

## Product datasheet for MC201471

### Lcat (NM\_008490) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lcat (NM\_008490) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lcat  
**Synonyms:** AI046659; D8Wsu61e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC028861 sequence for NM\_008490  
GGCTGTGATGGGGCTGCCTGGCTCCCCATGGCAGCGGGTGTCTGTTGCTGTTGGGGCTACTGCTCCCTCCT  
GCCACCCCTTCTGGCTCCTCAATGTGCTCTTCCCCCGCACACCACGCCAAGGCTGAAGTCAAGTAAACCAGA  
ACACACGGCCTGTCATCCTCGTGGCTGGCTGCTTGGGGAATCGGCTAGAAGCCAAGCTGGATAAAACAGA  
TGTGGTGAAGTGGATGTGCTACCGTAAGACAGAGGACTTCTTACCATCTGGCTGGATTTCAACTTGTTT  
CTCCCCCTCGGGGTGGACTGCTGGATTGATAATACCAGGATTGTCTACAACCACAGCTCTGGGCGGTGT  
CCAATGCCCTGGTGTCCAGATCCGTGTCCCTGGCTTTGGCAAGACCGAATCTGTTGAGTACGTGGATGA  
CAACAAGTAGCAGGCTACCTGCACACACTGGTGCAGAATCTGGTTAACAACGGATATGTGCGGGATGAG  
ACAGTGCGGGCCACCCATGACTGGCGTCTGGCACCCACCAGCAGGATGAATACTACAAGAAGCTGG  
CTGGCCTGGTAGAGGAGATGTATGCCGTTATGGGAAGCCTGTCTTCTCATTGGGCATAGCCTTGCTG  
TCTGCATGTGCTCCACTTCTTACTGCGGCAGCCTCAGTCTGGAAGGACCACTTCAATGATGGTTTTATC  
TCTCTCGGGCTCCGTGGGGTGGTTCCATCAAGGCCATGCGGATCCTGGCCTCAGGTGACAACAGGGCA  
TCCCCATCCTGTCCAACATAAAGCTGAAAGAGGAGCAGCGCATAACCACGACTTCCCCCTGGATGTCCC  
AGCCCCCTCACGTGTGGCCTGAAGACCATGTGTTCAATTTCCACACCAAACCTTCAACTACACCGTCCAAGAC  
TTTGAGCGTTTTTTCACAGATCTGCATTTTGAAGAAGGCTGGCACATGTTTCTTCACTCGTGACCTAC  
TGGAGCGCCTCCCCGCACCTGGTGTAGAAGTATATTGTCTCTACGGTGTGGGCAGACCCACACCCACAC  
CTACATCTATGACCACAACCTCCCCTACAAAGACCCCGTGGCTGCACTCTATGAAGATGGGGACGACACC  
GTAGCCACCCGCAGCACTGAGCTCTGTGGCCAGTGGCAGGGCCGCAAGTGCAGCCCGTACATTTGCTGC  
CCATGAACGAGACAGATCACCTCAACATGGTCTTACGCAATAAGACACTGGAGCATATCAATGCCATCCT  
ACTGGGTGCCTACCGCACTCCTAAGTCGCCAGCTGCCAGCCCAAGTCCCCACCCCTGAATAAAGACCT  
AGCTGTTATAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_008490  
**Insert Size:** 1317 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">BC028861</a> , <a href="#">AAH28861</a>
<b>RefSeq Size:</b>	1354 bp
<b>RefSeq ORF:</b>	1317 bp
<b>Locus ID:</b>	16816
<b>UniProt ID:</b>	<a href="#">P16301</a>
<b>Cytogenetics:</b>	8 53.06 cM
<b>Gene Summary:</b>	Central enzyme in the extracellular metabolism of plasma lipoproteins. Synthesized mainly in the liver and secreted into plasma where it converts cholesterol and phosphatidylcholines (lecithins) to cholesteryl esters and lysophosphatidylcholines on the surface of high and low density lipoproteins (HDLs and LDLs) (PubMed:19065001). The cholesterol ester is then transported back to the liver. Also produced in the brain by primary astrocytes, and esterifies free cholesterol on nascent APOE-containing lipoproteins secreted from glia and influences cerebral spinal fluid (CSF) APOE- and APOA1 levels (PubMed:19065001). Together with APOE and the cholesterol transporter ABCA1, plays a key role in the maturation of glial-derived, nascent lipoproteins (PubMed:19065001). Required for remodeling high-density lipoprotein particles into their spherical forms (PubMed:19065001). Has a preference for plasma 16:0-18:2 or 18:O-18:2 phosphatidylcholines (PubMed:8820107).[UniProtKB/Swiss-Prot Function]