

Product datasheet for **MC221301**

Lima1 (NM_001113545) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lima1 (NM_001113545) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lima1
Synonyms:	Eplin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221301 representing NM_001113545
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCGACTCCATTTAATAGACGCCAGTGGACTTCCCTGTCAATTGAGAGTAACAGCCAAAGAGCTTT
 CTCTTGTCACAAAGAACAAGTCATCCGCAATTGTGGAAATATTCTCCAAGTACCAGAAGGCTGCTGAAGA
 AGCCAACATGGAAAGGAAGAAAAATAACCTGAAAGTCTGCCCCAGCACTTTAGAAGAGGGACCCCTGTCT
 GTGTTAAAGAAGAAGTGGGAGAACCCTGGTGGGGCAGAATCCACACAGACTCACTGCCAAACAGCA
 GCAGTGAGGGTGGGCACACAGCGGACTACCCTCTGCTGAAGTGACGGACAAGCCTGCTCCTGGAGTCAG
 AGCTGACCGGGAAGAGCACACCCAGCCAAACCTAGATTTGGATCTCGTCCGGAAGCAGTTATCCAGAGC
 CGGTATCCTCGCTCAGAGAACAGCCACGATTTTAAAGCCAGGCCACGGAGGCCAAAAATGGAAAAC
 GTCTGGGAGATTCAGGCATGAAGCAGAGAAGCCAGAGACGAGCGAAAACACAGAACTTCAGGCCAAAT
 AGAGAAATACAACGTTCCACTGAATAGACTGAAGATGATGTTTGAGAAAGGTGAACACAACCAAACCAAG
 AGTCTCTGGACCCAAAGCCGAAATGCGGGTGGAAAGGAGGCTCTCTGAAAACAACTGTTCCCTGGATGACT
 GGGAAATAGTGCGGGTCAATTTGTCTTCTCTGCATTCAACTCGGAGAAAAACGAGAGTAAGAGGAATCT
 GGAGCTGCCACGCCTCTCAGAAACCTCCATAAAGGACCGCATGGCCAAGTACCAGGCTGCAGTGTCCAAG
 CAGAGCAGCCAGCCAGCTACACAAATGAGCTGAAAACCAAGTAAAAGCAAACTCATAAATGGGAACAGA
 AGGAGAATGTGCCCCAGGTCCCAGGCCCTGCAGCGTCCATCAGGAAGGAAGCAAGGTTTCTACAACCTGA
 GAATAGTCTAGTGGCCCTCTCTGTCCCTGCTGAAGATGACACCTGTAACCTCCAGGTGAAGAGCGAGGCC
 CAGCAGCTATGCACCCTAAGCCGCTGAGTCTGACGCCAGGACCTCCAGTCTTCCGAAAGTTCTCCTT
 CCAAAAACAGCGAAGAAGTTTTCAGGCGCCGGCAAAGGAGAGCTGCGTGGAGTGTGAGAAGACGGTGTACCC
 CATGGAACGGCTCCTGGCCAACACAGCAGGTGTTTACATCAGCTGTTTCCGATGCTCCTACTGCAACAAC
 AAGCTCAGTCTAGGAACATATGCATCCTTACATGGACGAATCTACTGTAAGCCTCACTTCAATCAACTCT
 TCAAGTCAAAGGCAACTATGACGAGGGCTTTGGGCACAAGCAGCATAAAGGATCTGTGGCAAGCAAGAG
 CGACAATGAGGAGACTTTGGGGAGACCAGCCAGCCGCTAATGCAGGGGAGAGCCCCATAGCCCGGGT
 GTAGAAGATGCCCCATCGCCAAGGTGGCGTCTGGCGCAAGTATGGAAGCCAAGGCCTCTTCTCAGA
 GGGAGAGGGAGGATAAGCCTGCGGAGACCAAGAAGCTGAGGATCGCTGGCTCCGCCAGCCGAGCTGGG
 CGGTTCCGGAAGTGCCCTGGAGGAAGGGATCAAAGTATCGAAGCCCAAGTGGCCTCCGGAGGATGACGTC
 TGCAAGACGGAGGCCCGGAGGATGTAGATCTGGACCTGAAGAAGCTGCGGCGGTCTTCGTCCCTGAAGG
 AGAGGAGCCGCCGTTTACGGTAGCAGCTTCTTTTCAACCTCTTCCATCAAGAGCCCCAAGGCCTCTT
 GCCATCTCTCAGGAAAGGTTGGAGCGAGTCCGAGCAGAGTGAGGAGTTTGGAGGAGGGATAGCGACGATG
 GAAAGGAAACAAACGGAAAATGCCAGACCTCTGGGGAGAAAGAGAATGTGGGAAAATCACGCTGGCAGG
 GCGAGGAAGTGCCGAGGAGCAAGGACCGTAGTTCTTTGAGCTGGAGAGTGAGAAATTTATGGAAAATGG
 AGCAAACATAGCTGAAGATGACAACCATGTCCACGCACAGCAGTCCCCGTTAGAACCCGAGGCTCCGGGT
 TGGTCTGGCTTTGTAGACACCAGGCTGCTAAAGAATTCCTACCCAGAATCAAAAATCCCAAGATGTGCG
 GGTTCTGGGAGGGAGAAGTGGTCCGAGAGCTGTCTGTGGAGGAACAGATAAAGAGAAACCCGTTACTATGA
 TGAGGACGAGGATGAAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001113545
 Insert Size: 2262 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:	<ol style="list-style-type: none">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:	<u>NM_001113545.1</u> , <u>NP_001107017.1</u>
RefSeq Size:	4245 bp
RefSeq ORF:	2262 bp
Locus ID:	65970
UniProt ID:	<u>Q9ERG0</u>
Cytogenetics:	15 56.13 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (a) represents the longer transcript and encodes the longer isoform (a).</p>