

## Product datasheet for RC212487

### LAT (NM\_001014989) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LAT (NM\_001014989) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** LAT  
**Synonyms:** IMD52; LAT1; pp36  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC212487 representing NM\_001014989  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCACGGCTGCCAGCTGGCAGGTGGCTGTCCCGTCTTGGGGGGGCCAGCAGACCCCTGGGGC  
CTAGGGGTGCAGCCAGCCTGCTCCGAGCTCCCCTGCAGATGGAGGAGGCCATCCTGGTCCCCTGCGTGCT  
GGGGCTCCTGCTGCTGCCATCCTGGCCATGTTGATGGCACTGTGTGCACTGCCACAGACTGCCAGGC  
TCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAGGGGCATCCAGTTCAAACGGCCTCACACGGTTG  
CCCCCTGGCCACCTGCCTACCCACTGTCACTCCTACCCACCCCTGAGCCAGCCAGACCTGCTCCCCAT  
CCCAAGATCCCCGAGCCCTTGGGGGCTCCACCGGACGCCATCTCCCGCGGGATTCTGATGGTGCC  
AACAGTGTGGCGAGCTACGAGAACGAGGAACCAGCCTGTGAGGATGCGGATGAGGATGAGGACGACTATC  
ACAACCCAGGCTACCTGGTGGTCTTCCCTGACAGCACCCCGGCCACTAGCACTGCTGCCCATCAGCTCC  
TGCACTCAGCACCCCTGGCATCCGAGACAGTGCCTTCTCCATGGAGTCCATTGATGATTACGTGAACGTT  
CCGGAGAGCGGGAGAGCGAGAAGCGTCTCTGGATGGCAGCCGGGAGTATGTGAATGTGTCCAGGAAC  
TGCATCCTGGAGCGGCTAAGACTGAGCCTGCCGCCCTGAGTTCAGGAGGCAGAGGAAGTGGAGGAAGA  
GGGGCTCCAGATTACGAGAATCTGCAGGAGCTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Reconstitution Method:**

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\\_001014989.2](#)

**RefSeq Size:** 1472 bp

**RefSeq ORF:** 810 bp

**Locus ID:** 27040

**UniProt ID:** [O43561](#)

**Cytogenetics:** 16p11.2

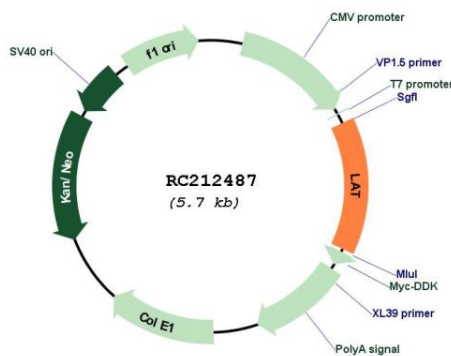
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

**MW:** 28.6 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RC212487