

Product datasheet for **MC219412**

Lima1 (NM_023063) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lima1 (NM_023063) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lima1
Synonyms:	Eplin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219412 representing NM_023063
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAAAGTGTCTGGGAGATTCAGGCATGAAGCAGAGAAGCCAGAGACGAGCGAAAACACAGAACTT
 CAGGCAAAATAGAGAAATACAACGTTCCACTGAATAGACTGAAGATGATGTTTGAGAAAGGTGAACACAA
 CCAAACCAAGAGTCTCTGGACCCAAAGCCGAAATGCGGGTGAAGGAGGCTCTCTGAAAACAACTGTTCC
 CTGGATGACTGGGAAATAGTGCAGGCTCATTTGTCTTCTCTGCATTCAACTCGGAGAAAAACGAGAGTA
 AGAGGAATCTGGAGCTGCCACGCCTCTCAGAACTCCATAAAGGACCGCATGGCCAAGTACCAGGCTGC
 AGTGTCCAAGCAGAGCAGCCAGCCAGCTACACAAATGAGCTGAAAACAGTAAAAGCAAACTCATAAA
 TGGGAACAGAAGGAGAATGTGCCCCAGGTCCCGAGGCCGTCAGCGTCCATCAGGAAGGAAGCAAGGTTT
 CTACAAGTGAATAGTCTAGTGGCCCTCTGTCCCTGCTGAAGATGACACCTGTAAGTCCCAGGTGAA
 GAGCGAGGCCAGCAGCCTATGCACCCTAAGCCGCTGAGTCTGACGCCAGGACCTCCAGTCTTCCGGAA
 AGTTCTCCTTCCAAAACAGCGAAGAAGTTTCAGGCGCCGCAAGGAGAGCTGCGTGGAGTGTGAGAAGA
 CGGTGTACCCATGGAACGGCTCCTGGCAACCAGCAGGTGTTTACATCAGCTGTTTCCGATGCTCCTA
 CTGCAACAACAAGCTCAGTCTAGGAACATATGCATCCTTACATGGACGAATCTACTGTAAGCCTCACTTC
 AATCAACTCTTCAAGTCCAAAGGCAACTATGACGAGGGCTTTGGGCACAAGCAGCATAAGGATCTGTGGG
 CAAGCAAGAGCGACAATGAGGAGACTTTGGGGAGACCAGCCAGCCGCTAATGCAGGGGAGAGCCCCCA
 TAGCCCGGGTGTAGAAGTGCATCGCCAAAGTCCGGCTGCTGGCGCAAGTATGGAAGCAAGGCC
 TCTTCTCAGAGGGAGAGGAGGATAAGCCTGCGGAGACCAAGAAGCTGAGGATCGCCTGGCCTCCGCCAG
 CCGAGCTGGGCGGTTCCGGAAGTCCCTGGAGGAAGGGATCAAAGTATCGAAGCCCAAGTGGCCTCCGGA
 GGATGACGTCTGCAAGACGGAGGCCCGGAGGATGTAGATCTGGACCTGAAGAAGCTGCGCGGTCTTCG
 TCCTGAAGGAGAGGAGCCGCCGTTTACGGTAGCAGCTTCTTTTGAACCTTCTCCATCAAGAGCCCCA
 AGGCCTCTTCGCATCTCTCAGGAAAGTTGGAGCGAGTCCGAGCAGAGTGAAGGTTTGGAGGAGGGAT
 AGCGACGATGGAAGGAAACAAACGAAAATGCCAGACCCTCTGGGGAGAAAGAGAATGTGGGAAAATCA
 CGCTGGCAGGGCAGGAAGTCCGAGGAGCAAGGACCGTAGTTCTTTTGGAGTGGAGAGTGAAGATTTTA
 TGGAAAATGGAGCAAACATAGCTGAAGATGACAACCATGTCCACGCACAGCAGTCCCGTTAGAACCCGA
 GGCTCCGGTTGGTCTGGCTTTGTAGACACCACGGCTGCTAAAGAATCACTACCGAATCAAAAATCC
 CAAGATGTCGGTTCTGGGAGGAGAAGTGGTCCGAGAGCTGTCTGTGGAGGAACAGATAAAGAGAAACC
 GGTAATGATGAGGACGAGGATGAAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_023063
- Insert Size:** 1782 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).
- 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_023063.4](#), [NP_075550.2](#)

RefSeq Size: 4117 bp

RefSeq ORF: 1782 bp

Locus ID: 65970

Cytogenetics: 15 56.13 cM

Gene Summary: Actin-binding protein involved in actin cytoskeleton regulation and dynamics. Increases the number and size of actin stress fibers and inhibits membrane ruffling. Inhibits actin filament depolymerization. Bundles actin filaments, delays filament nucleation and reduces formation of branched filaments (By similarity). Plays a role in cholesterol homeostasis. Influences plasma cholesterol levels through regulation of intestinal cholesterol absorption. May act as a scaffold protein by regulating NPC1L1 transportation, an essential protein for cholesterol absorption, to the plasma membrane by recruiting MYO5B to NPC1L1, and thus facilitates cholesterol uptake (PubMed:29880681).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (b) uses an alternate 5'-terminal exon, lacks part of the 5' coding region, and initiates translation from a downstream start codon, compared to variant a. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.