

## Product datasheet for **MC216467**

### **Lpl (NM\_008509) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lpl (NM_008509) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lpl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216467 representing NM\_008509  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGCAAAGCCCTGCTCCTGGTGGTCTGGGAGTTGGCTCCAGAGTTTGACCGCCTTCCGAGGAG  
 GGGTGGCCGCAGCAGACGCGGGAAGAGATTTCTCAGACATCGAAAGCAAATTTGCCCTAAGGACCCCTGA  
 AGACACAGCTGAGGACACTTGTCACTCTCATTCTGGATTAGCAGACTCTGTGTCTAACTGCCACTTCAAC  
 CACAGCAGCAAGACCTTCGTGGTGATCCATGGATGGACGGTAACGGGAATGTATGAGAGTTGGTGCCCA  
 AACTTGTGGCCGCCCTGTACAAGAGAGAACCTGACTCCAATGTCATTGTAGTAGACTGGTTGTATCGGGC  
 CCAGCAACATTATCCAGTGTGAGCTGGCTACACCAAGCTGGTGGGAAATGATGTGGCCAGATTATCAAC  
 TGGATGGAGGAGGAGTTAACTACCCCTAGACAACGTCCACCTTAGGGTACAGCCTTGAGGCCATG  
 CTGCTGGCGTAGCAGGAAGTCTGACCAATAAGAAGGTCAATAGAATTACTGGTTTGGATCCAGCTGGCC  
 TAACTTTGAGTATGCAGAAGCCCCAGTCGCCTTCTCCTGATGACGCTGATTTTGTAGATGTCTTACAC  
 ACATTTACCAGGGGGTCACTGGTCAAGTATTGGAATCCAGAAACCAGTAGGGCATGTTGACATTTATC  
 CCAATGGAGGCACTTCCAGCCAGGATGCAACATTGGAGAAGCCATCCGTGTGATTGCAGAGAGAGGACT  
 CGGAGACGTGGACCAGCTGGTGAAGTGCTCGCACGAGCGCTCCATTATCTCTTCACTGACTCCCTGCTG  
 AATGAAGAAAACCCAGCAAGGCATACAGGTGCAACTCCAAGGAAGCCTTTGAGAAAGGGCTCTGCCTGA  
 GTTGTAGAAAATCGCTGTAACAATCTGGGCTATGAGATCAACAAGGTGAGGCAAGAGAAGCAGCAA  
 GATGTACCTGAAGACTCGCTCTCAGATGCCCTACAAGTGTCCATTACCAAGTCAAGATTCACTTTTCT  
 GGGACTGAGGATGGCAAGCAACACAACCCAGGCCTTCGAGATTTCTGTACGGCACAGTGGCCGAGAGCG  
 AGAACATTCCTTACCCTGCCGAGGTTCCACAAATAAAACCTACTCCTTCTTGATTTACACGGAGGT  
 GGACATCGGAGAAGTCTCATGATGAAGCTTAAAGTGGATAAGCGACTCCTACTTCAGCTGGCCTGACTGG  
 TGGAGCAGCCCCAGTTCGTATCGAGAGGATCCGAGTGAAGCCGGAGAGACTCAGAAAAGGTATCT  
 TCTGTGCTAGGGAGAAAGTTTCTCATCTGCAGAAGGAAAGGACTCAGCAGTGTGTGAAATGCCATGA  
 CAAGTCTCTGAAGAAGTCTGGCTGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_008509  
**Insert Size:** 1425 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008509.2</a></u> , <u><a href="#">NP_032535.2</a></u>
<b>RefSeq Size:</b>	4049 bp
<b>RefSeq ORF:</b>	1425 bp
<b>Locus ID:</b>	16956
<b>UniProt ID:</b>	<u><a href="#">P11152</a></u>
<b>Cytogenetics:</b>	8 33.88 cM
<b>Gene Summary:</b>	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]