

Product datasheet for **RG219975**

LASP1 (NM_006148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LASP1 (NM_006148) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LASP1
Synonyms:	Lasp-1; MLN50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219975 representing NM_006148 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCCCAACTGCGCCCGGTGCGGCAAGATCGTGTATCCACGGAGAAGGTGAACTGTCTGGATAAGT
TCTGGCATAAAGCATGCTTCCATTGCGAGACCTGCAAGATGACTGAACATGAAGAACTACAAGGGCTA
CGAGAAGAAGCCCTACTGCAACGCACACTACCCCAAGCAGTCCTTACCATGGTGGCGGACACCCCGGAA
AACCTTCGCCTCAAGCAACAGAGTGAGCTCCAGAGTCAGGTGCGCTACAAGGAGGAGTTTGAGAAGAACA
AGGGCAAAGGTTTCAGCGTAGTGGCAGACACGCCCGAGCTCCAGAGAATCAAGAAGACCCAGGACCAGAT
CAGTAATATAAAATACCATGAGGAGTTTGAGAAGAGCCGATGGGCCCTAGCGGGGGCGAGGGCATGGAG
CCAGAGCGTCGGGATTCACAGGACGGCAGCAGCTACCGGCGGCCCTGGAGCAGCAGCAGCTCACCACA
TCCCGACCACTGCCCCGTTTACCAGCAGCCCCAGCAGCAGCCGGTGGCCAGTCTATGGTGGCTACAA
GGAGCCTGCAGCCCCAGTCTCCATACAGCGCAGCGCCCCAGGTGGTGGCGGGAAGCGGTACCGCGCGGTG
TATGACTACAGCGCCCGCAGCAGGACGAGGTCTCCTTCCAGGACGGGGACACCATCGTCAACGTGCAGC
AGATCGACGACGGCTGGATGTACGGGACGGTGGAGCGCACCGGCGACACGGGGATGCTGCCGGCCAACTA
CGTGGAGGCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219975 representing NM_006148
 Red=Cloning site Green=Tags(s)

MNPNCARCGKIVYPTKVNCLDKFVHKACFHCETCKMMLNMKNYKGYEKKPYCNAHYPKQSFTMVADTPE
 NLRLLKQQSELQSQVRYKEEFKKNKGKGFVSVADTPELQRIKKTQDQISNIKYHEEFKSRMGPSGGEGME
 PERRDSQDGSYRRPLEQQPHHIPTAPVYQQPQQPVAQSYGGYKEPAAPVSIQRSAPGGGGKRYRAV
 YDYSAADEDEVSFQDGDITVNVQQIDDGWMYGTVERTGDTGMLPANYVEAI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006148

ORF Size: 783 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_006148.1](#), [NP_006139.1](#)

RefSeq Size: 3846 bp

RefSeq ORF: 786 bp

Locus ID: 3927

UniProt ID: [Q14847](#)

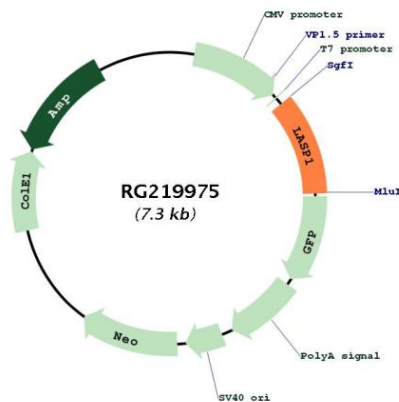
Cytogenetics: 17q12

Domains: NEBU, SH3, LIM

Protein Families: Druggable Genome

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 RG219975