

Product datasheet for RC212439

LAT (NM_014387) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: LAT (NM_014387) 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: >RC212439 representing NM_014387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGGCCATCCTGGTCCCCTGCGTGCTGGGGCTCCTGCTGCTGCCATCCTGGCCATGTTGATGG
 CACTGTGTGTGCACTGCCACAGACTGCCAGGCTCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAG
 GGGCATCCAGTTCAAACGGCCTCACACGGTTGCCCCCTGGCCACCTGCCTACCCACCTGTCACCTCCTAC
 CCACCCCTGAGCCAGCCAGACCTGCTCCCATCCCAAGATCCCCGAGCCCTTGGGGGCTCCCACCGGA
 CGCCATCTTCCCGCGGGATTCTGATGGTGCCAACAGTGTGGCGAGCTACGAGAACGAGGGTGCGTCTGG
 GATCCGAGGTGCCAGGCTGGGTGGGGAGTCTGGGGTCCGTCTGGACTAGGCTGACCCCTGTGTGTTA
 CCCCCAGAACCAGCCTGTGAGGATGCGGATGAGGATGAGGACGACTATCAACAACCAGGCTACCTGGTGG
 TGCTTCTGACAGCACCCCGCCACTAGCACTGCTGCCCATCAGCTCCTGCACTCAGCACCCCTGGCAT
 CCGAGACAGTGCCTTCTCCATGGAGTCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGGAGAGCGCA
 GAAGCGTCTCTGGATGGCAGCCGGGAGTATGTGAATGTGTCCAGGAAGTGCATCCTGGAGCGGCTAAGA
 CTGAGCCTGCCCCCTGAGTCCAGGAGGCAGAGGAAGTGGAGGAAGAGGGGCTCCAGATTACGAGAA
 TCTGCAGGAGCTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212439 representing NM_014387
Red=Cloning site Green=Tags(s)

MEEAILVPCVLGLLLLPILAMLALCVHCHRLPGSYDSTSSDSL YPRGIQFKRPHTVAPWPPAYPPVTSY
 PPLSQPDLLPIPRSPQPLGGSHRTPSSRRSDGANSVASYENEGASGIRGAQAGWGVWGPSWTRLTPVSL
 PPEPACEDADEDEDDYHNPGYL VVLPDSTPATSTAAPSAPALSTPGIRDSAFSMESIDDYVNVPEGESA
 EASLDGSREYVNVSQLHPGAAKTEPAALSSQEAEVEEEEGAPDYENLQELN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_014387

ORF Size: 786 bp

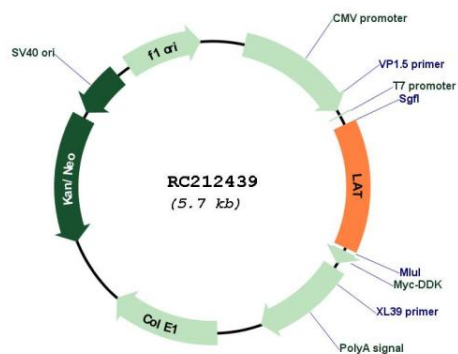
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	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).
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:	<u>NM_014387.4</u>
RefSeq Size:	1767 bp
RefSeq ORF:	789 bp
Locus ID:	27040
UniProt ID:	<u>O43561</u>
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:	27.9 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 RC212439