

## Product datasheet for **MG211106**

### Limch1 (BC075634) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Limch1 (BC075634) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Limch1
Synonyms:	mKIAA1102
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG211106 representing BC075634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACAAAACATGTACAATACGGTCCTTCATACGCGACTTTTATAGAATCCTTTTTACATGCGCAAGGC  
 CATCCATTATGTCAGATGACGCAGAGAGACAGATATGTTTGACATGCGGTGTGAGGAGGAGGCAGCGGT  
 GCTGCCGCACAGCAGGGCCCGCCAGGAGCAGCTGCAGCCCGAACCACTCCGGAGCTGCCTTCGCCGAG  
 GCACAGAAGTGGATCGAGCAAGTCACTGGTCAAGTTTTGGTGACAAAGACTTCCGGACAGGACTAGAAA  
 ATGGGATCCTCCTTTCGAGTTGCTGAATGCTATAAAGCCAGGACTTGTTAAAAAGATCAATAGATTGCC  
 TACCCCATTCGAGATTGGACAATACCATCTTATTCTTGAGAGGCTGTAAGGAGCTTGGCCTTAAAGAA  
 TCTCAACTCTTTGACCCGAGTGACCTCCAGGATACCTCCAACAGGGTCACTGTCAAGAACCTCGATTATA  
 GCAGGAAGCTGAAAACGTGCTAGTGACCATTTACTGGCTGGGAAAGCTGCAAACAGCTGTGCATCCTA  
 CGGTGGAACCACTGAACCTGAAGGAGTTTGAAGGGCTGTTGGCTCAGATGCGAAAGGAGACTGACGAC  
 ATTGATAGCCCGAAGCGCAGCATCCGAGACAGTGGCTACATCGACTGCTGGGACTCTGAACGCAGCGACT  
 CCCTCTCTCTCCTCGCCACGGACGGGAAGATGGGACAAGTGAGCGGAGGAAAAGCATCAAACTTACAG  
 AGAAATCGTCCAAGAAAAGAGCGGAGAGAGAGGGAATTCATGAGGCGTACAAGAACGCAAGGTCGCAG  
 GAGGAGGCCGAGGGGATCCTCCAGCAGTACATCGAGAGGTTCCACATCAGTGAGGCTGTCTCGAACGCT  
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 CAGCCCATGAAGTACCTGCGGCAGCAGTCACTGCCCCACCCAAAGTCACTGCCACGGTTGAGACCACC  
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 CAAACACAGTGCCTATGCTGACACCCAGCCCTTACTCCAGCCAAAACTCTCAAGAGTTCTGAAGAG  
 TTTTAAGGTAGATGGGAAGGTCAGCATGAATGGGGAAATGGCCCTGGAGATGAGGAAGGAAAGAAAAA  
 GAAGGCCCTGCAGCTGCAGCCCTGGCCCTTCTTAACCAAGTCCAGATGTTTGAAGGTGTGGCCACGG  
 TGCACGACTCTCTGTGCAGGTGAAACAAGGCAGCAACAGCATCGAGATCAACATCAAGAAGCCAAATTC  
 TGCTCCCCAGGAACTGACAGCAGCCTCTGAGGAACTGAATCGAACGGCCAAGAGGATGAAGACGGTGAA  
 GAAAGGCCAGGGACAGGGGATTTGGAGCCTGACTCGGCAGAACCCAGCACTTTACGACAACGTGACTC  
 GGTGCAGCCCAACAGTGGCCTTGGTGGAGTTTCAACCAACCCGAGCTGAAGAATGAGGTGCCAGAACA  
 AGGCCAGAAGAAGCCAGAAGATGAGATGAGTGGGAAGGTGGAGTGTAGTGTGTACAGAAGGTGGCAAAG  
 CCAAAATCCCAGAGCCTGAAGCAACCCGACGTTTCCATTTCTGACAAAATGCCTGAAACCAACCAAC  
 TACATTTGCCAAATCCCAGTTCTCAAGCGGATTCTCAAGCAGTGAAGTCCCTGGGAGCACACCCTT  
 TAAGTTCTGGGCATGGGACCCAGAAGAGGAGCGCCGGCGACAGGAGAAATGGCAGCAGGAGCAGGAACGT  
 CTGCTGCAGGAGAGGTATCAGAAGGAGCAAGACAAGCTGAAGGAGGAGTGGGAAAAGGCCAGAAGGAGG  
 TCGAAGAAGAAGAACGCAGATACTACGAGGAGGAGCGTAAGATAATTGAAGACACGGTGGTTCCATTAC  
 TATTTCTCAAGCTCTGCAGACCAACTGTCTACGTCCTTGTCTGTAACGAAGGCAGCGGACAAGGAAT  
 AAGATGGACTTGGAAAACGCCCAGACAAAGAAAACGAGAGAAGACAGAAGACGCCTTCCAGGAGAATG  
 ACGGTGATTCATTGCTCAAACTAGAGAAGGTGGTCTGCCAGAGGAGCAGAGCCTAACTCCAAGTCCCTC  
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 GGTGCTGCATGATCATCGAGACCCTGAATCTCTACTTTACATTCAAGTGTTCAGGTGCGGCATCTGTA  
 AAGGACAGCTCGGAGATGCAGTAAGCGGGACAGACGTCAAGATTTCGAATGGTCTCTAACTGTACCGA  
 CTGCTACATGCGATCCAGAAGTCCGGCCAGCCTACAACACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211106 representing BC075634  
 Red=Cloning site Green=Tags(s)

MHKTCTIRSFIRDFYRILFTCARPSIMSDDAESTSMFDMRCEEEAAVLPHSRARQEQLQPEPPPEPAFAE  
 AQKWIEQVTGRSFGDKDFRTGLENGILLCELLNAIKPGLVKKINRLPTPIAGLDNTILFLRGCKELGLKE  
 SQLFDPSDLQDTSNRVTVKNLDYSRKLKNVLVTIYWLGAANSASCASYGGTTLNLKEFEGLLAQMRETD  
 IDSPKRSIRDSDGYIDCWSERSDSLSPRHRGREDGTERRRSIKTYREIVQEKERERELHEAYKNARSQ  
 EEAEGILQQYIERFTISEAVLERLEMPKILERSHSTEPNVSSFPNDPSPMKYLRQQSLPPPFTATVETT  
 IARTSVPESIASAGTGSPSKIITPNTVPMLTRPYSQPKNSQEVLTQFKVDGKVMNGEMAPGDEEGKEK  
 EGPAAAAAGPSLTKSQMFEQVATVHDSVPVQVKGGSNSIEINIKKPNAPQELTAASEETESNGQEDEDGE  
 ERPGTGDLEPDSAEPQHFTTTVTRCSPTVALVEFSPNPQLKNEVPEQGQKPEDEMSESGKVELVLSQKVAK  
 PKSPEPEATLTFPFLDKMPETNQLHLPNPSSQADSPSSEKSPGSTPFKFWAWDPEEERRRQEKWQQEQER  
 LLQERYQKEQDKLKEWEKAQKEVEEEERRYYEEERKIIEDTVVPFTISSSSADQLSTLSVTEGSGTRN  
 KMDLENCDPKENERRQKTPFQENDGDSLLKTREGGLPEEQSLTPSPSANPEISVSKGIHQDPQLEAEGA  
 PHCGTNPQPAQDPPRNQIPNPPTSTSEVYKPKTLALEKTIHQMESPGERRRSISGKGLCSSCGLTLGK  
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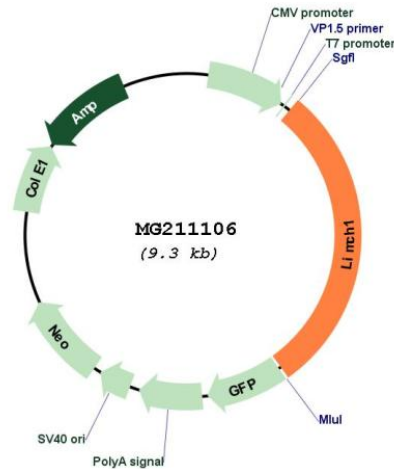
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** BC075634

**ORF Size:** 2705 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:** [BC075634](#)

**RefSeq Size:** 4698 bp

**RefSeq ORF:** 2705 bp

**Locus ID:** 77569

**Cytogenetics:** 5 C3.1

**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]