

Product datasheet for **MG221950**

Lipa (NM_021460) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lipa (NM_021460) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lipa
Synonyms: AA960673; Lal; Lip-1; Lip1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221950 representing NM_021460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAACTCCAGGGCCTGGTGTTTCGTTTTACCATTGGGATCCTGCTTTCTCGGGTCCCCACGGAACTG
 TATCAGCTGTGGATCCTGAAGTCAACATGAATGTGACCGAGATAATCATGCGCTGGGATATCCTGGTGA
 GGAACACTCGGTCCTGACAGGAGATGGCTATATTCTGAGTATTCACCGAATCCCTCGTGGCGGAAGAAC
 CATTGGCAAAGTCCCAGACCAGTTGTGTATCTTCAGCACGGCTTGCTGGCAGATTCTAGTAAGTGGG
 TCACAAACATTGACAACAGCAGCTTGGGCTTCCCTCGGCGGATGCTGGCTTTGATGTGTGGATGGGAAA
 CAGCAGAGGAAACACCTGGTCTTTGAAGACAAGACTCTTTCAGTTTCTCAGGATGAGTTCTGGGCCTTC
 AGTTTTGATGAGATGGCAAAATATGACCTACCTGCTTCAATTAACACATTTTGAATAAACTGGCCAAG
 AACAAATCTATTATGTGGGTCAATCTCAAGGCTGCACCATAGGTTTCATAGCTTTTTACAGATGCCTGA
 GCTGGCAAAGAAGATTAAATGTTTTAGTCTTGGCTCCCGTGTGTCTCTCAATTTTGCTTCAGGCCCG
 CTACTTCAATTGGGACGCTTGCCAGACCCTCTTCAAGGACATGTTGGACAGAAGCAATTTCTCCCTC
 AGAGTGCATGCTGAAGTGGCTGAGCATTACATTTGCACCCACGTCATCATGAAGGAGCTTTGCGCAA
 CGTCTTCTCTGCTATGTGGCTTCAATGAGAAGAATTTAAATATGTCTAGAGTGGATGTGTATAACA
 CACTGCCCTGCGGAACTTCTGTGCAAAACATGTTACACTGGGGTCAAGTTTTTAAATACCGTAAGCTTC
 AAGTTTTGACTGGGGAAGCAGTGAAGAATTTTTCATTACAACCAGAGTTTTCTCCCTCGTACAA
 CATAAAAAACATGCGTCTACCCACTGCTTTGTGGAGCGGGGCGGGACTGGCTGGCAGACATCAATGAC
 ATCACTATCTTACTGACTCAAATCCCCAAGTTGGTGTATCACAAGAACATTCTGAGTGGGACCATCTGG
 ATTTTATCTGGGTTTGGATGCCCCCTGGAACCTGTATGATGAAATAATCAGTCTAATGAAGAAATACCA
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221950 representing NM_021460
 Red=Cloning site Green=Tags(s)

MQLQGLVFVFTIGILLSRVPTGTVSAVDPEVMNVTEIIMRWGYPGEEHSVLTGDGYILSIHRIPRGRKN
 HFGKGPRPVVYLQHGLLADSSNVTNIDNSSLGFLADAGFDVWGMNSRGNTWSLKHKTL SVSQDEFWAF
 SFDEMAKYDLPASINYILNKTGQEQIYYVGHSGQCTIGF IAFSQMP ELAKKIKMFLVLAPVLSLNFASGP
 LLQLGRLPDPLKDMFGQKQFLPQSAMLKWL SIHICTHVIMKELCANVFFLLCGFNEKLNMSRVDVYTT
 HCPAGTSVQNMLHWGQVFKYRKLQAFDWGSSEKNYFHYNQSFPPSYNIKNMRLPTALWSGGRDWLADIND
 ITILLTQIPKLVYHKNIPEWDHLDFIWGLDAPWKLYDEIISLMKKYQ

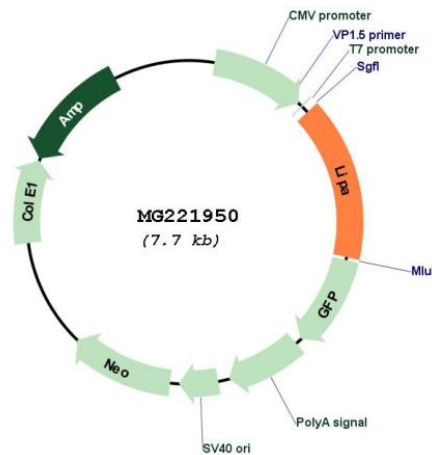
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021460

ORF Size:	1191 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_021460.2
RefSeq Size:	2991 bp
RefSeq ORF:	1194 bp
Locus ID:	16889
UniProt ID:	Q9Z0M5
Cytogenetics:	19 C1
Gene Summary:	Crucial for the intracellular hydrolysis of cholesteryl esters and triglycerides that have been internalized via receptor-mediated endocytosis of lipoprotein particles. Important in mediating the effect of LDL (low density lipoprotein) uptake on suppression of hydroxymethylglutaryl-CoA reductase and activation of endogenous cellular cholesteryl ester formation (By similarity).[UniProtKB/Swiss-Prot Function]