

Product datasheet for **MR221683**

Lima1 (NM_023063) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR221683 representing NM_023063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAACTGTCTGGGAGATTCAGGCATGAAGCAGAGAAGCCAGAGACGAGCGAAAACACAGAACTT
 CAGGCAAAATAGAGAAATACAACGTTCCACTGAATAGACTGAAGATGATGTTTGAGAAAGGTGAACACAA
 CCAAACCAAGAGTCTCTGGACCCAAAGCCGAAATGCGGGTGAAGGAGGCTCTCTGAAAACAACTGTTCC
 CTGGATGACTGGGAAATAGTGTGCGGGTCAATTTGTCTTCTCTGCATTCAACTCGGAGAAAAACGAGAGTA
 AGAGGAATCTGGAGCTGCCACGCCTCTCAGAACTCCATAAAGGACCGCATGGCCAAGTACCAGGCTGC
 AGTGTCCAAGCAGAGCAGCCAGCCAGCTACACAAATGAGCTGAAAACAGTAAAAGCAAACTCATAAA
 TGGGAACAGAAGGAGAATGTGCCCCAGGTCCGAGGCCGTCAGCGTCCATCAGGAAGGAAGCAAGGTTT
 CTACAACAGAGAATAGTCTAGTGGCCCTCTGTCCCTGCTGAAGATGACACCTGTAACCTCCAGGTGAA
 GAGCGAGGCCAGCAGCCTATGCACCCTAAGCCGCTGAGTCTGACGCCAGGACCTCCAGTCTTCCGGAA
 AGTTCTCCTTCCAAAACAGCGAAGAAGTTTCAGGCGCCGCAAGGAGAGCTGCGTGGAGTGTGAGAAGA
 CGGTGTACCCATGGAACGGCTCCTGGCAACACAGCAGGTGTTTACATCAGCTGTTTCCGATGCTCCTA
 CTGCAACAACAAGCTCAGTCTAGGAACATATGCATCCTTACATGGACGAATCTACTGTAAGCCTCACTTC
 AATCAACTCTTCAAGTCCAAAGGCAACTATGACGAGGGCTTTGGGACAAGCAGCATAAGGATCTGTGGG
 CAAGCAAGAGCGACAATGAGGAGACTTTGGGGAGACCAGCCAGCCGCTAATGCAGGGGAGAGCCCCCA
 TAGCCCGGTGTAGAAGTGCCTCATCGCAAGTGGCGTGTGGCGCAAGTATGGAAGCAAGGCC
 TCTTCTCAGAGGGAGAGGGAGGATAAGCCTGCGGAGACCAAGAAGCTGAGGATCGCCTGGCTCCGCCAG
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 GGATGACGTCTGCAAGACGGAGGCCCGGAGGATGTAGATCTGGACCTGAAGAAGCTGCGGCGTCTTCG
 TCCTGAAGGAGAGGAGCCGCCGTTTACGGTAGCAGCTTCTTTGAACTCTTCCATCAAGAGCCCCA
 AGGCCTCTTCGCATCTCTCAGGAAAGTTGGAGCGAGTCCGAGCAGAGTGAAGGTTTGGAGGAGGGAT
 AGCGACGATGGAAGGAAACAAACGAAAATGCCAGACCTCTGGGGAGAAAGAGAATGTGGGAAAATCA
 CGCTGGCAGGGCAGGAAGTCCGAGGAGCAAGGACCGTAGTTCTTTGAGCTGGAGAGTGAAGATTTTA
 TGGAAAATGGAGCAAACATAGCTGAAGATGACAACCATGTCCACGCACAGCAGTCCCGTTAGAACCCGA
 GGCTCCGGTTGGTCTGGCTTTGTAGACACCACGGCTGCTAAAGAATCTACTACCGAATCAAAAATCC
 CAAGATGTGGGTTCTGGGAGGAGAAGTGGTCCGAGAGCTGTCTGTGGAGGAACAGATAAAGAGAAACC
 GGTACTATGATGAGGACGAGGATGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221683 representing NM_023063
 Red=Cloning site Green=Tags(s)

MENCLGDSRHEAEKPESENTETSGKIEKYNVPLNRLKMMFEKGEHNQTKSLWTQSRNAGGRRRLSENNCS
 LDDWEIGAGHLSSAFNSEKNEKRNLELPRLETSIKDRMAKYQAAVSKQSSPASYNELKTSKTHK
 WEQKENVPPGPEACSVHQEGSKVSTTENSVALSVPAEDDTCNSQVQSEAQQPMHPKPLSPDARTSSLPE
 SSPSKTAKKFQAPAKESCVCQKTVYPMERLLANQQVFHISCFRCSYCNKLSLGTYSALHGRIYCKPHF
 NQLFKSKGNVDEFGHKQHKDLWASKSDNEETLGRPAQPPNAGESPHSPGVEDAPIAKVGVLAASMEAKA
 SSQREREDKPAETKKLRIAWPPPAELGGSGSALEEGIKVSKPKWPPEDDVCKTEAPEDVDLKLKLRSS
 SLKERSRPFVVAASFRTSSIKSPKASSPLRKGWSESEQSEFFGGIATMERKQTENARPSGEKENVGS
 RWQGEVPRSKDRSSFELSENFMENGANIAEDDNHVHAQQSPLEPEAPGWSGFVDTTAAKEFTTQNKQS
 QDVGFWEGEVVRELSVEEQIKRNRYYDEDEDEE

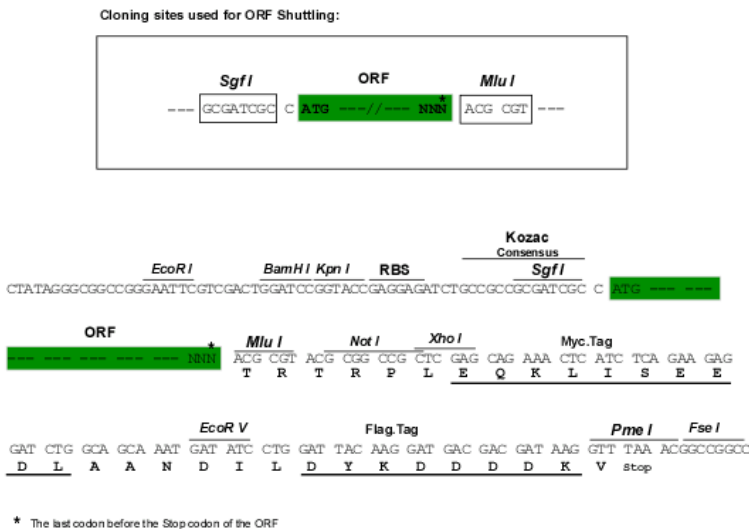
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9034_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023063

ORF Size: 1779 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: [NM_023063.4](#), [NP_075550.2](#)

RefSeq Size: 4110 bp

RefSeq ORF: 1782 bp

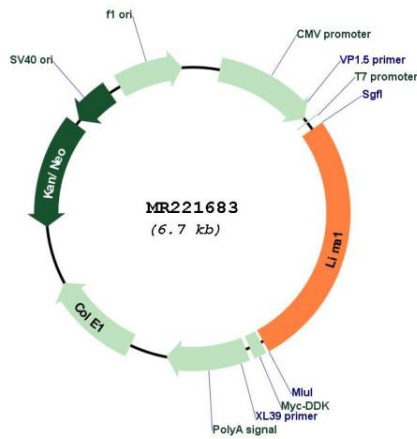
Locus ID: 65970

Cytogenetics: 15 56.13 cM

MW: 66.5 kDa

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 MR221683