

Product datasheet for **MG201826**

Lat2 (NM_022964) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lat2 (NM_022964) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lat2
Synonyms: AW125574; LAB; NTAL; Wbscr5; Wbscr15; WSCR5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201826 representing NM_022964
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCCGAGCTGGAGCTGCTGTGGCCGGTGTGGGATTATTGCTGCTGCTGTTGGGGCCACAGCCT
GGCTGTGTGTCCACTGCTCCCGTCCAGGAGTGAAGAGAAATGAGAAAATCTACGAGCAGAGGAACCGGCA
AGAAAAATGCACAGAGCTCAGCTGCGGCTCAGACATACTCCCTGGCCAGGCAGGTGTGGCCAGGACCCAG
ATGGACACAGCTCAAACAAGTCATTTGAAAGGAAGAACAAGATGCTGTTCTCCACCTTGAGGGAAGTA
ACCAGGAGCCTGATGCTGCCTATGTAGACCCCATCCCTACAACTACTACAACCTGGGGATGTTTCCAGAA
GCCCTCAGAAGACGACGATTCCAACCTACGAGAATGTGCTCGTCTGCAAGCCAGCACCCCGAGTCA
GGTGTGCGAGGACTTTGAGGATTACCAGAACTCAGTATCCATCCATCAGTGGCGAGAGTCCAAGAGGACTA
TGGGTGCACCAATGTCCCTATCAGGAAGCCAGATGAGGAGCCAGACTATGTGAATGGGGATGTGGCCGC
AGCAGAGAACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201826 representing NM_022964
Red=Cloning site Green=Tags(s)

MSAELELLWPVSGLLLLLLGATAWLCVHCSRPGVKRNEKIYEQNRQENAQSSAAAQTYSLARQVWPGPQ
MDTAPNKSFERKNKMLFSHLEGSNQEPDAAYVDP IPTNYNHWGCFQKPSSEDDDSNSYENVLVCKPSTPES
GVEDFEDYQNSVSIHQWRESKRTMGAPMSLSGSPDEEPDYVNGDVAANAENI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

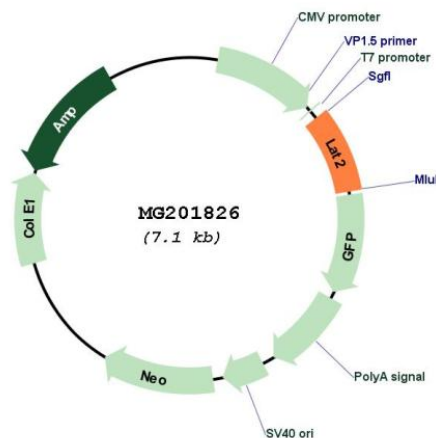


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Cloning Scheme:



Plasmid Map:



ACCN: NM_022964

ORF Size: 573 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:

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_022964.4](#), [NP_075253.2](#)

RefSeq Size: 1487 bp

RefSeq ORF: 576 bp

Locus ID: 56743

UniProt ID: [Q9JHL0](#)

Cytogenetics: 5 G2

Gene Summary: Involved in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. May also be involved in BCR (B-cell antigen receptor)-mediated signaling in B-cells and FCGR1 (high affinity immunoglobulin gamma Fc receptor I)-mediated signaling in myeloid cells. Couples activation of these receptors and their associated kinases with distal intracellular events through the recruitment of GRB2.[UniProtKB/Swiss-Prot Function]