

Product datasheet for **MC200797**

Lat (NM_010689) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lat (NM_010689) Mouse Untagged Clone
Tag: Tag Free
Symbol: Lat
Synonyms: p36-38; pp36
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC013337 sequence for NM_010689
 CCACGCGTCCGCGACGCGTGGCGGGGATCGTGCAGCTGGTAGCTGGGGCACGGGCCCCAGCTCTGGCT
 CTGGGGCGAGCACCTTTCCAGAGCCAACACTGCTCTCAACTCAGTCCAGCAAGAGAGGGGAGCCATCCAG
 CCCGAAAGGATACGGCTGCCTACTGCCGGCGGATCCCAGGCTGGAGCCCGCTTGGTCCCATACCCTG
 CTGCCACTCTGTCTCGAGGGGCTGCAGTGCAGCAGGGCCTGTGGCAGGTGCTCTGCAGATGGAAGCAGAC
 GCCTTGAGCCCGTGGGCTGGCCTCCTGCTGCTGCCCTTCTTGGTCACGCTCCTGGCTGCCCTGTGCG
 TGCGCTGCCGTGAGTTGCCAGTCTCCTATGACAGCACTCCACAGAGAGTTGTACCCAAGAAGCATCCT
 CATCAAGCCACCTCAAATAACCGTCCCCGAACACCTGCTGTTTCTACCCTCTAGTCACTTCTTCCCA
 CCCCTGAGGCAGCCAGACCTGCTCCCCATCCCAGATCCCACAGCCCCTTGGGGTTCCCATCGGATGC
 CATCTTCCAGCAGAATTCAGATGATGCCAACAGTGTGGCAAGCTACGAGAACCAGGAGCCAGCCTGTAA
 GAATGTGGATGCAGATGAGGATGAAGACGACTATCCCAACGGCTACCTAGTGGTGTGCCTGACAGTAGT
 CCTGCTGCCGTCCCTGTTGTCTCCTCTGCTCCTGTGCCTAGCAACCCTGACCTTGGAGACAGTGCCTTCT
 CTGTGGAGTCGTGTGAAGATTACGTGAATGTTCCCTGAGAGTGAGGAGAGCGCAGAGGCGTCTCTGGATGG
 GAGCCGGGAGTATGTGAATGTGTCCCAGAGCAGCAGCCAGTGACCAGGGCTGAGCTGGCCTCTGTGAAC
 TCCCAGGAGGTGGAAGACGAAGGAGAAGAGGAAGGGGTGGATGGAGAGGAAGCTCCCAGCTATGAGAATC
 TACAGGAGCTTAACCTGAAAGCCTACTGCAGCTGTCTGTCTGAACTGGACTTGTGGGTGTCGCTAAG
 AGGATCCCATTGATCTCTGCCTTGCCACAGCCTGAGAATCTTCCCCTAECTTATGTCACTTTGGGGTC
 CAGTCTGTGTCCCAATATTCTGTACCTTCTGATAAAGCCTGAGAATGAATCTGGTTCAGCCAGACCAT
 GTCATGGAATAAAGGCCATGTGACATAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_010689
Insert Size: 729 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC013337 , AAH13337
RefSeq Size:	1232 bp
RefSeq ORF:	729 bp
Locus ID:	16797
UniProt ID:	O54957
Cytogenetics:	7 F3
Gene Summary:	Required for TCR (T-cell antigen receptor)- and pre-TCR-mediated signaling, both in mature T-cells and during their development. Involved in FCGR3 (low affinity immunoglobulin gamma Fc region receptor III)-mediated signaling in natural killer cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Couples activation of these receptors and their associated kinases with distal intracellular events such as mobilization of intracellular calcium stores, PKC activation, MAPK activation or cytoskeletal reorganization through the recruitment of PLCG1, GRB2, GRAP2, and other signaling molecules.[UniProtKB/Swiss-Prot Function]