

## Product datasheet for **SC115622**

### LYPLA2 (NM\_007260) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LYPLA2 (NM_007260) Human Untagged Clone
Tag:	Tag Free
Symbol:	LYPLA2
Synonyms:	APT-2; APT2; DJ886K2.4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115622 sequence for NM_007260 edited (data generated by NextGen Sequencing)

```
ATGTGTGGTAACACCATGTCTGTGCCCTGCTCACCGATGCTGCCACCGTGTCTGGAGCT
GAGCGGGAAACGGCCGCGTTATTTTTTACATGGACTTGGAGACACAGGGCACAGCTGG
GCTGACGCCCTCTCCACCATCCGGCTCCCTCACGTCAAGTACATCTGTCCCCATGCGCCT
AGGATCCCTGTGACCCTCAACATGAAGATGGTGTGCCCCCTCGTGGTTGACCTGATGGGG
CTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAG
GCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCTGGGAGGC
TTTTACAGGGCGGGGCCCTGTCCCTCTACACGGCCCTCACCTGCCCCACCTCTGGCT
GGCATCGTGGCGTTGAGCTGCTGGCTGCCTCTGCACGGGCCTTCCCCAGGCAGCTAAT
GGCAGTGCCAAGGACCTGGCCATACTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCC
GTACGGTTTGGGGCCCTGACGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTC
CAGTTCAAGACATACCCGGGTGCATGCACAGCTCCTGTCTCAGGAGATGGCAGCTGTG
AAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAA
```

Clone variation with respect to NM\_007260.2



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_007260 unedited  
 GGGGGTTCANATTTTNGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGCGG  
 GAGAAAGAGGAGAATCGCCCAGCGGCCTCGGAAGTCCCAGGGAGTGGAGGCCCGCCGT  
 GGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCTGCTCACCGATGCTGCC  
 ACCGTGTCTGGAGCTGAGCGGAAACGGCCGCGTTATTTTTTACATGGACTTGGAGAC  
 ACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATCCGGCTCCCTCACGTCAAGTACATC  
 TGTCCTCCATGCGCCTAGGATCCCTGTGACCCCTCAACATGAAGATGGTGATGCCCTCCTGG  
 TTTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCA  
 GCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCGA  
 ATCGTCTGGGAGGCTTTTACAGGGCGGGGCCCTGTCCCTCTACACGGCCCTCACCTGC  
 CCCCACCTCTGGCTGGCATCGTGGCGTTGAGCTGCTGGCTGCCTCTGCACCGGGCCTTC  
 CCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGGCCATACTCCAGTGCCATGGGGAGCTG  
 GACCCCATGGTGCCCGTACGTTTGGGGCCCTGACGGCTGAGAAGCTCCGGTCTGTTGTC  
 ACACCTGCCAGGGTCCAGTTCAAGACATACCCGGGTGTCATGCACAGCTCCTGTCCTCAG  
 GAGATGGCAGCTGTGAAGAAAATCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGT  
 GGCCCCAGTGCACTACCCAGCTCATGGGGGACTACAAGCAAGCGTG

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_007260 unedited  
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGGAAGCAATTTCTTT  
 AATTTTATCGGAATCCAGGACACAACAAGAAAAACACCAAAAACCATGGGAGACAGA  
 AGACGAGACAACTCTCCCCACTGCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGG  
 TGAGACAGCTGGGGGAGACCTGAACCTCAGTCCAGCCCTACAGGCTCCAGGCCTGCAGG  
 GAAGGAGGGCAACGGGGAGGCAGGGCCAGCCCCCAGTGTGGGAAACAGCTGACGGAA  
 GGCCCCCTCCCAAGGCTCCCCCTTAACCAGCACTTCCGCCCGGCCAGGCACTTCTC  
 ATTTTCCCGGGTCTCCCGGTGCCTCGGCACTCCCCCGCAATGCCACCCCTGCCCTCCT  
 CGCCCCCTCACTCCTTCTCTCTCACATTATCCCCCTCTATCTCCACTGCCTCCCC  
 CCCCAGGCTAGTGTCTTACCGCCCCCGCCCTCCTTCTCCCCGGCCGCGCTCCCCG  
 GCCCTCCCCCCCCCGGCCGTGCGTCTTACTTGCTCCCTCCCTGTTCTCCCATGTCCT  
 TCCCCCTTTCCCATCAGAGTGTGCTTTTCCCCCTCGCTCTACGTCCCCCGC  
 CGCGCCCCCTCGTTTTCCCGCGTGTCCCCCTGTCCCCCGCCCCCGGACGCGCT  
 CCGCGTGTGCGCCCCCGGTTGTCTCAGACTTCCCCCTCGGCTGTACCTGGAGTCC  
 NGCGCTTTCTGCGATCCAGCATCCACCTGTCAATTCTGCTCACCTGCCCTTTCGCT  
 CCACGCCGCCACCGCTTCTCGGCGCTTCCCCCTCCATCACACTGTTCCCGCACACTG  
 GAGCTCGGTATACTTTCCCCCGCTG

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_007260

**Insert Size:** 1660 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_007260.2](#), [NP\\_009191.1](#)

**RefSeq Size:** 1648 bp

**RefSeq ORF:** 696 bp

**Locus ID:** 11313

**UniProt ID:** [O95372](#)

**Cytogenetics:** 1p36.11

**Domains:** abhydrolase\_2

**Protein Pathways:** Glycerophospholipid metabolism

**Gene Summary:** Lysophospholipases are enzymes that act on biological membranes to regulate the multifunctional lysophospholipids. There are alternatively spliced transcript variants described for this gene but the full length nature is not known yet. [provided by RefSeq, Jul 2008]