

Product datasheet for RG204180

LAT (NM_001014987) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: LAT (NM_001014987) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: LAT

Synonyms: IMD52; LAT1; pp36

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG204180 representing NM_001014987
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGGAGGCCATCCTGGTCCCCTGCTGCTGCTGCTGCTGCTGCTGCCCATCCTGGCCATGTTGATGG
CACTGTGTGTGCACTGCCACAGACTGCCAGGCTCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAG
GGGCATCCAGTTCAAACGGCCTCACACGGTTGCCCCCTGGCCACCTGCCTACCCACCTGTCACCTCCTAC
CCACCCCTGAGCCAGCCAGACCTGCTCCCCATCCCAAGATCCCCGCAGCCCCTTGGGGGCTCCCACCGGA
CGCCATCTTCCCGGCGGGATTCTGATGGTGCCAACAGTGTGGCGAGCTACGAGAACGAGGAACCAGCCTG
TGAGGATGCGGATGAGGATGAGGACGACTATCACAACCCAGGCTACCTGGTGGTGCTTCCTGACAGCACC
CCGGCCACTAGCACTGCTGCCCCATCAGCTCCTGCACTCAGCACCCCTGGCATCCGAGAACGAGTCCTTCT
CCATGGAGTCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGGAGAGCGCAGAAGCGTCTCTGGATGG
CAGCCGGGAGTATGTGAATGTGCCCAGGAACTGCATCCTGGAGCGGCTAAGACTGAGCCTGCCCCCTG
AGTTCCCAGGAGGCAGAGGAAGTGGAGGAAGAGGGGGGCTCCAGAATCTGCAGGAGCTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204180 representing NM_001014987

Red=Cloning site Green=Tags(s)

MEEAILVPCVLGLLLLPILAMLMALCVHCHRLPGSYDSTSSDSLYPRGIQFKRPHTVAPWPPAYPPVTSY PPLSQPDLLPIPRSPQPLGGSHRTPSSRRDSDGANSVASYENEEPACEDADEDEDDYHNPGYLVVLPDST PATSTAAPSAPALSTPGIRDSAFSMESIDDYVNVPESGESAEASLDGSREYVNVSQELHPGAAKTEPAAL SSQEAEEVEEEGAPDYENLQELN

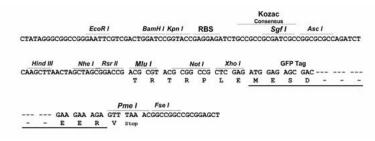
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_001014987

ORF Size: 699 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 customercom 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.

ORIGENE

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: 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 001014987.2

RefSeq Size: 1680 bp RefSeq ORF: 702 bp 27040 Locus ID: **UniProt ID:** O43561 Cytogenetics: 16p11.2

Protein Families: Druggable Genome, Transmembrane

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

mediated cytotoxicity, T cell receptor signaling pathway

The protein encoded by this gene is phosphorylated by ZAP-70/Syk protein tyrosine kinases **Gene Summary:**

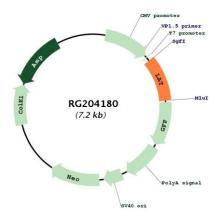
> following activation of the T-cell antigen receptor (TCR) signal transduction pathway. This transmembrane protein localizes to lipid rafts and acts as a docking site for SH2 domaincontaining proteins. Upon phosphorylation, this protein recruits multiple adaptor proteins and downstream signaling molecules 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 RG204180