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Product datasheet for MR227247

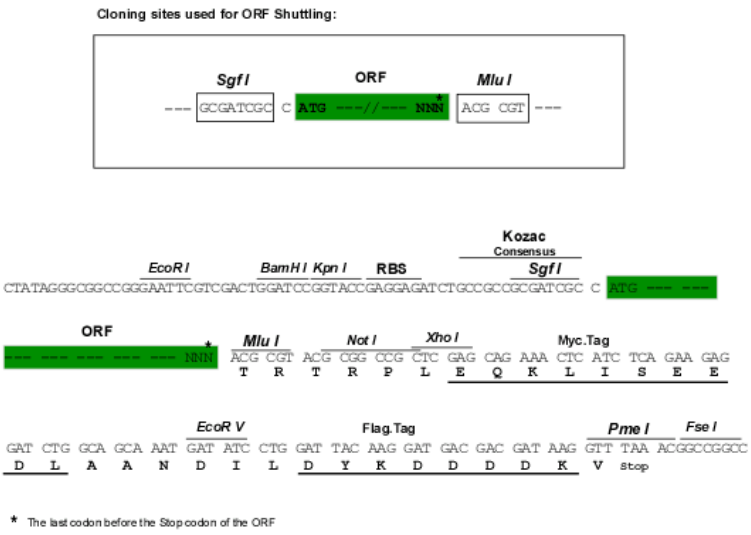
Lat2 (NM_020044) Mouse Tagged ORF Clone

Product data:

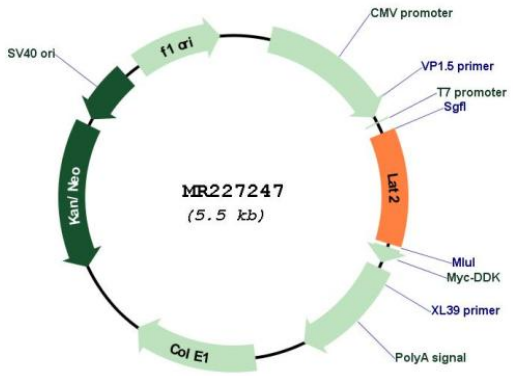
Product Type:	Expression Plasmids
Product Name:	Lat2 (NM_020044) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lat2
Synonyms:	AW125574; LAB; NTAL; Wbscr5; Wbscr15; WSCR5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227247 representing NM_020044 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGCCGAGCTGGAGCTGCTGTGGCCGGTGTCGGGATTATTGCTGCTGCTGTTGGGGGCCACAGCCT GGCTGTGTGTCCACTGCTCCCGTCCAGGAGTGAAGAGAAATGAGAAAATCTACGAGCAGAGGAACCGGCA AGAAAATGCACAGAGCTCAGCTGCGGCTCAGACATACTCCCTGGCCAGGCAGGTGTGGCCAGGACCCCAG ATGGACACAGCTCCAAACAAGTCATTTGAAAGGAAGAACAAGATGCTGTTCTCCCACCTTGAGGGTCCTG AGTCCCCTAGGTACCAGAACTTCTACAAAGGAAGTAACCAGGAGCCTGATGCTGCCTATGTAGACCCCAT CCCTACAAACTACTACAACTGGGGATGTTTCCAGAAGCCCTCAGAAGACGACGATTCCAACTCCTACGAG AATGTGCTCGTCTGCAAGCCCAGCACCCCCGAGTCAGGTGTCGAGGACTTTGAGGATTACCAGAACTCAG TATCCATCCATCAGTGGCGAGAGTCCAAGAGGACTATGGGTGCACCAATGTCCCTATCAGGAAGCCCAGA TGAGGAGCCAGACTATGTGAATGGGGATGTGGCCGCAGCAGAGAACATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR227247 representing NM_020044 Red=Cloning site Green=Tags(s) MSAELELLWPVSGLLLLLLGATAWLCVHCSRPGVKRNEKIYEQRNRQENAQSSAAAQTYSLARQVWPGPQ MDTAPNKSFERKNKMLFSHLEGPESPRYQNFYKGSNQEPDAAYVDPIPTNYYNWGCFQKPSEDDDSNSYE NVLVCKPSTPESGVEDFEDYQNSVSIHQWRESKRTMGAPMSLSGSPDEEPDYVNGDVAAAENI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_020044

ORF Size: 609 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_020044.3, NP_064428.1
RefSeq Size:	1523 bp
RefSeq ORF:	612 bp
Locus ID:	56743
UniProt ID:	Q9JHL0
Cytogenetics:	5 G2
MW:	23.3 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]