

## Product datasheet for **RN217174**

### Lima1 (NM\_001191615) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lima1 (NM_001191615) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lima1
Synonyms:	eplin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >RN217174 representing NM\_001191615  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAATCGACTCCGTTTAAATAGACGGCAGTGGACTTCCCTGTCACTGAGAGTAACAGCCAAAGAACTTT  
 CTCTCGTCAACAAGAACAAGTCGTCCACAATTGTGAAAATATTCTCCAAGTACCAGAAAGCAGCTGAAGA  
 AGCAAACATGGAAAGGAAGAAAAATAAAGTCTCCCGCAGCACTTTAGAAAGAGGGACCCCTGTCT  
 GTGTTAAAGAAGAAGTGGGAGAACCCCGTGGCGGAGCGGAATCCACACAGACTCACTGCCAAACAGCA  
 GCAGCGACGGTGGGCACACGGCGGACCACCCTCTGCTGAAGTGACAGCCAAGGCTGCTCTGGAGCCAG  
 AGCTGACCGGGAAGAGCACACCCAGCCAGATCTAGATTTGGATCTCGTCCGGAAGCTGTTACTCAGTGT  
 CGGTATCCCCGCTCAGAGGACAGCCACGATTTTAAAGCCAGGCCACGAAAGCCAAAATATGGAAAAT  
 GTCTGGGAGATTCAGGCATGAAGCAGAGAAGCCGAAATGAGCGAAAACACGAAACTTCAGGCAAAAT  
 AGAGAAAACAACGTTCCACTGAACAGACTAAAGATGATGTTTGAGAAAGGTGAACACAGCCAAAACAAG  
 AGTCCCTGGACCCAGGGCCGAAATGCAGGCGGAAGGAGGCTCTCTGAAAACAGCTGTTCCCTGGAGCATT  
 TGGAAATAGTGCAGGTCATTTGTCTTCTCTGCCTTCAACTCGGAGAAAAATGAGAGTAAGCGGAATCT  
 GGAGCTGCCACGCCTCTCTGAGACCTCCATAAAGGACCGCATGGCCAAGTACCAGGCTGCCGTGTCCAAG  
 CAGAGCAGCCAGCCAGCTACGCAAGTGAGCTGAAACCCAGTGAAGCAAAAATCACAAATGGGAGCAGA  
 AGGAGAACGTGCCCCCGGCCCGGAGGCCCTGCAGCATCCATCAGGAAGGGAGCAAGGTTTCTGCAACTGA  
 GAATAGCCTGGTGGCCACCCTGTCCCTGCAGAAGATGACACCTGTAACCTCCAGGGGAGGAGTGAGGCC  
 CAGCAGCCCATATACACTAAGCCGCTGAGTCCCAGCCAGGACCTCCAGTCTCCGAAAGTTCTCCTT  
 CCAAAAACAGCAAGAAGTTTCAGGCACCCGCAAGAGAGAGCTGCGTGGAGTGTGAGAAGACGGTGTATCC  
 CATGGAACGGCTCTGGCCAACCAGCAGGTGTTTCACATCAGCTGTTTCCGATGCTCCTACTGCAACAAC  
 AAAGTCACTAGGAACATATGCATCCTTACACGGAAGAATCTATTGTAAGCCTCACTTCAACCAACTCT  
 TCAAGTCAAAGGCAACTATGACGAAGGCTTTGGGCACAAGCAGCATAAAGGATCTGTGGGCAAGCAAAGG  
 TGAAAAAGAAGAGACTTTGGGGAGACCAGCCAGCCTCCAGTGCAGGGGAGACCCCCATAGCCCGGGT  
 GTAGAAGATGCCCCATCGCAAGGTGGCGTCTGGCTGCGAGTATGGAAGCCAAGGCCTCCTCTCAGA  
 GGGAGAGGGAAGAGAATAAGCCAGCGGAGACCAAGAAGCTGAGGATCGCCTGGCCTCCCCAGCCGAGCA  
 GGGCAGTTCAGGAAGTGCCTCGGAGGAAGGTTCAAAGTGTCAAAGCCCAAGTGGCCTCCCGAGGATGAA  
 GTCTGCAAGACAGAGGCCCGGAGGATGTAGATCTGGACCTGAAGAAGCTGAGGCGCTTCTCGTCCCTGA  
 AGGAGAGGAGCCCGCTTACTGTGCGGCTTCTTTGGAACCTCCTCGGTCAAGAGCCCAAGCCCTT  
 GTCGCCGTCCTCAGGAAGGTTGGAGCGAGCCGAGCCGAGCAGAGTGAGGAGTTCGGAGGAGGGACA  
 GTGACACAACCGAAAGCCCGAGCCCTCTCGGGAGAAGGAGAGTGTGGGAAAATCACGCTGGCAGAGCG  
 AGGAAGCGGAAGCGGAAGCGGAGGAAGCGCCGAGGGGCAGGGACGGTCTTTTGGAGCTGGAGAGTGA  
 GAGTTTATAGGAAATGGCGCAAGCATAGCTGAAGACGACGTGCCCCAGCACAGCGGTCTCCATTAGAA  
 CCCGAGTCTCCGGTTGGCTGGCTTTGGAGACACCAGACTGCTAAAGAATTCAATCAAAAATCCCAAG  
 ATGTCGGGTTCTGGGAGGGGAAGTGGTCCGAGAGCTGTCCGTGGAGGAGCAGATAAAGAGAAACCGGTA  
 CTATGACGAGGATGAGGATGAGGA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001191615  
**Insert Size:** 2268 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001191615.2</a></u> , <u><a href="#">NP_001178544.1</a></u>
<b>RefSeq Size:</b>	4204 bp
<b>RefSeq ORF:</b>	2268 bp
<b>Locus ID:</b>	300228
<b>UniProt ID:</b>	<u><a href="#">F1LR10</a></u>
<b>Cytogenetics:</b>	7q36
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]