

## Product datasheet for **SC122805**

### LAT (NM\_014387) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LAT (NM\_014387) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** LAT  
**Synonyms:** IMD52; LAT1; pp36  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014387 edited  
GGGCCTCCCTGCTCGCTGCTCCCGGGTCTGGATATGGAGGCCACGGCTGCCAGCTGG  
CAGGTGGCTGTCCCGTCTTGGGGGGGCCAGCAGACCCTTGGGGCTAGGGGTGCAGCC  
AGCCTGCTCCGAGCTCCCTGCAGATGGAGGAGGCCATCCTGGTCCCTGCGTGTGGGG  
CTCCTGCTGCTGCCATCCTGGCCATGTTGATGGCACTGTGTGTCACTGCCACAGACTG  
CCAGGCTCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAGGGGCATCCAGTTCAA  
CGGCCTCACACGGTTGCCCTGGCCACCTGCCTACCCACCTGTCACCTCCTACCCACCC  
CTGAGCCAGCCAGACCTGCTCCCATCCCAAGATCCCGCAGCCCTTGGGGGCTCCAC  
CGGACGCCATCTCCCGCGGGATTCTGATGGTGCCAACAGTGTGGCGAGCTACGAGAAC  
GAGGAACCAGCCTGTGAGGATGCGGATGAGGATGAGGACGACTATACAACCCAGGCTAC  
CTGGTGGTGCTTCTGACAGCACCCCGGCCACTAGCACTGCTGCCCATCAGCTCCTGCA  
CTCAGCACCCCTGGCATCCGAGACAGTGCCTTCTCCATGGAGTCCATTGATGATTACGTG  
AACGTTCCGGAGAGCGGGGAGAGCGCAGAAGCGTCTCTGGATGGCAGCCGGGAGTATGTG  
AATGTGTCCCAGGAACGCATCCTGGAGCGGCTAAGACTGAGCCTGCCGCCCTGAGTTCC  
CAGGAGGCAGAGGAAGTGGAGGAAGAGGGGGCTCCAGATTACGAGAATCTGCAGGAGCTG  
AACTGAGGGCCTGTGGAGCCGAGTCTGTCTGGAACAGGCTTGCCTGGGACGGCTGAG  
CTGGGCAGCTGGAAGTGGCTCTGGGGTCTCACATGGCGTCTGCCCTTGCTCCAGCCTG  
ACAACAGCCTGAGAAATCCCCCGTAACCTATTATCACTTTGGGGTTCGGCCTGTGTCCC  
CGGAACGCTCTGCACCTTCTGACGCAGCCTGAGAATGACCTGCCCTGGCCCCAGCCCTAC  
TCTGTGTAATAGAATAAAGGCCTGCGTGTGTCTGTGTTGAGCGTGCCTGTGTGTGCT  
GTGTGCGAGTCTGAGTCAGAGATTTGGAGATGTCTGTGTGTTTGTGTGTATCTGTGGG  
TCTCCATCCTCCATGGGGGCTCAGCCAGGTGCTGTGACACCCCCCTTCTGAATGAAGCCT  
TCTGACCTGGGCTGGCACTGCTGGGGGTGAGGACACATTGCCCATGAGACAGTCCCAGA  
ACACGGCAGCTGCTGGCTGTGACAATGGTTTACCATCCTTAGACCAAGGGATGGGACCT  
GATGACCTGGGAGGACTCTTAGTTCTTACCTTTTGTGGTTCTCAATAAAACAGAACTT  
AAAAAATTAATAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_014387 unedited NNCCCTACGGATTTGTACACCACTCACTATAGGCGGCCGCAATTCGCACGAGGGGCT CCCTGCTCGCTGCCTCCCCGGTCTGGATATGGAGGCCACGGCTGCCATCTGGCATGTG GCTGTCCCCGCTTGGGGGGGGCCAGCAGACCCTTGGGGCCTAGGGGTGCAGCCAGCCTG CTCCGAGCTCCCCTGCAGATGGAGGAGGCCATCCTGGTCCCCTGCGTGTGGGGCTCCTG CTGCTGCCCATCCTGGCCATGTTGATGGCACTGTGTGTGCACTGCCACAGACTGCCAGGC TCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAGGGGCATCCAGTTCAAACGGCCT CACACGGTTGCCCTGGCCACCTGCCTACCCACCTGTACCTCCTACCCACCCCTGAGC CAGCCAGACCTGCTCCCATCCCAAGATCCCCGAGCCCTTGGGGGCTCCCACCGGACG CCATCTTCCCGCGGGATTCTGATGGTGCCAACAGTGTGGCGAGCTACGAGAACGAGGAA CCATCCTGTGAGGATGCGGATGATGATGACGACTATCACAACCCAGGCTACCTGGTG GTGCTTCTGACAGACCCCGGCCACTAGCACTGCTGCCCATCAGCTCCTGCACTCAGC ACCCCTGGCATCCGAGACAGTGCCTTCTCCATGGAGTCCATTGATGATTACGTGAACGTT CCCGATAGCCGGAGAGCCATAACCGTTTCTGGATGGCATCCGGGAATTTGGGAATGTG TCCCAAGAACTGCATTCTGGACCGCTAATACTGAACCTGCCGCCCTGATTTCCAGGA GGCAAAAGAATTGGGAGGATAAGGGGCTCCAAATTACCAGTAATCTGCAGC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014387
<b>Insert Size:</b>	1472 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<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="#">NM_014387.3</a> , <a href="#">NP_055202.1</a>
<b>RefSeq Size:</b>	1767 bp
<b>RefSeq ORF:</b>	789 bp

<b>Locus ID:</b>	27040
<b>UniProt ID:</b>	<a href="#">O43561</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the T-cell antigen receptor (TCR) signal transduction pathway. This transmembrane protein localizes to lipid rafts and acts as a docking site for SH2 domain-containing proteins. Upon phosphorylation, this protein recruits multiple adaptor proteins and downstream signaling molecules into multimolecular signaling complexes located near the site of TCR engagement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence and contains an internal in-frame segment compared to variant 4. The resulting isoform (a) is shorter at the N-terminus and contains an internal segment compared to isoform d.</p>