSANRDISVLQCHGDCDPLVPLMFGSLTVERLKALINPANVTFKIYEGMMHSS  
 CQEMMDVKHFIDKLLPPID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_008866

**ORF Size:** 693 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\\_008866.1](#), [NM\\_008866.2](#), [NP\\_032892.1](#)

**RefSeq Size:** 2447 bp

**RefSeq ORF:** 693 bp

**Locus ID:** 18777

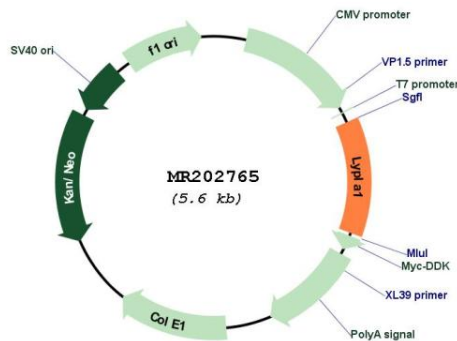
**UniProt ID:** [P97823](#)

**Cytogenetics:** 1 A1

**MW:** 24.7 kDa

**Gene Summary:** Hydrolyzes fatty acids from S-acylated cysteine residues in proteins such as trimeric G alpha proteins or HRAS. Has depalmitoylating activity toward KCNMA1. Has low lysophospholipase activity (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202765