

Product datasheet for **MG210477**

Lima1 (BC031490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lima1 (BC031490) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lima1
Synonyms:	Eplin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MG210477 representing BC031490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCGACTCCATTTAATAGACGCCAGTGGACTTCCCTGTCAATTGAGAGTAACAGCCAAAGAGCTTT
 CTCTTGTCACAAAGAACAAGTCATCCGCAATTGTGGAAATATTCTCCAAGTACCAGAAGGCTGCTGAAGA
 AGCCAACATGGAAAGGAAGAAAAATAACCTGAAAGTCTGCCCCAGCACTTTAGAAGAGGGACCCTGTCT
 GTGTTAAAGAAGAAGTGGGAGAACCCTGGTGGGGCAGAATCCACACAGACTCACTGCCAAACAGCA
 GCAGTGAGGGTGGGCACACAGCGGACTACCCTCTGCTGAAGTGACGGACAAGCCTGCTCCTGGAGTCAG
 AGCTGACCGGGAAGAGCACACCCAGCCAAACCTAGATTTGGATCTCGTCCGGAAGCAGTTATCCAGAGC
 CGGTATCCTCGCTCAGAGAACAGCCACGATTTTAAAGCCAGGCCACGGAGAGCCAAAAATGGAAAAT
 GTCTGGGAGATTCAGGCATGAAGCAGAGAAGCCAGAGACGAGCGAAAACACAGAACTTCAGGCCAAAT
 AGAGAAAACAACGTTCCACTGAATAGACTGAAGATGATGTTTGAGAAAGGTGAACACAACCAAACCAAG
 AGTCTCTGGACCCAAAGCCGAAATGCGGGTGGAAAGGAGGCTCTCTGAAAACAACTGTTCCCTGGATGACT
 GGGAAATAGTGCGGGTCAATTTGTCTTCTCTGCATTCAACTCGGAGAAAAACGAGAGTAAGAGGAATCT
 GGAGCTGCCACGCCTCTCAGAAACCTCCATAAAGGACCGCATGGCCAAGTACCAGGCTGCAGTGTCCAAG
 CAGAGCAGCCAGCCAGCTACACAAATGAGCTGAAAACCAAGTAAAAGCAAACTCATAAATGGGAACAGA
 AGGAGAATGTGCCCCAGGTCCCAGGCCCTGCAGCGTCCATCAGGAAGGAAGCAAGGTTTCTACAACCTGA
 GAATAGTCTAGTGGCCCTCTCTGTCCCTGCTGAAGATGACACCTGTAACCTCCAGGTGAAGAGCGAGGCC
 CAGCAGCCTATGCACCCTAAGCCGCTGAGTCTGACGCCAGGACCTCCAGTCTTCCGAAAGTTCTCCTT
 CCAAAACAGCGAAGAAGTTTTCAGGCGCCGGCAAAGGAGAGCTGCGTGGAGTGTGAGAAGACGGTGTACCC
 CATGGAACGGCTCCTGGCAACCAGCAGGTGTTTACATCAGCTGTTTCCGATGCTCCTACTGCAACAAC
 AAGCTCAGTCTAGGAACATATGCATCCTTACATGGACGAATCTACTGTAAGCCTCACTTCAATCAACTCT
 TCAAGTCAAAGGCAACTATGACGAGGGCTTTGGGCACAAGCAGCATAAAGGATCTGTGGCAAGCAAGAG
 CGACAATGAGGAGACTTTGGGGAGACCAGCCAGCCGCTAATGCAGGGGAGAGCCCCATAGCCCGGGT
 GTAGAAGATGCCCCATCGCCAAGGTCGGCGTCTGGCGCAAGTATGGAAGCCAAGGCCTCTTCTCAGA
 GGGAGAGGGAGGATAAGCCTGCGGAGACCAAGAAGCTGAGGATCGCTGGCTCCGCCAGCCGAGCTGGG
 CGTTCCGGAAGTGCCCTGGAGGAAGGGATCAAAGTATCGAAGCCCAAGTGGCCTCCGGAGGATGACGTC
 TGCAAGACGGAGGCCCGGAGGATGTAGATCTGGACCTGAAGAAGCTGCGCGGTCTTCGTCCCTGAAGG
 AGAGGAGCCGCCGTTTACGGTAGCAGCTTCTTTTCAACCTCTCCATCAAGAGCCCCAAGGCCTCTTC
 GCCATCTCTCAGGAAAGTTGGAGCGAGTCCGAGCAGAGTGAGGAGTTTGGAGGAGGGATAGCGACGATG
 GAAAGGAAACAAACGGAAAATGCCAGACCTCTGGGGAGAAAGAGAATGTGGGAAAATCACGCTGGCAGG
 GCGAGGAAGTGCCGAGGAGCAAGGACCGTAGTTCTTTGAGCTGGAGAGTGAGAAATTTATGGAAAATGG
 AGCAAACATAGCTGAAGATGACAACCATGTCCACGCACAGCAGTCCCCGTTAGAACCCGAGGCTCCGGGT
 TGGTCTGGCTTTGTAGACACCAGGCTGCTAAAGAATTCCTACCAGAAATCAAAAATCCCAAGATGTGCG
 GGTTCTGGGAGGGAGAAGTGGTCCGAGAGCTGTCTGTGGAGGAACAGATAAAGAGAAACCCGTTACTATGA
 TGAGGACGAGGATGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210477 representing BC031490
 Red=Cloning site Green=Tags(s)

MESTPFNRRQWTSLSLRVTAKELSLVNKNKSSAIVEIFSKYQKAAEEANMERKKNNPESLPQHFRRTLS
 VLKKKWPVAGAEFHTDSLPNSSSEGHTADYPPAEVTDKPAPGVRADREHTQPKPRFGSRPEAVIQS
 RYRPSNSHDFKAQATESQKMENCLGDSRHEAEKPESENTETSGKIEKYNVPLNRLKMMFEKGEHNQTK
 SLWTQSRNAGGRRLSENNCSLDDWEIGAGHLSSSAFNSEKNEKRNLLELPRLSETSIKDRMAKYQAAVSK
 QSSPASYTNELKTSESKTHKWEQKENVPPGPEACSVHQEGSKVSTTENSVALSVPAEDDTCNSQVKSEA
 QQPMHPKPLSPDARTSSLPESPSTAKKFQAPAKESCVECQKTVYPMERLLANQQVFHISCFRCSYCNN
 KLSLGTYASLHGRIYCKPHFNQLFKSKGNIDEFGHKQHKDLWASKSDNEETLGRPAQPPNAGESPHSPG
 VEDAPIAKVGVLAASMEAKASSQREREDKPAETKKLRIAWPPPAELGGSGSALEEGIKVSKPKWPPEDDV
 CKTEAPEDVDLDLKKLRSSSLKERSRPFVAASFRTSSIKSPKASSPSLRKGWSESEQSEFFGGGIATM
 ERKQTENARPSGEKENVGKSRWQGEVPRSKDRSSFEELESENFMENGANIAEDDNHVHAQQSPLEPEAPG
 WSGFVDTTAAKEFTTQNKQSQDVGFWEGEVVRELSVEEQIKRNRYYDEDEDEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC031490

ORF Size: 2261 bp

OTI Disclaimer: 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: [BC031490](#), [AAH31490](#)

RefSeq Size: 3232 bp

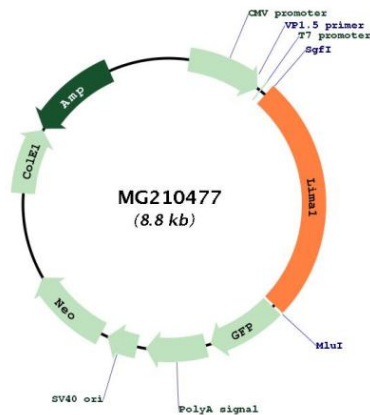
RefSeq ORF: 2261 bp

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]

Product images:



Circular map for MG210477