

Product datasheet for **RG207302**

LPGAT1 (NM_014873) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LPGAT1
Synonyms:	FAM34A; FAM34A1; NET8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207302 representing NM_014873
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCTATAACTTTGGAAGAAGCTCCGTGGCTGGGCTGGCTCTTGGTGAAAGCACTGATGAGGTTTGCCT
TCATGGTCGTCAACAACCTGGTTGCTATTCCATCCTACATCTGCTATGTAATTATACTTCAGCCCCCTTCG
AGTGCTGGACAGTAAGCGGTTCTGGTATATCGAAGGAATCATGTATAAATGGCTTTTAGGAATGGTAGCT
TCCTGGGGATGGTATGCTGGATATACAGTGATGGAATGGGAGAAGATATTAAGCAGTTTCAAAGATG
AAGCAGTGATGTTGGTGAATCATCAGGCAACAGGAGATGTGTGCACACTGATGATGTGCCTCCAGGACAA
AGGACTGGTTGTTGCTCAGATGATGTGGTTGATGGATCATATTTTAAAGTACACAACTTTGGAATTGTT
TCTCTAGTTCATGGAGACTTCTTTAAGACAGGGAAGATCTTATCGTGACCAACAGCTGCTGCTCTCA
AGAAGCACTTAGAAAATAATTACAGGAGCAGAGATCGAAAATGGATTGTTTGTTCAGAAGGGGGCTT
CCTCAGGAAGAGGCGAGAAACAAGTCAGGCATTTGCCAAGAAAAATAACTTGCCATTTCTTACAAATGTT
ACTCTGCCAAGGTCTGGGGCAACAAAAATTATTTGAATGCACTTTGTAGCACACAGAAAAATGGAAGTC
CAGCAGGAGGAGATGCTAAGAATTAGACAGCAATCAAAAGGCCCTCCAGTGGATAATAGATACAACGAT
AGCTTATCCCAAAGCTGAACCTATAGATATTCAAACCTGGATCCTTGGATACAGGAAACCAACAGTCACA
CATGTACATTACAGGATCTTTCCAATTAAGATGTACCCTGGAGACTGATGACCTTACCACCTTGGCTCT
ATCAGCGGTTTGTGAAAAAGAAGACCTCTTATCACATTTTATGAAACAGGAGCTTTTCCACCTTCCAA
GGGCCATAAGGAAGCTGTTTCCAGGAGATGACCCTCAGCAACTTGTGGATATTTCTCATACAGTCTTTT
GCATTTTGTGAGGCTATATGTGTACAACATCATTAGTATTTTACCATTGCCTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207302 representing NM_014873
Red=Cloning site Green=Tags(s)

MAITLEEAPWLGWLLVKALMRFAMVNNLVAIPSYICYVILQPLRVLDSKRFWYIEGIMYKWLGMVA
SWGWAYGYTMWGEDIKAVSKDEAVMLVNHQATGDVCTLMMLQDKGLVVAQMMWLMDFKYTNFGIV
SLVHGDFFIQGRSYRDQQLLLKKHLENNYRSRDKWIVLFPEGGFLRKRRETSQAFAKNNLPFLTNY
TLPRSGATKIILNALVAQKNGSPAGDAKELDSKSKGLQWIIDTTIAYPKAEPIDIQTWILGYRKPTVT
HVHYRIFPIKDVPLETDDLTTWLYQRFVEKEDLLSHFYETGAFPPSKGHKEAVSREMTLSNLWIFLIQSF
AFLSGYMWYNIQYFYHCLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014873

ORF Size: 1110 bp

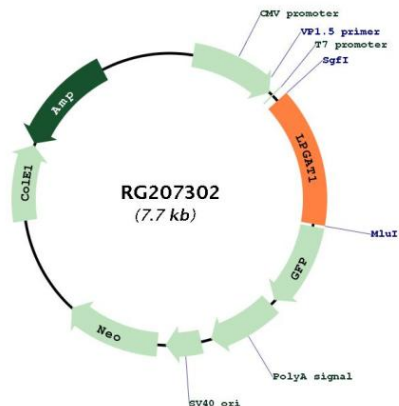
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014873.3</u>
RefSeq Size:	6253 bp
RefSeq ORF:	1113 bp
Locus ID:	9926
UniProt ID:	<u>Q92604</u>
Cytogenetics:	1q32.3
Domains:	Acyltransferase
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the lysophospholipid acyltransferase family. The encoded protein catalyzes the reacylation of lysophosphatidylglycerol to phosphatidylglycerol, a membrane phospholipid that is an important precursor for the synthesis of cardiolipin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG207302