

## Product datasheet for MR201826

### Lat2 (NM\_022964) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lat2 (NM\_022964) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Lat2  
**Synonyms:** AW125574; LAB; NTAL; Wbscr5; Wbscr15; WSCR5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201826 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTGCCGAGCTGGAGCTGCTGTGGCCGGTGTGGGATTATTGCTGCTGCTGTTGGGGCCACAGCCT  
 GGCTGTGTGTCCACTGCTCCCGTCCAGGAGTGAAGAGAAATGAGAAAATCTACGAGCAGAGGAACCCGCA  
 AGAAAAATGCACAGAGCTCAGCTGCGGCTCAGACATACTCCCTGGCCAGGCAGGTGTGGCCAGGACCCAG  
 ATGGACACAGCTCAAACAAGTCATTTGAAAGGAAGAACAAGATGCTGTTCTCCACCTTGAGGGAAGTA  
 ACCAGGAGCCTGATGCTGCCTATGTAGACCCCATCCCTACAACTACTACAACCTGGGGATGTTTCCAGAA  
 GCCCTCAGAAGACGACGATTCCAACCTCCTACGAGAATGTGCTCGTCTGCAAGCCCAGCACCCCGAGTCA  
 GGTGTCGAGGACTTTGAGGATTACCAGAACTCAGTATCCATCCATCAGTGGCGAGAGTCCAAGAGGACTA  
 TGGGTGCACCAATGTCCCTATCAGGAAGCCAGATGAGGAGCCAGACTATGTGAATGGGGATGTGGCCGC  
 AGCAGAGAACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201826 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAELELLWPVSGLLLLLLGATAWLCVHCSRPGVKRNEKIYEQNRQENAQSSAAAQTYSLARQVWPGPQ  
 MDTAPNKSFERKNKMLFSLHLEGSNQEPDAAYVDP IPTNYYNWGC FQKPS EDDDSNSYENVLVCKPSTPES  
 GVEDFEDYQNSVSIHQWRESKRTMGAPMSLSGSPDEEPDYVNGDVAAAENI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022964

**ORF Size:** 576 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:** 1636 bp

**RefSeq ORF:** 576 bp

**Locus ID:** 56743

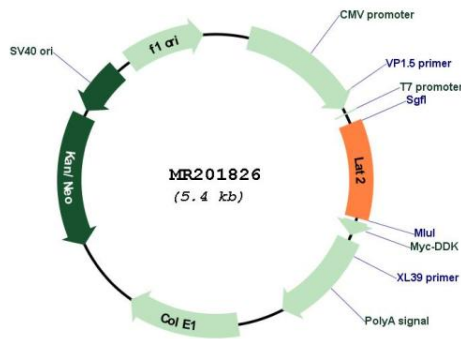
**UniProt ID:** [Q9JHL0](#)

**Cytogenetics:** 5 G2

**MW:** 21.4 kDa

**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]

**Product images:**



Circular map for MR201826