

## Product datasheet for **RG239935**

### LIMCH1 (NM\_001289122) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIMCH1 (NM_001289122) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIMCH1
Synonyms:	LIMCH1A; LMO7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239935 representing NM_001289122. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTTGTCCCGCTCTCGGTCTGGAAGCTCTTCAGCCCCTGCAGCCCGAGCCGCCCGCCCGAGCCCGCC
TTCTCCGAGGCGCAGAAGTGGATTGAGCAAGTAACTGGCAGAAGTTTGGTGATAAAGATTTTCGGACA
GGTTTAGAAAAATGGAATCCTCCTCTGCGAGTTGCTGAATGCTATAAAGCCAGGACTTGTTAAAAAGATC
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GGCCTTAAAGAATCTCACTTTTGAACCGAGTGACCTCCAGGATACATCCAACAGAGTAACAGTCAAG
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TTTGGCTCTCGCTCTCGGCAGACGCCTTACCAGATGTAGTCTCAGGGGAAGCAGCGATGGGAGAGGA
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GCAGGCAGTGGGTCTCCAAGCAAACTGTCACTCCCAAAGCAGTGCCTATGCTGACACCCAAGCCTTAC  
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 GGAGATCGAGTGTGAGTGGGACGGATGTTAGGATTCGAAATGGTCTCCTGAACTGTAATGATTGCTACATG  
 CGATCCAGAAGTCCCGGGCAGCCTACAACATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:**

>Peptide sequence encoded by RG239935  
 Blue=ORF Red=Cloning site Green=Tag(s)

MACPALGLEALQPLQPEPPPEPAFSEAQKWIEQVTGRSFGDKDFRTGLENGILLCELLNAIKPLVKKI  
 NRLPTPIAGLDNIILFLRGKELGLKESQLFDPSDLQDTSNRVTVKSLDYSRKLKNVLVTIYWLGAAN  
 SCTSYSGTTLNLKEFEGLLAQRKDTDDIESPKRSIRDSDYDCWDSERSDSLSPRHGRDSDSFLS  
 FGSRSRQTPSPDVLVLRGSSDGRGSDSESDLPHRKLPDVKKDDMSARRSHGEPKSAVFPNQYLPKNSQ  
 TAYVPAPLRKKKAEREEYRKSWSSTATSPLGGERPFRSTSMFDMRCEEEAAVQPHSRARQEQLQLINNQL  
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 ETVHREEKERECTVAPAHSLTKSQMFEGVARVHGSPLLEKQDNGSIEINIKKPNVSPQELAAATTEKT  
 EPNSQEDKNDGGKSRKGNIELASSEPQHFTTTVTRCSPTVAFVEFPSSPQLKNDVSEEKQKPENEMS  
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 SVDSPSSEKSPVMTPFKFWAWDPEEERRRQEKWQEQERLLQERYQKEQDKLKEEWEKAQKEVEEEERR  
 YEEERKIIEDTVVPFTVSSSSADQLSTSSMTEGSGTMNKIDLGNQDEKQDRRWKKSFGQDSDLLL  
 KTRESDRLEEKGSLETEGALAHSGNPVSKGVHEDHQLDTEAGAPHCCTNPQLAQDPSQNQQTSNPHSSE  
 DVKPKTLPLDKSINHQIESPERRKISIGKLCSSCGLPLGKGAAMIETLNLVYFHIQCFRCGICKGQL  
 GDAVSGTDVIRINGLLNCNDCYMRSRASAGQPTTL

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001289122

**ORF Size:** 3207 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).

**RefSeq:** [NM\\_001289122.3](#)

**RefSeq Size:** 6142 bp

**RefSeq ORF:** 3210 bp

**Locus ID:** 22998

**UniProt ID:** [Q9UPQ0](#)

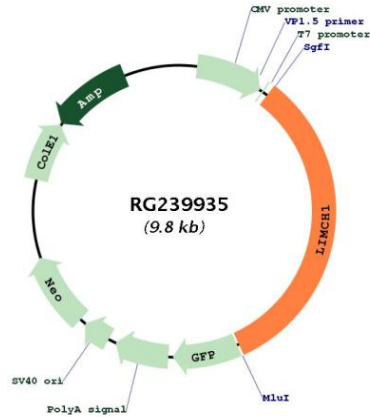
**Cytogenetics:** 4p13

**MW:** 120.9 kDa

**Gene Summary:**

Actin stress fibers-associated protein that activates non-muscle myosin IIa. Activates the non-muscle myosin IIa complex by promoting the phosphorylation of its regulatory subunit MRLC/MYL9. Through the activation of non-muscle myosin IIa, positively regulates actin stress fibers assembly and stabilizes focal adhesions. It therefore negatively regulates cell spreading and cell migration.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG239935