

## Product datasheet for **RC233430**

### LASP1 (NM\_001271608) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LASP1 (NM\_001271608) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** LASP1  
**Synonyms:** Lasp-1; MLN50  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233430 representing NM\_001271608  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTCCATTGCGAGACCTGCAAGATGACACTGAACATGAAGAACTACAAGGGCTACGAGAAGAAGCCC  
 TACTGCAACGCGTGCGCTACAAGGAGGAGTTTGAAGAACAAGGGCAAAGGTTTCAGCGTAGTGGCAGA  
 CACGCCGAGCTCCAGAGAATCAAGAAGACCCAGGACCAGATCAGTAACATAAAATACCATGAGGAGTTT  
 GAGAAGAGCCGCATGGGCCCTAGCGGGGCGAGGGCATGGAGCCAGAGCGTCGGGATTCACAGGACGGCA  
 GCAGCTACCGGGGCCCTGGAGCAGCAGCAGCCTACCACATCCCGACCAGTGCCTCCGTTTACCAGCA  
 GCCCCAGCAGCAGCCGGTGGCCAGTCCTATGGTGGCTACAAGGAGCCTGCAGCCCCAGTCTCCATACAG  
 CGCAGCGCCCCAGGTGGTGGCGGGAAGCGGTACCGCGCGGTGTATGACTACAGCGCCGCCGACGAGGACG  
 AGGTCTCTTCCAGGACGGGACACCATCGTCAACGTGCAGCAGATCGACGACGGCTGGATGTACGGGAC  
 GGTGGAGCGCACCCGGCGACACGGGGATGCTGCCGGCAACTACGTGGAGGCCATC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233430 representing NM\_001271608  
 Red=Cloning site Green=Tags(s)

MLPLRDLQDDTEHEELQGLREEALLQVRVRYKEEFKKNKGKGFVSVADTPELQRIKKTQDQISNIKYHEEF  
 EKSRMGPSGGEGMEPERRDSQDGSYRRPLEQQQPHHIPTAPVYQQPQQPVAQSYGGYKEPAAPVSIQ  
 RSAPGGGKRYRAVYDYSAADEDEVSFQDGTIVNVQQIDDGWMYGTVERTGDTGMLPANYVEAI

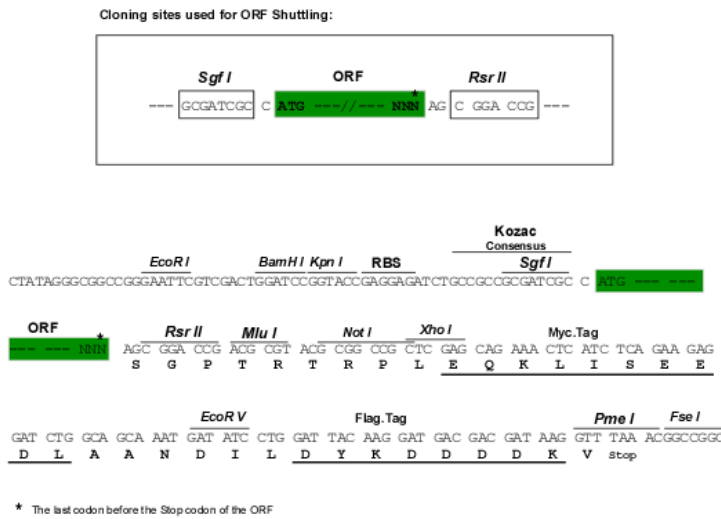
**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_001271608

**ORF Size:** 615 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001271608.1](#), [NP\\_001258537.1](#)

**RefSeq Size:** 4050 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 3927

**UniProt ID:** [Q14847](#)

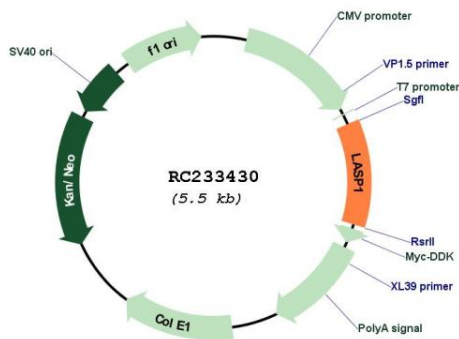
**Cytogenetics:** 17q12

**Protein Families:** Druggable Genome

**MW:** 23.6 kDa

**Gene Summary:** This gene encodes a member of a subfamily of LIM proteins, characterized by a LIM motif and a domain of Src homology region 3, and also a member of the nebulin family of actin-binding proteins. The encoded protein is a cAMP and cGMP dependent signaling protein and binds to the actin cytoskeleton at extensions of the cell membrane. The encoded protein has been linked to metastatic breast cancer, hematopoietic tumors such as B-cell lymphomas, and colorectal cancer. [provided by RefSeq, Oct 2012]

### Product images:



Circular map for RC233430