

Product datasheet for **RG200168**

Acyltransferase like 1 (LPCAT2) (NM_017839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acyltransferase like 1 (LPCAT2) (NM_017839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acyltransferase like 1
Synonyms:	AGPAT11; AYTL1; LysoPAFAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200168 representing NM_017839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCCGGTGCGCCAGGCGGCGGAAGTGGCGGCCACAGTGCCAGGTGCCGGCGTGGGAACGTGGGGC
 TGGCGCCGCCATGGTGCCTCGTCCAGGCGTCTTCTTCCGCGCGGGTCCGAACCCCTTCGTGCAGCA
 GACGCAGATCGGCTCCGCGAGGCGGGTCCAGATTGCTCTTCTGGGATTATCTTGCTTCCAATTCGTGTC
 TTATTGGTTGCGTTAATTTTATTACTTGCATGGCCATTTGCTGCAATTTCAACAGTATGCTGCTGAA
 AGCTGACCCACCAATAACTGGTTGGAGGAGGAAAATTACTCAAACAGCTTTGAAATTTCTGGTCTGTC
 TATGTTCTTTTCAATGGGATTTATAGTTGCTGTAAAAGGAAAGATTGCAAGTCTTTGGAAGCACCAGTT
 TTTGTTGCTGCCCTCATTCAACATTCTTTGATGGAATGCTGTGTTGTAGCTGGGTTACCTTCTATGG
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 GTCCCGTGTAGATCCGGATTCCCGAAAAACACAATAAATGAAATAATAAAGCGAACAACATCAGGAGGA
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 GCTGTCTTGTGCAACCCTTCCAACACAGAGGAGATCATCCAGGTGGCATTAAAGCTGTTTGACGTTGATG
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 TGTTTTCTGGTCTTTCAAGGAAATAGCCCAAGGGGACTCAATTTCTATGAGGAATTTAAAAGTTTTGCC
 TTAAGCATCCAGAATATGCTAAGATATTTACAACATACCTAGACCTCCAGACGTGCCATGTGTTTTCAT
 TACCAAAAGAAGTCCAGACAACCCCTCCACCGCCAGTAATAAAGTCAGCCCTGAAAAGCATGAAGAGAG
 TACCTCAGACAAAAAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200168 representing NM_017839
 Red=Cloning site Green=Tags(s)

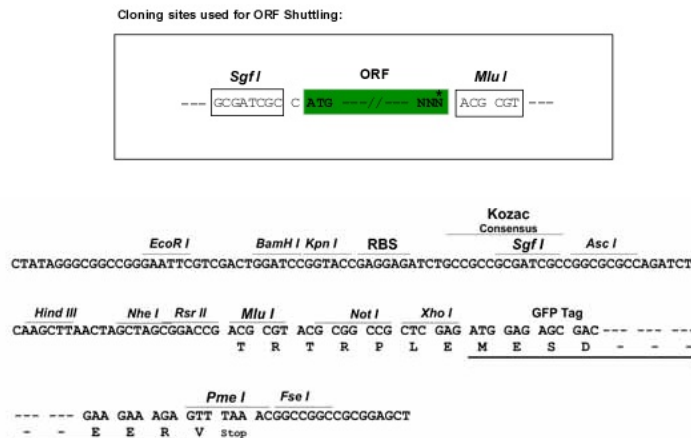
MSRCAQAAEVAATVPGAGVGNVGLRPPMVPQRQASFFPPVPNPVQQTQIGSARRVQIVLLGIILLPIRV
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 FVAAPHSTFFDGIACVVAGLPSMYSRNEAQQVPLIGRLLRAVQPVLVSRVDPDSRKNITINEIIRKRTSSG
 EWPQILVFPEGTCTNRSCLITFKPGAFIPGVVPVLLRYPNKLDVTWQGYTFIQLCMLTFCQLFTK
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 RKLKLDWDGVRKHLDEYASIASSSKGGRIIEEFAKYLKLPSVDLRLQFALFDRNHDGSDIFREYVIGL
 AVL CNPNTTEEIIQVAFKLFVDVDEGYITEEFSTILQASLGVPLDVSGLFKEIAQGDSISYEYFKSFA
 LKHPEYAKIFTTYLDLQCHVFLPKEVQTPSTASNKVSPEKHEESTSDKKDD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_017839

ORF Size: 1632 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_017839.5](#)

RefSeq Size: 1937 bp

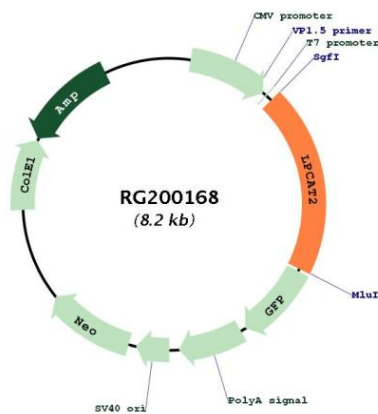
RefSeq ORF: 1635 bp

Locus ID: 54947

UniProt ID: [Q7L5N7](#)

Cytogenetics: 16q12.2
Domains: EFh, Acyltransferase
Protein Families: Transmembrane
Gene Summary: This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RG200168