

Product datasheet for **MG226332**

Lpl (NM_008509) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpl (NM_008509) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lpl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226332 representing NM_008509
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAGCAAAGCCCTGCTCCTGGTGGTCTGGGAGTTGGCTCCAGAGTTTGACCGCCTTCCGAGGAG
 GGGTGGCCGACAGACGACGAGGAAGAGATTTCTCAGACATCGAAAGCAAATTTGCCCTAAGGACCCCTGA
 AGACACAGCTGAGGACACTTGTCACTCTCATTCTGGATTAGCAGACTCTGTGTCTAACTGCCACTTCAAC
 CACAGCAGCAAGACCTTCGTGGTGTATCCATGGATGGACGGTAACGGGAATGTATGAGAGTTGGTGCCCA
 AACTTGTGGCCGCCCTGTACAAGAGAGAACCTGACTCCAATGTCATTGTAGTAGACTGGTTGTATCGGGC
 CCAGCAACATTATCCAGTGTGAGCTGGCTACACCAAGCTGGTGGGAAATGATGTGGCCAGATTATCAAC
 TGGATGGAGGAGGAGTTAACTACCCCTAGACAACGTCACCTCTTAGGGTACAGCCTTGAGGCCATG
 CTGCTGGCGTAGCAGGAAGTCTGACCAATAAGAAGGTCAATAGAATTACTGGTTTGGATCCAGCTGGGCC
 TAACTTTGAGTATGCAGAAGCCCCAGTCGCCTTTCTCCTGATGACGCTGATTTTGTAGATGTCTTACAC
 ACATTTACCAGGGGGTCACTGGTCAAGTATTGGGATCCAGAAACCAGTGGGGCATGTTGACATTTATC
 CCAATGGAGGCACTTTCCAGCCAGGATGCAACATTGGAGAAGCCATCCGTGTGATTGCAGAGAGAGGACT
 CGGAGACGTGGACCAGCTGGTGAAGTGCTCGCATGAGCGCTCCATTATCTCTTCACTGACTCCCTGCTG
 AATGAAGAAAACCCAGCAAAGCATACAGGTGCAACTCCAAGGAAGCCTTTGAGAAAGGGCTCTGCCTGA
 GTTGTAGAAAAGATCGCTGTAACAATCTGGGCTATGAGATCAACAAGGTGAGCCAAAGAGAAGCAGCAA
 GATGTACTGAAGACTCGCTCTCAGATGCCCTACAAGTGTCCATTACCAAGTCAAGATTCACTTTTCT
 GGGACTGAGAATGGCAAGCAACACAACCCAGGCCTTCGAAATTTCTCTGTACGGCACAGTGGCCGAGAGCG
 AGAACATTCCTTCACCCTGCCGAGGTTTCCACAAATAAAACCTACTCCTTCTTGATTTACACGGAGGT
 GGACATCGGAGAAGTCTCATGATGAAGCTTAAGTGGATGAGCGACTCCTACTTCAGCTGGCCCGACTGG
 TGGAGCAGCCCCAGCTTCGTATCGAGAGGATCCGAGTGAAGCCGGAGAGACTCAGAAAAGGTATCT
 TCTGTGCTAGGGAGAAAGTTTCTCATCTGCAGAAGGGAAAGGACTCAGCAGTGTGTGAAATGCCATGA
 CAAGTCTCTGAAGAAGTCTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226332 representing NM_008509
 Red=Cloning site Green=Tags(s)

MESKALLLVVLGVWLQSLTAFRGGVAAADAGRDFSDIESKFALRTPEDTAEDTCHLIPGLADSVSNCHF
 HSSKTFVVIHWVTGMYESWVPLVAALYKREPDSNVI VVDWL YRAQQHYPVSAGYTKLVGNDVARFIN
 WMEEEFNYPLDNVHLLGYSLGAHAAGVAGSLTNKKVNRITGLDPAGPNFEYAEAPSRLSPDDADFVDVLH
 TFRGSPGRSIGIQKPVGHVDIYPNGGTFQPGCNIGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLL
 NEENPSKAYRCNSKEAFEKGLCLSCRKNRCNNLGYEINKVRAKRSKMYLKTRSQMPYKVFHYQVKIHFS
 GTENKQHNQAFEISLYGTVAESENIPFTLPEVSTNKTYSFLLIYTEVDIGELLMMLKLMMSDSYFSPDW
 WSSPSFVIERIRVKAGETQKKVIFCAREKVSHLQKGDASAVFVKCHDKSLKKS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_008509.2, NP_032535.2</p>
RefSeq Size:	<p>4049 bp</p>
RefSeq ORF:	<p>1425 bp</p>
Locus ID:	<p>16956</p>
UniProt ID:	<p>P11152</p>
Cytogenetics:	<p>8 33.88 cM</p>
Gene Summary:	<p>Key enzyme in triglyceride metabolism. Catalyzes the hydrolysis of triglycerides from circulating chylomicrons and very low density lipoproteins (VLDL), and thereby plays an important role in lipid clearance from the blood stream, lipid utilization and storage (PubMed:8675619). Mediates margination of triglyceride-rich lipoprotein particles in capillaries (PubMed:24726386). Recruited to its site of action on vascular endothelium by binding to GPIHBP1 and cell surface heparan sulfate proteoglycans (PubMed:20620994, PubMed:24726386, PubMed:27811232).[UniProtKB/Swiss-Prot Function]</p>