

## Product datasheet for **MC207535**

### Lat2 (NM\_022964) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lat2 (NM\_022964) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lat2  
**Synonyms:** AW125574; LAB; NTAL; Wbscr5; Wbscr15; WSCR5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207535 representing NM\_022964  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTGCCGAGCTGGAGCTGCTGTGGCCGGTGTCCGGATTATTGCTGCTGCTGTTGGGGCCACAGCCT  
GGCTGTGTGTCCACTGCTCCCGTCCAGGAGTGAAGAGAAATGAGAAAATCTACGAGCAGAGGAACCGGCA  
AGAAAATGCACAGAGCTCAGCTGCGGCTCAGACATACTCCCTGGCCAGGCAGGTGTGGCCAGGACCCAG  
ATGGACACAGCTCAAACAAGTCATTTGAAAGGAAGAACAAGATGCTGTTCTCCACCTTGAGGGAAAGTA  
ACCAGGAGCCTGATGCTGCCTATGTAGACCCCATCCCTACAAACTACTACAACCTGGGGATGTTTCCAGAA  
GCCCTCAGAAGACGACGATTCCAACCTCCTACGAGAATGTGCTCGTCTGCAAGCCAGCACCCCGAGTCA  
GGTGTGCGAGGACTTTGAGGATTACCAGAACTCAGTATCCATCCATCAGTGGCGAGAGTCCAAGAGGACTA  
TGGGTGCACCAATGTCCCTATCAGGAAGCCAGATGAGGAGCCAGACTATGTGAATGGGGATGTGGCCGC  
AGCAGAGAACATC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_022964  
**Insert Size:** 576 bp  
**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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_022964.4</a></u> , <u><a href="#">NP_075253.2</a></u>
<b>RefSeq Size:</b>	1636 bp
<b>RefSeq ORF:</b>	576 bp
<b>Locus ID:</b>	56743
<b>UniProt ID:</b>	<u><a href="#">Q9JHL0</a></u>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	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] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform b, which is shorter than isoform a.