

Product datasheet for **RG209446**

LYPLA3 (PLA2G15) (NM_012320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYPLA3 (PLA2G15) (NM_012320) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLA2G15
Synonyms:	ACS; GXVPLA2; LLPL; LPLA2; LYPLA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209446 representing NM_012320 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTCCACCTCCGCCCTACCGTGTGGGGCTGCTCCGGATGGCCTCCTGTTCTCTTGCTGCTGC
TAATGCTGCTCGCGGACCCAGCGCTCCCGCCGGACGTACCCCCAGTGGTGTGGTCCCTGGTGATTT
GGGTAACCAACTGGAAGCCAAGCTGGACAAGCCGACAGTGGTGCCTACCTCTGCTCCAAGAAGACCGAA
AGCTACTTCACAATCTGGCTGAACCTGGAAGTGTGCTGCCTGTCATCATTGACTGCTGGATTGACAATA
TCAGGCTGGTTTACAACAAAACATCCAGGGCCACCCAGTTTCTGATGGTGTGGATGTACGTGTCCTGG
CTTTGGGAAGACCTTCTCACTGGAGTTCCTGGACCCAGCAAAGCAGCGTGGGTTCTATTTCCACACC
ATGGTGGAGAGCCTTGTGGGCTGGGGCTACACACGGGGTGGAGATGTCCGAGGGGCTCCCTATGACTGGC
GCCGAGCCCCAAATGAAAACGGGCCCTACTTCTGGCCCTCCGCGAGATGATCGAGGAGATGTACCAGCT
GTATGGGGGCCCGTGGTGTGTTGCCACAGTATGGGCAACATGTACACGCTCTACTTCTGCAGCGG
CAGCCGACGGCCTGGAAGGACAAGTATATCCGGCCCTTCGTGTCCTGGTGGCCCTGGGGGGCGTGG
CCAAGACCCTGCGCGTCTGGCTTCAGGAGACAACAACCGGATCCAGTCATCGGGCCCTGAAGATCCG
GGAGCAGCAGCGGTCAGCTGTCTCCACCAGCTGGCTGTGCCCTACAACACACATGGTACCTGAGAAG
GTGTTCTGTCAGACACCCACAATCAACTACACACTGCGGGACTCCGCAAGTTCTCCAGGACATCGGCT
TTGAAGATGGCTGCTCATGCGGCAGGACACAGAAGGGCTGGTGAAGCCACGATGCCACCTGGCGTGCA
GCTGCACTGCCTCTATGTAAGTACTGGCGTCCCCACACCAGACTCCTTCTACTATGAGAGCTTCCCTGACCGT
GACCCATAAATCTGCTTTGGTGACGGCGATGGTACTGTGAACTTGAAGAGTGCCCTGCAGTGCCAGGCCCT
GGCAGAGCCGCCAGGAGCACCAAGTGTGCTGCAGGAGCTGCCAGGCAGCGAGCACATCGAGATGCTGGC
CAACGCCACCACCTGGCCTATCTGAAACGTGTGCTCCTTGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209446 representing NM_012320
 Red=Cloning site Green=Tags(s)

MGLHLRPYRVGLLPDGLLFLLLLLLMLLADPALPAGRHPVVLVPGDLGNQLEAKLDKPTVVHYLCSKTE
 SYFTIWLNLELLLPVIIDCWIDNIRLVYNKTSRATQFPDGVDRVPGFGKTFSLFLDPSKSSVGSYFHT
 MVESLVGWGYTRGEDVRGAPYDWRRAPNENGPYFLALREMIEMYQLYGGPVVLVAHSMGNMYTLVFLQR
 QPQAWKDKYIRAFVSLGAPWGGVAKTLRVLASGDNNRIPVIGPLKIREQQRSAVSTSWLLPYNNTWSPEK
 VFVQTPPTINYTLRDYRKFQDIGFEDGWLMRQDTEGLVEATMPPGVQLHCLYGTGVTPTDSFYYESFPDR
 DPKICFGDGDGTVNLKSALQCQAWQSRQEHQVLLQELPGSEHIEMLANATTLAYLKRVLG

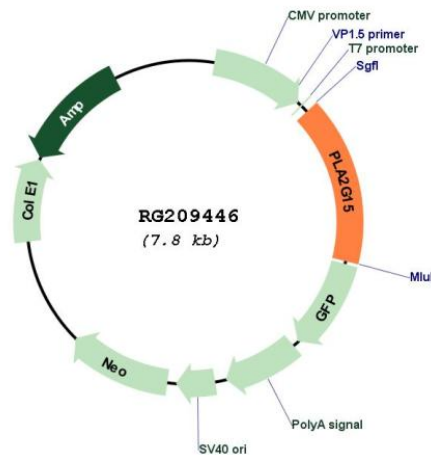
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012320

ORF Size:	1236 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:	<ol style="list-style-type: none">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_012320.4
RefSeq Size:	2764 bp
RefSeq ORF:	1239 bp
Locus ID:	23659
UniProt ID:	Q8NCC3
Cytogenetics:	16q22.1
Domains:	LACT
Protein Families:	Secreted Protein
Protein Pathways:	Glycerophospholipid metabolism, Lysosome
Gene Summary:	Lysophospholipases are enzymes that act on biological membranes to regulate the multifunctional lysophospholipids. The protein encoded by this gene hydrolyzes lysophosphatidylcholine to glycerophosphorylcholine and a free fatty acid. This enzyme is present in the plasma and thought to be associated with high-density lipoprotein. A later paper contradicts the function of this gene. It demonstrates that this gene encodes a lysosomal enzyme instead of a lysophospholipase and has both calcium-independent phospholipase A2 and transacylase activities. [provided by RefSeq, Jul 2008]