

Product datasheet for RG217908

LAT (NM 001014988) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: LAT (NM_001014988) 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 >RG217908 representing NM_001014988
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGGAGGAGGCCATCCTGGTCCCCTGCTGCTGCTGCTGCTGCTGCTGCCCATCCTGGCCATGTTGATGG
CACTGTGTGTGCACTGCCACAGACTGCCAGGCTCCTACGACAGCACATCCTCAGATAGTTTGTATCCAAG
GGGCATCCAGTTCAAACGGCCTCACACGGTTGCCCCCTGGCCACCTGCCTACCCACCTGTCACCTCCTAC
CCACCCCTGAGCCAGCCAGACCTGCTCCCCATCCCCATCCCGCAGCCCCTTGGGGGCTCCCACCGGACGC
CATCTTCCCGGCGGGATTCTGATGGTGCCAACAGTGTGGCGAGCTACCAGAAACGAGGAACCAGCCTGTGA
GGATGCGGATGAGGATGAGGACGACTATCACAACCCAGGCTACCTGGTGGTGCTTCCTGACAGCACCCCG
GCCACTAGCACTGCTGCCCCATCAGCTCCTGCACTCAGCACCCCTGGCATCCGAGACAGTGCCTTCTCCA
TGGAGTCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGGAGAGCGCAGAAGCGTCTCTGGATGGCAG
CCGGGAGTATGTGAATGTGTCCCAGGAACTGCATCCTGGAGCGGCTAAGACTGAGCCTGCCCCCCTGAGT
TCCCAGGAGGCAGAGGAAGTGGAGGAAGAGGGGGCTCCAGATTACGAGAATCTGCAGGAGCTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217908 representing NM_001014988

Red=Cloning site Green=Tags(s)

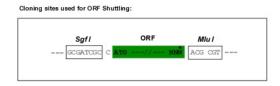
MEEAILVPCVLGLLLLPILAMLMALCVHCHRLPGSYDSTSSDSLYPRGIQFKRPHTVAPWPPAYPPVTSY PPLSQPDLLPIPSPQPLGGSHRTPSSRRDSDGANSVASYENEEPACEDADEDEDDYHNPGYLVVLPDSTP ATSTAAPSAPALSTPGIRDSAFSMESIDDYVNVPESGESAEASLDGSREYVNVSQELHPGAAKTEPAALS SQEAEEVEEEGAPDYENLQELN

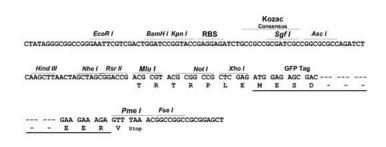
TRTRPLE - GFP Tag - V

Restriction Sites:

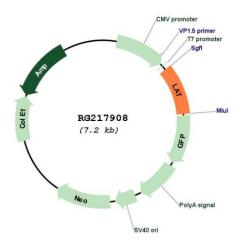
Sgfl-Mlul

Cloning Scheme:





Plasmid Map:



ACCN: NM_001014988

ORF Size: 696 bp

LAT (NM_001014988) Human Tagged ORF Clone - RG217908

OTI Disclaimer: 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: 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 001014988.2

 RefSeq Size:
 1677 bp

 RefSeq ORF:
 699 bp

 Locus ID:
 27040

 UniProt ID:
 043561

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

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]