

Product datasheet for **MG202998**

Lat (NM_010689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lat (NM_010689) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lat
Synonyms:	p36-38; pp36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202998 representing NM_010689 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCAGACGCCTTGAGCCCGGTGGGGCTGGGCTCCTGCTGCTGCCCTTCTTGGTACGCTCCTGG
CTGCCCTGTGCGTGCGCTGCCGTGAGTTGCCAGTCTCCTATGACAGCACTCCACAGAGAGTTGTACCC
AAGAAGCATCCTCATCAAGCCACCTCAAATAACCGTCCCCGAACACCTGCTGTTTCTACCCTTAGTC
ACTTCCTCCCACCCCTGAGGCAGCCAGACCTGCTCCCCATCCCGAGATCCCACAGCCCTTGGGGTT
CCCATCGGATGCCATCTCCAGCAGAATTCAGATGATGCCAACAGTGTGGCAAGCTACGAGAACCAGGA
GCCAGCCTGTAAGAATGTGGATGCAGATGAGGATGAAGACGACTATCCCAACGGCTACCTAGTGGTGTG
CCTGACAGTAGTCTGCTGCCGTCCCTGTTGTCTCCTCTGCTCCTGTGCCTAGCAACCCTGACCTTGGAG
ACAGTGCCTTCTCTGTGGAGTCGTGTGAAGATTACGTGAATGTTCTGAGAGTGAGGAGAGCGCAGAGGC
GTCTCTGGATGGGAGCCGGGAGTATGTGAATGTGTCCCCAGAGCAGCAGCCAGTGACCAGGGCTGAGCTG
GCCTCTGTGAACCTCCAGGAGGTGGAAGACGAAGGAGAAGAGGAAGGGGTGGATGGAGAGGAAGCTCCCG
ACTATGAGAATCTACAGGAGCTTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202998 representing NM_010689
Red=Cloning site Green=Tags(s)

MEADALSPVGLGLLLLPFLVTLAALCVRCRELPVSYDSTSTESLYPRSILIKPPQITVPRTPAVSYPLV
 TSFPPLRQPDLLPIPRSPQPLGGSHRMPSSQQNSDDANSVASYENQEPACKNVDADEDDYPNGYL VVL
 PDSSPAAVPVVSSAPVSPNDLGD SAFSVESCEDYVNVPESEESAEASLDGSREYVNVSP EQPVTRAE L
 ASVNSQEVEDEGEEEGVDGEEAPDYENLQELN

TRTRPLE - GFP Tag - V

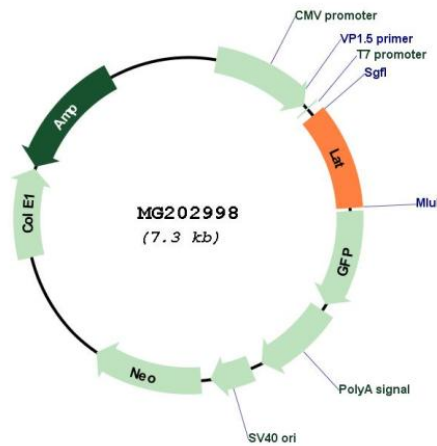
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010689

ORF Size: 726 bp

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:	<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:	NM_010689.2 , NP_034819.1
RefSeq Size:	1260 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]